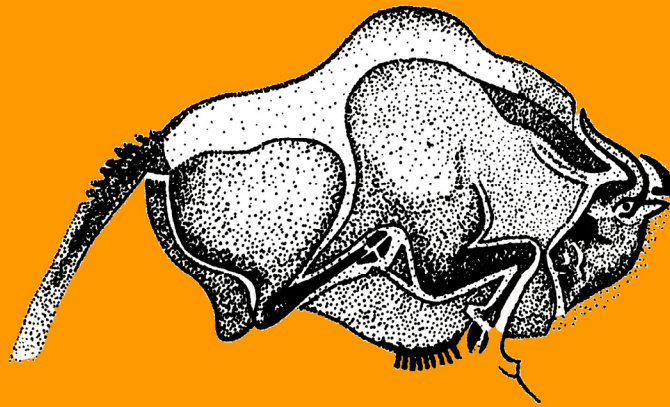


NOSTRATIC  
ETYMOLOGICAL  
INDEX



Allan R. Bomhard



FIFTH EDITION

2023



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Nostratic

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Etymological

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Index

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*By*  
Allan R. Bomhard

FIFTH REVISED, CORRECTED, AND EXPANDED EDITION

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*Nostratic Etymological Index*  
By Allan R. Bomhard

(1) Nostratic Hypothesis; (2) Comparative Linguistics; (3)  
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## FOREWORD

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This *Nostratic Etymological Index* contains all of the Proto-Nostratic roots and their derived verbal and nominal forms cited in the second and third volumes (Part Three: Comparative Vocabulary) of the fifth revised, corrected, and expanded edition of my book *A Comprehensive Introduction to Nostratic Comparative Linguistics* (published on-line under a Creative Commons License [2023]). This Index does not include either the supporting data from the daughter languages or the references. The supporting data can be found in Volumes 2 and 3 of the above book, while the references can be found in Volume 4.

In comparing the lexical material from the various Nostratic daughter languages, I have tried to be very careful about the issue of semantic plausibility. Where there is either a one-to-one or an extremely close semantic correspondence, there is, of course, no problem. Unfortunately, things are not always this straightforward. Quite often, there is not a one-to-one semantic correspondence — in such cases, we must be able to derive the proposed cognates from the postulated ancestor form by widely-attested semantic shifts and not by mere speculation. Therefore, in attempting to determine whether or not particular lexical items from the various language families under consideration might be related, I have made extensive use of Carl Darling Buck's *A Dictionary of Selected Synonyms in the Principal Indo-European Languages* as a control for the semantic development of the proposed lexical parallels, and references to the appropriate sections of this work are given at the end of each proposed Nostratic etymology. It may be noted that, in examining the lexicons of Kartvelian, Afrasian, Uralic-Yukaghir, Elamo-Dravidian, Altaic, and Eskimo-Aleut, semantic shifts similar to those described by Buck for the Indo-European languages are found over and over again in these other language families as well. I cannot emphasize strongly enough that, in order to gain a complete understanding of how I arrived at my proposals, Buck's dictionary must be consulted. However, in a number of instances, where I felt it was warranted due to the wide semantic differences found among the forms cited from the daughter languages, I have given brief explanations within the etymologies themselves.

As valuable as Buck's dictionary is, however, it is not without its shortcomings. In the first place, as noted by Buck himself, the dictionary is not complete — due to the nature of the material involved, Buck and his assistants had to be selective in choosing what to include. Next, the research upon which the dictionary is based is now three-quarters of a century old. Therefore, Buck's dictionary must be supplemented by more recent scholarship. Unfortunately, however, this work is spread throughout so many journal articles, dissertations, and books that it is virtually impossible to consult all of it, especially when one is dealing with multiple language families.

It is not enough, moreover, simply to compare dictionary forms. Rather, when working with the lexical data from the various Nostratic daughter languages, one must strive to ascertain the underlying semantics, that is to say, the fundamental

meaning or meanings from which the full set of semantic nuances are derived, based upon actual usage, wherever this is possible, and one must be cognizant of the interrelationship between social, cultural, and conceptual factors on the one hand and semantic structures on the other. It goes without saying that this is neither a simple nor an easy undertaking.

The approach that I have followed thus leads to the establishment of what may be called “families of words” in the tradition of the great Indo-European comparative dictionaries such as Pokorny and Walde. The starting point is always the reconstructed Nostratic forms. The material cited from the individual Nostratic daughter languages is then to be judged primarily by whether or not it can be convincingly derived from the antecedent Nostratic forms either directly or through widely-attested semantic shifts.

The difficulties involved in dealing with semantic change in unattested languages have been clearly articulated by Werner Winter:

The difficulties encountered by the etymologist reaching out toward unattested and hence textless languages are deep-rooted and virtually insurmountable. When one reads an intelligently written, richly documented book such as Blank 1997, one cannot help being impressed with the fact that it is relatively easy to describe and classify semantic changes such as metonymy and metaphor that occurred in the course of the history of an individual language or a group of closely related languages, but that there is a near total absence of what one might call determinacy and hence predictability as to the kind and direction of the changes that can be shown to have taken place and therefore can be expected to occur again under comparable circumstances. The applicability of a form may remain unchanged, it may be extended to cover additional meaning configurations, it may be narrowed, it may be eliminated altogether; new denotations added may concern closely related items, as in the case of metonymy, or seemingly very different ones, as when metaphors are used. As long as one limits oneself to a retrospective analysis of data from historically well-attested languages, the lack of regularity will not affect the descriptive adequacy of one’s findings; if, however, one turns to the study of prehistoric stages of a language or a group of languages, one is left with hardly any well-defined criteria by which to evaluate one’s hypotheses (and those of others). The only criterion that seems to be operationally usable derives from the assumption made above: if both phonetic and semantic change occurred in relatively small steps, feature by feature, component by component, then the likelihood that a hypothesis might be correct can be said to be supported in a more than subjective way. This does not eliminate the difficulty that observable change can occur in all possible directions and that to complicate matters even further, in the course of a historical development, the direction may change at any time. If that is the case, it follows that in the absence of observable data — that is, under conditions normal for reconstructional linguists — no objectifiable criteria can be called upon by the etymologist, and his proposals will always reflect his personal preferences.



Another important point that needs to be reiterated concerns how I segment the reconstructed forms I am dealing with. Comparison of the various Nostratic daughter languages indicates that the rules governing the structural patterning of roots and stems in Proto-Nostratic were most likely as follows:

1. There were no initial vowels in Proto-Nostratic. Therefore, every root began with a consonant.
2. There were no initial consonant clusters either. Consequently, every root began with one and only one consonant. Medial clusters were permitted, however.
3. Two basic root types existed: (A) *\*CV* and (B) *\*CVC*, where *C* = any non-syllabic, and *V* = any vowel. Permissible root forms coincided exactly with these two syllable types.
4. A stem could either be identical with a root or it could consist of a root plus a single derivational morpheme added as a suffix to the root: *\*CVC+C-*. Any consonant could serve as a suffix. Note: In nominal stems, this derivational suffix was added directly to the root: *\*CVC+C-*. In verbal stems, it was added after the formative vowel: *\*CVC+V<sub>FV</sub>+C-*. (*FV* = formative vowel.)
5. A stem could thus assume any one of the following shapes: (A) *\*CV-*, (B) *\*CVC-*, (C) *\*CVC+C-*, or (D) (reduplicated) *\*CVC-CVC-*. As in Proto-Altaic, the undifferentiated stems were real forms in themselves and could be used without additional suffixes or grammatical endings. However, when so used, a vowel had to be added to the stem: (A) *\*CV-* > *\*CV* (no change), (B) *\*CVC-* > *\*CVC+V*, (C) *\*CVC+C-* > *\*CVC+C+V*, or (D) (reduplicated) *\*CVC-CVC-* > *\*CVC-CVC+V*. Following Afrasian terminology, this vowel may be called a “terminal vowel” (TV). Not only did terminal vowels exist in Proto-Afrasian, they are also found in Dravidian, where they are called “enunciative vowels”, and in Elamite, where they are called “thematic vowels”. In Proto-Dravidian, the enunciative vowel was only required in stems ending in obstruents, which could not occur in final position.

The original root structure patterning was maintained longer in Afrasian, Dravidian, and Altaic than in the other branches, while the patterning found in Proto-Indo-European and Proto-Kartvelian has been modified by developments specific to each of these branches. The root structure constraints found in Proto-Indo-European were an innovation. In Proto-Uralic, the rule requiring that all words end in a vowel was an innovation and arose from the incorporation of the so-called “terminal vowel” into the stem. It should be mentioned here that reduplication was a widespread phenomenon.

On the basis of the evidence of Proto-Indo-European, Proto-Kartvelian, Proto-Afrasian, Proto-Dravidian, and Proto-Altaic, it may be assumed that there were three fundamental stem types: (A) verbal stems, (B) nominal (and adjectival) stems, and (C) pronominal and indeclinable stems. Some stems were exclusively nominal. In the majority of cases, however, both verbal stems and nominal stems could be built from the same root. In Proto-Nostratic, only pronominal and indeclinable

stems could end in a vowel. Verbal and nominal stems, on the other hand, had to end in a consonant, though, as noted above, when the undifferentiated stems were used as real words in themselves, a “terminal vowel” had to be added to the stem. As explained in Chapter 17 of my book, the terminal vowels were morphologically significant (as were the “formative vowels”).

The reconstructed forms for each proto-language conform to a uniform method of transcription — deviations from traditional transcriptions are explained in the chapters on phonology (volume 1 of my book). The works cited at the end of each entry always give the traditional reconstructions, as written by the individual authors cited. In the case of Proto-Uralic and Proto-Finno-Ugrian, I have kept the symbol /ɜ/, which is traditionally used in Uralic studies as a cover symbol to indicate a vowel of unknown quality.

In the case of both Uralic and Altaic, a certain amount of standardization has been done in the transcription of the forms cited from the individual daughter languages. For Altaic, the system of transcription is close to that used in Starostin—Dybo—Mudrak’s 2003 *An Etymological Dictionary of Altaic Languages*, though, occasionally, Poppe’s transcription is used instead. In both cases, I have allowed a certain degree of latitude due to the wide variations found in the literature.

Inasmuch as the Proto-Indo-European reconstructions included in this book are in accordance with the glottalic model of Indo-European consonantism proposed by Thomas V. Gamkrelidze, Vjačeslav V. Ivanov, and Paul J. Hopper (see Chapter 3 of my book for details), traditional reconstructions are also given for comparison at the end of each Indo-European etymology as part of the references.

It must also be noted that I have been selective in the forms cited from the various Nostratic daughter languages. My goal has been to give a representative sampling, in part to illustrate the semantics involved, and not to cite all known cognates — nonetheless, the documentation is quite extensive. For additional information, the works cited at the end of each etymology should be consulted, as should other works listed in the references but not necessarily cited after individual etymologies.

Even though I have made extensive use of the works of other scholars (especially V. M. Illič-Svityč, A. Dolgopolsky, and V. Blažek) doing research on the comparative vocabulary of the Nostratic languages, I have sometimes purposely excluded material that they have cited. This does not necessarily mean that I reject their suggestions (though in many cases it does). Rather, I have endeavored to verify all of the data cited by other scholars on the basis of works available to me. In those cases where I have been unable to verify the data cited, I have usually not included their proposals. In those cases where I have included data that I was not able to verify, I have added comments to that effect. The major exception to this rule involves the Chadic data cited by Orël—Stolbova in their joint Afrasian etymological dictionary (1995), most of which I have not been able to verify independently. Finally, in those instances where I have intentionally rejected, either fully or in part, the proposals made by others, I have not given references to their

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work nor have I discussed the reasons for rejection (almost always because the semantics are not plausible and/or because there are problems with the phonology).

Proto-Nostratic verbs are cited in their root/stem form, nouns in the “*status indeterminatus*” form (that is, *\*-a*) (see Chapter 17 of my book for details).

Adjectives did not exist as an independent grammatical category in Proto-Nostratic. Intransitive verbs could function as “adjectives”. Also, “adjectives” were differentiated from nouns mainly by syntactical means — a noun placed before another noun functioned as an attribute to the latter. To illustrate the different semantic functions of nominal words, Proto-Nostratic *\*bar-a* could mean: (n) ‘goodness, kindness’; (adj.) ‘good, kind’; (adv.) ‘goodly, kindly, well’.

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June 2023



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CHAPTER 1

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PROTO-NOSTRATIC \*b

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
b-	b-	p-	b-	b <sup>h</sup> -	p-	b-	p-
-b-	-b-	-pp-/-vv-	-b-	-b <sup>h</sup> -	-w-	-b-	-v-

1. Proto-Nostratic root *\*baʃ-* (~ *\*bəʃ-*):  
 (vb.) *\*baʃ-* ‘to pour’;  
 (n.) *\*baʃ-a* ‘torrent, outpour’
  
2. Proto-Nostratic root *\*baʃ-* (~ *\*bəʃ-*):  
 (vb.) *\*baʃ-* ‘to tie, to bind; to attach, to fasten’;  
 (n.) *\*baʃ-a* ‘tie, bond, bandage, fastening’
  
3. Proto-Nostratic (n.) *\*baba* ‘father’ (nursery word)
  
4. Proto-Nostratic (n.) *\*baaba* ‘child, babe’ (nursery word)
  
5. Proto-Nostratic root *\*bad-* (~ *\*bəd-*):  
 (vb.) *\*bad-* ‘to split, to cleave, to separate, to divide’;  
 (n.) *\*bad-a* ‘split, crack, breach, opening’
  
6. Proto-Nostratic root *\*bad-* (~ *\*bəd-*):  
 (vb.) *\*bad-* ‘to waste, to dissipate, to squander’;  
 (n.) *\*bad-a* ‘dissipation, waste, wasteland, desolated area’
  
7. Proto-Nostratic root *\*bad-* (~ *\*bəd-*):  
 (vb.) *\*bad-* ‘to occur, to happen, to experience, to endure; to cause to endure, to make to suffer, to oppress’;  
 (n.) *\*bad-a* ‘experience, happening, trouble, distress, suffering, oppression’  
 Derivative:  
 (n.) *\*bad-a* ‘need, want, lack, deprivation’
  
8. Proto-Nostratic (n.) *\*bad-a* ‘need, want, lack, deprivation’ (> ‘hunger’):  
 Derivative of:  
 (vb.) *\*bad-* ‘to occur, to happen, to experience, to endure; to cause to endure, to make to suffer, to oppress’;  
 (n.) *\*bad-a* ‘experience, happening, trouble, distress, suffering, oppression’

- 
9. Proto-Nostratic root *\*bad-* (~ *\*bəd-*):  
 (vb.) *\*bad-* ‘to fall down, to lie down; to decay, to weaken; to perish’;  
 (n.) *\*bad-a* ‘lying down, fall, sleep, ruin’
10. Proto-Nostratic root *\*bad-* (~ *\*bəd-*):  
 (vb.) *\*bad-* ‘to bring into being, to bring forth; to bring into action, to initiate,  
 to instigate, to activate, to originate’;  
 (n.) *\*bad-a* ‘creation, initiation, origination’
11. Proto-Nostratic (n.) *\*bag-a* ‘goat, sheep’
12. Proto-Nostratic root *\*bag-* (~ *\*bæg-*):  
 (vb.) *\*bag-* ‘to tie or bind together’;  
 (n.) *\*bag-a* ‘collection of things bound together: bunch, bundle, pack’
13. Proto-Nostratic root *\*bah-* (~ *\*bəh-*):  
 (vb.) *\*bah-* ‘to shine’;  
 (n.) *\*bah-a* ‘brilliance, brightness, splendor, beauty; light’; (adj.) ‘shining,  
 bright, radiant’
14. Proto-Nostratic root *\*baḥ-* (~ *\*bəḥ-*):  
 (vb.) *\*baḥ-* ‘to make noise’;  
 (n.) *\*baḥ-a* ‘noise, sound; voice’
15. Proto-Nostratic root *\*baḥ-* (~ *\*bəḥ-*):  
 (vb.) *\*baḥ-* ‘to cut, to cut off, to strike’;  
 (n.) *\*baḥ-a* ‘cut, strike, blow’
16. Proto-Nostratic root *\*bak<sup>h</sup>-* (~ *\*bək<sup>h</sup>-*):  
 (vb.) *\*bak<sup>h</sup>-* ‘to declare, to utter, to announce, to assert, to proclaim’;  
 (n.) *\*bak<sup>h</sup>-a* ‘declaration, utterance, announcement, assertion, proclamation’
17. Proto-Nostratic root *\*bak’-* (~ *\*bək’-*):  
 (vb.) *\*bak’-* ‘to cleave, to split, to break open’;  
 (n.) *\*bak’-a* ‘crack, split, break’
18. Proto-Nostratic root *\*bak’-* (~ *\*bək’-*):  
 (vb.) *\*bak’-* ‘to look at, to look over, to observe, to examine; to look for’;  
 (n.) *\*bak’-a* ‘looking at or over, observation, examination’
19. Proto-Nostratic (n.) *\*bak’-a* ‘cattle, herd of cattle’
20. Proto-Nostratic root *\*bal-* (~ *\*bəl-*):  
 (vb.) *\*bal-* ‘to be or become dark, obscure, blind’;  
 (n.) *\*bal-a* ‘darkness, obscurity, blindness’; (adj.) ‘dark, obscure, blind’

21. Proto-Nostratic root *\*bal-* (~ *\*bəl-*):  
 (vb.) *\*bal-* ‘to well up, to surge, to overflow, to pour over’;  
 (n.) *\*bal-a* ‘outpour, downpour, surge, flow’
22. Proto-Nostratic root *\*bal-* (~ *\*bəl-*):  
 (vb.) *\*bal-* ‘to bite, to eat’;  
 (n.) *\*bal-a* ‘bite, morsel’
23. Proto-Nostratic root *\*bal-* (~ *\*bəl-*):  
 (vb.) *\*bal-* ‘to shine, to be bright’;  
 (n.) *\*bal-a* ‘glitter, gleam, brightness’
24. Proto-Nostratic root *\*ban-* (~ *\*bən-*):  
 (vb.) *\*ban-* ‘to pour, to sprinkle, to drip’;  
 (n.) *\*ban-a* ‘a drop (of water, rain, dew, etc.)’
25. Proto-Nostratic root *\*ban-* (~ *\*bən-*):  
 (vb.) *\*ban-* ‘to separate, to open, to spread’;  
 (n.) *\*ban-a* ‘separation, opening, stretch, spread, scattering’
26. Proto-Nostratic root (Eurasian only) *\*ban-* (~ *\*bən-*):  
 (vb.) *\*ban-* ‘to cut, to strike’;  
 (n.) *\*ban-a* ‘cut, wound’
27. Proto-Nostratic root *\*ban-* (~ *\*bən-*):  
 Extended form:  
 (vb.) *\*ban-V-d-* ‘to tie, bind, fasten, or twist (together)’;  
 (n.) *\*ban-d-a* ‘tie, bond’
- Note: Only the extended form is attested in the daughter languages.
28. Proto-Nostratic root *\*bar-* (~ *\*bər-*):  
 (vb.) *\*bar-* ‘to swell, to puff up, to expand’;  
 (n.) *\*bar-a* ‘swelling, bulge, increase’  
 Derivatives:  
 (vb.) *\*bar-* ‘to bristle (up), to stand on end’;  
 (n.) *\*bar-a* ‘bristle, point, spike’  
 (vb.) *bar-* ‘to blow’;  
 (n.) *\*bar-a* ‘wind’  
 (vb.) *\*bar-* ‘to be thick, bushy, shaggy; to be coarse, rough, harsh’  
 (n.) *\*bar-a* ‘roughness, coarseness, harshness; thickness, shagginess’; (adj.)  
 ‘rough, harsh, coarse; thick, shaggy, bushy’

29. Proto-Nostratic root *\*bar-* (~ *\*bər-*):  
 (vb.) *\*bar-* ‘to bristle (up), to stand on end’;  
 (n.) *\*bar-a* ‘bristle, point, spike’  
 Derivative of:  
 (vb.) *\*bar-* ‘to swell, to puff up, to expand’;  
 (n.) *\*bar-a* ‘swelling, bulge, increase’
30. Proto-Nostratic root *\*bar-* (~ *\*bər-*):  
 (vb.) *bar-* ‘to blow’;  
 (n.) *\*bar-a* ‘wind’  
 Derivative of:  
 (vb.) *\*bar-* ‘to swell, to puff up, to expand’;  
 (n.) *\*bar-a* ‘swelling, bulge, increase’
31. Proto-Nostratic *\*bar-* (~ *\*bər-*):  
 (vb.) *\*bar-* ‘to be thick, bushy, shaggy; to be coarse, rough, harsh’;  
 (n.) *\*bar-a* ‘roughness, coarseness, harshness; thickness, shagginess’; (adj.)  
 ‘rough, harsh, coarse; thick, shaggy, bushy’  
 Derivative of:  
 (vb.) *\*bar-* ‘to swell, to puff up, to expand’;  
 (n.) *\*bar-a* ‘swelling, bulge, increase’
32. Proto-Nostratic root *\*bar-* (~ *\*bər-*):  
 (vb.) *\*bar-* ‘to bear children, to give birth’;  
 (n.) *\*bar-a* ‘child’
33. Proto-Nostratic root *\*bar-* (~ *\*bər-*):  
 (vb.) *\*bar-* ‘to take or seize hold of, to grasp’;  
 (n.) *\*bar-a* ‘hold, grasp, seizure’
34. Proto-Nostratic (n.) *\*bar-a* ‘seed, grain’
35. Proto-Nostratic root *\*bar-* (~ *\*bər-*):  
 (vb.) *\*bar-* ‘to shine, to be bright, to sparkle, to flash’;  
 (n.) *\*bar-a* ‘light, brightness; lightning’
36. Proto-Nostratic root *\*bar-* (~ *\*bər-*):  
 (vb.) *\*bar-* ‘to be kind, charitable, beneficent; to do good’;  
 (n.) *\*bar-a* ‘goodness, kindness’; (adj.) ‘good, kind, beneficent’
37. Proto-Nostratic root *\*bar-* (~ *\*bər-*):  
 (vb.) *\*bar-* ‘to split (with a tool or weapon); to cut into, to carve; to scrape’;  
 (n.) *\*bar-a* ‘carving, engraving, cuttings, chip’



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38. Proto-Nostratic root *\*bar-* (~ *\*bər-*):  
 (vb.) *\*bar-* ‘to make a sound, to utter a noise’;  
 (n.) *\*bar-a* ‘sound, noise’
39. Proto-Nostratic (n.) *\*bar-a* used as the base for several insect names
40. Proto-Nostratic (n.) *\*bar-a* ‘bone of leg or arm’
41. Proto-Nostratic *\*bar-* (~ *\*bər-*):  
 (vb.) *\*bar-* ‘to walk, to go (away)’;  
 (n.) *\*bar-a* ‘walking, going (away), leaving, departing’
42. Proto-Nostratic root *\*bar<sup>y</sup>-* (~ *\*bər<sup>y</sup>-*):  
 (vb.) *\*bar<sup>y</sup>-* ‘to be or become barren, desolate, useless, unfruitful’;  
 (n.) *\*bar<sup>y</sup>-a* ‘open, fallow, or barren land’; (adj.) ‘barren, desolate, useless, unfruitful’
43. Proto-Nostratic root *\*baw-* (~ *\*bəw-*):  
 (vb.) *\*baw-* ‘to be or become aware of or acquainted with, to observe, to notice’;  
 (n.) *\*baw-a* ‘awareness, knowledge’
44. Proto-Nostratic root *\*bay-* (~ *\*bəy-*):  
 (vb.) *\*bay-* ‘to apportion, to divide into shares, to distribute, to allot, to share’;  
 (n.) *\*bay-a* ‘portion, share’
45. Proto-Nostratic (n.) *\*bay-a* ‘honey, bee’
46. Proto-Nostratic root *\*baž-* (~ *\*bəž-*):  
 (vb.) *\*baž-* ‘to be abundant, to be numerous, to be much, to be many’;  
 (n.) *\*baž-a* ‘abundance’; (adj.) ‘abundant, much, many’
47. Proto-Nostratic (n.) *\*ber-a* ‘swamp’
48. Proto-Nostratic (n.) *\*b[e]r-a* ‘knee’
49. Proto-Nostratic (n.) *\*bey-a* ‘spirit, soul, self’
50. Proto-Nostratic relational marker *\*bi* ‘in addition to, with, together with’
51. Proto-Nostratic root *\*bin-* (~ *\*ben-*):  
 (vb.) *\*bin-* ‘to tie (together), to fasten, to twist together, to bind (together)’;  
 (n.) *\*bin-a* ‘tie, bond’

52. Proto-Nostratic (n.) *\*bin-a*, *\*ban-a* ‘younger relative: (m.) younger brother, younger son; (f.) younger sister, younger daughter’
53. Proto-Nostratic root *\*bir-* (~ *\*ber-*):  
 (vb.) *\*bir-* ‘to swell, to rise, to grow’;  
 (n.) *\*bir-a* ‘largeness, greatness, height, tallness’; (adj.) ‘big, large, great, tall’  
 Extended form:  
 (vb.) *\*bir-V-g-* ‘to be high’;  
 (n.) *\*bir-g-a* ‘height, high place’; (adj.) ‘high, tall, lofty’  
 Note: The unextended form is found in Dravidian.
54. Proto-Nostratic root *\*bir-* (~ *\*ber-*):  
 (vb.) *\*bir-* ‘to sing, to play (a musical instrument)’;  
 (n.) *\*bir-a* ‘singing, playing (a musical instrument), musical instrument’
55. Proto-Nostratic root *\*bir-* (~ *\*ber-*):  
 (vb.) *\*bir-* ‘to cut, rip, pull, break, or tear off; to pull’;  
 (n.) *\*bir-a* ‘the act of cutting, ripping, pulling, breaking, or tearing off’
56. Proto-Nostratic (n.) *\*bir-a* ‘gnat, mosquito, midge, fly’
57. Proto-Nostratic root *\*bir<sup>y-</sup>* (~ *\*ber<sup>y-</sup>*):  
 (vb.) *\*bir<sup>y-</sup>* ‘to enjoy, to savor’;  
 (n.) *\*bir<sup>y-</sup>-a* ‘fruit’  
 Extended form:  
 (n.) *\*bir<sup>y-</sup>-q<sup>-a</sup>* ‘plum’
58. Proto-Nostratic (n.) *\*bir<sup>y-</sup>-a* ‘penis’
59. Proto-Nostratic root *\*bit<sup>y-</sup>* (~ *\*bet<sup>y-</sup>*):  
 (vb.) *\*bit<sup>y-</sup>* ‘to press between the fingers, to squeeze, to crush’;  
 (n.) *\*bit<sup>y-</sup>-a* ‘squeeze, pinch, pressure’
60. Proto-Nostratic root *\*bit<sup>h-</sup>* (~ *\*bet<sup>h-</sup>*):  
 (vb.) *\*bit<sup>h-</sup>* ‘to break, to split, to prick (tr.); to split apart, to break open, to burst forth (intr.)’;  
 (n.) *\*bit<sup>h-</sup>-a* ‘break, slit, hole, piece broken off’
61. Proto-Nostratic *\*bor<sup>y-</sup>-a* ‘(n.) a dark color; (adj.) dark, dark-colored’
62. Proto-Nostratic root *\*bud-* (~ *\*bud-*):  
 (vb.) *\*bud-* ‘to set fire to something, to kindle’;  
 (n.) *\*bud-a* ‘blaze, light, fire’
63. Proto-Nostratic (n.) *\*bud-a* ‘lowest part or region (of anything)’

64. Proto-Nostratic (n.) *\*bud-a* ‘stick’
65. Proto-Nostratic root *\*bug-* (~ *\*bog-*):  
 (vb.) *\*bug-* ‘to blister, to swell’;  
 (n.) *\*bug-a* ‘boil, blister, pustule’
66. Proto-Nostratic root *\*bug-* (~ *\*bog-*):  
 Extended form:  
 (vb.) *\*bug-V-r-* ‘to make a sound, to make a noise’;  
 (n.) *\*bug-r-a* ‘sound, noise’
- Note: Only the extended form is attested in the daughter languages.
67. Proto-Nostratic (n.) *\*buk'-a* (~ *\*bok'-a*) ‘he-goat, buck’
68. Proto-Nostratic root *\*bul-* (~ *\*bol-*):  
 (vb.) *\*bul-* ‘to swell, to expand, to spread out, to overflow; to puff up, to inflate’;  
 (n.) *\*bul-a* ‘large quantity or amount; expansion, spread, inflation; puff, blow’  
 Derivatives:  
 (n.) *\*bul-a* (~ *\*bol-a*) ‘penis, testicle(s)’  
 (vb.) *\*bul-V-γ-* ‘to ripen, to blossom, to bloom, to sprout, to mature’;  
 (n.) *\*bul-γ-a* ‘increase, growth, ripening, maturity, prosperity, blossoming’  
 Reduplicated:  
 (vb.) *\*bul-bul-* ‘to swell, to bubble up’;  
 (n.) *\*bul-bul-a* ‘puff, bubble, swelling’
69. Proto-Nostratic (n.) *\*bul-a* (~ *\*bol-a*) ‘penis, testicle(s)’:  
 Derivative of:  
 (vb.) *\*bul-* ‘to swell, to expand, to spread out, to overflow; to puff up, to inflate’;  
 (n.) *\*bul-a* ‘large quantity or amount; expansion, spread, inflation; puff, blow’
70. Proto-Nostratic root *\*bul-* (~ *\*bol-*):  
 Extended form:  
 (vb.) *\*bul-V-γ-* ‘to ripen, to blossom, to bloom, to sprout, to mature’;  
 (n.) *\*bul-γ-a* ‘increase, growth, ripening, maturity, prosperity, blossoming’  
 Derivative of:  
 (vb.) *\*bul-* ‘to swell, to expand, to spread out, to overflow; to puff up, to inflate’;  
 (n.) *\*bul-a* ‘large quantity or amount; expansion, spread, inflation; puff, blow’

71. Proto-Nostratic root (reduplicated) *\*bul-bul-* (~ *\*bol-bol-*) (> *\*bum-bul-* [*~\*bom-bol-*]):  
 (vb.) *\*bul-bul-* (> *\*bum-bul-*) ‘to swell, to bubble up’;  
 (n.) *\*bul-bul-a* (> *\*bum-bul-a*) ‘puff, bubble, swelling’  
 Derivative of:  
 (vb.) *\*bul-* ‘to swell, to expand, to spread out, to overflow; to puff up, to inflate’;  
 (n.) *\*bul-a* ‘large quantity or amount; expansion, spread, inflation; puff, blow’
72. Proto-Nostratic root *\*bul-* (~ *\*bol-*):  
 (vb.) *\*bul-* ‘to mix, to mix up, to confuse’;  
 (n.) *\*bul-a* ‘mixture, confusion, turbidity, blur’  
 Derivative:  
 (n.) *\*bul-a* ‘that which is dark, dark colored; that which has mixed colors, that which is spotted’
73. Proto-Nostratic (n.) *\*bul-a* ‘that which is dark, dark-colored; that which has mixed colors, that which is spotted’  
 Derivative of:  
 (vb.) *\*bul-* ‘to mix, to mix up, to confuse’;  
 (n.) *\*bul-a* ‘mixture, confusion, turbidity, blur’
74. Proto-Nostratic root *\*bul-* (~ *\*bol-*):  
 (vb.) *\*bul-* ‘to crush, to grind, to weaken, to wear down; to become worn out, weak, tired, old’;  
 (n.) *\*bul-a* ‘that which is worn out, weak, tired: weakness, decline, decay, wear, etc.; (adj.) worn out, weak, tired, old’
75. Proto-Nostratic (n.) *\*bulʷ-a* ‘a kind of small bird: pigeon, dove’
76. Proto-Nostratic root *\*bun-* (~ *\*bon-*):  
 (vb.) *\*bun-* ‘to puff up, to inflate, to expand, to swell’;  
 (n.) *\*bun-a* ‘rounded protuberance, swelling, lump, hump, growth’  
 Extended form:  
 (vb.) *\*bun-V-g-* ‘to swell, to increase, to expand’;  
 (n.) *\*bun-g-a* ‘swelling’; (adj.) ‘swollen, fat, thick’  
 Derivative:  
 (vb.) *\*bun-* ‘to flow, to overflow’;  
 (n.) *\*bun-a* ‘flow, flood’
77. Proto-Nostratic root *\*bun-* (~ *\*bon-*):  
 (vb.) *\*bun-* ‘to flow, to overflow’;  
 (n.) *\*bun-a* ‘flow, flood’

Derivative of:

(vb.) \**bur-* ‘to puff up, to inflate, to expand, to swell’;

(n.) \**bur-a* ‘rounded protuberance, swelling, lump, hump, growth’

78. Proto-Nostratic root \**bur-* (~ \**bor-*):

(vb.) \**bur-* ‘to twist, to turn’;

(n.) \**bur-a* ‘twist, turn’

Derivatives:

(vb.) \**bur-* ‘to fight, to wrangle (over), to quarrel, to wrestle’;

(n.) \**bur-a* ‘fight, dispute, quarrel, battle, struggle’

(vb.) \**bur-* ‘to bore, to pierce’;

(n.) \**bur-a* ‘gimlet, borer, auger’

79. Proto-Nostratic root \**bur-* (~ \**bor-*):

(vb.) \**bur-* ‘to fight, to wrangle (over), to quarrel, to wrestle’;

(n.) \**bur-a* ‘fight, dispute, quarrel, battle, struggle’

Derivative of:

(vb.) \**bur-* ‘to twist, to turn’;

(n.) \**bur-a* ‘twist, turn’

80. Proto-Nostratic root \**bur-* (~ \**bor-*):

(vb.) \**bur-* ‘to bore, to pierce’;

(n.) \**bur-a* ‘gimlet, borer, auger’

Derivative of:

(vb.) \**bur-* ‘to twist, to turn’;

(n.) \**bur-a* ‘twist, turn’

81. Proto-Nostratic root \**bur-* (~ \**bor-*):

(vb.) \**bur-* ‘to blow, to blow about, to whirl, to rage’;

(n.) \**bur-a* ‘storm, whirl, rage’

82. Proto-Nostratic root \**bur-* (~ \**bor-*):

(vb.) \**bur-* ‘to bite, to eat’;

(n.) \**bur-a* ‘food’

83. Proto-Nostratic root \**bur-* (~ \**bor-*):

(vb.) \**bur-* ‘to cover, to wrap up’;

(n.) \**bur-a* ‘cover, covering’

84. Proto-Nostratic (n.) \**bur-a* ‘(fine, soft) feathers, fur, wool, (body) hair’

85. Proto-Nostratic (n.) \**bur-a* ‘wing, pinion, feather(s)’

86. Proto-Nostratic (n.) \**bur-a* ‘eyelash, eyebrow’

87. Proto-Nostratic (n.) *\*bur<sup>y</sup>-a* used as the base for several insect names, perhaps originally ‘buzzing insect’ (if this be the case, the following underlying verb form may be implied here: Proto-Nostratic *\*bur<sup>y</sup>-* ‘to make a buzzing sound’)
88. Proto-Nostratic root *\*buw-* (~ *\*bow-*):  
(vb.) *\*buw-* ‘to go, to come, to proceed, to spend time’;  
(n.) *\*buw-a* ‘going, coming, staying; abode, dwelling, residence’
89. Proto-Nostratic root *\*buw-* (~ *\*bow-*):  
(vb.) *\*buw-* ‘to become, to arise, to come into being, to grow’;  
(n.) *\*buw-a* ‘growth, fullness, prosperity; blossom, bloom’

CHAPTER 2

PROTO-NOSTRATIC \*p<sup>h</sup> (> PROTO-AFRASIAN \*p)

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaiic	Proto-Eskimo
p <sup>h</sup> -	p-	p-	p-	p <sup>h</sup> -	p-	p <sup>h</sup> -	p-
-p <sup>h</sup> -	-p-	-pp-/-v-	-p-	-p <sup>h</sup> -	-p-	-p <sup>h</sup> -	-p(p)-

90. Proto-Nostratic root \*p<sup>h</sup>ač<sup>h</sup>- (~ \*p<sup>h</sup>əč<sup>h</sup>-):  
 (vb.) \*p<sup>h</sup>ač<sup>h</sup>- ‘to split or break open, to split or break apart’;  
 (n.) \*p<sup>h</sup>ač<sup>h</sup>-a ‘crack, split, opening, break’
91. Proto-Nostratic root \*p<sup>h</sup>ač’- (~ \*p<sup>h</sup>əč’-):  
 (vb.) \*p<sup>h</sup>ač’- ‘to cover up’;  
 (n.) \*p<sup>h</sup>ač’-a ‘skin, hide, covering’
92. Proto-Nostratic root \*p<sup>h</sup>aḥ- (~ \*p<sup>h</sup>əḥ-):  
 (vb.) \*p<sup>h</sup>aḥ- ‘to eat’;  
 (n.) \*p<sup>h</sup>aḥ-a ‘food, nourishment’
93. Proto-Nostratic (n.) \*p<sup>h</sup>ak<sup>h</sup>-a ‘scab, dried mucus’
94. Proto-Nostratic (n.) \*p<sup>h</sup>al-a (metathesized variant \*lap<sup>h</sup>-a in Uralic, Altaic, and part of Afrasian) ‘spleen’
95. Proto-Nostratic root \*p<sup>h</sup>al- (~ \*p<sup>h</sup>əl-):  
 (vb.) \*p<sup>h</sup>al- ‘to split, to cleave’;  
 (n.) \*p<sup>h</sup>al-a ‘split, crack’  
 Derivative:  
 (n.) \*p<sup>h</sup>al-a ‘stone’
96. Proto-Nostratic (n.) \*p<sup>h</sup>al-a ‘stone’  
 Derivative of:  
 (vb.) \*p<sup>h</sup>al- ‘to split, to cleave’ (in the sense ‘to chip or break stone[s]’);  
 (n.) \*p<sup>h</sup>al-a ‘split, crack’
97. Proto-Nostratic root \*p<sup>h</sup>al- (~ \*p<sup>h</sup>əl-):  
 (vb.) \*p<sup>h</sup>al- ‘to spread, to extend’;  
 (n.) \*p<sup>h</sup>al-a ‘that which is wide, flat, level, broad, open: expanse, open space or surface’; (adj.) ‘wide, flat, level, broad, open’  
 Derivative:  
 (n.) \*p<sup>h</sup>al-a ‘flat of the hand, palm’

98. Proto-Nostratic (n.) *\*p<sup>h</sup>al-a* ‘flat of the hand, palm’  
 Derivative of:  
 (vb.) *\*p<sup>h</sup>al-* ‘to spread, to extend’;  
 (n.) *\*p<sup>h</sup>al-a* ‘that which is wide, flat, level, broad, open: expanse, open space or surface’; (adj.) ‘wide, flat, level, broad, open’
99. Proto-Nostratic root *\*p<sup>h</sup>al-* (~ *\*p<sup>h</sup>əl-*):  
 (vb.) *\*p<sup>h</sup>al-* ‘to fill’;  
 (n.) *\*p<sup>h</sup>al-a* ‘fullness’; (adj.) ‘much, many’
100. Proto-Nostratic (n.) *\*p<sup>h</sup>al-a* ‘settlement, settled place’
101. Proto-Nostratic (n.) *\*p<sup>h</sup>al-a* ‘thumb, big toe’
102. Proto-Nostratic root *\*p<sup>h</sup>al-* (~ *\*p<sup>h</sup>əl-*):  
 (vb.) *\*p<sup>h</sup>al-* ‘to cover, to hide, to conceal’;  
 (n.) *\*p<sup>h</sup>al-a* ‘covering’
103. Proto-Nostratic root *\*p<sup>h</sup>alv-* (~ *\*p<sup>h</sup>əlv-*):  
 (vb.) *\*p<sup>h</sup>alv-* ‘to burn, to be warm; to smart, to be painful’;  
 (n.) *\*p<sup>h</sup>alv-a* ‘burn, burning sensation, pain’
104. Proto-Nostratic root *\*p<sup>h</sup>ah-* (~ *\*p<sup>h</sup>əh-*):  
 (vb.) *\*p<sup>h</sup>ah-* ‘to take in hand, to take hold of, to handle’;  
 (n.) *\*p<sup>h</sup>ah-a* ‘hand, handle’  
 Extended form (Indo-European and Uralic):  
 (vb.) *\*p<sup>h</sup>ah-V-k<sup>wh</sup>-* ‘to take in hand, to take hold of, to handle’;  
 (n.) *\*p<sup>h</sup>ah-k<sup>wh</sup>-a* ‘hand, handle’
105. Proto-Nostratic (n.) *\*p<sup>h</sup>ah-a* ‘front part, head, forehead, face’
106. Proto-Nostratic root *\*p<sup>h</sup>ar-* (~ *\*p<sup>h</sup>ər-*):  
 (vb.) *\*p<sup>h</sup>ar-* ‘to be fond of, to care for, to feel affection for; to be pleased, happy, satisfied, or delighted with’;  
 (n.) *\*p<sup>h</sup>ar-a* ‘love, affection; delight, joy’
107. Proto-Nostratic root *\*p<sup>h</sup>ar-* (~ *\*p<sup>h</sup>ər-*):  
 (vb.) *\*p<sup>h</sup>ar-* ‘to separate, to divide, to break (apart)’;  
 (n.) *\*p<sup>h</sup>ar-a* ‘part, portion, share’
108. Proto-Nostratic root *\*p<sup>h</sup>ar-* (~ *\*p<sup>h</sup>ər-*):  
 (vb.) *\*p<sup>h</sup>ar-* ‘to spread, to scatter’;  
 (n.) *\*p<sup>h</sup>ar-a* ‘breadth, width, extension, space’; (adj.) ‘broad, extended, spread out, scattered’



109. Proto-Nostratic root \*p<sup>h</sup>ar- (~ \*p<sup>h</sup>ər-):  
 (vb.) \*p<sup>h</sup>ar- ‘to press forward, to precede, to hasten in advance, to overtake, to surpass, to outstrip’;  
 (n.) \*p<sup>h</sup>ar-a ‘leader, master, lord, hero’; (adj.) ‘chief, foremost, first’
110. Proto-Nostratic root \*p<sup>h</sup>ar- (~ \*p<sup>h</sup>ər-):  
 (vb.) \*p<sup>h</sup>ar- ‘to move swiftly, to hasten, to be in a hurry, to be greatly agitated; to flutter, to fly, to flee’;  
 (n.) \*p<sup>h</sup>ar-a ‘flying, flight, fleeing’  
 Note also:  
 (vb.) \*p<sup>h</sup>ir- ‘to move swiftly, to hasten, to be in a hurry, to be greatly agitated; to flutter, to fly, to flee’;  
 (n.) \*p<sup>h</sup>ir-a ‘flying, flight, fleeing’
111. Proto-Nostratic (n.) \*p<sup>h</sup>ar-a ‘running, rapid motion, speed’ > ‘equid: horse, wild ass, onager, mule, etc.’ in Afrasian and Dravidian  
 Derivative of:  
 (vb.) \*p<sup>h</sup>ar- ‘to move swiftly, to hasten, to be in a hurry, to be greatly agitated; to flutter, to fly, to flee’;  
 (n.) \*p<sup>h</sup>ar-a ‘flying, flight, fleeing’
112. Proto-Nostratic (n.) \*p<sup>h</sup>ar-a ‘calf, heifer’  
 Note also:  
 (n.) \*p<sup>h</sup>ur-a ‘calf, heifer’
113. Proto-Nostratic (n.) \*p<sup>h</sup>ar-a, (?) \*p<sup>h</sup>ur-a ‘house’
114. Proto-Nostratic root \*p<sup>h</sup>ar- (~ \*p<sup>h</sup>ər-):  
 (vb.) \*p<sup>h</sup>ar- ‘to go or pass; to go or pass over or across; to go forth or out’;  
 (n.) \*p<sup>h</sup>ar-a ‘going, passage, journey, crossing’
115. Proto-Nostratic root \*p<sup>h</sup>ar<sup>y</sup>- (~ \*p<sup>h</sup>ər<sup>y</sup>-):  
 (vb.) \*p<sup>h</sup>ar<sup>y</sup>- ‘to cover’;  
 (n.) \*p<sup>h</sup>ar<sup>y</sup>-a ‘covering’
116. Proto-Nostratic root \*p<sup>h</sup>ar<sup>y</sup>- (~ \*p<sup>h</sup>ər<sup>y</sup>-):  
 (vb.) \*p<sup>h</sup>ar<sup>y</sup>- ‘to ripen, to mature, to grow old, (hair) to turn gray’;  
 (n.) \*p<sup>h</sup>ar<sup>y</sup>-a ‘ripeness, maturity’; (adj.) ‘ripe, mature, gray’
117. Proto-Nostratic root \*p<sup>h</sup>as<sup>y</sup>- (~ \*p<sup>h</sup>əs<sup>y</sup>-):  
 (vb.) \*p<sup>h</sup>as<sup>y</sup>- ‘to breathe out, to blow; to fart’;  
 (n.) \*p<sup>h</sup>as<sup>y</sup>-a ‘a fart’

118. Proto-Nostratic root *\*p<sup>h</sup>as<sup>y</sup>-* (~ *\*p<sup>h</sup>ə<sup>s</sup>y-*):  
 (vb.) *\*p<sup>h</sup>as<sup>y</sup>-* ‘to split, to cleave, to break, to shatter’;  
 (n.) *\*p<sup>h</sup>as<sup>y</sup>-a* ‘split, break; part, share, portion’
119. Proto-Nostratic (n.) *\*p<sup>h</sup>as<sup>y</sup>-a* ‘sperm, semen; male genitals, penis; descendant, offspring’
120. Proto-Nostratic root *\*p<sup>h</sup>ath-* (~ *\*p<sup>h</sup>ə<sup>t</sup>h-*):  
 (vb.) *\*p<sup>h</sup>ath-* ‘to flutter, to quiver, to tremble, to palpitate, to move rapidly’;  
 (n.) *\*p<sup>h</sup>ath-a* ‘haste, hurry’
121. Proto-Nostratic root *\*p<sup>h</sup>ath-* (~ *\*p<sup>h</sup>ə<sup>t</sup>h-*):  
 (vb.) *\*p<sup>h</sup>ath-* ‘to open; to be wide, open, spacious, spread out; to stretch, to extend, to spread out’;  
 (n.) *\*p<sup>h</sup>ath-a* ‘opening, open space’; (adj.) ‘wide, open, spacious’
122. Proto-Nostratic root *\*p<sup>h</sup>at’-* (~ *\*p<sup>h</sup>ə<sup>t</sup>’-*):  
 (vb.) *\*p<sup>h</sup>at’-* ‘to hasten, to move quickly’;  
 (n.) *\*p<sup>h</sup>at’-a* ‘foot’
123. Proto-Nostratic (n.) *\*p<sup>h</sup>at’-a* ‘chaff, husk, (unripe or blighted) grain’
124. Proto-Nostratic root (Eurasian only) *\*p<sup>h</sup>ek<sup>wh</sup>-*:  
 (vb.) *\*p<sup>h</sup>ek<sup>wh</sup>-* ‘to warm, to heat’ (> ‘to cook, to bake’);  
 (n.) *\*p<sup>h</sup>ek<sup>wh</sup>-a* ‘warmth, heat’; (adj.) ‘warm, hot’ (> ‘cooked, baked’)
125. Proto-Nostratic root *\*p<sup>h</sup>el-*:  
 (vb.) *\*p<sup>h</sup>el-* ‘to tremble, to shake; to be frightened, fearful, afraid’;  
 (n.) *\*p<sup>h</sup>el-a* ‘fright, fear’
126. Proto-Nostratic root *\*p<sup>h</sup>id-* (~ *\*p<sup>h</sup>ed-*):  
 (vb.) *\*p<sup>h</sup>id-* ‘to seize, to hold, to clutch, to capture, to cling to’;  
 (n.) *\*p<sup>h</sup>id-a* ‘hold, grasp’
127. Proto-Nostratic (n.) *\*p<sup>h</sup>ily-a* ‘child, infant, youth, young of animals’
128. Proto-Nostratic root *\*p<sup>h</sup>iny-* (~ *\*p<sup>h</sup>eny-*):  
 (vb.) *\*p<sup>h</sup>iny-* ‘to watch (over), to protect, to nourish, to nurture’;  
 (n.) *\*p<sup>h</sup>iny-a* ‘protection, care; feeding, nourishing, nourishment’
129. Proto-Nostratic root *\*p<sup>h</sup>ir-* (~ *\*p<sup>h</sup>er-*):  
 (vb.) *\*p<sup>h</sup>ir-* ‘to bring forth, to bear fruit’;  
 (n.) *\*p<sup>h</sup>ir-a* ‘birth, issue, offspring, descendant, fruit’

130. Proto-Nostratic root \*p<sup>h</sup>ir- (~ \*p<sup>h</sup>er-):  
 (vb.) \*p<sup>h</sup>ir- ‘to move swiftly, to hasten, to be in a hurry, to be greatly agitated; to flutter, to fly, to flee’;  
 (n.) \*p<sup>h</sup>ir-a ‘flying, flight, fleeing’  
 Note also:  
 (vb.) \*p<sup>h</sup>ar- ‘to move swiftly, to hasten, to be in a hurry, to be greatly agitated; to flutter, to fly, to flee’;  
 (n.) \*p<sup>h</sup>ar-a ‘flying, flight, fleeing’
131. Proto-Nostratic root \*p<sup>h</sup>ir- (~ \*p<sup>h</sup>er-):  
 (vb.) \*p<sup>h</sup>ir- ‘to twist, to turn’;  
 (n.) \*p<sup>h</sup>ir-a ‘twist, twining, turn; twine, string, rope, cord’
132. Proto-Nostratic root \*p<sup>h</sup>ir- (~ \*p<sup>h</sup>er-):  
 (vb.) \*p<sup>h</sup>ir- ‘to tremble, to shake; to be afraid, to fear’;  
 (n.) \*p<sup>h</sup>ir-a ‘trembling, fear’
133. Proto-Nostratic root \*p<sup>h</sup>itʔ- (~ \*p<sup>h</sup>etʔ-):  
 (vb.) \*p<sup>h</sup>itʔ- ‘to give birth to’;  
 (n.) \*p<sup>h</sup>itʔ-a ‘genitals (male or female); birth, origin’
134. Proto-Nostratic root \*p<sup>h</sup>uʔ- (~ \*p<sup>h</sup>oʔ-):  
 (vb.) \*p<sup>h</sup>uʔ- ‘to swell, to fatten’;  
 (n.) \*p<sup>h</sup>uʔ-a ‘swelling, fullness, fat(ness)’
135. Proto-Nostratic root \*p<sup>h</sup>ul- (~ \*p<sup>h</sup>ol-): stem indicating downward motion:  
 (vb.) \*p<sup>h</sup>ul- ‘to fall, to fall down, to collapse, to ruin, etc.’;  
 (n.) \*p<sup>h</sup>ul-a ‘fall, collapse, ruin’; (n.) ‘fallen, ruined, weakened; low, base, vile, mean’
136. Proto-Nostratic root \*p<sup>h</sup>ulʔ- (~ \*p<sup>h</sup>olʔ-):  
 (vb.) \*p<sup>h</sup>ulʔ- ‘to swell’;  
 (n.) \*p<sup>h</sup>ulʔ-a ‘a swelling (on the skin): blister, abscess, pimple, etc.’  
 Derivative:  
 (n.) \*p<sup>h</sup>ulʔ-a ‘that which is fat, swollen, etc.’ (> ‘tallow, grease, fat, oil, blubber, etc.’ in the daughter languages)
137. Proto-Nostratic (n.) \*p<sup>h</sup>ulʔ-a ‘that which is fat, swollen, etc.’ (> ‘tallow, grease, fat, oil, blubber, etc.’ in the daughter languages)  
 Derivative of:  
 (vb.) \*p<sup>h</sup>ulʔ- ‘to swell’;  
 (n.) \*p<sup>h</sup>ulʔ-a ‘a swelling (on the skin): blister, abscess, pimple, etc.’

138. Proto-Nostratic (n.) *\*p<sup>h</sup>ur-a* ‘calf, heifer’

Note also:

(n.) *\*p<sup>h</sup>ar-a* ‘calf, heifer’

139. Proto-Nostratic root *\*p<sup>h</sup>uš-* (~ *\*p<sup>h</sup>oš-*):

(vb.) *\*p<sup>h</sup>uš-* ‘to breathe out, to sigh; to blow, to puff (up), to inflate’;

(n.) *\*p<sup>h</sup>uš-a* ‘puff, breath, snort; bulge’

CHAPTER 3

PROTO-NOSTRATIC \*p<sup>h</sup> (> PROTO-AFRASIAN \*f)

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
p <sup>h</sup> -	f-	p-	p-	p <sup>h</sup> -	p-	p <sup>h</sup> -	p-
-p <sup>h</sup> -	-f-	-pp-/-v-	-p-	-p <sup>h</sup> -	-p-	-p <sup>h</sup> -	-p(p)-

140. Proto-Nostratic root \*p<sup>h</sup>aḥ- (~ \*p<sup>h</sup>əḥ-):  
 (vb.) \*p<sup>h</sup>aḥ- ‘to warm, to heat, to burn’;  
 (n.) \*p<sup>h</sup>aḥ-a ‘fire, flame, spark’  
 Extended form:  
 (vb.) \*p<sup>h</sup>aḥ-V-w- ‘to warm, to heat, to burn’;  
 (n.) \*p<sup>h</sup>aḥ-w-a ‘fire, flame, spark’
141. Proto-Nostratic (n.) \*p<sup>h</sup>al-a ‘skin, hide’
142. Proto-Nostratic root \*p<sup>h</sup>id- (~ \*p<sup>h</sup>ed-):  
 (vb.) \*p<sup>h</sup>id- ‘to tear, to pluck, to pull; to tear off, to pluck off, to pull off; to tear out, to pluck out, to pull out’;  
 (n.) \*p<sup>h</sup>id-a ‘the act of pulling, tearing, plucking’
143. Proto-Nostratic root \*p<sup>h</sup>ilv- (~ \*p<sup>h</sup>elv-):  
 (vb.) \*p<sup>h</sup>ilv- ‘to split, to cleave’;  
 (n.) \*p<sup>h</sup>ilv-a ‘split, crack’
144. Proto-Nostratic root \*p<sup>h</sup>in- (~ \*p<sup>h</sup>en-):  
 (vb.) \*p<sup>h</sup>in- ‘to break’;  
 (n.) \*p<sup>h</sup>in-a ‘break’
145. Proto-Nostratic root \*p<sup>h</sup>ir- (~ \*p<sup>h</sup>er-):  
 (vb.) \*p<sup>h</sup>ir- ‘to ask, to request, to entreat, to beseech, to pray’;  
 (n.) \*p<sup>h</sup>ir-a ‘request, entreaty, prayer’
146. Proto-Nostratic root \*p<sup>h</sup>uth- (~ \*p<sup>h</sup>oth-):  
 (vb.) \*p<sup>h</sup>uth- ‘to vomit’;  
 (n.) \*p<sup>h</sup>uth-a ‘vomit’
147. Proto-Nostratic (n.) \*p<sup>h</sup>uth-a ‘hole, opening’

148. Proto-Nostratic root *\*p<sup>h</sup>uw-* (~ *\*p<sup>h</sup>ow-*):  
(vb.) *\*p<sup>h</sup>uw-* ‘to puff, to blow, to exhale; to puff up, to inflate’;  
(n.) *\*p<sup>h</sup>uw-a* ‘a puff, the act of blowing, breath’

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CHAPTER 4

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PROTO-NOSTRATIC \*p'

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
p'-	p'-	p-	p'-	p'-	p-	p-	p-
-p'-	-p'-	-pp-/-v-	-p'-	-p'-	-p-	-p-	-p-/ -pp-

149. Proto-Nostratic (n.) \*p'ap'-a 'old man, old woman'
150. Proto-Nostratic root \*p'ul- (~ \*p'ol-):  
 (vb.) \*p'ul- 'to swell';  
 (n.) \*p'ul-a 'swelling, hump, lump, bulge'; (adj.) 'swollen, round, bulbous'
151. Proto-Nostratic root \*p'ulʷ- (~ \*p'olʷ-):  
 (vb.) \*p'ulʷ- 'to blow about; to give off smoke, vapor, steam';  
 (n.) \*p'ulʷ-a 'mist, fog, haze; smoke, steam; cloud'
152. Proto-Nostratic root \*p'ut'- (~ \*p'ot'-):  
 (vb.) \*p'ut'- 'to cut, tear, break, or pull off or apart';  
 (n.) \*p'ut'-a 'cut-off, pulled-off, torn-off, or broken-off piece or part'





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CHAPTER 5

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PROTO-NOSTRATIC \*d

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
d-	d-	t-	d-	d <sup>h</sup> -	t-	d-	t-
-d-	-d-	-t(t)-	-d-	-d <sup>h</sup> -	-t-	-d-	-ð-

153. Proto-Nostratic relational marker *\*da-* (~ *\*də-*) ‘along with, together with, in addition to’
154. Proto-Nostratic (n.) *\*da-* ‘mother, sister’; (reduplicated) (n.) *\*da-da-* ‘mother, sister’ (nursery words)
155. Proto-Nostratic root *\*dab-* (~ *\*dab-*):  
 (vb.) *\*dab-* ‘to make fast, to join together, to fit together, to fasten (together)’;  
 (n.) *\*dab-a* ‘joining, fitting, fastening’
156. Proto-Nostratic root *\*dag-* (~ *\*dag-*):  
 (vb.) *\*dag-* ‘to put, to place, to put in place; to be put in place, to be stable, to be firmly established’;  
 (n.) *\*dag-a* ‘place’
157. Proto-Nostratic root *\*dag-* (~ *\*dag-*):  
 (vb.) *\*dag-* ‘to glitter, to shine, to burn’;  
 (n.) *\*dag-a* ‘day’
158. Proto-Nostratic root *\*dal-* (~ *\*dal-*):  
 (vb.) *\*dal-* ‘to cut, to prick, to pierce, to gash, to notch, to gouge, to wound’;  
 (n.) *\*dal-a* ‘gash, notch, strike, split’
159. Proto-Nostratic root *\*dal-* (~ *\*dal-*):  
 (vb.) *\*dal-* ‘to stir up, to disturb, to roil (water), to agitate; to be disturbed, confused, agitated, troubled’;  
 (n.) *\*dal-a* ‘disturbance, agitation’  
 Note also:  
 (vb.) *\*dul-* ‘to disturb, to perplex, to bewilder, to confuse, to ruffle, to upset, to baffle, to stir up trouble, to agitate; to be disturbed, perplexed, bewildered, confused, ruffled, upset, baffled, troubled, agitated’ (> ‘to drive someone crazy, mad, insane; to be crazy, mad, insane; to be dumb, stupid’);  
 (n.) *\*dul-a* ‘confusion, disturbance, trouble, agitation, perplexity’ (> ‘madness, craziness, insanity; stupidity’)

160. Proto-Nostratic root *\*dalʷ-* (~ *\*dəlʷ-*):  
 (vb.) *\*dalʷ-* ‘to oppress, to harass, to weaken, to tire’;  
 (n.) *\*dalʷ-a* ‘tiredness, weakness, exhaustion, weariness’; (adj.) ‘oppressed, tired, weary, weak, exhausted’
161. Proto-Nostratic (n.) *\*daq<sup>h</sup>-a* ‘male of certain animals: billy-goat, ram’
162. Proto-Nostratic root *\*dar-* (~ *\*dər-*):  
 (vb.) *\*dar-* ‘to bend, to twist, to turn; to twist, wrap, or join together’;  
 (n.) *\*dar-a* ‘bend, turn, curve; that which bends, turns, winds, or twists: winding course or way’; (adj.) ‘bent, curved, crooked; wrapped, twisted, turned, or joined together’
163. Proto-Nostratic root *\*dar-* (~ *\*dər-*):  
 (vb.) *\*dar-* ‘to pound, to break; to harm, to injure, to torment’;  
 (n.) *\*dar-a* ‘harm, injury’; (adj.) ‘harmful, malevolent’ (> ‘bad’ in Kartvelian and, within Indo-European, in Celtic)
164. Proto-Nostratic root *\*dar-* (~ *\*dər-*):  
 (vb.) *\*dar-* ‘to be or become dark’;  
 (n.) *\*dar-a* ‘dark spot, darkness’; (adj.) ‘dark, black’
165. Proto-Nostratic root *\*darʷ-* (~ *\*dərʷ-*):  
 (vb.) *\*darʷ-* ‘to swell, to enlarge’;  
 (n.) *\*darʷ-a* ‘swelling, inflammation, blister, blotch, blemish; outgrowth, tumor’
166. Proto-Nostratic root (?) *\*daw-* (~ *\*dəw-*):  
 (vb.) *\*daw-* ‘to sound, to resound, to make a noise’;  
 (n.) *\*daw-a* ‘sound, noise’
167. Proto-Nostratic root *\*daw-* (~ *\*dəw-*):  
 (vb.) *\*daw-* ‘to put, to place, to set; to set up, to establish; to do, to make’;  
 (n.) *\*daw-a* ‘work, labor; deed, act’
168. Proto-Nostratic root *\*daw-* (~ *\*dəw-*):  
 (vb.) *\*daw-* ‘to become deathly sick, to be ill; to die’;  
 (n.) *\*daw-a* ‘(deadly) disease, sickness; death’
169. Proto-Nostratic root *\*day-* (~ *\*dəy-*):  
 (vb.) *\*day-* ‘to throw, to cast, to put, to place’;  
 (n.) *\*day-a* ‘act, deed’

170. Proto-Nostratic root *\*day-* (~ *\*dɔy-*):  
 (vb.) *\*day-* ‘to look at, to consider, to examine’;  
 (n.) *\*day-a* ‘judgment, examination, consideration’
171. Proto-Nostratic root *\*day-* (~ *\*dɔy-*):  
 (vb.) *\*day-* ‘to take, to bring, to convey’;  
 (n.) *\*day-a* ‘leader, guide’
172. Proto-Nostratic root *\*did-* (~ *\*ded-*):  
 (vb.) *\*did-* ‘to swell, to rise’;  
 (n.) *\*did-a* ‘prominence, protuberance’; (adj.) ‘swollen, raised’
173. Proto-Nostratic (n.) *\*dig-a* ‘fish’
174. Proto-Nostratic root *\*dig-* (~ *\*deg-*):  
 (vb.) *\*dig-* ‘to be confused, puzzled, perplexed’;  
 (n.) *\*dig-a* ‘confusion, perplexity’
175. Proto-Nostratic root *\*dilv-* (~ *\*delv-*):  
 (vb.) *\*dilv-* ‘to shine, to be or become bright’;  
 (n.) *\*dilv-a* ‘daylight, morning’
176. Proto-Nostratic (n.) *\*dim-a* ‘raised or elevated place’; (adj.) ‘raised, elevated’
177. Proto-Nostratic root *\*diq<sup>h</sup>-* (~ *\*deq<sup>h</sup>-*):  
 (vb.) *\*diq<sup>h</sup>-* ‘to crush, to pound or tamp (earth), to mold or knead (clay)’;  
 (n.) *\*diq<sup>h</sup>-a* ‘earth, clay, mud’
178. Proto-Nostratic root *\*diy-* (~ *\*dey-*):  
 (vb.) *\*diy-* ‘to suck, to suckle’;  
 (n.) *\*diy-a* ‘breast, teat, nipple’
179. Proto-Nostratic root *\*dow-*, *\*doy-*:  
 (vb.) *\*dow-*, *\*doy-* ‘to slacken, to slow down; to grow weary, weak, faint’;  
 (n.) *\*dow-a*, *\*doy-a* ‘slackness, slowness, laxity, weariness, fatigue’; (adj.)  
 ‘slow, slack, lax, weary’
180. Proto-Nostratic (n.) *\*dub-a* ‘back, hind part’
181. Proto-Nostratic (n.) *\*dud-a* ‘tip, point’
182. Proto-Nostratic root *\*dul-* (~ *\*dol-*):  
 (vb.) *\*dul-* ‘to burn, to be bright, to warm, to heat up’;  
 (n.) *\*dul-a* ‘heat, warmth, fire’

183. Proto-Nostratic root *\*dul-* (~ *\*dol-*):  
 (vb.) *\*dul-* ‘to disturb, to perplex, to bewilder, to confuse, to ruffle, to upset, to baffle, to stir up trouble, to agitate; to be disturbed, perplexed, bewildered, confused, ruffled, upset, baffled, troubled, agitated’ (> ‘to drive someone crazy, mad, insane; to be crazy, mad, insane; to be dumb, stupid’);  
 (n.) *\*dul-a* ‘confusion, disturbance, trouble, agitation, perplexity’ (> ‘madness, craziness, insanity; stupidity’)  
 Note also:  
 (vb.) *\*dal-* ‘to stir up, to disturb, to roil (water), to agitate; to be disturbed, confused, agitated, troubled’;  
 (n.) *\*dal-a* ‘disturbance, agitation’
184. Proto-Nostratic root *\*dul<sup>y</sup>-* (~ *\*dol<sup>y</sup>-*):  
 (vb.) *\*dul<sup>y</sup>-* ‘to dangle, to hang, to swing back and forth’;  
 (n.) *\*dul<sup>y</sup>-* ‘hanging, swinging; shaking, agitation, disturbance’
185. Proto-Nostratic root *\*dum-* (~ *\*dom-*):  
 (vb.) *\*dum-* ‘to cut (off), to sever’;  
 (n.) *\*dum-a* ‘cut, severance; piece cut off, bit, fragment’
186. Proto-Nostratic root *\*dum-* (~ *\*dom-*):  
 (vb.) *\*dum-* ‘to be silent’;  
 (n.) *\*dum-a* ‘silence’
187. Proto-Nostratic root *\*dum-* (~ *\*dom-*):  
 (vb.) *\*dum-* ‘to cover over, to obscure; to cloud over; to become dark, to make dark, to darken’;  
 (n.) *\*dum-a* ‘darkness, cloud, fog’; (adj.) ‘dark, cloudy’  
 Derivative:  
 (n.) (*\*dum-k<sup>w</sup>-a* >) *\*dum-k<sup>w</sup>-a* ‘darkness, cloud’; (adj.) ‘dark, cloudy’
188. Proto-Nostratic (n.) (*\*dum-k<sup>w</sup>-a* >) *\*dum-k<sup>w</sup>-a* ‘darkness, cloud’; (adj.) ‘dark, cloudy’:  
 Derivative of:  
 (vb.) *\*dum-* ‘to cover over, to obscure; to cloud over; to become dark, to make dark, to darken’;  
 (n.) *\*dum-a* ‘darkness, cloud, fog’; (adj.) ‘dark, cloudy’
189. Proto-Nostratic root *\*dun-* (~ *\*don-*):  
 (vb.) *\*dun-* ‘to run, to flow (out), to leak’;  
 (n.) *\*dun-a* ‘flow, spill, leak’
190. Proto-Nostratic root *\*dun<sup>y</sup>-* (~ *\*don<sup>y</sup>-*):  
 (vb.) *\*dun<sup>y</sup>-* ‘to cut off, to cleave, to split’;  
 (n.) *\*dun<sup>y</sup>-a* ‘part, share; piece cut off, bit, fragment’

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191. Proto-Nostratic root *\*dur-* (~ *\*dor-*):  
(vb.) *\*dur-* ‘to bore, to drill, to make a hole’;  
(n.) *\*dur-a* ‘hole, opening’
192. Proto-Nostratic (n.) *\*dur-a* ‘goat, sheep, ram’ (perhaps originally ‘horned animal’)
193. Proto-Nostratic root *\*duw-* (~ *\*dow-*):  
(vb.) *\*duw-* ‘to blow about, to fly about, to scatter; to be blown, strewn, or scattered about’;  
(n.) *\*duw-a* ‘anything blown, sprinkled, scattered, or strewn about: smoke, steam, vapor; rain, shower, drizzle, raindrops; dust’; (adj.) ‘blown about, sprinkled, scattered, strewn’



CHAPTER 6

PROTO-NOSTRATIC \*t<sup>h</sup>

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
t <sup>h</sup> -	t-	t-	t-	t <sup>h</sup> -	t-	t <sup>h</sup> -	t-
-t <sup>h</sup> -	-t-	-t(t)-	-t-	-t <sup>h</sup> -	-t(t)-	-t <sup>h</sup> -	-t(t)-

194. Proto-Nostratic demonstrative stems:

Proximate: \*t<sup>h</sup>a- (~ \*t<sup>h</sup>ə-) ‘this’;

Intermediate: \*t<sup>h</sup>i- (~ \*t<sup>h</sup>e-) ‘that’;

Distant: \*t<sup>h</sup>u- (~ \*t<sup>h</sup>o-) ‘that yonder’

195. Proto-Nostratic root \*t<sup>h</sup>aħ- (~ \*t<sup>h</sup>əħ-):

(vb.) \*t<sup>h</sup>aħ- ‘to reduce, to diminish, to wear away, to lessen; to waste away, to grow thin’;

(n.) \*t<sup>h</sup>aħ-a ‘wear, decay, dissipation, maceration’

196. Proto-Nostratic root \*t<sup>h</sup>ak<sup>h</sup>- (~ \*t<sup>h</sup>ək<sup>h</sup>-):

(vb.) \*t<sup>h</sup>ak<sup>h</sup>- ‘to twist, to bend; to fasten, twist, bend, join, or hook together; to be twisted, bent’;

(n.) \*t<sup>h</sup>ak<sup>h</sup>-a ‘hook, peg’

197. Proto-Nostratic root \*t<sup>h</sup>ak’- (~ \*t<sup>h</sup>ək’-):

(vb.) \*t<sup>h</sup>ak’- ‘to touch, to push, to strike’;

(n.) \*t<sup>h</sup>ak’-a ‘touch, stroke’

198. Proto-Nostratic (n.) \*t<sup>h</sup>al-a ‘head, top, end’

199. Proto-Nostratic root \*t<sup>h</sup>alv- (~ \*t<sup>h</sup>əlv-):

(vb.) \*t<sup>h</sup>alv- (primary meaning) ‘to stretch, to spread, to extend’, (secondary meaning) ‘to endure, to suffer, to bear’;

(n.) \*t<sup>h</sup>alv-a ‘stretch, spread, thinness, breadth; pain, suffering, endurance’;  
(adj.) ‘stretched, spread out, extended’ (> ‘broad, wide, thin, flat, etc.’)

200. Proto-Nostratic root \*t<sup>h</sup>alv- (~ \*t<sup>h</sup>əlv-):

(vb.) \*t<sup>h</sup>alv- ‘to press, to thrust, to force, to push’;

(n.) \*t<sup>h</sup>alv-a ‘pressure, thrust, force, push’

201. Proto-Nostratic root *\*th<sup>h</sup>an<sup>y</sup>-* (~ *\*th<sup>h</sup>ən<sup>y</sup>-*):  
 (vb.) *\*th<sup>h</sup>an<sup>y</sup>-* ‘to extend, to spread, to stretch; to endure, to be long-lasting’;  
 (n.) *\*th<sup>h</sup>an<sup>y</sup>-a* ‘extension, width, length, breadth’; (adj.) ‘stretched, extended, wide, broad, long-lasting’  
 Derivative:  
 (vb.) *\*th<sup>h</sup>an<sup>y</sup>-* ‘to grow weary, exhausted, tired, old’;  
 (n.) *\*th<sup>h</sup>an<sup>y</sup>-a* ‘exhaustion, weariness, fatigue, old age’; (adj.) ‘tired, weary, exhausted, old’
202. Proto-Nostratic root *\*th<sup>h</sup>an<sup>y</sup>-* (~ *\*th<sup>h</sup>ən<sup>y</sup>-*):  
 (vb.) *\*th<sup>h</sup>an<sup>y</sup>-* ‘to grow weary, exhausted, tired, old’;  
 (n.) *\*th<sup>h</sup>an<sup>y</sup>-a* ‘exhaustion, weariness, fatigue, old age’; (adj.) ‘tired, weary, exhausted, old’  
 Derivative of:  
 (vb.) *\*th<sup>h</sup>an<sup>y</sup>-* ‘to extend, to spread, to stretch; to endure, to be long-lasting’;  
 (n.) *\*th<sup>h</sup>an<sup>y</sup>-a* ‘extension, width, length, breadth’; (adj.) ‘stretched, extended, wide, broad, long-lasting’
203. Proto-Nostratic root *\*th<sup>h</sup>ap<sup>h</sup>-* (~ *\*th<sup>h</sup>əp<sup>h</sup>-*):  
 (vb.) *\*th<sup>h</sup>ap<sup>h</sup>-* ‘to strike, to knock, to hit, to beat, to pound; to trample’;  
 (n.) *\*th<sup>h</sup>ap<sup>h</sup>-a* ‘stroke, slap, blow, hit’  
 Note also:  
 (vb.) *\*t<sup>h</sup>ap<sup>h</sup>-* ‘to strike, to beat, to pound’;  
 (n.) *\*t<sup>h</sup>ap<sup>h</sup>-a* ‘stroke, blow’
204. Proto-Nostratic root *\*th<sup>h</sup>ar-* (~ *\*th<sup>h</sup>ər-*):  
 (vb.) *\*th<sup>h</sup>ar-* ‘to draw, to drag, to pull’;  
 (n.) *\*th<sup>h</sup>ar-a* ‘drag, pull; something dragged or pulled along’  
 Possible derivative:  
 (vb.) *\*th<sup>h</sup>ar-* ‘to spread, to spread out or about, to expand, to extend; to stretch, to stretch out; to scatter, to strew’;  
 (n.) *\*th<sup>h</sup>ar-a* ‘stretch, spread, expanse’; (adj.) ‘stretched, tight, taut; spread, scattered, dispersed’
205. Proto-Nostratic root *\*th<sup>h</sup>ar-* (~ *\*th<sup>h</sup>ər-*):  
 (vb.) *\*th<sup>h</sup>ar-* ‘to spread, to spread out or about, to expand, to extend; to stretch, to stretch out; to scatter, to strew’;  
 (n.) *\*th<sup>h</sup>ar-a* ‘stretch, spread, expanse’; (adj.) ‘stretched, tight, taut; spread, scattered, dispersed’  
 Perhaps derived from:  
 (vb.) *\*th<sup>h</sup>ar-* ‘to draw, to drag, to pull’, in the sense ‘to stretch by pulling’;  
 (n.) *\*th<sup>h</sup>ar-a* ‘drag, pull; something dragged or pulled along’



206. Proto-Nostratic root \*tʰar- (~ \*tʰar-):  
 (vb.) \*tʰar- ‘to tear, to break, to split, to pierce’;  
 (n.) \*tʰar-a ‘cut, tear, split, incision; wound, injury; spear’
207. Proto-Nostratic root \*tʰar- (~ \*tʰar-):  
 (vb.) \*tʰar- ‘to rub, to wear down’;  
 (n.) \*tʰar-a ‘wear’; (adj.) ‘worn out, rubbed, abraded’  
 Possible Derivatives:  
 (vb.) \*tʰar- ‘to wither, to wane, to dry up’;  
 (n.) \*tʰar-a ‘dryness’; (adj.) ‘withered, dry, dried up, arid’  
 (vb.) \*tʰar- ‘to scratch, to scrape, to plane’;  
 (n.) \*tʰar-a ‘scratching, scraping, raking; rake, comb’
208. Proto-Nostratic root \*tʰar- (~ \*tʰar-):  
 (vb.) \*tʰar- ‘to wither, to wane, to dry up’;  
 (n.) \*tʰar-a ‘dryness’; (adj.) ‘withered, dry, dried up, arid’  
 Perhaps derived from:  
 (vb.) \*tʰar- ‘to rub, to wear down’;  
 (n.) \*tʰar-a ‘wear’; (adj.) ‘worn out, rubbed, abraded’
209. Proto-Nostratic root \*tʰar- (~ \*tʰar-):  
 (vb.) \*tʰar- ‘to scratch, to scrape, to plane’;  
 (n.) \*tʰar-a ‘scratching, scraping, raking; rake, comb’  
 Perhaps derived from:  
 (vb.) \*tʰar- ‘to rub, to wear down’;  
 (n.) \*tʰar-a ‘wear’; (adj.) ‘worn out, rubbed, abraded’
210. Proto-Nostratic root \*tʰar- (~ \*tʰar-):  
 (vb.) \*tʰar- ‘to drink’;  
 (n.) \*tʰar-a ‘a drink; the act of drinking’; (adj.) ‘drunk, tipsy, intoxicated’
211. Proto-Nostratic root \*tʰar- (~ \*tʰar-):  
 (vb.) \*tʰar- ‘to tremble, to shake’;  
 (n.) \*tʰar-a ‘trembling, shaking (from fear, fright)’
212. Proto-Nostratic root \*tʰaw- (~ \*tʰaw-):  
 (vb.) \*tʰaw- ‘to swell’;  
 (n.) \*tʰaw-a ‘swelling, protuberance, bulge, lump, hump’; (adj.) ‘swollen, full, fat’
213. Proto-Nostratic \*tʰekh-:  
 (vb.) \*tʰekh- ‘to take (away), to grasp, to seize, to remove’;  
 (n.) \*tʰekh-a ‘the act of taking, grasping, seizing, removing’

214. Proto-Nostratic root (Eurasianic only) *\*thep<sup>h</sup>-*:  
 (vb.) *\*thep<sup>h</sup>-* ‘to warm, to burn’;  
 (n.) *\*thep<sup>h</sup>-a* ‘heat, warmth’  
 Note also:  
 (vb.) *\*t’ab-* ‘to be or become warm; to make warm, to heat up; to cook’;  
 (n.) *\*t’ab-a* ‘heat, warmth’; (adj.) ‘hot, warm; cooked, baked’
215. Proto-Nostratic second person pronoun stem: *\*thi-* (~ *\*the-*) ‘you’; (oblique form) *\*tha-* (~ *\*thə-*)
216. Proto-Nostratic root *\*thikh-* (~ *\*thek<sup>h</sup>-*):  
 (vb.) *\*thikh-* ‘to form, to fashion, to make, to create’;  
 (n.) *\*thikh-a* ‘tool used to form, fashion, make, or create something: axe, adze, chisel, etc.; the act of forming, fashioning, making, or creating something: action, deed, etc.’
217. Proto-Nostratic root *\*thik’-* (~ *\*thek’-*):  
 (vb.) *\*thik’-* ‘to press or squeeze together’;  
 (n.) *\*thik’-a* ‘pressure, solidity, hardness, massiveness, firmness’; (adj.) ‘compact, thick, massive, solid, firm’
218. Proto-Nostratic root *\*thir-* (~ *\*ther-*):  
 (vb.) *\*thir-* ‘to have enough or more than enough, to have all needs fulfilled, to be satisfied, to have plenty’;  
 (n.) *\*thir-a* ‘abundance, fullness’; (adj.) ‘enough, abundant, full’  
 Extended form:  
 (vb.) *\*thir-V-ph-* ‘to have enough, to have all needs fulfilled, to be satisfied, to have plenty’;  
 (n.) *\*thir-ph-a* ‘abundance, excess, surplus, plenty’
219. Proto-Nostratic root *\*thir-* (~ *\*ther-*):  
 Extended form:  
 (vb.) *\*thir-V-ph-* ‘to have enough, to have all needs fulfilled, to be satisfied, to have plenty’;  
 (n.) *\*thir-ph-a* ‘abundance, excess, surplus, plenty’  
 Derivative of:  
 (vb.) *\*thir-* ‘to have enough or more than enough, to have all needs fulfilled, to be satisfied, to have plenty’;  
 (n.) *\*thir-a* ‘abundance, fullness’; (adj.) ‘enough, abundant, full’
220. Proto-Nostratic (n.) *\*thor<sup>v</sup>-a* ‘dust, soil, earth’

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221. Proto-Nostratic root \*tʰow-:  
(vb.) \*tʰow- ‘to snow’;  
(n.) \*tʰow-a ‘snow-storm; snow, (hoar)frost’
222. Proto-Nostratic root \*tʰukʰ- (~ \*tʰokʰ-):  
(vb.) \*tʰukʰ- ‘to burn, to blaze’;  
(n.) \*tʰukʰ-a ‘ash(es), soot’
223. Proto-Nostratic root \*tʰul- (~ \*tʰol-):  
(vb.) \*tʰul- ‘to lift, to raise; to pile up, to stack (in a heap)’;  
(n.) \*tʰul-a ‘hill, mound; stack, heap’
224. Proto-Nostratic root \*tʰum- (~ \*tʰom-):  
(vb.) \*tʰum- ‘to cover over, to hide; to become dark’;  
(n.) \*tʰum-a ‘darkness’; (adj.) ‘dark’
225. Proto-Nostratic root \*tʰupʰ-:  
(vb.) \*tʰupʰ- ‘to spit’;  
(n.) \*tʰupʰ-a ‘spittle, saliva’
226. Proto-Nostratic root \*tʰur- (~ \*tʰor-):  
(vb.) \*tʰur- ‘to cram, to push in, to stuff, to thrust in, to press in’;  
(n.) \*tʰur-a ‘pressure, force, thrust’



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CHAPTER 7

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PROTO-NOSTRATIC \*t'

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
t'-	t'-	t-	t'-	t'-	t-	t-	t-
-t'-	-t'-	-t(t)-	-t'-	-t'-	-t-	-t-	-t-

227. Proto-Nostratic root \*t'ab- (~ \*t'əb-):  
 (vb.) \*t'ab- 'to be or become warm; to make warm, to heat up; to cook';  
 (n.) \*t'ab-a 'heat, warmth'; (adj.) 'hot, warm; cooked, baked'  
 Note also:  
 (vb.) \*t<sup>h</sup>ep<sup>h</sup>- 'to warm, to burn';  
 (n.) \*t<sup>h</sup>ep<sup>h</sup>-a 'heat, warmth'
228. Proto-Nostratic root \*t'ad- (\*t'əd-):  
 (vb.) \*t'ad- 'to hinder, to stop, to obstruct';  
 (n.) \*t'ad-a 'hindrance, obstacle, impediment, obstruction'
229. Proto-Nostratic root \*t'añ- (~ \*t'əñ-):  
 (vb.) \*t'añ- 'to break, to split; to crush, to grind, to pound';  
 (n.) \*t'añ-a 'break, split, division; anything ground or pulverized'
230. Proto-Nostratic root \*t'ak<sup>h</sup>- (~ \*t'ək<sup>h</sup>-):  
 (vb.) \*t'ak<sup>h</sup>- 'to be fit, appropriate, suitable, proper';  
 (n.) \*t'ak<sup>h</sup>-a 'fitness, appropriateness, suitability, propriety'; (adj.) 'fit, appropriate, suitable, proper'
231. Proto-Nostratic root \*t'al- (~ \*t'əl-):  
 (vb.) \*t'al- 'to lick';  
 (n.) \*t'al-a 'licking'
232. Proto-Nostratic root \*t'al- (~ \*t'əl-):  
 (vb.) \*t'al- 'to plunge, sink, dive, dip, or fall into; to immerse';  
 (n.) \*t'al-a 'immersion; depth'
233. Proto-Nostratic root \*t'al- (~ \*t'əl-):  
 (vb.) \*t'al- 'to stretch out, to extend';  
 (n.) \*t'al-a 'length; height'; (adj.) 'long, tall; high'

234. Proto-Nostratic root *\*t'alʷ-*:  
 (vb.) *\*t'alʷ-* 'to drip, to fall in drops, to sprinkle, to wet, to moisten';  
 (n.) *\*t'alʷ-a* 'dew, (rain) drop, drizzle'
235. Proto-Nostratic root *\*t'am-*:  
 (vb.) *\*t'am-* 'to make or construct (something) in a skillful manner' (> 'to build');  
 (n.) *\*t'am-a* 'the act of making or constructing (something) in a skillful manner' (> 'craft, skill'); 'that which is made or constructed in a skillful manner' (> 'building, structure'); 'one who makes or constructs (something) in a skillful manner' (> 'craftsman, carpenter')
236. Proto-Nostratic root *\*t'an-* (~ *\*t'an-*):  
 (vb.) *\*t'an-* 'to fill, to stuff, to pack or load tightly together';  
 (n.) *\*t'an-a* 'closeness, thickness, density; load, burden'; (adj.) 'tightly packed or pressed together; close, thick, dense'
237. Proto-Nostratic root *\*t'an-* (~ *\*t'an-*):  
 (vb.) *\*t'an-* 'to tie, to bind, to plait, to weave';  
 (n.) *\*t'an-a* 'anything woven or plaited'
238. Proto-Nostratic root *\*t'aph-* (~ *\*t'aph-*):  
 (vb.) *\*t'aph-* 'to strike, to beat, to pound';  
 (n.) *\*t'aph-a* 'stroke, blow'  
 Note also:  
 (vb.) *\*t'aph-* 'to strike, to knock, to hit, to beat, to pound; to trample';  
 (n.) *\*t'aph-a* 'stroke, slap, blow, hit'
239. Proto-Nostratic root *\*t'aq'-* (~ *\*t'aq'-*):  
 (vb.) *\*t'aq'-* 'to cover, to protect';  
 (n.) *\*t'aq'-a* 'covering'
240. Proto-Nostratic root *\*t'ar-* (~ *\*t'ar-*):  
 (vb.) *\*t'ar-* 'to tear, to rend, to cut, to sever';  
 (n.) *\*t'ar-a* 'rip, tear, cut, slice'  
 Extended form:  
 (vb.) *\*t'ar-V-ph-* 'to tear, to rend, to pluck';  
 (n.) *\*t'ar-ph-a* 'tearing, rending, plucking'
241. Proto-Nostratic root *\*t'ar-* (~ *\*t'ar-*):  
 Extended form:  
 (vb.) *\*t'ar-V-ph-* 'to tear, to rend, to pluck';  
 (n.) *\*t'ar-ph-a* 'tearing, rending, plucking'

Derivative of:

(vb.) \*t'ar- 'to tear, to rend, to cut, to sever';

(n.) \*t'ar-a 'rip, tear, cut, slice'

242. Proto-Nostratic root \*t'aw- (~ \*t'əw-):

(vb.) \*t'aw- 'to go, to leave, to go away; to let go';

(n.) \*t'aw-a 'distance, remoteness'; (adj.) 'far away, remote, at a distance'

243. Proto-Nostratic root \*t'aw- (~ \*t'əw-):

(vb.) \*t'aw- 'to hit, to strike';

(n.) \*t'aw-a 'stroke, blow, injury, harm, damage'

244. Proto-Nostratic (Eurasian only) (n.) \*t'ay-a '(elder) male in-law, (elder) male relative'

245. Proto-Nostratic root \*t'ay- (~ \*t'əy-) or \*t'iy- (~ \*t'ey-):

(vb.) \*t'ay- or \*t'iy- 'to shine, to gleam, to be bright, to glitter, to glow; to burn brightly';

(n.) \*t'ay-a or \*t'iy-a 'light, brightness, heat'

246. Proto-Nostratic root \*t'eʔ-:

(vb.) \*t'eʔ- 'to say, to speak';

(n.) \*t'eʔ-a 'sound, speech'

247. Proto-Nostratic root \*t'el-:

(vb.) \*t'el- 'to ask for, to request, to beg, to beseech';

(n.) \*t'el-a 'request, wish, desire'

248. Proto-Nostratic (n.) \*t'id-a 'elevated ground, hill, mountain':

249. Proto-Nostratic root \*t'il- (~ \*t'el-):

(vb.) \*t'il- 'to say, to tell; to recount, to list, to enumerate';

(n.) \*t'il-a 'talk, speech, discourse, tale'

Derivative:

(n.) \*t'il-a 'tongue, language'

250. Proto-Nostratic (n.) \*t'il-a 'tongue, language':

Derivative of:

(vb.) \*t'il- 'to say, to tell; to recount, to list, to enumerate';

(n.) \*t'il-a 'talk, speech, discourse, tale'

251. Proto-Nostratic (n.) \*t'orʷ-a 'tree, the parts of a tree' (> 'leaf, branch, bark, etc.')

252. Proto-Nostratic root (Eurasianic only) *\*t'ox<sup>w</sup>-*:  
 (vb.) *\*t'ox<sup>w</sup>-* 'to give, to bring';  
 (n.) *\*t'ox<sup>w</sup>-a* 'giving, gift, present'
253. Proto-Nostratic root *\*t'u<sup>ɔ</sup><sup>w</sup>-* (~ *\*t'o<sup>ɔ</sup><sup>w</sup>-*):  
 (vb.) *\*t'u<sup>ɔ</sup><sup>w</sup>-* 'to separate, divide, or split into two parts; to cut in half';  
 (n.) *\*t'u<sup>ɔ</sup><sup>w</sup>-a* 'separation or division into two; two halves'
- Note: used as the base for the numeral 'two' in Indo-European and Altaic.
254. Proto-Nostratic root *\*t'uk'-* (~ *\*t'ok'-*):  
 (vb.) *\*t'uk'-* 'to knock, to beat, to strike, to pound, to trample';  
 (n.) *\*t'uk'-a* 'knock, thump, blow, stroke'
255. Proto-Nostratic (Eurasianic only) (n.) *\*t'ul<sup>v</sup>-a* 'wedge, peg'
256. Proto-Nostratic root *\*t'um-* (~ *\*t'om-*):  
 (vb.) *\*t'um-* 'to quiet, to calm, to pacify, to tame';  
 (n.) *\*t'um-a* 'quietness, calmness, peace, tranquility'; (adj.) 'quiet, calm, tame, peaceful'
257. Proto-Nostratic root *\*t'uq<sup>'w</sup>-* (~ *\*t'oq<sup>'w</sup>-*):  
 (vb.) *\*t'uq<sup>'w</sup>-* 'to be dark, cloudy, dusty, dirty, sooty, smoky';  
 (n.) *\*t'uq<sup>'w</sup>-a* 'darkness, (dark) cloud, dust, dirt, soot, smoke'



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CHAPTER 8

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PROTO-NOSTRATIC \*dʷ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
dʷ-	dʷ-	c-	čg-	dʰ-	tʷ-	č-	c-
-dʷ-	-dʷ-	-c(c)-/ -y-	-čg-	-dʰ-	-tʷ-	-č-/ -d-	-c-

258. Proto-Nostratic root \*dʷab- (~ \*dʷəb-):  
 (vb.) \*dʷab- ‘to beat, to hit, to strike, to harm, to injure’;  
 (n.) \*dʷab-a ‘stroke, blow, harm, injury; slaughter, killing’
259. Proto-Nostratic root \*dʷakʷh- (~ \*dʷəkʷh-):  
 (vb.) \*dʷakʷh- ‘to blaze, to be bright’;  
 (n.) \*dʷakʷh-a ‘(burning) embers, fire, flame’
260. Proto-Nostratic (n.) \*dʷan-a ‘sound; hearing; organ of hearing, ear’:  
  
 Comment: A Proto-Nostratic verb stem seems to be implied here: \*dʷan- ‘to listen, to hear’, though this is nowhere attested. The verb forms found in the Semitic daughter languages are all denominative.
261. Proto-Nostratic (n.) \*dʷan-w-a ‘a kind of tree or bush’
262. Proto-Nostratic root \*dʷar- (~ \*dʷər-):  
 (vb.) \*dʷar- ‘to hold firmly’;  
 (n.) \*dʷar-a ‘firm grip; hand, arm’
263. Proto-Nostratic root \*dʷaw- (~ \*dʷəw-):  
 (vb.) \*dʷaw- ‘to run, to flow’;  
 (n.) \*dʷaw-a ‘stream, current, flow’; (adj.) ‘running, flowing’
264. Proto-Nostratic indefinite pronoun stem \*dʷi- (~ \*dʷe-) ‘this one, that one’
265. Proto-Nostratic root \*dʷiʔ- (~ \*dʷeʔ-):  
 (vb.) \*dʷiʔ- ‘to reach, to arrive at, to come to; to surpass, to exceed’;  
 (n.) \*dʷiʔ-a ‘arrival, attainment, ripening’
266. Proto-Nostratic root \*dʷipʰ- (~ \*dʷepʰ-):  
 (vb.) \*dʷipʰ- ‘to stink, to give off a strong odor’;  
 (n.) \*dʷipʰ-a ‘pungent smell, stench’



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CHAPTER 9

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PROTO-NOSTRATIC \*tʰyʰ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
tʰyʰ-	tʰy-	c-	čk-	tʰ-	tʰy-	čh-	c-
-tʰyʰ-	-tʰy-	-c(c)-/ -y-	-čk-	-tʰ-	-tʰy-	-čh-	-c(c)-

267. Proto-Nostratic deictic stem \*tʰya- ‘that over there, that yonder (not very far)’
268. Proto-Nostratic root \*tʰhal- (~ \*tʰhəl-):  
 (vb.) \*tʰhal- ‘to strike with a sharp instrument’;  
 (n.) \*tʰhal-a ‘strike, blow; sharp instrument’  
 Derivative:  
 (n.) \*tʰhal-m-a ‘breach, opening, gap; crack, fissure, rift; hole’
269. Proto-Nostratic root \*tʰhal- (~ \*tʰhəl-):  
 Extended form:  
 (n.) \*tʰhal-m-a ‘breach, opening, gap; crack, fissure, rift; hole’  
 Derivative of:  
 (vb.) \*tʰhal- ‘to strike with a sharp instrument’;  
 (n.) \*tʰhal-a ‘strike, blow; sharp instrument’
270. Proto-Nostratic root \*tʰhar- (~ \*tʰhər-):  
 (vb.) \*tʰhar- ‘to advance to or toward an end or a goal; to attain or achieve an end or a goal, to reach, to come to, to arrive at’;  
 (n.) \*tʰhar-a ‘advance, arrival, goal, attainment, end, aim; approach’
271. Proto-Nostratic (n.) \*tʰharʸ-a ‘bull, bullock, ox’
272. Proto-Nostratic (n.) \*tʰhin-a ‘the other or opposite side’; (adj.) ‘different, other’
273. Proto-Nostratic root \*tʰhiqʷ- (~ \*tʰheqʷ-):  
 (vb.) \*tʰhiqʷ- ‘to swell’;  
 (n.) \*tʰhiqʷ-a ‘swelling, growth’
274. Proto-Nostratic (n.) \*tʰhom-a ‘wild bovine’

275. Proto-Nostratic root *\*tʰum-* (~ *\*tʰom-*):

(vb.) *\*tʰum-* ‘to strike, to beat, to pound, to knock; to tire out, to weary; to be or become weak or weary, to fade, to waste away’;

(n.) *\*tʰum-a* ‘fatigue, weariness, dullness, stupor’

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CHAPTER 10

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PROTO-NOSTRATIC \*t'y

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
t'y-	t'y-	c-	č'k'-	t'-	tʲy-	č-	c-
-t'y-	-t'y-	-c(c)-/ -y-	-č'k'-	-t'-	-tʲtʲy-	-č-	-c-

276. Proto-Nostratic root *\*t'yad-* (~ *\*t'yəd-*):  
 (vb.) *\*t'yad-* 'to strike, to beat, to pound, to hammer';  
 (n.) *\*t'yad-a* 'hammer'
277. Proto-Nostratic root *\*t'yak<sup>h</sup>-* (~ *\*t'yək<sup>h</sup>-*):  
 (vb.) *\*t'yak<sup>h</sup>-* 'to cut into small pieces, to chop, to chip';  
 (n.) *\*t'yak<sup>h</sup>-a* 'chip, small piece'
278. Proto-Nostratic root *\*t'yal-* (~ *\*t'yəl-*) and/or *\*t'yil-* (~ *\*t'yel-*):  
 (vb.) *\*t'yal-* and/or *\*t'yil-* 'to overshadow, to cover over, to make dark';  
 (n.) *\*t'yal-a* and/or *\*t'yil-a* 'shade, shadow; covering; darkness'
279. Proto-Nostratic root *\*t'yam-* (~ *\*t'yəm-*):  
 (vb.) *\*t'yam-* 'to be sour, bitter';  
 (n.) *\*t'yam-a* 'that which is sour, bitter, rotten, or spoiled'
280. Proto-Nostratic root *\*t'yar-* (~ *\*t'yər-*):  
 (vb.) *\*t'yar-* 'to be or become stuck, joined, or bound together; to be firmly or strongly attached';  
 (n.) *\*t'yar-a* 'firmness, solidity, strength'; (adj.) 'firm, solid, strong, steadfast'  
 Derivative:  
 (vb.) *\*t'yar-* 'to be rough, coarse, rigid, stiff, hard';  
 (n.) *\*t'yar-a* 'that which is rough, coarse, rigid, stiff, hard'; (adj.) 'rough, coarse, rigid, stiff, hard'
281. Proto-Nostratic root *\*t'yar-* (~ *\*t'yər-*):  
 (vb.) *\*t'yar-* 'to be rough, coarse, rigid, stiff, hard';  
 (n.) *\*t'yar-a* 'that which is rough, coarse, rigid, stiff, hard'; (adj.) 'rough, coarse, rigid, stiff, hard'  
 Derivative of:  
 (vb.) *\*t'yar-* 'to be or become stuck, joined, or bound together; to be firmly or strongly attached';  
 (n.) *\*t'yar-a* 'firmness, solidity, strength'; (adj.) 'firm, solid, strong, steadfast'

282. Proto-Nostratic (n.) *\*tʷar-a* ‘poplar tree, wood of the poplar’:  
 Perhaps derived from:  
 (vb.) *\*tʷar-* ‘to be or become stuck, joined, or bound together; to be firmly or strongly attached’;  
 (n.) *\*tʷar-a* ‘firmness, solidity, strength’; (adj.) ‘firm, solid, strong, steadfast’
283. Proto-Nostratic root *\*tʷar-* (~ *\*tʷər-*):  
 (vb.) *\*tʷar-* ‘to cut, to split’;  
 (n.) *\*tʷar-a* ‘cut, split, rip, tear; damage’; (adj.) ‘cut, split, ripped, torn’
284. Proto-Nostratic root *\*tʷar-* (~ *\*tʷər-*) (onomatopoeic):  
 (vb.) *\*tʷar-* ‘to make a noise’;  
 (n.) *\*tʷar-a* ‘(rustling or rumbling) noise’
285. Proto-Nostratic (n.) *\*tʷaw-a* ‘bad thing, evil, wickedness’; (adj.) ‘bad, evil’
286. Proto-Nostratic root *\*tʷij-* (~ *\*tʷej-*):  
 (vb.) *\*tʷij-* ‘to think, to consider’;  
 (n.) *\*tʷij-a* ‘thought, consideration, idea’
287. Proto-Nostratic root *\*tʷipʰ-* (~ *\*tʷepʰ-*):  
 (vb.) *\*tʷipʰ-* ‘to pinch, to nip’;  
 (n.) *\*tʷipʰ-a* ‘fingernail, claw’
288. Proto-Nostratic root *\*tʷor-*:  
 (vb.) *\*tʷor-* ‘to run, to flow’;  
 (n.) *\*tʷor-a* ‘running, flowing’; (adj.) ‘speedy, swift’

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CHAPTER 11

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PROTO-NOSTRATIC \*sʸ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
sʸ-	sʸ-	c-	šk-	s-	sʸ-	s-	sʸ-
-sʸ-	-sʸ-	-c(c)-/ -y-	-šk-	-s-	-sʸ-	-s-	-sʸ-

289. Proto-Nostratic root \*sʸam- (~ \*sʸəm-):  
 (vb.) \*sʸam- ‘to be hot, sunny’;  
 (n.) \*sʸam-a ‘summer’
290. Proto-Nostratic root \*sʸaw- (~ \*sʸəw-):  
 (vb.) \*sʸaw- ‘to be dry, arid, withered’;  
 (n.) \*sʸaw-a ‘dryness, dry place’; (adj.) ‘dry, arid, withered’
291. Proto-Nostratic root \*sʸaw- (~ \*sʸəw-) or \*sʸew-:  
 (vb.) \*sʸaw- ‘to give birth, to bring forth, to be born’;  
 (n.) \*sʸaw-a ‘son, child’
292. Proto-Nostratic (n.) \*sʸaw-a ‘wild boar’
293. Proto-Nostratic root \*sʸaxʷ- (~ \*sʸəxʷ-):  
 (vb.) \*sʸaxʷ- ‘to be or become hot, warm; to heat up, to make hot, to warm, to burn’;  
 (n.) \*sʸaxʷ-a ‘warmth, heat; sun’
294. Proto-Nostratic root \*sʸenʷ-:  
 (vb.) \*sʸenʷ- ‘to change, to deteriorate, to grow old’;  
 (n.) \*sʸenʷ-a ‘old age; old person’; (adj.) ‘aged, old’
295. Proto-Nostratic (Eurasianic only) (n.) \*sʸil-a ‘fat, lard’
296. Proto-Nostratic root \*sʸily- (~ \*sʸely-):  
 (vb.) \*sʸily- ‘to take (away), to seize, to snatch’;  
 (n.) \*sʸily-a ‘removal, robbery, plunder’
297. Proto-Nostratic root \*sʸir- (~ \*sʸer-):  
 (vb.) \*sʸir- ‘to twist, turn, tie, or bind together’;  
 (n.) \*sʸir-a ‘band, cord, any cord-like object: sinew, tendon, nerve, vein’  
 Perhaps related to:  
 (n.) \*sʸir-a ‘root (of tree or plant)’

298. Proto-Nostratic (n.) \**sʷir-a* ‘root (of tree or plant)’  
 Perhaps related to:  
 (vb.) \**sʷir-* ‘to twist, turn, tie, or bind together’;  
 (n.) \**sʷir-a* ‘band, cord, any cord-like object: sinew, tendon, nerve, vein’
299. Proto-Nostratic root \**sʷol-*:  
 (vb.) \**sʷol-* ‘to be safe, well, sound’;  
 (n.) \**sʷol-a* ‘safety; health, welfare’; (adj.) ‘safe, well, sound’
300. Proto-Nostratic root \**sʷor-*:  
 (vb.) \**sʷor-* ‘to surge, gush, flow, spring, or spread forth’;  
 (n.) \**sʷor-a* ‘surge, gush, flow’
301. Proto-Nostratic (n.) \**sʷub-a* ‘end, edge; top, front part’
302. Proto-Nostratic root \**sʷur-* (~ \**sʷor-*):  
 (vb.) \**sʷur-* ‘to frighten; to be or become frightened, to fear’;  
 (n.) \**sʷur-a* ‘fear’
303. Proto-Nostratic root \**sʷuw-* (~ \**sʷow-*):  
 (vb.) \**sʷuw-* ‘to be proper, fitting, suitable, appropriate, good, well, fine, beautiful’;  
 (n.) \**sʷuw-a* ‘propriety, suitability, appropriateness’; (adj.) ‘proper, fitting, suitable, appropriate’

Semantics as in Geez / Ethiopic *šannaya* [ሠንዖል] ‘to be beautiful, to be good, to seem good, to be well, to be fine, to be excellent, to be fitting, to be appropriate’ and its derivatives.



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CHAPTER 12

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PROTO-NOSTRATIC \*ʒ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
ʒ-	ʒ-	c-	ʒ-	d <sup>h</sup> -	č-	č̣-	c-
-ʒ-	-ʒ-	-c(c)-	-ʒ-	-d <sup>h</sup> -	-č-	-č̣-/ -d-	-c-

304. Proto-Nostratic root \*ʒag- (~ \*ʒəg-):  
 (vb.) \*ʒag- ‘to push, to shove, to drive’;  
 (n.) \*ʒag-a ‘push, shove, force’  
 Related to:  
 (vb.) \*ʒag- ‘to stuff, press, or squeeze tight’;  
 (n.) \*ʒag-a ‘plug’; (adj.) ‘pressing, squeezing, cramming’
305. Proto-Nostratic root \*ʒag- (~ \*ʒəg-):  
 (vb.) \*ʒag- ‘to stuff, press, or squeeze tight’;  
 (n.) \*ʒag-a ‘plug’; (adj.) ‘pressing, squeezing, cramming’  
 Related to:  
 (vb.) \*ʒag- ‘to push, to shove, to drive’;  
 (n.) \*ʒag-a ‘push, shove, force’
306. Proto-Nostratic root \*ʒag- (~ \*ʒəg-):  
 (vb.) \*ʒag- ‘to whet, to sharpen’;  
 (n.) \*ʒag-a ‘edge, side’
307. Proto-Nostratic root \*ʒak’- (~ \*ʒək’-):  
 (vb.) \*ʒak’- ‘to make fun of, to deride, to mock; to make sport, to play about, to joke’;  
 (n.) \*ʒak’-a ‘mockery, ridicule, sport’
308. Proto-Nostratic root \*ʒar- (~ \*ʒər-) or \*žar- (~ \*žər-):  
 (vb.) \*ʒar- or \*žar- ‘to run, flow, leak, or spill out; to spring forth, to issue (from); to flow or gush forth’;  
 (n.) \*ʒar-a or \*žar-a ‘drizzle, rain, downpour; current, stream, torrent’
309. Proto-Nostratic root \*ʒer- or \*žer-:  
 (vb.) \*ʒer- or \*žer- ‘to pierce, to jab, to stab, to thrust or shove into’;  
 (n.) \*ʒer-a or \*žer-a ‘spear, javelin, weapon’

310. Proto-Nostratic root *\*zil-* (~ *\*zel-*) or *\*žil-* (~ *\*žel-*):  
 (vb.) *\*zil-* or *\*žil-* ‘to flow, to flow forth’;  
 (n.) *\*zil-a* or *\*žil-a* ‘drip, drop, raindrop’; (adj.) ‘flowing, trickling, dropping, sprinkling’  
 Probably identical to:  
 (vb.) *\*zil-* or *\*žil-* ‘to glide, to slide’;  
 (n.) *\*zil-a* or *\*žil-a* ‘the act of slipping, sliding, gliding’; (adj.) ‘smooth, slippery’
311. Proto-Nostratic root *\*zil-* (~ *\*zel-*) or *\*žil-* (~ *\*žel-*):  
 (vb.) *\*zil-* or *\*žil-* ‘to glide, to slide’;  
 (n.) *\*zil-a* or *\*žil-a* ‘the act of slipping, sliding, gliding’; (adj.) ‘smooth, slippery’  
 Probably identical to:  
 (vb.) *\*zil-* or *\*žil-* ‘to flow, to flow forth’;  
 (n.) *\*zil-a* or *\*žil-a* ‘drip, drop, raindrop’; (adj.) ‘flowing, trickling, dropping, sprinkling’
312. Proto-Nostratic root *\*zim-* (~ *\*zem-*) or *\*žim-* (~ *\*žem-*):  
 (vb.) *\*zim-* or *\*žim-* ‘to blow, to play (a wind instrument)’;  
 (n.) *\*zim-a* or *\*žim-a* ‘blowing, playing (a wind instrument)’
313. Proto-Nostratic root *\*zum-* (~ *\*zom-*) or *\*žum-* (~ *\*žom-*):  
 (vb.) *\*zum-* or *\*žum-* ‘to take, to seize’;  
 (n.) *\*zum-a* or *\*žum-a* ‘the act of taking or seizing’; (adj.) ‘taking, seizing’
314. Proto-Nostratic (replicated) (n.) *\*zuʒ-a* (< *\*zu-zu-*) ‘tip, point’ (> ‘nipple, breast’)

Note: There has been a good deal of remodeling in the Nostratic daughter languages, including Afrasian (Semitic). The original form has been best preserved in Kartvelian in Georgian and Mingrelian.

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CHAPTER 13

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PROTO-NOSTRATIC \*c<sup>h</sup>

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaiic	Proto-Eskimo
c <sup>h</sup> -	c-	c-	c-	t <sup>h</sup> -	č-	č <sup>h</sup> -	c-
-c <sup>h</sup> -	-c-	-c(c)-	-c-	-t <sup>h</sup> -	-č-	-č <sup>h</sup> -	-c(c)-

315. Proto-Nostratic root \*c<sup>h</sup>ag- (~ \*c<sup>h</sup>əg-):  
 (vb.) \*c<sup>h</sup>ag- ‘to prick, to pierce’;  
 (n.) \*c<sup>h</sup>ag-a ‘prick, sting, rupture’
316. Proto-Nostratic root \*c<sup>h</sup>aḥ- (~ \*c<sup>h</sup>əḥ-):  
 (vb.) \*c<sup>h</sup>aḥ- ‘to crush, to pound, to grind, to beat, to bruise, to destroy’;  
 (n.) \*c<sup>h</sup>aḥ-a ‘the act of crushing, beating, thrashing, pounding, grinding’;  
 (adj.) ‘crushing, beating, thrashing, pounding, grinding’
317. Proto-Nostratic root \*c<sup>h</sup>al- (~ \*c<sup>h</sup>əl-):  
 (vb.) \*c<sup>h</sup>al- ‘to cut, to split, to cleave, to break off or apart’;  
 (n.) \*c<sup>h</sup>al-a ‘cut, crack, split; stroke, blow’  
 Derivative:  
 (n.) \*c<sup>h</sup>al-a ‘part, piece, chip, fragment’
318. Proto-Nostratic (n.) \*c<sup>h</sup>al-a ‘part, piece, chip, fragment’:  
 Derivative of:  
 (vb.) \*c<sup>h</sup>al- ‘to cut, to split, to cleave, to break off or apart’;  
 (n.) \*c<sup>h</sup>al-a ‘cut, crack, split; stroke, blow’
319. Proto-Nostratic root \*c<sup>h</sup>uk<sup>h</sup>- (~ \*c<sup>h</sup>ok<sup>h</sup>-):  
 (vb.) \*c<sup>h</sup>uk<sup>h</sup>- ‘to close, to shut, to cover’;  
 (n.) \*c<sup>h</sup>uk<sup>h</sup>-a ‘closure, cover, stoppage’



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CHAPTER 14

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PROTO-NOSTRATIC \*c'

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
c'-	c'-	c-	c'-	t'-	č-	č-	c-
-c'-	-c'-	-c(c)-	-c'-	-t'-	-č-	-č-	-c-

320. Proto-Nostratic root \*c'al- (~ \*c'əl-) or \*č'al- (~ \*č'əl-):  
 (vb.) \*c'al- or \*č'al- 'to stretch out, to extend, to exceed; to be wealthy, to prosper, to do well';  
 (n.) \*c'al-a or \*č'al-a 'wealth, prosperity, abundance'
321. Proto-Nostratic root \*c'ar- (~ \*c'ər-) stem indicating downward motion:  
 (vb.) \*c'ar- 'to slip or slide down, to fall down, to roll down, to lean or bend down, to throw down';  
 (n.) \*c'ar-a 'the act of slipping, sliding, falling, or rolling down';  
 (particle) \*c'ar- 'down'
322. Proto-Nostratic root \*c'ar- (~ \*c'ər-) or \*č'ar- (~ \*č'ər-):  
 (vb.) \*c'ar- or \*č'ar- 'to be or become visible, clear, evident; to reveal, to make known, to make clear, to clarify';  
 (n.) \*c'ar-a or \*č'ar-a 'visibility, clarity'; (adj.) 'visible, clear, evident'
323. Proto-Nostratic root \*c'aw- (~ \*c'əw-):  
 (vb.) \*c'aw- 'to be or become dry, withered, emaciated, lean';  
 (n.) \*c'aw-a 'that which is withered, dry, lean, blighted'; (adj.) 'dry, withered, lean, blighted'  
 Extended form:  
 (vb.) \*c'aw-V-lv- 'to be or become dry, withered, emaciated, lean';  
 (adj.) \*c'aw-lv-a 'that which is withered, dry, lean, blighted'; (adj.) 'dry, withered, lean, blighted'
324. Proto-Nostratic root \*c'ilv- (~ \*c'elv-):  
 (vb.) \*c'ilv- 'to strip off, to peel off, to pick, to pluck';  
 (n.) \*c'ilv-a 'peeling, picking, plucking'
325. Proto-Nostratic root \*c'irv- (~ \*c'er<sup>v</sup>-):  
 (vb.) \*c'irv- 'to squeak, to chirp, to cheep, to peep';  
 (n.) \*c'irv-a 'a kind of bird'

326. Proto-Nostratic root *\*c'ur-* (~ *\*c'or-*):

- (vb.) *\*c'ur-* 'to twist, to turn, to revolve; to press, tie, or bind together; to wrap up; to surround, to encircle, to enclose';
- (n.) *\*c'ur-a* 'that which is tied, twisted, wrapped, or bound together: coil, wrapping, binding, loop, etc.; that which surrounds, encircles, or encloses: enclosure, wall, surroundings, circle'

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CHAPTER 15

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PROTO-NOSTRATIC \*s

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
s-	s-	c-	s-	s-	s-	s-	
-s-	-s-	-c(c)-	-s-	-s-	-s-	-s-	

327. Proto-Nostratic root *\*saʔ-* (~ *\*səʔ-*):  
 Extended form:  
 (vb.) *\*saʔ-V-y-* ‘to sift’;  
 (n.) *\*saʔ-y-a* ‘sieve’
328. Proto-Nostratic root *\*sadʷ-* (~ *\*sədʷ-*):  
 (vb.) *\*sadʷ-* ‘to hear, to listen, to judge’;  
 (n.) *\*sadʷ-a* ‘hearing, judgment, condemnation, punishment’
329. Proto-Nostratic root *\*sag-* (~ *\*səg-*) or *\*šag-* (~ *\*šəg-*):  
 (vb.) *\*sag-* or *\*šag-* ‘to reach, to arrive at, to attain, to achieve, to get, to obtain’;  
 (n.) *\*sag-a* or *\*šag-a* ‘acquisition, attainment, victory’
330. Proto-Nostratic root *\*saḥ-* (~ *\*səḥ-*) or *\*šaḥ-* (~ *\*šəḥ-*):  
 (vb.) *\*saḥ-* or *\*šaḥ-* ‘to examine, to consider, to try to find out, to try to understand, to think about’;  
 (n.) *\*saḥ-a* or *\*šaḥ-a* ‘thought, idea, understanding, inquiry, examination, consideration, investigation’
331. Proto-Nostratic root *\*sakʰ-* (~ *\*səkʰ-*):  
 (vb.) *\*sakʰ-* ‘to cut, to split’;  
 (n.) *\*sakʰ-a* ‘any sharp instrument used for cutting: knife, sword, dagger, axe, etc.’
332. Proto-Nostratic root *\*sakʷ-* (~ *\*səkʷ-*):  
 (vb.) *\*sakʷ-* ‘to tie, to bind, to fasten’;  
 (n.) *\*sakʷ-a* ‘fastening, loop’
333. Proto-Nostratic root *\*sal-* (~ *\*səl-*):  
 (vb.) *\*sal-* ‘to go up, to lift up, to raise up’;  
 (n.) *\*sal-a* ‘ascent; height’; (adj.) ‘elevated, high, raised’

334. Proto-Nostratic root *\*sam-* (~ *\*səm-*):  
 (vb.) *\*sam-* ‘to resemble, to be like’;  
 (n.) *\*sam-a* ‘form, shape, appearance, likeness’; (adj.) ‘similar, alike, same’
335. Proto-Nostratic root *\*san-* (~ *\*sən-*) or *\*šan-* (~ *\*šən-*), *\*sin-* (~ *\*sen-*) or *\*šin-* (~ *\*šen-*), *\*sun-* (~ *\*son-*) or *\*šin-* (~ *\*šon-*):  
 (vb.) *\*san-* or *\*šan-*, *\*sin-* or *\*šin-*, *\*sun-* or *\*šin-* ‘to sense, to perceive’;  
 (n.) *\*san-a* or *\*šan-a*, *\*sin-a* or *\*šin-a*, *\*sun-a* or *\*šin-a* ‘(a) that which senses or perceives: mind, nose; (b) that which is sensed or perceived: perception, sense, feeling’
336. Proto-Nostratic (Eurasianic only) (n.) *\*s[e]n-a* or *\*š[e]n-a* (the root vowel is uncertain but is probably *\*e*) ‘sinew, tendon’
337. Proto-Nostratic second person pronoun stem *\*si-* (~ *\*se-*) ‘you’
338. Proto-Nostratic 3rd person pronoun stem *\*si-* (~ *\*se-*) ‘he, she, it; him, her; they, them’; 3rd person possessive suffix *\*-si* (~ *\*-se*) ‘his, her, its; their’
339. Proto-Nostratic root *\*sig-* (~ *\*seg-*):  
 (vb.) *\*sig-* ‘to flow forth, to rain’;  
 (n.) *\*sig-a* ‘flowing, raining, storm’
340. Proto-Nostratic root *\*sih-* (~ *\*seh-*):  
 (vb.) *\*sih-* ‘to scatter, to strew, to cast or throw, to sprinkle (with water)’;  
 (n.) *\*sih-a* ‘the act of scattering, strewing, casting, or throwing about’; (adj.) ‘scattered, strewn, cast, or thrown about’



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CHAPTER 16

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PROTO-NOSTRATIC \*ž

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Karvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
ž-	ʒ-	c-	ž-	d <sup>h</sup> -	č-	ž-	c-
-ž-	-ʒ-	-c(c)-	-ž-	-d <sup>h</sup> -	-č-	-ž-/ -d-	-c-

341. Proto-Nostratic root \*žal- (~ \*žal-):  
 (vb.) \*žal- ‘to die, to fade, to wither’;  
 (n.) \*žal-a ‘death’
342. Proto-Nostratic (n.) \*žag<sup>w</sup>-a ‘a small tree, a bush or shrub’
343. Proto-Nostratic root \*žah- (~ \*žah-):  
 (vb.) \*žah- ‘to call (out), to cry (out)’;  
 (n.) \*žah-a ‘call, cry; name’
344. Proto-Nostratic root \*žal- (~ \*žal-):  
 (vb.) \*žal- ‘to fasten, to tie’;  
 (n.) \*žal-a ‘string, strap, cord’
345. Proto-Nostratic root \*žaw- (~ \*žaw-):  
 (vb.) \*žaw- ‘to wear out, to be used up, to cease to function’;  
 (n.) \*žaw-a ‘cessation, end, extinction’; (adj.) ‘worn out, used up, wasted, decrepit, old’
346. Proto-Nostratic (n.) \*žem-a ‘anything that is sour, bitter, pungent, sharp’;  
 (adj.) ‘sour, bitter, pungent, sharp’



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CHAPTER 17

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PROTO-NOSTRATIC \*čʰ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
čʰ-	c-	c-	č-	tʰ-	č-	čʰ-	c-
-čʰ-	-c-	-c(c)-	-č-	-tʰ-	-č-	-čʰ-	-c(c)-

347. Proto-Nostratic root \*čʰal- (~ \*čʰəl-):  
 (vb.) \*čʰal- ‘to leave, to leave behind, to abandon, to get rid of, to empty; to set free, to release, to let go’;  
 (n.) \*čʰal-a ‘freedom, leisure, emptiness’; (adj.) ‘empty, abandoned, released, freed (from), at leisure’

Semantics as in Sanskrit *ric-* and its derivatives: *ric-* ‘to empty, to evacuate, to leave, to give up, to resign; to release, to set free; to leave behind; to separate, to remove from’, *ricyáte* ‘to be emptied, to be deprived of or freed from’, *riktá-h* ‘emptied, empty, void’.

348. Proto-Nostratic root \*čʰan- (~ \*čʰən-):  
 (vb.) \*čʰan- ‘to bring forth, to produce, to grow, to be born’;  
 (n.) \*čʰan-a ‘that which is brought forth, produced, grown: fruit; bringing forth: birth’

349. Proto-Nostratic root \*čʰečʰ-:  
 (vb.) \*čʰečʰ- ‘to press, to squeeze, to crush’;  
 (n.) \*čʰečʰ-a ‘the act of pressing, squeezing, crushing; that which is pressed, squeezed, crushed: crumb(s)’

350. Proto-Nostratic root \*čʰokʰ-:  
 (vb.) \*čʰokʰ- ‘to bend, to twist, to turn, to wind’;  
 (n.) \*čʰokʰ-a ‘the act of bending, twisting, turning, winding’



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CHAPTER 18

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PROTO-NOSTRATIC \*čʰ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
čʰ-	cʰ-	c-	čʰ-	tʰ-	č-	č-	c-
-čʰ-	-cʰ-	-c(c)-	-čʰ-	-tʰ-	-č-	-č-	-c-

351. Proto-Nostratic (n.) \*čʰam-a ‘reed, grass’

352. Proto-Nostratic root \*čʰikʰ- (~ \*čʰekʰ-):

(vb.) \*čʰikʰ- ‘to be small’;

(n.) \*čʰikʰ-a ‘small things’; (adj.) ‘small’

353. Proto-Nostratic root \*čʰir- (~ \*čʰer-):

(vb.) \*čʰir- ‘to cut, to cut off, to cut through; to cut into, to scratch, to scrape’;

(n.) \*čʰir-a ‘that which is cut, cut off, cut into: slice, board, plank, scratch; that which cuts: knife, axe, adze’



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CHAPTER 19

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PROTO-NOSTRATIC \*š

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
š-	s-	c-	š-	s-	s-	s-	
-š-	-s-	-c(c)-	-š-	-s-	-s-	-s-	

354. Proto-Nostratic demonstrative pronoun stem \*ša- (~ \*šə-): ‘this, that’
355. Proto-Nostratic root \*šar- (~ \*šər-):  
 (vb.) \*šar- ‘to split, to rip apart, to tear asunder’;  
 (n.) \*šar-a ‘that which splits: knife’
356. Proto-Nostratic root \*šaw- (~ \*šəw-):  
 (vb.) \*šaw- ‘to drink, to swallow’;  
 (n.) \*šaw-a ‘drink, juice’
357. Proto-Nostratic root \*šaw- (~ \*šəw-):  
 (vb.) \*šaw- ‘to sigh, to pant, to gasp, to breathe deeply’;  
 (n.) \*šaw-a ‘breath, sigh’  
 Related to:  
 (vb.) \*šaw- ‘to sleep, to rest’;  
 (n.) \*šaw-a ‘sleep, slumber, rest’
358. Proto-Nostratic root \*šaw- (~ \*šəw-):  
 (vb.) \*šaw- ‘to sleep, to rest’;  
 (n.) \*šaw-a ‘sleep, slumber, rest’  
 Related to:  
 (vb.) \*šaw- ‘to sigh, to pant, to gasp, to breathe deeply’;  
 (n.) \*šaw-a ‘breath, sigh’
359. Proto-Nostratic root \*šiḥ- (~ \*šeḥ-):  
 (vb.) \*šiḥ- ‘to separate into (equal) parts, to divide’;  
 (n.) \*šiḥ-a ‘part, portion, separation, division, section’
360. Proto-Nostratic root \*šiw- (~ \*šew-):  
 (vb.) \*šiw- ‘to swell’;  
 (n.) \*šiw-a ‘swelling’; (adj.) ‘swollen, puffed up’
361. Proto-Nostratic root \*šuw- (~ \*šow-):  
 (vb.) \*šuw- ‘to be wet, moist; to make wet, to soak’;  
 (n.) \*šuw-a ‘liquid, moisture’; (adj.) ‘moist, wet, soaked’

Extended form:

(vb.) \*šuw-*V-l-* ‘to be wet, moist; to make wet, to soak’;  
(n.) \*šuw-*l-a* ‘liquid, moisture’; (adj.) ‘moist, wet, soaked’



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CHAPTER 20

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PROTO-NOSTRATIC \*g

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
g-	g-	k-	g-	g <sup>h</sup> -	k-	g-	k- q-
-g-	-g-	-k-	-g-	-g <sup>h</sup> -	-x-	-g-	-ɣ-

362. Proto-Nostratic root *\*gaʔ-* (~ *\*gəʔ-*):  
 (vb.) *\*gaʔ-* ‘to go, to leave, to depart; to leave behind, to abandon, to forsake’;  
 (n.) *\*gaʔ-a* ‘abandonment, lack, want, need, deprivation, loss, deficit’; (adj.)  
 ‘abandoned, forsaken, left behind; wanting, lacking, deprived of’
363. Proto-Nostratic (n.) *\*gab-a* ‘front, front part’  
 Probably identical to:  
 (n.) *\*gab-a* ‘peak, tip, top’
364. Proto-Nostratic (n.) *\*gab-a* ‘peak, tip, top’  
 Probably identical to:  
 (n.) *\*gab-a* ‘front, front part’  
 Note also:  
 (n.) *\*gub-a* ‘highest point, summit, top’
365. Proto-Nostratic root *\*gab-* (~ *\*gəb-*):  
 (vb.) *\*gab-* ‘to grasp, to seize’;  
 (n.) *\*gab-a* ‘hand, arm’
366. Proto-Nostratic root *\*gad-* (~ *\*gəd-*):  
 (vb.) *\*gad-* ‘to be or become big, great, mighty’;  
 (n.) *\*gad-a* ‘bigness, greatness, might’; (adj.) ‘big, great, mighty’
367. Proto-Nostratic root *\*gad-* (~ *\*gəd-*):  
 (vb.) *\*gad-* ‘to cut, to split, to strike (with an instrument)’;  
 (n.) *\*gad-a* ‘that which cuts: (pick)axe, saw; that which is cut, split: cut, split,  
 piece, fragment, bit’
368. Proto-Nostratic (n.) *\*gad-a* ‘kid, young goat’
369. Proto-Nostratic root *\*gal-* (~ *\*gəl-*):  
 (vb.) *\*gal-* ‘to cut, break, tear, or pluck off; to separate’;  
 (n.) *\*gal-a* ‘cut, break, tear, separation’

## Derivative:

- (vb.) *\*gal-* ‘to dig, scoop, or hollow out’ (> ‘to plow’);  
 (n.) *\*gal-a* ‘the act of digging, scooping, or hollowing out’

370. Proto-Nostratic root *\*gal-* (~ *\*gəl-*):  
 (vb.) *\*gal-* ‘to dig, scoop, or hollow out’ (> ‘to plow’);  
 (n.) *\*gal-a* ‘the act of digging, scooping, or hollowing out’  
 Derivative of:  
 (vb.) *\*gal-* ‘to cut, break, tear, or pluck off; to separate’;  
 (n.) *\*gal-a* ‘cut, break, tear, separation’
371. Proto-Nostratic (n.) *\*gal-a* ‘pot, vessel’
372. Proto-Nostratic root *\*gal-* (~ *\*gəl-*):  
 (vb.) *\*gal-* ‘to be or become visible, clear, obvious, evident; to regard, to look at, to peer at’;  
 (n.) *\*gal-a* ‘visibility, clarity, understanding’; (adj.) ‘clear, plain, evident’
373. Proto-Nostratic *\*gal-* (~ *\*gəl-*):  
 (vb.) *\*gal-* ‘to cry out, to shout, to clamor; to be noisy, boisterous’;  
 (n.) *\*gal-a* ‘clamor, uproar, tumult, disturbance, turmoil, noise’
374. Proto-Nostratic root *\*gal-* (~ *\*gəl-*):  
 (vb.) *\*gal-* ‘to ache, to be in pain, to be ill, to suffer’;  
 (n.) *\*gal-a* ‘ache, pain, disease, illness’
375. Proto-Nostratic (n.) *\*gal-a* ‘blemish, fault, scar, sore on the skin’
376. Proto-Nostratic root *\*gal-* (~ *\*gəl-*):  
 (vb.) *\*gal-* ‘to be strong, powerful; to be able’;  
 (n.) *\*gal-a* ‘strength, power, ability’
377. Proto-Nostratic root *\*gam-* (~ *\*gəm-*):  
 (vb.) *\*gam-* ‘to bend, to be bent’;  
 (n.) *\*gam-a* ‘a bent or curved object: hook; wrist, ankle; etc.’
378. Proto-Nostratic root *\*gam-* (~ *\*gəm-*):  
 (vb.) *\*gam-* ‘to fill (up)’;  
 (n.) *\*gam-a* ‘plenty, surplus, abundance’
379. Proto-Nostratic (n.) *\*gaŋ-a* (with different extensions in the various daughter languages: *\*gaŋ-sʲ-* and/or *\*gaŋ-s-*, *\*gaŋ-tʲ-*, etc. and sporadic loss of *ŋ*) ‘a waterfowl, an aquatic bird: goose, duck, etc.’

380. Proto-Nostratic root \*gaŋ- (~ \*gəŋ-):  
 (vb.) \*gaŋ- ‘to bend: to bend forward; to bend back; to bend to the side’;  
 (n.) \*gaŋ-a ‘side, corner, flank, edge’
381. Proto-Nostratic root \*gar- (~ \*gər-):  
 (vb.) \*gar- ‘to seize, to grasp, to take hold of’;  
 (n.) \*gar-a ‘hand’
382. Proto-Nostratic root \*gar- (~ \*gər-):  
 (vb.) \*gar- ‘to cut, to split’;  
 (n.) \*gar-a ‘cut, injury; that which cuts: (pick)axe’; (adj.) ‘cut, separated, shortened’
383. Proto-Nostratic root \*gar- (~ \*gər-):  
 (vb.) \*gar- ‘to scratch, to scrape’;  
 (n.) \*gar-a ‘that which scratches, scrapes: spade, rake’  
 Derivative:  
 (n.) \*gar-b-a ‘itch, scab, sore’
384. Proto-Nostratic (n.) \*gar-b-a ‘itch, scab, sore’:  
 Derivative of:  
 (vb.) \*gar- ‘to scratch, to scrape’;  
 (n.) \*gar-a ‘that which scratches, scrapes: spade, rake’
385. Proto-Nostratic root \*garʷ- (~ \*gərʷ-):  
 (vb.) \*garʷ- ‘to swell, to increase, to grow’;  
 (n.) \*garʷ-a ‘swelling, increase, growth; great quantity, abundance, excess’  
 Identical to:  
 (vb.) \*garʷ- ‘to stick out, to stand out, to jut out, to project, to protrude; to be or become erect, rigid, stiff’;  
 (n.) \*garʷ- ‘tip, point, peak’
386. Proto-Nostratic root \*garʷ- (~ \*gərʷ-):  
 (vb.) \*garʷ- ‘to stick out, to stand out, to jut out, to project, to protrude; to be or become erect, rigid, stiff’;  
 (n.) \*garʷ- ‘tip, point, peak’  
 Identical to:  
 (vb.) \*garʷ- ‘to swell, to increase, to grow’;  
 (n.) \*garʷ-a ‘swelling, increase, growth; great quantity, abundance, excess’
387. Proto-Nostratic root \*gasʷ- (~ \*gəsʷ-):  
 (vb.) \*gasʷ- ‘to touch, to feel, to handle’;  
 (n.) \*gasʷ-a ‘hand’

388. Proto-Nostratic root *\*gat-* (~ *\*gət-*):  
 (vb.) *\*gat-* ‘to take (with the hand), to grasp’;  
 (n.) *\*gat-a* ‘hand’
389. Proto-Nostratic (n.) *\*gen-a* ‘jaw, cheek’
390. Proto-Nostratic (n.) *\*g[e]n-d-a* ‘virility, strength; a male (human or animal)’
391. Proto-Nostratic pronominal base of unclear deictic function *\*gi-* (~ *\*ge-*)
392. Proto-Nostratic root *\*gib-* (~ *\*geb-*):  
 (vb.) *\*gib-* ‘to bestow upon, to give’;  
 (n.) *\*gib-a* ‘gift’
393. Proto-Nostratic root *\*gid-* (~ *\*ged-*) or *\*gid-* (~ *\*ged-*):  
 (vb.) *\*gid-* or *\*gid-* ‘to force, drive, or press together; to join; to unite; to gather (together); to collect’;  
 (n.) *\*gid-a* or *\*gid-a* ‘force, compulsion; collection, heap; union’; (adj.) ‘pressed close together, near, united’
394. Proto-Nostratic root *\*gil-* (~ *\*gel-*):  
 (vb.) *\*gil-* ‘to glide, to slip, to slide’;  
 (n.) *\*gil-a* ‘gliding, sliding’; (adj.) ‘smooth, slippery’
395. Proto-Nostratic root *\*gil-* (~ *\*gel-*):  
 (vb.) *\*gil-* ‘to freeze’;  
 (n.) *\*gil-a* ‘ice’
396. Proto-Nostratic root *\*gin-* (~ *\*gen-*) or *\*gin-* (~ *\*gen-*):  
 (vb.) *\*gin-* or *\*gin-* ‘to be young, small, weak’;  
 (n.) *\*gin-a* or *\*gin-a* ‘youth, young one’; (adj.) ‘young, small, weak’
397. Proto-Nostratic root *\*gin-* (~ *\*gen-*):  
 (vb.) *\*gin-* ‘to grind, to pound, to break or crush into pieces’;  
 (n.) *\*gin-a* ‘the act of grinding, pounding, crushing’
398. Proto-Nostratic root *\*gir-* (~ *\*ger-*):  
 (vb.) *\*gir-* ‘to gird, to enclose’;  
 (n.) *\*gir-a* ‘enclosure, fence, wall’
399. Proto-Nostratic root *\*gir<sup>y</sup>-* (~ *\*ger<sup>y</sup>-*):  
 (vb.) *\*gir<sup>y</sup>-* ‘to be or become old’;  
 (n.) *\*gir<sup>y</sup>-a* ‘old age, old person’; (adj.) ‘old’

400. Proto-Nostratic root \*gir<sup>y</sup>- (~ \*ger<sup>y</sup>-) or \*Gir<sup>y</sup>- (~ \*Ger<sup>y</sup>-):  
 (vb.) \*gir<sup>y</sup>- or \*Gir<sup>y</sup>- ‘to move, to move swiftly, to hasten, to hurry; to run, to flow; to go, to walk’;  
 (n.) \*gir<sup>y</sup>-a or \*Gir<sup>y</sup>-a ‘movement, flow, flux, step, course’
401. Proto-Nostratic (n.) \*gol-a ‘edge, corner, valley’
402. Proto-Nostratic (n.) \*gub-a ‘highest point, summit, top’  
 Note also:  
 (n.) \*gab-a ‘peak, tip, top’
403. Proto-Nostratic root \*gub- (~ \*gob-):  
 (vb.) \*gub- ‘to cook, to roast, to burn’;  
 (n.) \*gub-a ‘the act of cooking; that which is used for cooking: pot, pan; stove, furnace’
404. Proto-Nostratic root \*gud- (~ \*god-):  
 (vb.) \*gud- ‘to throw, to toss, to shake’;  
 (n.) \*gud-a ‘that which is thrown or tossed off or aside: rubbish, refuse, cast-out things’
405. Proto-Nostratic (n.) \*gul-a (~ \*gol-a) ‘enclosed space’
406. Proto-Nostratic root \*gun- (~ \*gon-):  
 (vb.) \*gun- ‘to perceive, to notice’;  
 (n.) \*gun-a ‘notice, memory, mind, perception, remembrance, recollection’
407. Proto-Nostratic root (Eurasian only) \*gup<sup>h</sup>- (~ \*gop<sup>h</sup>-):  
 (vb.) \*gup<sup>h</sup>- ‘to extinguish; to be extinguished, to die out, to perish’;  
 (n.) \*gup<sup>h</sup>-a ‘loss, destruction’
408. Proto-Nostratic root \*gur- (onomatopoeic):  
 (vb.) \*gur- ‘to rumble, to roar, to growl, to gurgle’;  
 (n.) \*gur-a ‘rumbling, roaring, gurgling, growling noise or sound’
409. Proto-Nostratic (Eurasian only) (n.) \*gur-a ‘gut, cord’
410. Proto-Nostratic root \*gus- (~ \*gos-):  
 (vb.) \*gus- ‘to go outside of or forth from; to make to go outside or forth from, to drive away, to chase away’;  
 (n.) \*gus-a ‘outsider, stranger’

411. Proto-Nostratic root *\*guw-* (~ *\*gow-*):  
(vb.) *\*guw-* ‘to observe, to notice, to watch, to pay attention to, to heed, to be or become aware of’;  
(n.) *\*guw-a* ‘observation, heed, awareness, attention, notice’
412. Proto-Nostratic root *\*guw-* (~ *\*gow-*):  
(vb.) *\*guw-* ‘to hunt wild animals’;  
(n.) *\*guw-a* ‘wild animal, wild beast, game’; (adj.) ‘wild, untamed’  
Extended form:  
(vb.) *\*guw-V-r-* ‘to hunt wild animals’;  
(n.) *\*guw-r-a* ‘wild animal, wild beast, game’; (adj.) ‘wild, untamed’

## Notes:

1. The unextended stem is preserved in Egyptian.
2. The Afrasian (Cushitic and Chadic) and Indo-European forms are derivatives: *\*guw-V-r-*.

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CHAPTER 21

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PROTO-NOSTRATIC \*k<sup>h</sup>

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
k <sup>h</sup> -	k-	k-	k-	k <sup>h</sup> -	k-	k <sup>h</sup> -	k- q-
-k <sup>h</sup> -	-k-	-k(k)-	-k-	-k <sup>h</sup> -	-k(k)-	-k <sup>h</sup> -	-k(k)- -q(q)-

413. Proto-Nostratic 1st person pronoun stem (stative) \*k<sup>h</sup>a-
414. Proto-Nostratic demonstrative pronoun stem:  
 Proximate: \*k<sup>h</sup>a- (~ \*k<sup>h</sup>ə-) ‘this’;  
 Intermediate: \*k<sup>h</sup>i- (~ \*k<sup>h</sup>e-) ‘that’;  
 Distant: \*k<sup>h</sup>u- (~ \*k<sup>h</sup>o-) ‘that yonder’
415. Proto-Nostratic (n.) \*k<sup>h</sup>ab-a ‘he-goat, male sheep, buck, ram’
416. Proto-Nostratic (n.) \*k<sup>h</sup>ab-a ‘foot, hoof’
417. Proto-Nostratic root \*k<sup>h</sup>ad- (~ \*k<sup>h</sup>əd-):  
 (vb.) \*k<sup>h</sup>ad- ‘to cover, to wrap, to clothe’;  
 (n.) \*k<sup>h</sup>ad-a ‘covering, shield, protection’  
 Perhaps identical to:  
 (vb.) \*k<sup>h</sup>ad- ‘to tie, to bind’;  
 (n.) \*k<sup>h</sup>ad-a ‘tie, band, fastening’
418. Proto-Nostratic root \*k<sup>h</sup>ad- (~ \*k<sup>h</sup>əd-):  
 (vb.) \*k<sup>h</sup>ad- ‘to tie, to bind’;  
 (n.) \*k<sup>h</sup>ad-a ‘tie, band, fastening’  
 Perhaps identical to:  
 (vb.) \*k<sup>h</sup>ad- ‘to cover, to wrap, to clothe’;  
 (n.) \*k<sup>h</sup>ad-a ‘covering, shield, protection’
419. Proto-Nostratic (n.) \*k<sup>h</sup>al-a ‘female in-law’  
 Note also:  
 (n.) \*k<sup>h</sup>el-a ‘female in-law’
420. Proto-Nostratic root \*k<sup>h</sup>al- (~ \*k<sup>h</sup>əl-):  
 (vb.) \*k<sup>h</sup>al- ‘to make a noise, to sound; to call out, to shout’;  
 (n.) \*k<sup>h</sup>al-a ‘noise, sound’

421. Proto-Nostratic root *\*kʰal-* (~ *\*kʰəl-*):  
 (vb.) *\*kʰal-* ‘to guard, to hold (back), to watch’;  
 (n.) *\*kʰal-a* ‘protection, care, support; restraint, detention, custody, hold’
422. Proto-Nostratic root *\*kʰal-* (~ *\*kʰəl-*):  
 (vb.) *\*kʰal-* ‘to point out, to make clear, to make known, to disclose, to explain’;  
 (n.) *\*kʰal-a* ‘study, learning; investigation, explanation, clarification’
423. Proto-Nostratic (n.) *\*kʰalʷ-a* ‘reed, stalk, stem, blade of grass, haulm’
424. Proto-Nostratic root *\*kʰalʷ-* (~ *\*kʰəlʷ-*):  
 (vb.) *\*kʰalʷ-* ‘to rob, to steal, to hide’;  
 (n.) *\*kʰalʷ-a* ‘theft’
425. Proto-Nostratic root *\*kʰam-* (~ *\*kʰəm-*) or *\*qʰam-* (~ *\*qʰəm-*):  
 (vb.) *\*kʰam-* or *\*qʰam-* ‘to seize, to grasp, to grip, to clutch’;  
 (n.) *\*kʰam-a* or *\*qʰam-a* ‘grip, hold, hand(ful); bond, fetter’
426. Proto-Nostratic root *\*kʰam-* (~ *\*kʰəm-*):  
 (vb.) *\*kʰam-* ‘to work, to labor, to toil; to do, to make’;  
 (n.) *\*kʰam-a* ‘work, labor, toil’
427. Proto-Nostratic root *\*kʰam-* (~ *\*kʰəm-*):  
 (vb.) *\*kʰam-* ‘to gather together, to collect’; (adv.) ‘together, along with’;  
 (n.) *\*kʰam-a* ‘collection, assemblage, gathering’
428. Proto-Nostratic (n.) *\*kʰanʷ-a* ‘stem, stalk, stick’
429. Proto-Nostratic (n.) *\*kʰanʷ-a* ~ *\*kʰinʷ-a* ~ *\*kʰunʷ-a* ‘bee, honey’
430. Proto-Nostratic root *\*kʰaŋ-* (~ *\*kʰəŋ-*):  
 (vb.) *\*kʰaŋ-* ‘to make a noise, to sound’;  
 (n.) *\*kʰaŋ-a* ‘noise, (ringing or tinkling) sound’
431. Proto-Nostratic root *\*kʰapʰ-*:  
 (vb.) *\*kʰapʰ-* ‘to take, seize, or grasp with the hand; to press or squeeze with the hand’;  
 (n.) *\*kʰapʰ-a* ‘hand’
432. Proto-Nostratic (n.) *\*kʰapʰ-a* ‘bowl, cup, jar, container; skull’



433. Proto-Nostratic root \*k<sup>h</sup>ap'- (~ \*k<sup>h</sup>əp'-):  
 (vb.) \*k<sup>h</sup>ap'- 'to buy; to pay back';  
 (n.) \*k<sup>h</sup>ap'-a 'recompense, tribute, pay-back'
434. Proto-Nostratic root \*k<sup>h</sup>ar- (~ \*k<sup>h</sup>ər-):  
 (vb.) \*k<sup>h</sup>ar- 'to cut, to cut into, to cut off';  
 (n.) \*k<sup>h</sup>ar-a 'cut, incision'  
 Derivative:  
 (n.) \*k<sup>h</sup>ar-a 'skin, hide; bark, rind'
435. Proto-Nostratic (n.) \*k<sup>h</sup>ar-a 'skin, hide; bark, rind':  
 Derivative of:  
 (vb.) \*k<sup>h</sup>ar- 'to cut, to cut into, to cut off';  
 (n.) \*k<sup>h</sup>ar-a 'cut, incision'
436. Proto-Nostratic root \*k<sup>h</sup>ar- (~ \*k<sup>h</sup>ər-):  
 (vb.) \*k<sup>h</sup>ar- 'to twist, turn, spin, or wind around';  
 (n.) \*k<sup>h</sup>ar-a 'ring, circle, curve'; (adj.) 'round, curved, twisted'  
 Possible derivative:  
 (n.) \*k<sup>h</sup>ar-a 'edge, side, bank'
437. Proto-Nostratic (n.) \*k<sup>h</sup>ar-a 'edge, side, bank'  
 Perhaps a derivative of:  
 (vb.) \*k<sup>h</sup>ar- 'to twist, turn, spin, or wind around';  
 (n.) \*k<sup>h</sup>ar-a 'ring, circle, curve'; (adj.) 'round, curved, twisted'
438. Proto-Nostratic (n.) \*k<sup>h</sup>ar-a 'hardness, strength, firmness, fortitude'; (adj.) 'hard, strong, firm'  
 Identical to:  
 (n.) \*k<sup>h</sup>ar-a 'roughness, coarseness'; (adj.) 'rough, coarse'
439. Proto-Nostratic (n.) \*k<sup>h</sup>ar-a 'roughness, coarseness'; (adj.) 'rough, coarse'  
 Identical to:  
 (n.) \*k<sup>h</sup>ar-a 'hardness, strength, firmness, fortitude'; (adj.) 'hard, strong, firm'  
 Derivative:  
 (n.) \*k<sup>h</sup>ar-a 'bitterness, pungency, harshness'; (adj.) 'bitter, pungent, harsh, sharp, caustic, hot (of taste), acrid'
440. Proto-Nostratic (n.) \*k<sup>h</sup>ar-a 'bitterness, pungency, harshness'; (adj.) 'bitter, pungent, harsh, sharp, caustic, hot (of taste), acrid'  
 Derivative of:  
 (n.) \*k<sup>h</sup>ar-a 'roughness, coarseness'; (adj.) 'rough, coarse'
441. Proto-Nostratic (n.) \*k<sup>h</sup>ar-a 'blackness, darkness'; (adj.) 'black, dark'

442. Proto-Nostratic (n.) *\*khar-a* ‘heart, core, essence’
443. Proto-Nostratic root *\*khas-* ( $\sim$  *\*k $\partial$ s-*):  
 (vb.) *\*khas-* ‘to cut or break off, to divide, to separate’;  
 (n.) *\*khas-a* ‘cut, separation, division, break; cutting, clipping, fragment, piece, bit’
444. Proto-Nostratic root *\*kath-* ( $\sim$  *\*k $\partial$ t-*):  
 (vb.) *\*kath-* ‘to plait, to weave, to twist’;  
 (n.) *\*kath-a* ‘that which is plaited, woven, twisted: mat, net, knot’  
 Derivative:  
 (n.) *\*kath-a* ‘rag, cloth’
445. Proto-Nostratic (n.) *\*kath-a* ‘rag, cloth’:  
 Derivative of:  
 (vb.) *\*kath-* ‘to plait, to weave, to twist’;  
 (n.) *\*kath-a* ‘that which is plaited, woven, twisted: mat, net, knot’
446. Proto-Nostratic root *\*kath-*:  
 (vb.) *\*kath-* ‘to fall down, to set down, to drop down’;  
 (n.) *\*kath-a* ‘lower part, lower place, lower thing’; (adj.) ‘lower, inferior’;  
 (particle) *\*kath-* ‘down’
447. Proto-Nostratic root *\*kath-*:  
 (vb.) *\*kath-* ‘to make a harsh, shrill screech or sound: to cackle, to caw, to screech, to cry, to yelp’;  
 (n.) *\*kath-a* ‘cackling, cawing, screeching, crying, yelping’; (adj.) ‘harsh, shrill, sharp, piercing (of sounds)’
448. Proto-Nostratic root *\*kaw-* ( $\sim$  *\*k $\partial$ w-*):  
 (vb.) *\*kaw-* ‘to swell, to expand, to inflate, to grow, to increase’;  
 (n.) *\*kaw-a* ‘accumulation, inflation, expansion, growth; heap, pile; height’
449. Proto-Nostratic (n.) *\*kay-a* ‘solitude, loneliness, separateness’; (adj.) ‘alone’  
 Extended form (Afrasian and Indo-European):  
 (n.) *\*kay-w-a* ‘solitude, loneliness, separateness’; (adj.) ‘alone’
450. Proto-Nostratic root *\*kay-* ( $\sim$  *\*k $\partial$ y-*):  
 (vb.) *\*kay-* ‘to put, to place, to set, to lay; to be placed, to lie’;  
 (n.) *\*kay-a* ‘resting place, abode, dwelling; cot, bed’
451. Proto-Nostratic root *\*kay-* ( $\sim$  *\*k $\partial$ y-*):  
 (vb.) *\*kay-* ‘to be or become warm or hot; to make warm, to heat’;  
 (n.) *\*kay-a* ‘heat’

452. Proto-Nostratic root \*k<sup>h</sup>ay-:  
 (vb.) \*k<sup>h</sup>ay- ‘to scoop out’;  
 (n.) \*k<sup>h</sup>ay-a ‘spoon, ladle’  
 Extended form:  
 (vb.) \*k<sup>h</sup>ay-V-w- ‘to dig’;  
 (n.) \*k<sup>h</sup>ay-w-a ‘cave, pit, hollow’
453. Proto-Nostratic root \*k<sup>h</sup>il- (~ \*k<sup>h</sup>el-):  
 (vb.) \*k<sup>h</sup>il- ‘to make a sound or a noise; to say, to speak, to talk’;  
 (n.) \*k<sup>h</sup>il-a ‘sound, noise; tongue, speech, language’
454. Proto-Nostratic root \*k<sup>h</sup>ily- (~ \*k<sup>h</sup>ely-):  
 (vb.) \*k<sup>h</sup>ily- ‘to rise, to ascend, to lift up’;  
 (n.) \*k<sup>h</sup>ily-a ‘hill, height’; (adj.) ‘raised, high’
455. Proto-Nostratic (n.) \*k<sup>h</sup>ir-a ‘uppermost part (of anything): horn, head, skull, crown of head; tip, top, summit, peak’
456. Proto-Nostratic root \*k<sup>h</sup>ir- (~ \*k<sup>h</sup>er-):  
 (vb.) \*k<sup>h</sup>ir- ‘to freeze, to be cold’;  
 (n.) \*k<sup>h</sup>ir-a ‘frost, cold’
457. Proto-Nostratic (n.) \*k<sup>h</sup>iw-a ‘stone’
458. Proto-Nostratic root \*k<sup>h</sup>oly-:  
 (vb.) \*k<sup>h</sup>oly- ‘to tie, bind, fasten, fit, combine, or join two things together; to couple, to pair’;  
 (n.) \*k<sup>h</sup>oly-a ‘any combination of two things: couple, pair’
459. Proto-Nostratic roots \*k<sup>h</sup>on-k’-, \*k<sup>h</sup>ok’-:  
 (vb.) \*k<sup>h</sup>on-V-k’-, \*k<sup>h</sup>ok’- ‘to be bent, curved, crooked’;  
 (n.) \*k<sup>h</sup>on-k’-a, \*k<sup>h</sup>ok’-a ‘hook, clasp’; (adj.) ‘bent, curved, crooked’
460. Proto-Nostratic root \*k<sup>h</sup>ul- (~ \*k<sup>h</sup>ol-):  
 (vb.) \*k<sup>h</sup>ul- ‘to hear, to listen’;  
 (n.) \*k<sup>h</sup>ul-a ‘renown, fame; ear’  
 Possible derivative:  
 (vb.) \*k<sup>h</sup>ul- ‘to tell’;  
 (n.) \*k<sup>h</sup>ul-a ‘story, tale’
461. Proto-Nostratic root \*k<sup>h</sup>ul- (~ \*k<sup>h</sup>ol-):  
 (vb.) \*k<sup>h</sup>ul- ‘to tell’;  
 (n.) \*k<sup>h</sup>ul-a ‘story, tale’

Perhaps a derivative of:

- (vb.) \**khul-* ‘to hear, to listen’;  
 (n.) \**khul-a* ‘renown, fame; ear’

Assuming semantic development as in Greek κλέω ‘to tell of, to make famous, to celebrate’; or Pāli (causative) *sāvēti* (also *suṇāpēti*) ‘to cause to hear, to tell, to declare, to announce’ (*suṇāti* ‘to hear’); or Romany (Palestinian) *snaúár* ‘to inform’ — all ultimately from Proto-Indo-European \**kh<sup>h</sup>l-ew-/kh<sup>h</sup>l-ow-/kh<sup>h</sup>l-u-* ‘to hear’.

462. Proto-Nostratic root \**khum-*:  
 (vb.) \**khum-* ‘to heap up, to pile up, to accumulate’;  
 (n.) \**khum-a* ‘large amount, accumulation, heap; crowd, multitude’
463. Proto-Nostratic (n.) \**khum-a* ‘man, male; penis’
464. Proto-Nostratic root \**khum-* (~ \**khom-*):  
 (vb.) \**khum-* ‘to char, to blacken; to burn, to smolder; to be or become hot’;  
 (n.) \**khum-a* ‘(hot or smoldering) ashes, embers, charcoal; heat, warmth’;  
 (adj.) ‘warm, hot; glowing, smoldering; black’
465. Proto-Nostratic (n.) \**khur-a* ‘blood’
466. Proto-Nostratic (n.) \**kh<sup>h</sup>uwan-a* or \**kh<sup>h</sup>un-a* originally a generic term meaning ‘young (especially of animals)’; later specialized as ‘young dog, puppy’ (as in Kannada and Kolami within Dravidian) and then simply ‘dog’

Note: This term may be an early borrowing.

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CHAPTER 22

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PROTO-NOSTRATIC \*k'

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto- Altaic	Proto-Eskimo
k'-	k'-	k-	k'-	k'-	k-	k-	k- q-
-k'-	-k'-	-k(k)-	-k'-	-k'-	-k-	-k-	-k- -q-

467. Proto-Nostratic root *\*k'ab-* (~ *\*k'ab-*):  
 (vb.) *\*k'ab-* 'to seize, to take hold of; to seize with the teeth, to bite';  
 (n.) *\*k'ab-a* 'seizure, grasp, grip, hold; bite'
468. Proto-Nostratic root *\*k'ac<sup>h</sup>-* (~ *\*k'əc<sup>h</sup>-*):  
 (vb.) *\*k'ac<sup>h</sup>-* 'to labor, to strain; to become fatigued, exhausted, wearied (from straining, laboring)';  
 (n.) *\*k'ac<sup>h</sup>-a* 'trouble, difficulty, pain, strain'
469. Proto-Nostratic root *\*k'ač<sup>h</sup>-* (~ *\*k'əč<sup>h</sup>-*):  
 (vb.) *\*k'ač<sup>h</sup>-* 'to put, join, fasten, wrap, fold, or tie together';  
 (n.) *\*k'ač<sup>h</sup>-a* 'tie, band, knot, fastening, wrapping'
470. Proto-Nostratic root *\*k'ad-* (~ *\*k'əd-*):  
 (vb.) *\*k'ad-* 'to tie, to fasten; to build, to construct';  
 (n.) *\*k'ad-a* 'tie, band, fastening'
471. Proto-Nostratic root *\*k'ak'-* (onomatopoeic):  
 (vb.) *\*k'ak'-* 'to cackle, to chatter';  
 (n.) *\*k'ak'-a* 'crackling sound'  
 Derivative:  
 (n.) *\*k'ak'-a* (onomatopoeic bird name) 'partridge'
472. Proto-Nostratic (n.) *\*k'ak'-a* (onomatopoeic bird name) 'partridge'  
 Derivative of:  
 (vb.) *\*k'ak'-* 'to cackle, to chatter';  
 (n.) *\*k'ak'-a* 'crackling sound'
473. Proto-Nostratic root *\*k'al-* (~ *\*k'əl-*):  
 (vb.) *\*k'al-* 'to feed, to nourish';  
 (n.) *\*k'al-a* 'nourishment, sustenance, nutriment'
474. Proto-Nostratic (n.) *\*k'al-a* 'stone, rock'

475. Proto-Nostratic root *\*k'al-* (~ *\*k'əl-*):  
 (vb.) *\*k'al-* 'to take away, to remove, to deprive of; to decrease, to diminish, to reduce; to be or become reduced or diminished';  
 (n.) *\*k'al-a* 'littleness, small quantity, scarcity; few things; lack, want, poverty, deficiency, insufficiency'; (adj.) 'little, scanty, sparse, meager, insufficient, lacking, short of, wanting, needy'
476. Proto-Nostratic root *\*k'al-* (~ *\*k'əl-*):  
 (vb.) *\*k'al-* 'to burn, to warm, to cook, to roast';  
 (n.) *\*k'al-a* 'cooking, roasting, baking; glowing embers'
477. Proto-Nostratic root *\*k'al-* (~ *\*k'əl-*):  
 (vb.) *\*k'al-* 'to move, to tremble, to shake, to agitate, to stir, to mix';  
 (n.) *\*k'al-a* 'agitation, trembling, perturbation, distress, confusion, uneasiness, disturbance'
478. Proto-Nostratic root *\*k'al-* (~ *\*k'əl-*):  
 (vb.) *\*k'al-* 'to come into being, to be born';  
 (n.) *\*k'al-a* 'existence, presence, appearance, birth'
479. Proto-Nostratic root *\*k'alʷ-* (~ *\*k'əlʷ-*):  
 (vb.) *\*k'alʷ-* 'to separate, to remove, to strip off or away: to pluck, tear, or pull off or out';  
 (n.) *\*k'alʷ-a* 'separation, removal, stripping off or away, etc.'  
 Derivative:  
 (n.) *\*k'alʷ-a* 'bald spot'; (adj.) 'bald, bare'
480. Proto-Nostratic (Eurasian only) (n.) *\*k'alʷ-a* 'bald spot'; (adj.) 'bald, bare'  
 Derivative of:  
 (vb.) *\*k'alʷ-* 'to separate, to remove, to strip off or away: to pluck, tear, or pull off or out';  
 (n.) *\*k'alʷ-a* 'separation, removal, stripping off or away, etc.'
481. Proto-Nostratic root *\*k'an-* (~ *\*k'an-*):  
 (vb.) *\*k'an-* 'to get, to acquire, to create, to produce, to beget';  
 (n.) *\*k'an-a* 'birth, offspring, child, young, produce'; (adj.) 'born, begotten, produced'
482. Proto-Nostratic (n.) *\*k'an-a* 'jaw, cheek'
483. Proto-Nostratic (n.) *\*k'an-a* 'thickness, density, fatness, abundance'; (adj.) 'thick, dense, fat, abundant, much'

484. Proto-Nostratic root \*k'an- (~ \*k'an-):  
 (vb.) \*k'an- 'to pound, to beat, to strike';  
 (n.) \*k'an-a 'knock, strike, cuff, thump; mallet, club, cudgel, truncheon'
485. Proto-Nostratic root \*k'aŋ- (~ \*k'aŋ-):  
 (vb.) \*k'aŋ- 'to bend, twist, turn, or tie together';  
 (n.) \*k'aŋ-a 'wreath, rope, cord, fiber, tie, band, string'  
 Derivative:  
 (n.) \*k'aŋ-a 'knot, knob, joint'
486. Proto-Nostratic (n.) \*k'aŋ-a 'knot, knob, joint'  
 Derivative of:  
 (vb.) \*k'aŋ- 'to bend, twist, turn, or tie together';  
 (n.) \*k'aŋ-a 'wreath, rope, cord, fiber, tie, band, string'
487. Proto-Nostratic root \*k'anʷ- (~ \*k'anʷ-):  
 (vb.) \*k'anʷ- 'to observe, to perceive';  
 (n.) \*k'anʷ-a 'the act of observing, perceiving; that which observes, perceives:  
 eye; perception, observation, recognition, comprehension'
488. Proto-Nostratic (n.) \*k'apʰ-a and/or \*k'epʰ-a 'jaw, jawbone'
- Note: The Altaic cognates seem to point to Proto-Nostratic \*k'epʰ-a, while the Indo-European cognates can be derived from either \*k'apʰ-a or \*k'epʰ-a.
489. Proto-Nostratic (n.) \*k'apʰ-a 'nape of the neck, back of the head'
490. Proto-Nostratic root \*k'apʰ- (~ \*k'apʰ-):  
 (vb.) \*k'apʰ- 'to cover; to shut, to close';  
 (n.) \*k'apʰ-a 'covering'
491. Proto-Nostratic root \*k'ar- (~ \*k'ar-):  
 (vb.) \*k'ar- 'to shout, to screech, to call (out to), to cry (out)';  
 (n.) \*k'ar-a 'call, cry, invocation, proclamation; roar, lamentation'
492. Proto-Nostratic (n.) \*k'ar-a 'blackness, darkness, obscurity; dark cloud, rainy weather; dirt, grime'; (adj.) 'dark, dark-colored; dirty, soiled'
493. Proto-Nostratic root \*k'ar- (~ \*k'ar-):  
 (vb.) \*k'ar- 'to twist, to turn, to bend, to wind; to tie (together), to bind';  
 (n.) \*k'ar-a 'that which is tied or bound together: bunch, bundle'; (adj.) 'bent, curved, crooked; tied, bound'  
 Possible derivative:  
 (n.) \*k'ar-a 'protuberance, lump, hump, breast'

494. Proto-Nostratic (n.) *\*k'ar-a* 'protuberance, lump, hump, breast':  
Possibly derived from (in the sense 'curved shape, swelling'):  
(vb.) *\*k'ar-* 'to twist, to turn, to bend, to wind; to tie (together), to bind';  
(n.) *\*k'ar-a* 'that which is tied or bound together: bunch, bundle'; (adj.) 'bent, curved, crooked; tied, bound'
495. Proto-Nostratic root *\*k'ath-* (~ *\*k'əth-*):  
(vb.) *\*k'ath-* 'to add, join, bring, come, gather, or mix together';  
(n.) *\*k'ath-a* 'blend, mixture, conglomeration, gathering'
496. Proto-Nostratic root *\*k'aw-* (~ *\*k'əw-*):  
(vb.) *\*k'aw-* 'to bend, twist, curve, or turn round; to rotate';  
(n.) *\*k'aw-a* 'any round object'; (adj.) 'bent, curved, round'
497. Proto-Nostratic root *\*k'aw-* (~ *\*k'əw-*):  
(vb.) *\*k'aw-* 'to take, to seize, to grasp, to hold';  
(n.) *\*k'aw-a* 'hand'
498. Proto-Nostratic (Eurasianic only) (n.) *\*k'el-a* 'female in-law: husband's sister, sister-in-law; daughter-in-law'  
Note also:  
(n.) *\*k'hal-a* 'female in-law'
499. Proto-Nostratic (n.) *\*k'enʷ-a* 'knot, joint'
500. Proto-Nostratic root *\*k'ep'-*:  
(vb.) *\*k'ep'-* 'to cut, chop, split, or break into small pieces; to munch, to chew';  
(n.) *\*k'ep'-a* 'the act of cutting, chopping, splitting, or breaking into small pieces, the act of mincing; chewing (the cud), rumination'
501. Proto-Nostratic root (Eurasianic only) *\*k'er-*:  
(vb.) *\*k'er-* 'to decay, to wear out, to wither, to waste away, to become old';  
(n.) *\*k'er-a* 'old age, old person'; (adj.) 'decayed, worn out, withered, wasted, old'
502. Proto-Nostratic root *\*k'er-*:  
(vb.) *\*k'er-* 'to gather, to collect; to take a handful, to pick, to pluck';  
(n.) *\*k'er-a* 'collection, gathering, handful'



503. Proto-Nostratic root *\*k'ir-* (~ *\*k'er-*) or *\*k'ur-* (~ *\*k'or-*):  
 (vb.) *\*k'ir-* or *\*k'ur-* 'to cut, to cut into, to incise, to engrave, to notch; to cut off, to sever, to nip off, to clip; to cut in two, to split';  
 (n.) *\*k'ir-a* or *\*k'ur-a* 'cut, slit, notch; chip, piece cut off'
504. Proto-Nostratic (Eurasianic only) (n.) *\*k'om-a* 'hand, fist'  
 Perhaps related to:  
 (vb.) *\*k'um-* 'to seize, to grasp, to press together';  
 (n.) *\*k'um-a* 'heap, mass, lump, clump; pressure, compression'
505. Proto-Nostratic (n.) *\*k'or-a* or *\*k'ar-a* 'crane'
506. Proto-Nostratic (n.) *\*k'os-a* 'bone'
507. Proto-Nostratic root *\*k'ud-* (~ *\*k'od-*):  
 (vb.) *\*k'ud-* 'to strike';  
 (n.) *\*k'ud-a* 'stroke, blow, knock, cuff, thump'
508. Proto-Nostratic (n.) *\*k'ud-a* (~ *\*k'od-a*) 'vessel, pot'
509. Proto-Nostratic (n.) *\*k'ug-n-a* (~ *\*k'og-n-a*) 'gnat, mosquito'
510. Proto-Nostratic root *\*k'ul-* (~ *\*k'ol-*):  
 (vb.) *\*k'ul-* 'to lift, to raise, to pick up; to rise, to ascend; to make high, to elevate';  
 (n.) *\*k'ul-a* 'highest point'
511. Proto-Nostratic root *\*k'ulʷ-* (~ *\*k'olʷ-*):  
 (vb.) *\*k'ulʷ-* 'to be or become cold; to freeze';  
 (n.) *\*k'ulʷ-a* 'cold, coldness, chill, frost'
512. Proto-Nostratic root *\*k'um-* (~ *\*k'om-*):  
 (vb.) *\*k'um-* 'to sigh, to weep, to lament, to moan, to groan';  
 (n.) *\*k'um-a* 'sigh, mourning, lamentation, moan, groan, roar, grumble'
513. Proto-Nostratic root *\*k'um-* (~ *\*k'om-*):  
 (vb.) *\*k'um-* 'to seize, to grasp, to press together';  
 (n.) *\*k'um-a* 'heap, mass, lump, clump; pressure, compression'  
 Perhaps related to:  
 (n.) *\*k'om-a* 'hand, fist'

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514. Proto-Nostratic root *\*k'um-* (~ *\*k'om-*):  
(vb.) *\*k'um-* 'to bend, to curve; to bend the head or body, to bow or stoop down';  
(n.) *\*k'um-a* 'bend, curve; the act of bending, bowing, stooping'  
Identical to:  
(n.) *\*k'um-a* 'a bent or curved object: hollow, cavity; knob, lump, hump; etc.'
515. Proto-Nostratic (n.) *\*k'um-a* 'a bent or curved object: hollow, cavity; knob, lump, hump; etc.':  
Identical to:  
(vb.) *\*k'um-* 'to bend, to curve; to bend the head or body, to bow or stoop down';  
(n.) *\*k'um-a* 'bend, curve; the act of bending, bowing, stooping'
516. Proto-Nostratic root *\*k'un-* (~ *\*k'on-*):  
(vb.) *\*k'un-* 'to bend; to bend or fold together; to tie or bind together';  
(n.) *\*k'un-a* 'that which is bent, folded, crooked, curved, hooked: bend, fold, curve, curvature, angle, wrinkle'
517. Proto-Nostratic (n.) *\*k'uy-a* 'buttocks, rump, anus'
518. Proto-Nostratic (n.) *\*k'ut'-a* 'shortness, smallness'; (adj.) 'short, small'

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CHAPTER 23

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PROTO-NOSTRATIC \*g<sup>w</sup>

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
g <sup>w</sup> -	g <sup>w</sup> -	k-	gw/u-	g <sup>wh</sup> -	k-	g-	k- q-
-g <sup>w</sup> -	-g <sup>w</sup> -	-k-	-gw/u-	-g <sup>wh</sup> -	-x-	-g-	-ɣ-

519. Proto-Nostratic (n.) \*g<sup>w</sup>al-a ‘snake’
520. Proto-Nostratic root \*g<sup>w</sup>an- (~ \*g<sup>w</sup>ən-):  
 (vb.) \*g<sup>w</sup>an- ‘to hit, to strike, to slay, to kill, to wound, to harm, to injure’;  
 (n.) \*g<sup>w</sup>an-a ‘strike, harm, injury’
521. Proto-Nostratic root \*g<sup>w</sup>an- (~ \*g<sup>w</sup>ən-):  
 (vb.) \*g<sup>w</sup>an- ‘to swell, to abound’;  
 (n.) \*g<sup>w</sup>an-a ‘swelling, abundance, large quantity, prosperity’
522. Proto-Nostratic root \*g<sup>w</sup>ar- (~ \*g<sup>w</sup>ər-):  
 (vb.) \*g<sup>w</sup>ar- ‘to turn, to twist, to wind, to wrap, to roll’;  
 (n.) \*g<sup>w</sup>ar-a ‘any round or circular object’; (adj.) ‘rolling, round, bent, twisted, turned’
523. Proto-Nostratic root \*g<sup>w</sup>ir- (~ \*g<sup>w</sup>er-):  
 (vb.) \*g<sup>w</sup>ir- ‘to be or become hot, to warm’;  
 (n.) \*g<sup>w</sup>ir-a ‘heat, fire’



CHAPTER 24

PROTO-NOSTRATIC \*k<sup>wh</sup>

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
k <sup>wh</sup> -	k <sup>w</sup> -	k-	kw/u-	k <sup>wh</sup> -	k-	k <sup>h</sup> -	k- q-
-k <sup>wh</sup> -	-k <sup>w</sup> -	-k(k)-	-kw/u-	-k <sup>wh</sup> -	-k(k)-	-k <sup>h</sup> -	-k(k)- -q(q)-

524. Proto-Nostratic post-positional intensifying and conjoining particle \*k<sup>wh</sup>a- (~ \*k<sup>wh</sup>ə-)
525. Proto-Nostratic root \*k<sup>wh</sup>al- (~ \*k<sup>wh</sup>əl-):  
 (vb.) \*k<sup>wh</sup>al- ‘to go, to walk, to move about’;  
 (n.) \*k<sup>wh</sup>al-a ‘walking, walk, wandering, roaming’  
 Probably identical to:  
 (vb.) \*k<sup>wh</sup>al- ‘to revolve, to go around, to roll’;  
 (n.) \*k<sup>wh</sup>al-a ‘circle, circuit’
526. Proto-Nostratic root \*k<sup>wh</sup>al- (~ \*k<sup>wh</sup>əl-):  
 (vb.) \*k<sup>wh</sup>al- ‘to revolve, to go around, to roll’;  
 (n.) \*k<sup>wh</sup>al-a ‘circle, circuit’  
 Probably identical to:  
 (vb.) \*k<sup>wh</sup>al- ‘to go, to walk, to move about’;  
 (n.) \*k<sup>wh</sup>al-a ‘walking, walk, wandering, roaming’  
 Derivative:  
 (n.) \*k<sup>wh</sup>al-a ‘that which turns, rolls, revolves, or goes round and round’ (> ‘wheel’ in the daughter languages)
527. Proto-Nostratic (n.) \*k<sup>wh</sup>al-a ‘that which turns, rolls, revolves, or goes round and round’ (> ‘wheel’ in the daughter languages)  
 Derivative of:  
 (vb.) \*k<sup>wh</sup>al- ‘to revolve, to go around, to roll’;  
 (n.) \*k<sup>wh</sup>al-a ‘circle, circuit’
528. Proto-Nostratic root \*k<sup>wh</sup>al- (~ \*k<sup>wh</sup>əl-):  
 (vb.) \*k<sup>wh</sup>al- ‘to end, to come to an end; to bring to an end, to complete, to finish’;  
 (n.) \*k<sup>wh</sup>al-a ‘end, finish, completion, fulfillment’
529. Proto-Nostratic (Eurasianic only) (adv.) (?) \*k<sup>wh</sup>al- ‘far off, far away, distant’
530. Proto-Nostratic (n.) \*k<sup>wh</sup>al-a ‘a large fish’

Note: The Indo-European evidence requires the reconstruction of a Proto-Nostratic initial labiovelar \*/k<sup>wh</sup>-/.

531. Proto-Nostratic (n.) \*k<sup>wh</sup>al-a ‘dog’  
 Extended form:  
 (n.) \*k<sup>wh</sup>al-p’-a ‘dog’
532. Proto-Nostratic root \*k<sup>wh</sup>ar- (~ \*k<sup>wh</sup>ar-):  
 (vb.) \*k<sup>wh</sup>ar- ‘to cut’;  
 (n.) \*k<sup>wh</sup>ar-a ‘piece cut off; knife’  
 Derivatives:  
 (vb.) \*k<sup>wh</sup>ar- ‘to cut a groove, to hollow out, to dig’;  
 (n.) \*k<sup>wh</sup>ar-a ‘cut, hole, hollow, digging, excavation, pit, groove, trench’  
 (vb.) \*k<sup>wh</sup>ar- ‘to cut short, to reduce, to decrease, to diminish, to lessen’;  
 (n.) \*k<sup>wh</sup>ar-a ‘shortness’; (adj.) ‘short’
533. Proto-Nostratic root \*k<sup>wh</sup>ar- (~ \*k<sup>wh</sup>ar-):  
 (vb.) \*k<sup>wh</sup>ar- ‘to cut a groove, to hollow out, to dig’;  
 (n.) \*k<sup>wh</sup>ar-a ‘cut, hole, hollow, digging, excavation, pit, groove, trench’  
 Derivative of:  
 (vb.) \*k<sup>wh</sup>ar- ‘to cut’;  
 (n.) \*k<sup>wh</sup>ar-a ‘piece cut off; knife’
534. Proto-Nostratic root \*k<sup>wh</sup>ar- (~ \*k<sup>wh</sup>ar-):  
 (vb.) \*k<sup>wh</sup>ar- ‘to cut short, to reduce, to decrease, to diminish, to lessen’;  
 (n.) \*k<sup>wh</sup>ar-a ‘shortness’; (adj.) ‘short’  
 Derivative of:  
 (vb.) \*k<sup>wh</sup>ar- ‘to cut’;  
 (n.) \*k<sup>wh</sup>ar-a ‘piece cut off; knife’
535. Proto-Nostratic (n.) \*k<sup>wh</sup>ar-a ‘vessel, pot’
536. Proto-Nostratic root \*k<sup>wh</sup>ar- (~ \*k<sup>wh</sup>ar-):  
 (vb.) \*k<sup>wh</sup>ar- ‘to procure’;  
 (n.) \*k<sup>wh</sup>ar-a ‘payment, procurement’
537. Proto-Nostratic root \*k<sup>wh</sup>ath- (~ \*k<sup>wh</sup>ath-):  
 (vb.) \*k<sup>wh</sup>ath- ‘to move rapidly, to shake’;  
 (n.) \*k<sup>wh</sup>ath-a ‘rapid movement, shaking’
538. Proto-Nostratic (particle) \*k<sup>wh</sup>ay- ‘when, as, though, also’  
 Possibly derived from:  
 Relative pronoun stem \*k<sup>wh</sup>i-; interrogative pronoun stem \*k<sup>wh</sup>a-

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539. Proto-Nostratic root \*k<sup>wh</sup>ey-:  
(vb.) \*k<sup>wh</sup>ey- ‘to repay in kind, to return an equal measure’;  
(n.) \*k<sup>wh</sup>ey-a ‘payment, repayment’
540. Proto-Nostratic root \*k<sup>wh</sup>ey-:  
(vb.) \*k<sup>wh</sup>ey- ‘to do, to make, to create; to form, to fashion’;  
(n.) \*k<sup>wh</sup>ey-a ‘act, deed, creation’
541. Proto-Nostratic relative pronoun stem \*k<sup>wh</sup>i- (~ \*k<sup>wh</sup>e-); interrogative pronoun stem \*k<sup>wh</sup>a- (~ \*k<sup>wh</sup>ǝ-)
542. Proto-Nostratic root \*k<sup>wh</sup>ir- (~ \*k<sup>wh</sup>er-):  
(vb.) \*k<sup>wh</sup>ir- ‘to twist or twine together, to tie together, to bind, to fasten’;  
(n.) \*k<sup>wh</sup>ir-a ‘twist, tie, bundle, rope; the act of twisting or twining together: work, craft, act, action’
543. Proto-Nostratic (n.) (?) \*k<sup>wh</sup>ur-a ‘body, belly’
544. Proto-Nostratic (n.) \*k<sup>wh</sup>ur-a ‘worm, grub, maggot, insect’





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CHAPTER 25

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PROTO-NOSTRATIC \*k'w

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
k'w-	k'w-	k-	k'w/u-	k'w-	k-	k-	k- q-
-k'w-	-k'w-	-k(k)-	-k'w/u-	-k'w-	-k-	-k-	-k- -q-

545. Proto-Nostratic root *\*k'wad-* (~ *\*k'wad-*):  
 (vb.) *\*k'wad-* 'to strike, to beat, to smash, to pound';  
 (n.) *\*k'wad-a* 'knock, stroke, thrust'  
 Note also:  
 (vb.) *\*k'wed-* 'to destroy, to damage, to ruin; to decay, to rot, to spoil';  
 (n.) *\*k'wed-a* 'death, destruction, damage, ruin, decay'
546. Proto-Nostratic (n.) *\*k'wad-a* 'hind part, end, tail'
547. Proto-Nostratic root *\*k'wah-* (~ *\*k'wah-*):  
 (vb.) *\*k'wah-* 'to hit, to strike, to beat, to pound; to push or press in';  
 (n.) *\*k'wah-a* 'club, cudgel'; (adj.) 'hit, beaten, pounded, pushed or pressed together, crammed, filled'
548. Proto-Nostratic root *\*k'wal-* (~ *\*k'wal-*):  
 (vb.) *\*k'wal-* 'to go: to go away from, to go after or behind';  
 (n.) *\*k'wal-a* 'track, way'
549. Proto-Nostratic root *\*k'wal-* (~ *\*k'wal-*):  
 (vb.) *\*k'wal-* 'to gush forth, to overflow; to flow, to leak, to ooze, to drip, to trickle';  
 (n.) *\*k'wal-a* 'gush, flow, drip, trickle; river, stream, spring'
550. Proto-Nostratic root *\*k'wam-* (~ *\*k'wam-*):  
 (vb.) *\*k'wam-* 'to burn slowly, to smolder; to be hot, to be red-hot, to be glowing; to smoke';  
 (n.) *\*k'wam-a* 'embers, ashes; heat; smoke'

551. Proto-Nostratic root *\*k<sup>w</sup>an-* (~ *\*k<sup>w</sup>ən-*):  
 (vb.) *\*k<sup>w</sup>an-* ‘to suckle, to nurse; to suck’;  
 (n.) *\*k<sup>w</sup>an-a* ‘udder, bosom, breast’  
 Derivative:  
 (n.) *\*k<sup>w</sup>an-a* ‘woman, wife’
552. Proto-Nostratic (Eurasianic only) (n.) *\*k<sup>w</sup>an-a* ‘woman, wife’  
 Derivative of:  
 (vb.) *\*k<sup>w</sup>an-* ‘to suckle, to nurse; to suck’;  
 (n.) *\*k<sup>w</sup>an-a* ‘udder, bosom, breast’
- Semantic development as in Latin *fēmina* ‘female, woman’ from the same root as in *fēlō* ‘to suck’, hence, ‘one who gives suck’.
553. Proto-Nostratic root *\*k<sup>w</sup>ar-* (~ *\*k<sup>w</sup>ər-*):  
 (vb.) *\*k<sup>w</sup>ar-* ‘to be cold’;  
 (n.) *\*k<sup>w</sup>ar-a* ‘cold, coldness’
554. Proto-Nostratic root *\*k<sup>w</sup>ar-* (~ *\*k<sup>w</sup>ər-*):  
 (vb.) *\*k<sup>w</sup>ar-* ‘to rest, to stay, to remain’;  
 (n.) *\*k<sup>w</sup>ar-a* ‘stillness, quietude, repose, rest, resting place’; (adj.) ‘still, quiet, at rest’
555. Proto-Nostratic root *\*k<sup>w</sup>ar-* (~ *\*k<sup>w</sup>ər-*):  
 (vb.) *\*k<sup>w</sup>ar-* ‘to crush, to grind’;  
 (n.) *\*k<sup>w</sup>ar-a* ‘grinding pestle, grinding stone; stone, rock’
556. Proto-Nostratic (n.) *\*k<sup>w</sup>ar-b-a* ‘the inside, the middle, interior, inward part’
557. Proto-Nostratic root *\*k<sup>w</sup>ar<sup>y</sup>-* (~ *\*k<sup>w</sup>ər<sup>y</sup>-*):  
 (vb.) *\*k<sup>w</sup>ar<sup>y</sup>-* ‘to thunder, to rumble’;  
 (n.) *\*k<sup>w</sup>ar<sup>y</sup>-a* ‘rain, storm, stormy weather, thunderstorm’
558. Proto-Nostratic root *\*k<sup>w</sup>as-* (~ *\*k<sup>w</sup>əs-*):  
 (vb.) *\*k<sup>w</sup>as-* ‘to strike fire, to put out (fire)’;  
 (n.) *\*k<sup>w</sup>as-a* ‘spark, fire’
559. Proto-Nostratic root *\*k<sup>w</sup>as-* (~ *\*k<sup>w</sup>əs-*) (onomatopoeic):  
 (vb.) *\*k<sup>w</sup>as-* ‘to sigh, to moan, to groan; to whisper, to murmur, to mumble’;  
 (n.) *\*k<sup>w</sup>as-a* ‘sigh, moan, groan, whisper, murmur, mumble’
560. Proto-Nostratic root *\*k<sup>w</sup>at’-* (~ *\*k<sup>w</sup>ət’-*):  
 (vb.) *\*k<sup>w</sup>at’-* ‘to burn, to smolder, to smoke’;  
 (n.) *\*k<sup>w</sup>at’-a* ‘burning, heat, smoke’

561. Proto-Nostratic root \*k'wat'- (~ \*k'wət'-):  
(vb.) \*k'wat'- 'to cut';  
(n.) \*k'wat'-a 'knife, cutting instrument'; (adj.) 'sharp'
562. Proto-Nostratic root \*k'wed-:  
(vb.) \*k'wed- 'to destroy, to damage, to ruin; to decay, to rot, to spoil';  
(n.) \*k'wed-a 'death, destruction, damage, ruin, decay'  
Note also:  
(vb.) \*k'wad- 'to strike, to beat, to smash, to pound';  
(n.) \*k'wad-a 'knock, stroke, thrust'
563. Proto-Nostratic root \*k'wiy- (~ \*k'wey-):  
(vb.) \*k'wiy- 'to be putrid, purulent';  
(n.) \*k'wiy-a 'pus'
564. Proto-Nostratic (n.) \*k'wow-a 'bullock, ox, cow'
565. Proto-Nostratic (Eurasian only) (n.) \*k'woy-a 'outer covering: skin, hide, leather; bark (of a tree), shell, crust'
566. Proto-Nostratic root \*k'wury- (~ \*k'wory-):  
(vb.) \*k'wury- 'to be heavy, weighty, solid, bulky';  
(n.) \*k'wury-a 'heaviness, weight, solidity, thickness'; (adj.) 'heavy, weighty, solid, bulky'



CHAPTER 26

PROTO-NOSTRATIC \*G

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
g-	g- (?)	k-	g-	g <sup>h</sup> -	k-	g-	k- q-
-g-	-g- (?)	-k-	-g-	-g <sup>h</sup> -	-x-	-g-	-ɣ-

567. Proto-Nostratic root \**gad-* (~ \**gəd-*):  
 (vb.) \**gad-* ‘to make a loud sound or loud noise’;  
 (n.) \**gad-a* ‘loud noise, clap of thunder, loud clatter, loud rumble’  
 Reduplicated (Semitic and Dravidian):  
 (vb.) \**gad-gad-* ‘to make a loud sound or loud noise’;  
 (n.) \**gad-gad-a* ‘loud noise, clap of thunder, loud clatter, loud rumble’
568. Proto-Nostratic root \**gal-* (~ \**gəl-*):  
 (vb.) \**gal-* ‘to come, to go’;  
 (n.) \**gal-a* ‘the act of coming or going; trip, voyage’
569. Proto-Nostratic root \**gal-* (~ \**gəl-*):  
 (vb.) \**gal-* ‘to flow’;  
 (n.) \**gal-a* ‘ravine, gully, watercourse, river’
570. Proto-Nostratic root \**gal-* (~ \**gəl-*):  
 (vb.) \**gal-* ‘to stir up, to agitate, to disturb; to be stirred up, agitated, disturbed’;  
 (n.) \**gal-a* ‘agitation, disturbance, perturbation; quarrel, fight, battle’
571. Proto-Nostratic root \**gam-* (~ \**gəm-*):  
 (vb.) \**gam-* ‘to gather together, to bring together, to put together, to join together, to come together, to do together’;  
 (n.) \**gam-a* ‘gathering, collection, crowd, multitude, throng’
572. Proto-Nostratic root \**gar-* (~ \**gər-*):  
 (vb.) \**gar-* ‘to mutter, to groan, to grumble, to howl, to roar’;  
 (n.) \**gar-a* ‘groan, howl, murmur, roar, cry’  
 Reduplicated (Semitic and Kartvelian):  
 (vb.) \**gar-gar-* ‘to mutter, to groan, to grumble, to howl, to roar’;  
 (n.) \**gar-gar-a* ‘groan, howl, murmur, roar, cry’

573. Proto-Nostratic root *\*gar-* (~ *\*gər-*):  
 (vb.) *\*gar-* ‘to crush, to grate, to grind; to melt, to dissolve’;  
 (n.) *\*gar-a* ‘the act of crushing, grating, grinding’; (adj.) ‘crushed, grated, ground, dissolved, melted, softened’
574. Proto-Nostratic root *\*gar-* (~ *\*gər-*):  
 (vb.) *\*gar-* ‘to dig, to dig up, to dig out’;  
 (n.) *\*gar-a* ‘that which is used to dig: spade; that which is dug (out): furrow, ditch, gutter, canal’
575. Proto-Nostratic (n.) *\*gar<sup>y</sup>-a* ‘stick, staff, rod, pole, stalk, stem’
576. Proto-Nostratic (n.) *\*gar<sup>y</sup>-a* ‘wildfowl, wild goose’  
 Reduplicated:  
 (n.) *\*gar<sup>y</sup>-gar<sup>y</sup>-a* ‘wildfowl, wild goose’
577. Proto-Nostratic root *\*gat<sup>y</sup>-* (~ *\*gət<sup>y</sup>-*):  
 (vb.) *\*gat<sup>y</sup>-* ‘to bite’;  
 (n.) *\*gat<sup>y</sup>-a* ‘bite’; (adj.) ‘biting, sharp, bitter’  
 Derivative:  
 (n.) *\*gat<sup>y</sup>-a* ‘jaw, chin’
578. Proto-Nostratic (n.) *\*gat<sup>y</sup>-a* ‘jaw, chin’  
 Derivative of:  
 (vb.) *\*gat<sup>y</sup>-* ‘to bite’;  
 (n.) *\*gat<sup>y</sup>-a* ‘bite’; (adj.) ‘biting, sharp, bitter’
579. Proto-Nostratic root *\*ger-*:  
 (vb.) *\*ger-* ‘to stretch out the hand, to raise one’s hand’;  
 (n.) *\*ger-a* ‘the act of stretching out or raising one’s hand’
580. Proto-Nostratic root (Eurasian only) *\*gil-* (~ *\*gel-*):  
 (vb.) *\*gil-* ‘to shine, to glisten’;  
 (n.) *\*gil-a* ‘brilliance, shine’; (adj.) ‘shining, glistening, gleaming, brilliant’
581. Proto-Nostratic root *\*git’-* (~ *\*get’-*):  
 (vb.) *\*git’-* ‘to tickle’;  
 (n.) *\*git’-a* ‘armpit’
582. Proto-Nostratic root *\*gub-* (~ *\*gob-*):  
 (vb.) *\*gub-* ‘to bend, to twist’;  
 (n.) *\*gub-a* ‘that which is twisted, bent, curved: hunch, wattle’

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CHAPTER 27

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PROTO-NOSTRATIC \*q<sup>h</sup>

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
q <sup>h</sup> -	q- (?)	k-	q-	k <sup>h</sup> -	k-	k <sup>h</sup> -	k- q-
-q <sup>h</sup> -	-q- (?)	-k(k)-	-q-	-k <sup>h</sup> -	-k(k)-	-k <sup>h</sup> -	-k(k)- -q(q)-

583. Proto-Nostratic root \*q<sup>h</sup>ad- (~ \*q<sup>h</sup>əd-):  
 (vb.) \*q<sup>h</sup>ad- ‘to move, to put in motion, to be in motion’;  
 (n.) \*q<sup>h</sup>ad-a ‘way, path, direction, passage; movement, motion; hard work, diligence’
584. Proto-Nostratic root \*q<sup>h</sup>al- (~ \*q<sup>h</sup>əl-):  
 (vb.) \*q<sup>h</sup>al- ‘to strike, to split, to cut, to wound, to injure’;  
 (n.) \*q<sup>h</sup>al-a ‘stroke, blow, wound, cut, slash, damage, injury’
585. Proto-Nostratic root \*q<sup>h</sup>am- (~ \*q<sup>h</sup>əm-):  
 (vb.) \*q<sup>h</sup>am- ‘to cover, to conceal’;  
 (n.) \*q<sup>h</sup>am-a ‘covering’
586. Proto-Nostratic root \*q<sup>h</sup>arʸ- (~ \*q<sup>h</sup>ərʸ-):  
 (vb.) \*q<sup>h</sup>arʸ- ‘to make a rasping sound, to be hoarse; to creak, to croak’;  
 (n.) \*q<sup>h</sup>arʸ-a ‘neck, throat’
587. Proto-Nostratic root \*q<sup>h</sup>at<sup>h</sup>- (~ \*q<sup>h</sup>ət<sup>h</sup>-):  
 (vb.) \*q<sup>h</sup>at<sup>h</sup>- ‘to beat, to strike, to fight’;  
 (n.) \*q<sup>h</sup>at<sup>h</sup>-a ‘anger, fury, wrath, spite; fight, battle, quarrel; killing, slaughter’
588. Proto-Nostratic root \*q<sup>h</sup>oc<sup>h</sup>-:  
 (vb.) \*q<sup>h</sup>oc<sup>h</sup>- ‘to take off, to take away, to remove’ (> ‘to remove by wiping, sweeping, rubbing, peeling, pulling or tearing off, etc.’);  
 (n.) \*q<sup>h</sup>oc<sup>h</sup>-a ‘the act of removing; that which has been removed’ (> ‘rubbish, refuse, sweepings, etc.’)





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CHAPTER 28

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PROTO-NOSTRATIC \*q'

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
q'-	q'-(?)	k-	q'-	k'-	k-	k-	k- q-
-q'-	-q'-(?)	-k(k)-	-q'-	-k'-	-k-	-k-	-k- -q-

589. Proto-Nostratic (n.) \*q'ab-a 'jaw'
590. Proto-Nostratic root \*q'al- (~ \*qəl-) or \*q'el-:  
 (vb.) \*q'al- or \*q'el- 'to glitter, to sparkle, to shine, to be or become bright; to make bright';  
 (n.) \*q'al-a or \*q'el-a 'any bright, shining object: star'
591. Proto-Nostratic (n.) \*q'alv-a 'sexual organs, genitals, private parts (male or female)'
592. Proto-Nostratic root \*q'am- (~ \*q'əm-):  
 (vb.) \*q'am- 'to crush, to grind; to chew, to bite, to eat';  
 (n.) \*q'am-a 'bite; tooth'
593. Proto-Nostratic (n.) \*q'an-a 'field, land, (open) country'
594. Proto-Nostratic root \*q'arv- (~ \*q'ərṽ-):  
 (vb.) \*q'arv- 'to rot, to stink';  
 (n.) \*q'arv-a 'rotten, stinking, putrid thing'; (adj.) 'rotten, stinking, putrid'
595. Proto-Nostratic (n.) \*q'aw-a 'head, forehead, brow'
596. Proto-Nostratic root \*q'el-:  
 (vb.) \*q'el- 'to swallow';  
 (n.) \*q'el-a 'neck, throat'
597. Proto-Nostratic root \*q'in- (~ \*q'en-):  
 (vb.) \*q'in- 'to freeze, to be or become cold';  
 (n.) \*q'in-a 'cold, frost'



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CHAPTER 29

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PROTO-NOSTRATIC \* $G^w$

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaiic	Proto-Eskimo
$G^w$ -	$g^w$ -	k-	gw/u-	$g^{wh}$ -	k-	g-	k- q-
- $G^w$ -	- $g^w$ -	-k-	-gw/u-	- $g^{wh}$ -	-x-	-g-	- $\gamma$ -

598. Proto-Nostratic root \* $G^wal$ - (~ \* $G^w\partial l$ -):  
 (vb.) \* $G^wal$ - ‘to curve, to bend, to roll; to be round’;  
 (n.) \* $G^wal$ -a ‘round object: circle, globe, sphere, ball, etc.’  
 Derivative:  
 (n.) \* $G^wal$ -a ‘head, skull’
599. Proto-Nostratic (n.) \* $G^wal$ -a ‘head, skull’  
 Derivative of:  
 (vb.) \* $G^wal$ - ‘to curve, to bend, to roll; to be round’;  
 (n.) \* $G^wal$ -a ‘round object: circle, globe, sphere, ball, etc.’



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CHAPTER 30

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PROTO-NOSTRATIC \*q<sup>w</sup>

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
q <sup>w</sup> -	q <sup>w</sup> - (?)	k-	q <sup>w</sup> /u-	k <sup>w</sup> -	k-	k-	k- q-
-q <sup>w</sup> -	-q <sup>w</sup> - (?)	-k(k)-	-q <sup>w</sup> /u-	-k <sup>w</sup> -	-k-	-k-	-k- -q-

600. Proto-Nostratic root \*q<sup>w</sup>ad- (~ \*q<sup>w</sup>əd-):  
 (vb.) \*q<sup>w</sup>ad- ‘to abide, to dwell; to relax, to rest, to be or become calm’;  
 (n.) \*q<sup>w</sup>ad-a ‘dwelling, abode, house’
601. Proto-Nostratic root \*q<sup>w</sup>al- (~ \*q<sup>w</sup>əl-):  
 (vb.) \*q<sup>w</sup>al- ‘to call (out), to cry (out), to shout’;  
 (n.) \*q<sup>w</sup>al-a ‘call, cry, outcry, sound, noise, hubbub, uproar’
602. Proto-Nostratic root \*q<sup>w</sup>al- (~ \*q<sup>w</sup>əl-):  
 (vb.) \*q<sup>w</sup>al- ‘to strike, to hit, to cut, to hurt, to wound, to slay, to kill’;  
 (n.) \*q<sup>w</sup>al-a ‘killing, murder, manslaughter, destruction, death’  
 Probably identical to:  
 (vb.) \*q<sup>w</sup>al- ‘to throw, to hurl’;  
 (n.) \*q<sup>w</sup>al-a ‘sling, club; throwing, hurling’
603. Proto-Nostratic root \*q<sup>w</sup>al- (~ \*q<sup>w</sup>əl-):  
 (vb.) \*q<sup>w</sup>al- ‘to throw, to hurl’;  
 (n.) \*q<sup>w</sup>al-a ‘sling, club; throwing, hurling’  
 Probably identical to:  
 (vb.) \*q<sup>w</sup>al- ‘to strike, to hit, to cut, to hurt, to wound, to slay, to kill’;  
 (n.) \*q<sup>w</sup>al-a ‘killing, murder, manslaughter, destruction, death’
604. Proto-Nostratic (n.) \*q<sup>w</sup>ar-a ‘edge, point, tip, peak’
605. Proto-Nostratic root \*q<sup>w</sup>ar- (~ \*q<sup>w</sup>ər-) or \*q<sup>w</sup>ur- (~ \*q<sup>w</sup>or-):  
 (vb.) \*q<sup>w</sup>ar- or \*q<sup>w</sup>ur- ‘to call out, to cry out’;  
 (n.) \*q<sup>w</sup>ar-a or \*q<sup>w</sup>ur-a ‘call, cry, shout’
606. Proto-Nostratic root \*q<sup>w</sup>ar<sup>y</sup>- (~ \*q<sup>w</sup>ər<sup>y</sup>-) or \*q<sup>w</sup>ur<sup>y</sup>- (~ \*q<sup>w</sup>or<sup>y</sup>-):  
 (vb.) \*q<sup>w</sup>ar<sup>y</sup>- or \*q<sup>w</sup>ur<sup>y</sup>- ‘to hear’;  
 (n.) \*q<sup>w</sup>ar<sup>y</sup>-a or \*q<sup>w</sup>ur<sup>y</sup>-a ‘ear’

607. Proto-Nostratic root (Eurasian only) *\*q<sup>w</sup>at<sup>yh</sup>-* (~ *\*q<sup>w</sup>ət<sup>yh</sup>-*):  
(vb.) *\*q<sup>w</sup>at<sup>yh</sup>-* ‘to say, to speak, to call’;  
(n.) *\*q<sup>w</sup>at<sup>yh</sup>-a* ‘call, invocation, invitation, summons’
608. Proto-Nostratic root *\*q<sup>w</sup>ur-* (~ *\*q<sup>w</sup>or-*):  
(vb.) *\*q<sup>w</sup>ur-* ‘to swallow’;  
(n.) *\*q<sup>w</sup>ur-a* ‘neck, throat’

CHAPTER 31

PROTO-NOSTRATIC \*tʰ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
tʰ-	tʰ-	c-	x-	kʰ-	sʸ-	š-	ʈ-
-tʰ-	-tʰ-	-k-	-x-	-kʰ-	-δ- (?)		-ʈ-

609. Proto-Nostratic (n.) \*tʰah-a ‘(young) sheep or goat’
610. Proto-Nostratic root \*tʰakʷh- (~ \*tʰəkʷh-):  
 (vb.) \*tʰakʷh- ‘to prick, to pierce, to stab’;  
 (n.) \*tʰakʷh-a ‘stab, thrust, jab; thorn, spike, prong, barb’
611. Proto-Nostratic root \*tʰhal- (~ \*tʰəl-):  
 (vb.) \*tʰhal- ‘to cut, split, or break open’;  
 (n.) \*tʰhal-a ‘slit, crack’
612. Proto-Nostratic root \*tʰhar- (~ \*tʰər-):  
 (vb.) \*tʰhar- ‘to cause harm, to injure, to cause strife’;  
 (n.) \*tʰhar-a ‘injury, harm, strife’
613. Proto-Nostratic root \*tʰhar- (~ \*tʰər-):  
 (vb.) \*tʰhar- ‘to cut, to cut into’;  
 (n.) \*tʰhar-a ‘cut, slit, slice, slash; that which cuts: saw, knife, axe’  
 Extended form:  
 (vb.) \*tʰhar-V-t’- ‘to make incisions, to cut into’;  
 (n.) \*tʰhar-t’-a ‘scratch, incision’
614. Proto-Nostratic root \*tʰhar- (~ \*tʰər-):  
 Extended form:  
 (vb.) \*tʰhar-V-t’- ‘to make incisions, to cut into’;  
 (n.) \*tʰhar-t’-a ‘scratch, incision’  
 Derivative of:  
 (vb.) \*tʰhar- ‘to cut, to cut into’;  
 (n.) \*tʰhar-a ‘cut, slit, slice, slash; that which cuts: saw, knife, axe’
615. Proto-Nostratic root \*tʰhay- (~ \*tʰəy-):  
 (vb.) \*tʰhay- ‘to grow old, to turn gray (hair)’;  
 (n.) \*tʰhay-a ‘old age, gray hair’

616. Proto-Nostratic root *\*t<sup>h</sup>her-*:  
 (vb.) *\*t<sup>h</sup>her-* ‘to burn, to roast’;  
 (n.) *\*t<sup>h</sup>her-a* ‘ash(es), charcoal, burnt wood; firewood’; (adj.) ‘burned, heated, roasted, charred, parched’
617. Proto-Nostratic root *\*t<sup>h</sup>hiɣ-* (~ *\*t<sup>h</sup>heɣ-*):  
 Extended form:  
 (vb.) *\*t<sup>h</sup>hiɣ-V-r-* ‘to comb’;  
 (n) *\*t<sup>h</sup>hiɣ-r-a* ‘hair’:
- Note: The original meaning of the stem *\*t<sup>h</sup>hiɣ-* (~ *\*t<sup>h</sup>heɣ-*) may have been ‘to scratch, to scrape’ (> ‘to comb’ > ‘hair’); this stem may be preserved in Cushitic: Proto-Cushitic *\*taɣf-/tiɣf-* or *\*laɣf-/liɣf-* ‘to claw, to scratch’ (cf. Ehret 1995:429, no. 891). For derivation of the word for ‘hair’ from a stem with the meaning ‘to scratch, to scrape’, cf. Old Church Slavic *kosa* ‘hair’, Serbo-Croatian *kòsa* ‘hair, wool’, etc., *o*-grade of the root found in Common Slavic *\*česati* ‘to scratch, to comb’ > Russian *česát’* [чесать] ‘to scratch, to comb’.
618. Proto-Nostratic root *\*t<sup>h</sup>hil-* (~ *\*t<sup>h</sup>hel-*) or (?) *\*t<sup>h</sup>hidɣ-* (~ *\*t<sup>h</sup>hedɣ-*):  
 (vb.) *\*t<sup>h</sup>hil-* or (?) *\*t<sup>h</sup>hidɣ-* ‘to see’;  
 (n.) *\*t<sup>h</sup>hil-a* or (?) *\*t<sup>h</sup>hidɣ-a* ‘eye’
619. Proto-Nostratic root *\*t<sup>h</sup>hir-* (~ *\*t<sup>h</sup>her-*):  
 (vb.) *\*t<sup>h</sup>hir-* ‘to be highly esteemed, eminent, illustrious, glorious’;  
 (n.) *\*t<sup>h</sup>hir-a* ‘high rank, chief, chieftain, ruler’
620. Proto-Nostratic root *\*t<sup>h</sup>huŋ-* (~ *\*t<sup>h</sup>hoŋ-*):  
 Extended form:  
 (vb.) *\*t<sup>h</sup>huŋ-V-k<sup>h</sup>-* ‘to hook up, to hang up, to suspend (tr.); to dangle, to hang (intr.)’;  
 (n.) *\*t<sup>h</sup>huŋ-k<sup>h</sup>-a* ‘peg, hook’
621. Proto-Nostratic root *\*t<sup>h</sup>hut-* (~ *\*t<sup>h</sup>hot-*):  
 (vb.) *\*t<sup>h</sup>hut-* ‘to cut, to split’;  
 (n.) *\*t<sup>h</sup>hut-a* ‘cut, split’



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CHAPTER 32

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PROTO-NOSTRATIC \*tʃ'

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
tʃ'-	tʃ'-	t-	k'-	k'-	δʏ-		
-tʃ'-	-tʃ'-	-t(t)-	-k'-	-k'-	-δʏ-		

622. Proto-Nostratic root \*tʃ'ar- (~ \*tʃ'ər-):  
 (vb.) \*tʃ'ar- 'to bite, to gnaw';  
 (n.) \*tʃ'ar-a 'bite'  
 Extended form (in Semitic and Indo-European):  
 (vb.) \*tʃ'ar-V-s- 'to bite, to gnaw';  
 (n.) \*tʃ'ar-s-a 'tooth; morsel bitten, food, nourishment'
623. Proto-Nostratic root \*tʃ'il- (~ \*tʃ'el-):  
 (vb.) \*tʃ'il- 'to be bent, curved, round';  
 (n.) \*tʃ'il-a 'bent, curved, round thing or object'; (adj.) 'bent, curved, round'
624. Proto-Nostratic root \*tʃ'im- (~ \*tʃ'em-):  
 (vb.) \*tʃ'im- 'to join, bind, press, or unite together';  
 (n.) \*tʃ'im-a 'bond, tie, union, connection'; (adj.) 'joined, bound, pressed, or united together; tied, harnessed, glued, etc.'
625. Proto-Nostratic root \*tʃ'ukʰ- (~ \*tʃ'okʰ-):  
 (vb.) \*tʃ'ukʰ- 'to push, to shove, to thrust (in), to press (in)';  
 (n.) \*tʃ'ukʰ-a 'push, shove, thrust'



CHAPTER 33

PROTO-NOSTRATIC \*ʔ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
ʔ-	ʔ-	Ø-	Ø-	ʔ-	Ø-	Ø-	Ø-
-ʔ-	-ʔ-	-Ø-	-Ø-	-ʔ-	-Ø-	-Ø-	-Ø-

626. Proto-Nostratic 1st singular personal pronoun stem \*ʔa- (~ \*ʔǝ-), \*ʔi- (~ \*ʔe-)  
'I, me'

No doubt originally the same as the deictic particles \*ʔa-, \*ʔi- listed below.

Note: The Chukchi forms support the view that we are dealing with what was originally a deictic particle here inasmuch as the same patterning is found in both the first and second person predicative pronoun stems. Moreover, it is the proximate deictic form \*ʔi- (~ \*ʔe-) that is represented in Chukchi-Kamchatkan as opposed to the distant form \*ʔa- (~ \*ʔǝ-) found in Afrasian (the Proto-Indo-European forms \*ʔe+k', \*ʔe+g<sup>h</sup>-, and \*ʔe+k<sup>h</sup>- are phonologically ambiguous). This seems to indicate that independent developments were involved in each branch, using the same basic elements.

627. Proto-Nostratic demonstrative stems (originally deictic particles):  
 Proximate: \*ʔi- (~ \*ʔe-) 'this';  
 Intermediate: \*ʔu- (~ \*ʔo-) 'that';  
 Distant: \*ʔa- (~ \*ʔǝ-) 'that yonder, that over there'

Note: These stems often combined with other deictic particles: \*ʔa/i/u+na-, \*ʔa/i/u+ša-, \*ʔa/i/u+ma-, \*ʔa/i/u+t<sup>h</sup>a-, \*ʔa/i/u+k<sup>h</sup>a-, \*ʔa/i/u+ya-, etc.

628. Proto-Nostratic (n.) \*ʔab-a 'strength, power'; (adj.) 'strong, mighty'
629. Proto-Nostratic (n.) \*ʔab(b)a ~ \*ʔap<sup>h</sup>(p<sup>h</sup>)a 'father, forefather' (nursery word)
630. Proto-Nostratic root \*ʔad- (~ \*ʔǝd-):  
 (vb.) \*ʔad- 'to be strong, mighty, powerful, exalted';  
 (n.) \*ʔad-a 'lord, master'; (adj.) 'strong, mighty, powerful, exalted'
631. Proto-Nostratic (n.) \*ʔadv-a 'thorn'; (adj.) 'pointed, sharp, prickly'
632. Proto-Nostratic (n.) \*ʔaḥ-a 'cow'

633. Proto-Nostratic root \* $\lambda ax$ - (~ \* $\lambda \partial x$ -):  
 (vb.) \* $\lambda ax$ - ‘to be young, youthful, tender, fresh’;  
 (n.) \* $\lambda ax$ -*a* ‘a youth, young man, younger brother’; (adj.) ‘young, tender’
634. Proto-Nostratic root \* $\lambda ak^h$ - (~ \* $\lambda \partial k^h$ -):  
 (vb.) \* $\lambda ak^h$ - ‘to eat’;  
 (n.) \* $\lambda ak^h$ -*a* ‘food, meal; fodder, feed, morsel’
635. Proto-Nostratic root \* $\lambda ak^h$ - (~ \* $\lambda \partial k^h$ -):  
 (vb.) \* $\lambda ak^h$ - ‘to be evil, wicked, bad; to hurt, to harm’;  
 (n.) \* $\lambda ak^h$ -*a* ‘evil, wickedness, harm’
636. Proto-Nostratic root \* $\lambda ak^h$ - (~ \* $\lambda \partial k^h$ -):  
 (vb.) \* $\lambda ak^h$ - ‘to dig’;  
 (n.) \* $\lambda ak^h$ -*a* ‘that which is dug: digging, ditch, trench, hole; that which is used to dig: carving tool, chisel, cutter, gouge’
637. Proto-Nostratic (n.) \* $\lambda ak^h k^h a$  ‘older female relative’ (nursery word)  
 Note also:  
 (n.) \* $\lambda ak^h k^h a$  ‘older male relative’
638. Proto-Nostratic (n.) \* $\lambda ak^h k^h a$  ‘older male relative’ (nursery word)  
 Note also:  
 (n.) \* $\lambda ak^h k^h a$  ‘older female relative’
639. Proto-Nostratic root \* $\lambda ak^{wh}$ - (~ \* $\lambda \partial k^{wh}$ -):  
 (vb.) \* $\lambda ak^{wh}$ - ‘to be hot, to burn; to warm oneself’;  
 (n.) \* $\lambda ak^{wh}$ -*a* ‘heat, fire’
640. Proto-Nostratic root \* $\lambda al$ - (~ \* $\lambda \partial l$ -):  
 (vb.) \* $\lambda al$ - ‘to purify, to cleanse’ (> ‘to sift, to clean grain’ in the daughter languages);  
 (n.) \* $\lambda al$ -*a* ‘the act of washing, cleaning; that which is washed, cleaned’
- Semantics as in Sanskrit *punā́ti* ‘to make clean, clear, pure, or bright; to cleanse, to purify, to purge, to clarify; (with *sáktum*) to cleanse from chaff, to winnow; to sift, to discriminate, to discern’, (passive) *pū́yāte* ‘to be cleaned, washed, or purified’; related to Old High German *fowen* ‘to sift, to clean grain’ and Latin *pūrus* ‘clean, pure’.
641. Proto-Nostratic root \* $\lambda al$ - (~ \* $\lambda \partial l$ -) (perhaps also \* $\lambda el$ -, \* $\lambda ul$ -):  
 (vb.) \* $\lambda al$ - ‘to be not so-and-so or such-and-such’;  
 (n.) \* $\lambda al$ -*a* ‘nothing’

Originally a negative verb stem meaning ‘to be not so-and-so or such-and-such’ — later used in some branches as a negative particle.

642. Proto-Nostratic root \*ʔam- (~ \*ʔam-):  
 (vb.) \*ʔam- ‘to seize, to grasp, to take, to touch, to hold (closely or tightly)’;  
 (n.) \*ʔam-a ‘grasp, hold, hand(ful)’; (adj.) ‘seized, grasped, touched, held, obtained’
643. Proto-Nostratic (n.) \*ʔam-a ‘time, moment, point of time’; (particle) ‘now’
644. Proto-Nostratic (n.) \*ʔam(m)a ‘mother’ (nursery word)  
 Note also:  
 (n.) \*ʔema ‘older female relative; mother; (older) woman’
645. Proto-Nostratic root \*ʔan- (~ \*ʔan-):  
 (vb.) \*ʔan- ‘to load up and go, to send off’;  
 (n.) \*ʔan-a ‘load, burden’
646. Proto-Nostratic root \*ʔanʷ- (~ \*ʔanʷ-):  
 (vb.) \*ʔanʷ- ‘to be quiet, still, at peace, at rest’;  
 (n.) \*ʔanʷ-a ‘tranquility, peace, rest’; (adj.) ‘quiet, still, peaceful, restful’
647. Proto-Nostratic root \*ʔanʷ- (~ \*ʔanʷ-):  
 (vb.) \*ʔanʷ- ‘to draw near to, to approach, to come (close to)’;  
 (n.) \*ʔanʷ-a ‘nearness, proximity’  
 Derivative:  
 (particle) \*ʔanʷ- ‘to, towards, over, for, against, upon, on’
648. Proto-Nostratic (particle) \*ʔanʷ- ‘to, towards, over, for, against, upon, on’  
 Derivative of:  
 (vb.) \*ʔanʷ- ‘to draw near to, to approach, to come (close to)’;  
 (n.) \*ʔanʷ-a ‘nearness, proximity’
649. Proto-Nostratic (n.) \*ʔanʷa ‘mother, aunt’ (nursery word)  
 Note also:  
 (n.) \*ʔenʷa ‘mother, elder sister’
650. Proto-Nostratic root \*ʔaŋ- (~ \*ʔaŋ-):  
 (vb.) \*ʔaŋ- ‘to divide, to separate’;  
 (n.) \*ʔaŋ-a ‘separation, difference’; (adj.) ‘separate, different’
651. Proto-Nostratic (n.) \*ʔaŋ(ŋ)a ‘(older) female relative’ (nursery word)
652. Proto-Nostratic (n.) \*ʔaŋ(ŋ)a ‘(older) male relative’

653. Proto-Nostratic root \* $\lambda ap^h$ - (~ \* $\lambda \partial p^h$ -):  
 (vb.) \* $\lambda ap^h$ - ‘to be more, over, above, extra, superior; to surpass’;  
 (n.) \* $\lambda ap^h$ -*a* ‘that which is more, over, above, extra, superior’; (adj.) ‘many, more, extra, additional, numerous, teeming, superior’  
 (particle) \* $\lambda ap^h$ - ‘also, moreover, besides’
- Note: The *CVC*- patterning shows that this stem could not originally have been a particle, though this is how it is preserved in the daughter languages. Though the original meaning is unknown, we may speculate that it may have been something like ‘(vb.) to be more, over, above, extra; (n.) that which is more, over, above, extra; (adj.) many, more, extra, additional, numerous, teeming’.
654. Proto-Nostratic root \* $\lambda ar$ - (~ \* $\lambda \partial r$ -):  
 (vb.) \* $\lambda ar$ - ‘to cut (off, apart), to sever, to separate, to part asunder’;  
 (n.) \* $\lambda ar$ -*a* ‘half, side, part’; (adj.) ‘severed, separated, parted, disjointed’
655. Proto-Nostratic (n.) \* $\lambda ar$ -*a* ‘male, man, husband’
656. Proto-Nostratic (n.) \* $\lambda ar$ -*a* ‘associated or related person or thing; associate, companion, friend; kinsman, relative’; (adj.) ‘associated, related’
657. Proto-Nostratic root \* $\lambda ar$ - (~ \* $\lambda \partial r$ -) (used as the base for the designation of various horned animals):  
 (n.) \* $\lambda ar$ -*a* ‘ram, goat, mountain-goat, chamois, ibex, gazelle, etc.’
658. Proto-Nostratic root \* $\lambda as$ - (~ \* $\lambda \partial s$ -):  
 (vb.) \* $\lambda as$ - ‘to gather, to collect’;  
 (n.) \* $\lambda as$ -*a* ‘the act of gathering, collecting’
659. Proto-Nostratic root \* $\lambda as^y$ - (~ \* $\lambda \partial s^y$ -):  
 (vb.) \* $\lambda as^y$ - ‘to put, to place, to set; to sit, to be seated’;  
 (n.) \* $\lambda as^y$ -*a* ‘place, seat’; (adj.) ‘put, placed, set, established’
660. Proto-Nostratic (n.) \* $\lambda at^h t^h a$  ‘older male relative, father’ (nursery word)
661. Proto-Nostratic (n.) \* $\lambda at^y a$  ‘older relative (male or female)’ (nursery word)
662. Proto-Nostratic coordinating conjunction \* $\lambda aw$ -, \* $\lambda wa$ - (~ \* $\lambda w \partial$ -) ‘or’
663. Proto-Nostratic root \* $\lambda ay$ - (~ \* $\lambda \partial y$ -) (interrogative verb stem):  
 (vb.) \* $\lambda ay$ - ‘to do what?, to act in what manner?’  
 Derivative:  
 Interrogative-relative pronoun stem \* $\lambda ay$ -, \* $\lambda ya$ - ‘(relative) who, which, what; (interrogative) who?, which?, what?’

664. Proto-Nostratic interrogative-relative pronoun stem \*ʔay-, \*ʔya- '(relative) who, which, what; (interrogative) who?, which?, what?':  
Derivative of:  
(vb.) \*ʔay- 'to do what?, to act in what manner?'
665. Proto-Nostratic root \*ʔay- (~ \*ʔay-):  
(vb.) \*ʔay- 'to go, to proceed';  
(n.) \*ʔay-a 'journey'  
Note also:  
(vb.) \*ʔiy- 'to come, to go';  
(n.) \*ʔiy-a 'approach, arrival; path, way'
666. Proto-Nostratic \*ʔay-a 'brain':
667. Proto-Nostratic (n.) \*ʔay(y)a 'mother, female relative' (nursery word)
668. Proto-Nostratic (n.) \*ʔay(y)a 'father, male relative' (nursery word)
669. Proto-Nostratic negative particle \*ʔe 'no, not'
670. Proto-Nostratic root \*ʔeb-:  
(vb.) \*ʔeb- 'to become weak, exhausted, wasted, debilitated, wiped out; to yield, to succumb; to go mad, to become insane, to lose one's mind; to lose one's way';  
(n.) \*ʔeb-a 'weakness, exhaustion; madness, silliness, foolishness'; (adj.) 'weakened, exhausted, debilitated, wiped out; mad, foolish, silly, half-witted'
671. Proto-Nostratic root (Eurasian only) \*ʔek<sup>h</sup>-:  
(vb.) \*ʔek<sup>h</sup>- 'to move quickly, to rage; to be furious, raging, violent, spirited, fiery, wild';  
(n.) \*ʔek<sup>h</sup>-a 'rapid or violent movement, fury, rage'
672. Proto-Nostratic root \*ʔek'-:  
(vb.) \*ʔek'- 'to diminish, to decrease, to reduce; to be insufficient, lacking, wanting; to be small, weak, lowly, ignoble, common, ordinary, plain, simple';  
(n.) \*ʔek'-a 'diminishment, reduction, decrease, loss; deficiency, want, need, lack'
673. Proto-Nostratic root \*ʔel-:  
(vb.) \*ʔel- 'to shine, to radiate, to glitter, to glisten';  
(n.) \*ʔel-a 'luster, splendor, light'

674. Proto-Nostratic (Eurasianic only) (n.) \**ʔema* ‘older female relative; mother; (older) woman’ (nursery word)  
Note also:  
(n.) \**ʔam(m)a* ‘mother’
675. Proto-Nostratic (n.) \**ʔen<sup>v</sup>a* ‘mother, elder sister’ (nursery word)  
Note also:  
(n.) \**ʔan<sup>v</sup>a* ‘mother, aunt’
676. Proto-Nostratic root \**ʔeŋ-*:  
(vb.) \**ʔeŋ-* ‘to burn, to heat up’;  
(n.) \**ʔeŋ-a* ‘fire, heat; (heat of the) sun, sunshine, sunlight’  
Extended form (in Indo-European and Uralic [Finno-Ugrian]):  
(vb.) \**ʔeŋ-V-k-* ‘to burn, to heat up’;  
(n.) \**ʔeŋ-k'-a* ‘fire, heat; (heat of the) sun, sunshine, sunlight’
677. Proto-Nostratic root \**ʔep<sup>h</sup>-*:  
(vb.) \**ʔep<sup>h</sup>-* ‘to burn, to be hot; to cook, to boil, to bake’;  
(n.) \**ʔep<sup>h</sup>-a* ‘the act of cooking, baking; oven’
678. Proto-Nostratic (n.) \**ʔer-a* ‘earth, ground’
679. Proto-Nostratic root \**ʔeθ-*:  
(vb.) \**ʔeθ-* ‘to oppose’;  
(n.) \**ʔeθ-a* ‘that which is opposite’
680. Proto-Nostratic root \**ʔib-* (~ \**ʔeb-*):  
(vb.) \**ʔib-* ‘to well up, to overflow, to spill over; to pour out or over’;  
(n.) \**ʔib-a* ‘spill, overflow, flood, deluge’
681. Proto-Nostratic root \**ʔil-* (~ \**ʔel-*):  
(vb.) \**ʔil-* ‘to live, to be alive; to be, to exist’;  
(n.) \**ʔil-a* ‘dwelling, habitation, house’; (adj.) ‘living, alive, existing’
682. Proto-Nostratic (n.) \**ʔil-a* (~ \**ʔel-a*) ‘deer’
683. Proto-Nostratic root \**ʔil-* (~ \**ʔel-*):  
(vb.) \**ʔil-* ‘to see, to know’;  
(n.) \**ʔil-a* ‘eye’
684. Proto-Nostratic (n.) \**ʔin-a* (~ \**ʔen-a*) ‘place, location’ (> ‘in, within, into’ in the daughter languages)
685. Proto-Nostratic (n.) \**ʔina* or \**ʔiŋa* ‘younger relative (male or female)’ (nursery word)



686. Proto-Nostratic root \*ʔirʷ- (~ \*ʔerʷ-):  
 (vb.) \*ʔirʷ- ‘to draw, to drag, to pull’;  
 (n.) \*ʔirʷ-a ‘(the act of) drawing, dragging, pulling; trace, furrow’
687. Proto-Nostratic root \*ʔitʷ- (~ \*ʔetʷ-):  
 (vb.) \*ʔitʷ- ‘to chew, to bite, to eat, to consume’;  
 (n.) \*ʔitʷ-a ‘the act of eating; that which is eaten: food, nourishment’
688. Proto-Nostratic root \*ʔiy- (~ \*ʔey-):  
 (vb.) \*ʔiy- ‘to come, to go’;  
 (n.) \*ʔiy-a ‘approach, arrival; path, way’  
 Note also:  
 (vb.) \*ʔay- ‘to go, to proceed’;  
 (n.) \*ʔay-a ‘journey’
689. Proto-Nostratic 1st person personal pronoun stem \*ʔiya: (a) ‘by me’; (b) agent marker of the 1st singular of verbs; (c) postnominal possessive pronoun: ‘my’
690. Proto-Nostratic (n.) \*ʔom-a ‘rounded prominence at the end of a bone forming a ball and socket joint with the hollow part of another bone, condyle (of the lower jaw, the shoulder, the elbow, the hip, etc.)’
- Note: Semantic shifts took place in Semitic, Indo-European, and, in part, Altaic; the original meaning was preserved in Egyptian and Turkic.
691. Proto-Nostratic root \*ʔor-:  
 (vb.) \*ʔor- ‘to move rapidly, quickly, hastily; to set in motion’;  
 (n.) \*ʔor-a ‘any rapid motion: running, flowing, pouring, etc.’; (adj.) ‘rapid, quick, hasty’
692. Proto-Nostratic root \*ʔorʷ-:  
 (vb.) \*ʔorʷ- ‘to rise (up)’;  
 (n.) \*ʔorʷ-a ‘rising movement or motion’  
 Extended form:  
 (vb.) \*ʔorʷ-V-g- ‘to climb on, to mount, to copulate (with)’;  
 (n.) \*ʔorʷ-g-a ‘mounting, copulation’
693. Proto-Nostratic root \*ʔorʷ-:  
 Extended form:  
 (vb.) \*ʔorʷ-V-g- ‘to climb on, to mount, to copulate (with)’;  
 (n.) \*ʔorʷ-g-a ‘mounting, copulation’  
 Derivative of:  
 (vb.) \*ʔorʷ- ‘to rise (up)’;  
 (n.) \*ʔorʷ-a ‘rising movement or motion’

694. Proto-Nostratic root \**ʔot*'-:  
 (vb.) \**ʔot*'- 'to move to or toward; to move away from; to move out of the way, to step aside';  
 (n.) \**ʔot*'-*a* 'movement to or toward; movement away from; step, track'
695. Proto-Nostratic root \**ʔow*-:  
 Extended form:  
 (vb.) \**ʔow*-*V*-*h*- 'to hatch eggs';  
 (n.) \**ʔow*-*h*-*a* 'egg'

Dolgopolsky has proposed a very attractive etymology here. However, it must be noted that Arabic *ʔāḥ* 'eggwhite, albumen' is isolated within Semitic. Moreover, even though the Proto-Indo-European form is traditionally reconstructed as \**ōu̯iom* 'egg', no single reconstruction can account for all of the forms found in the Indo-European daughter languages. Accordingly, there are difficulties with this etymology. If this is a valid etymology, it would imply that the Proto-Indo-European form is to be reconstructed as \**ʔ<sub>1</sub>ou̯ʔ<sub>2</sub>iom* 'egg', with short vowel in the first syllable and a laryngeal (\**ʔ<sub>2</sub>* [= \**h̥*]) between \**u̯* and \**i* (the long vowel found in the first syllable of the forms attested in several of the Indo-European daughter languages would then be due to compensatory lengthening following the loss of this laryngeal). There may have been a non-apophonic \**o* (original, or inherited, \**o*) in the first syllable, in which case the Proto-Nostratic form would have been \**ʔow*-*h*-. Reconstructing a medial laryngeal (\**ʔ<sub>2</sub>* [= \**h̥*]) would also account for the Germanic developments. \**ʔowh̥*-*yo*-*m* (traditional \**ʔ<sub>1</sub>ou̯ʔ<sub>2</sub>iom*) 'egg' cannot, as is often assumed, be a derivative of the common Proto-Indo-European word for 'bird', which requires an initial *a*-coloring laryngeal (preserved in Armenian): \**Aéw*-*i*-*s* [\**Aáw*-*i*-*s*], \**Aw*-*éy*-*s* > Armenian *hav* 'bird, hen, chicken'; Latin *avis* 'a bird'; Umbrian (acc.) *avif* 'bird'; Sanskrit (nom. sg.) *vī*-*h*, (Rigveda) *vé*-*h* 'a bird'; etc.

696. Proto-Nostratic root \**ʔoy*-:  
 (vb.) \**ʔoy*- 'to be by oneself, to be alone';  
 (n.) \**ʔoy*-*a* 'solitude, aloneness'; (adj.) 'single, alone; one'
697. Proto-Nostratic (n.) \**ʔul*-*a* 'the bottom or lowest part of anything; the sole of the foot; soil, earth, ground, land'

Semantics as in Latin *sōlum* 'the bottom or lowest part of anything; the sole of the foot; soil, earth, ground, land' (cf. Buck 1949:1.212).

698. Proto-Nostratic deictic stem indicating distance farthest away from the speaker  
 \**ʔul*- (~ \**ʔol*-) 'that over there, that yonder'

- 
699. Proto-Nostratic root \*ʔum- (~ \*ʔom-):  
(vb.) \*ʔum- 'to bear, to give birth';  
(n.) \*ʔum-a 'offspring, descendant'
700. Proto-Nostratic root \*ʔup<sup>h</sup>- (onomatopoeic):  
(vb.) \*ʔup<sup>h</sup>- 'to blow';  
(n.) \*ʔup<sup>h</sup>-a 'puff of air, breath'
701. Proto-Nostratic root \*ʔut'- (~ \*ʔot'-):  
(vb.) \*ʔut'- 'to stretch, to lengthen';  
(n.) \*ʔut'-a 'wide-open space, outdoor area, exterior; length, distance'; (adj.)  
'wide, broad, long'



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CHAPTER 34

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PROTO-NOSTRATIC \*h

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
h-	h-	Ø-	Ø-	h-	Ø-	Ø-	Ø-
-h-	-h-	-Ø-	-Ø-	-h-	-Ø-	-Ø-	-Ø-

702. Proto-Nostratic root *\*hag-* (~ *\*həg-*):  
 (vb.) *\*hag-* ‘to burn, to be on fire, to be aflame, to be ablaze, to shine brightly’;  
 (n.) *\*hag-a* ‘midday heat, heat of sun, sunlight’
703. Proto-Nostratic root *\*hak<sup>h</sup>-* (~ *\*hək<sup>h</sup>-*):  
 (vb.) *\*hak<sup>h</sup>-* ‘to be sluggish, slow; to do or approach something gradually, slowly, step by step’; (adv.) ‘slowly, gradually’;  
 (n.) *\*hak<sup>h</sup>-a* ‘slowness, gradualness, sluggishness’
704. Proto-Nostratic root *\*hak’-* (~ *\*hək’-*):  
 (vb.) *\*hak’-* ‘to press, squeeze, pack, or cram together; to confine, to oppress’;  
 (n.) *\*hak’-a* ‘oppression, affliction, pain’
705. Proto-Nostratic root *\*hal-* (~ *\*həl-*):  
 (vb.) *\*hal-* ‘to light up, to beam forth, to shine, to brighten up, to radiate’;  
 (n.) *\*hal-a* ‘clearness, brightness, radiance, purity’; (adj.) ‘clear, pure, bright, shining, radiant’
706. Proto-Nostratic root *\*hal-* (~ *\*həl-*):  
 (adv.) *\*hal-* ‘else, otherwise’;  
 (n.) *\*hal-a* ‘other side’; (adj.) ‘other’
707. Proto-Nostratic root *\*hal-* (~ *\*həl-*) (?):  
 (vb.) *\*hal-* ‘to begin, to start’;  
 (n.) *\*hal-a* ‘beginning, start; the front of anything’
708. Proto-Nostratic (n.) *\*ham-a* ‘blackness; black object’; (adj.) ‘black’
709. Proto-Nostratic (n.) *\*ham-a* ‘water’
710. Proto-Nostratic root *\*ham-* (~ *\*həm-*):  
 (vb.) *\*ham-* ‘to take into the mouth, to eat’;  
 (n.) *\*ham-a* ‘mouth’

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711. Proto-Nostratic root *\*həŋ-* (~ *\*həŋʰ-*):  
(vb.) *\*həŋ-* ‘to split apart, to open (tr.); to gape, to open the mouth, to yawn’;  
(n.) *\*həŋ-a* ‘opening: yawn, gape, mouth; hole; crack, crevice’
712. Proto-Nostratic root *\*hapʰ-* (~ *\*həpʰ-*):  
(vb.) *\*hapʰ-* ‘to turn, to turn away, to turn back’;  
(n.) *\*hapʰ-a* ‘the act of turning away, turning back, overturning’; (adj.) ‘turned away from, turned back, overturned’
713. Proto-Nostratic root *\*haw-* (~ *\*həw-*):  
(vb.) *\*haw-* ‘to long for, to desire’;  
(n.) *\*haw-a* ‘desire’
714. Proto-Nostratic (n.) *\*hay-a* ‘a kind of cereal or grain’
715. Proto-Nostratic exclamation of surprise, astonishment, grief, or misfortune  
*\*hay*
716. Proto-Nostratic (n.) *\*hay-a* ‘metal, ore’
717. Proto-Nostratic root *\*her-* and/or *\*hor-*:  
(vb.) *\*her-* and/or *\*hor-* ‘to escape, to flee, to run away’;  
(n.) *\*her-a* and/or *\*hor-a* ‘escape, flight’; (adj.) ‘escaped, liberated, freed’

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CHAPTER 35

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PROTO-NOSTRATIC \*h

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
h-	ħ-	Ø-	x-	hh-	Ø-	Ø-	Ø-
-h-	-ħ-	-Ø-	-x-	-hh-	-Ø-	-Ø-	-Ø-

718. Proto-Nostratic root \*hac'- (~ \*həc'-):  
 (vb.) \*hac'- 'to pick, to pluck';  
 (n.) \*hac'-a 'the act of picking, plucking'; (adj.) 'picked, plucked'
719. Proto-Nostratic root \*hag- (~ \*həg-):  
 (vb.) \*hag- 'to be pressed or weighed down; to be oppressed; to be vexed, distressed, disheartened, afflicted, troubled';  
 (n.) \*hag-a 'trouble, affliction, oppression, distress, grief, sadness'
720. Proto-Nostratic root \*hag- (~ \*həg-):  
 (vb.) \*hag- 'to cover over, to hide, to conceal, to obscure, to overshadow';  
 (n.) \*hag-a 'mist, darkness, cloudy weather'; (adj.) 'misty, dark, cloudy'
721. Proto-Nostratic root \*hak<sup>h</sup>- (~ \*hək<sup>h</sup>-):  
 (vb.) \*hak<sup>h</sup>- 'to be mentally sharp, keen';  
 (n.) \*hak<sup>h</sup>-a 'wisdom, sound judgment, understanding'
722. Proto-Nostratic root \*hak'- (~ \*hək'-):  
 (vb.) \*hak'- 'to spread, to widen, to extend';  
 (n.) \*hak'-a 'expanse, wide-open space, earth, field'
723. Proto-Nostratic root \*hak'- (~ \*hək'-):  
 (vb.) \*hak'- 'to direct, to guide, to command';  
 (n.) \*hak'-a 'direction, guidance, command, decree; leader, chief, chieftain, ruler, headman'
724. Proto-Nostratic root \*hal- (~ \*həl-):  
 (vb.) \*hal- 'to lay waste, to destroy, to kill, to slaughter';  
 (n.) \*hal-a 'destruction, violence, killing, slaughter'  
 Note also:  
 (vb.) \*xal- 'to wear down, to wear out, to weaken; to be worn out, worn down, weakened';  
 (n.) \*xal-a 'weakness, exhaustion, fatigue, weariness'; (adj.) 'weak, worn out, tired, exhausted, weary'

725. Proto-Nostratic root *\*hal-* (~ *\*həl-*):  
 (vb.) *\*hal-* ‘to wash, to rinse, to clean’;  
 (n.) *\*hal-a* ‘the act of washing, cleaning’; (adj.) ‘washed, clean(ed)’
726. Proto-Nostratic root *\*hal-* (~ *\*həl-*):  
 (vb.) *\*hal-* ‘to lower’;  
 (n.) *\*hal-a* ‘that which is beneath or under; lower part, underpart’; (adj.) ‘lower’
727. Proto-Nostratic root *\*halʷ-* (~ *\*həlʷ-*):  
 (vb.) *\*halʷ-* ‘to grow, to be strong’;  
 (n.) *\*halʷ-a* ‘health, strength, power’; (adj.) ‘healthy, strong, powerful; grown, great, large’
728. Proto-Nostratic (n.) *\*halʷ-a* ‘hole, hollow, cavity’
729. Proto-Nostratic root *\*ham-* (~ *\*həm-*):  
 (vb.) *\*ham-* ‘to be sharp, sour, bitter, acrid’;  
 (n.) *\*ham-a* ‘any sharp-tasting, sour, bitter, or acrid foodstuff’; (adj.) ‘sharp, sour, bitter, acrid’
730. Proto-Nostratic root *\*ham-* (~ *\*həm-*):  
 (vb.) *\*ham-* ‘to become still, quiet, tranquil; to rest, to settle down, to remain, to abide’;  
 (n.) *\*ham-a* ‘abode, resting place; stillness, tranquility’; (adj.) ‘seated, settled’
731. Proto-Nostratic root *\*han-* (~ *\*hən-*):  
 (vb.) *\*han-* ‘to show favor; to be gracious, affectionate, tender’;  
 (n.) *\*han-a* ‘affection, tenderness, favor, graciousness’
732. Proto-Nostratic root *\*han-* (~ *\*hən-*):  
 (vb.) *\*han-* ‘to bend, to curve, to twist’;  
 (n.) *\*han-a* ‘bend, curve, twist’
733. Proto-Nostratic root *\*han-* (~ *\*hən-*):  
 Extended form:  
 (vb.) *\*han-V-g-* ‘to tie tightly, to constrict, to make narrow; to choke, to strangle’;  
 (n.) *\*han-g-a* ‘throat’; (adj.) ‘narrow, constricted’
734. Proto-Nostratic root *\*haŋ-* (~ *\*həŋ-*):  
 (vb.) *\*haŋ-* ‘to dive into water (bird)’;  
 (n.) *\*haŋ-a* ‘an aquatic bird’



735. Proto-Nostratic root \*hap<sup>h</sup>- (~ \*həp<sup>h</sup>-):  
 (vb.) \*hap<sup>h</sup>- ‘to take, gather, or collect (with the hands or arms)’;  
 (n.) \*hap<sup>h</sup>-a ‘that which has been gathered or collected: plenty, fullness, abundance, wealth, possessions, property; embrace, armful, handful’
736. Proto-Nostratic root \*hap<sup>h</sup>- (~ \*həp<sup>h</sup>-):  
 (vb.) \*hap<sup>h</sup>- ‘to move quickly, to run, to flow’;  
 (n.) \*hap<sup>h</sup>-a ‘(flowing or running) water, river, stream, current’
737. Proto-Nostratic root \*har- (~ \*hər-):  
 (vb.) \*har- ‘to prepare, to make ready, to put together’;  
 (n.) \*har-a ‘way, manner, method’
738. Proto-Nostratic (n.) \*har-a ‘arm, hand’
739. Proto-Nostratic root \*har- (~ \*hər-):  
 (vb.) \*har- ‘to be superior, to be higher in status or rank, to be above or over’;  
 (n.) \*har-a ‘nobleman, master, chief, superior’; (adj.) ‘free-born, noble’
740. Proto-Nostratic root \*har- (~ \*hər-):  
 (vb.) \*har- ‘to scratch, to scrape’ (> ‘to plow’ in the daughter languages);  
 (n.) \*har-a ‘scraping, scratching’
741. Proto-Nostratic \*har<sup>v</sup>-: (1) particle introducing an alternative: ‘or’, (2) conjoining particle: ‘with, and’, (3) inferential particle: ‘then, therefore’
- Note: The *CVC*- patterning shows that this stem could not originally have been a particle, though this is how it is preserved in the daughter languages. The original meaning is unknown.
742. Proto-Nostratic root \*has- (~ \*həs-):  
 (vb.) \*has- ‘to burn, to be hot’;  
 (n.) \*has-a ‘cinder, ember, ashes; heat’
743. Proto-Nostratic root \*has<sup>v</sup>- (~ \*həs<sup>v</sup>-) (used to designate various tree names):  
 (n.) \*has<sup>v</sup>-a ‘a tree and its fruit’
744. Proto-Nostratic root \*hat’- (~ \*hət’-):  
 (vb.) \*hat’- ‘to shake, to tremble; to be shaken, startled, frightened, terrified, afraid’;  
 (n.) \*hat’-a ‘trembling, shaking’  
 Note also:  
 (vb.) \*hut’- ‘to shake, to shiver, to tremble’;  
 (n.) \*hut’-a ‘trembling, shaking’; (adj.) ‘shaking, shivering, trembling’

745. Proto-Nostratic (n.) *\*haw-a* ‘a relative on the mother’s side’
746. Proto-Nostratic root *\*haw-* (~ *\*həw-*):  
 (vb.) *\*haw-* ‘to surge up, to overflow, to rain’;  
 (n.) *\*haw-a* ‘torrential rain, torrent, deluge’  
 Probably related to:  
 (vb.) *\*haw-* ‘to swell, to increase’;  
 (n.) *\*haw-a* ‘swelling, increase, growth; great number or amount’
747. Proto-Nostratic root *\*haw-* (~ *\*həw-*):  
 (vb.) *\*haw-* ‘to swell, to increase’;  
 (n.) *\*haw-a* ‘swelling, increase, growth; great number or amount’  
 Probably related to:  
 (vb.) *\*haw-* ‘to surge up, to overflow, to rain’;  
 (n.) *\*haw-a* ‘torrential rain, torrent, deluge’
748. Proto-Nostratic root *\*haw-* (~ *\*həw-*):  
 (vb.) *\*haw-* ‘to weave, to braid, to plait, to twist, to turn’;  
 (n.) *\*haw-a* ‘the act of weaving, braiding, plaiting’
749. Proto-Nostratic root *\*hay-* (~ *\*həy-*):  
 (vb.) *\*hay-* ‘to live, to be alive’;  
 (n.) *\*hay-a* ‘life, age’  
 Extended form:  
 (vb.) *\*hay-V-w-* ‘to live, to be alive’;  
 (n.) *\*hay-w-a* ‘life, age’
750. Proto-Nostratic root *\*hay-* (~ *\*həy-*):  
 Extended form:  
 (vb.) *\*hay-V-t’-* ‘to swell, to be fat’;  
 (n.) *\*hay-t’-a* ‘a swelling, fat’; (adj.) ‘fat, swollen’
751. Proto-Nostratic root *\*haz-* (~ *\*həz-*):  
 (vb.) *\*haz-* ‘to cut into, to carve, to notch’;  
 (n.) *\*haz-a* ‘that which is cut: incision, notch, nick; that which cuts: saw, chisel, axe, hatchet’
752. Proto-Nostratic root *\*hin-* (~ *\*hen-*):  
 Extended form:  
 (vb.) *\*hin-V-k<sup>h</sup>-* ‘to reach, to come to, to arrive at, to gain; to offer, to present’;  
 (n.) *\*hin-k<sup>h</sup>-a* ‘gain, mastery, experience; offering, present’

753. Proto-Nostratic root *\*hiw-* (~ *\*hew-*), *\*hiy-* (~ *\*hey-*):  
 (vb.) *\*hiw-*, *\*hiy-* ‘to lack, to stand in need, to be in want’;  
 (n.) *\*hiw-a*, *\*hiy-a* ‘need, want, lack, deficiency’
754. Proto-Nostratic (Eurasian only) (n.) *\*hok<sup>h</sup>-a* ‘sharp point’
755. Proto-Nostratic root *\*hok’-*:  
 (vb.) *\*hok’-* ‘to scrape, to scratch’;  
 (n.) *\*hok’-a* ‘scraping, scratching’
756. Proto-Nostratic root *\*hon-*:  
 (vb.) *\*hon-* ‘to swell, to grow, to rise’;  
 (n.) *\*hon-a* ‘height, elevation, swelling’
757. Proto-Nostratic root *\*hul-* (~ *\*hol-*):  
 (vb.) *\*hul-* ‘to destroy, to lay waste, to cause to perish’;  
 (n.) *\*hul-a* ‘ruin, destruction; end, death’
758. Proto-Nostratic (n.) *\*hur-a* (and/or *\*her-a* ?) ‘hawk-like bird: falcon, hawk, eagle, kite’
759. Proto-Nostratic root *\*hur-* (~ *\*hor-*):  
 (vb.) *\*hur-* ‘to pound, to grind, to crush, to waste away or wear down by rubbing’;  
 (n.) *\*hur-a* ‘pestle, mortar’
760. Proto-Nostratic root *\*hut’-* (~ *\*hot’-*):  
 (vb.) *\*hut’-* ‘to shake, to shiver, to tremble’;  
 (n.) *\*hut’-a* ‘trembling, shaking’; (adj.) ‘shaking, shivering, trembling’  
 Note also:  
 (vb.) *\*hat’-* ‘to shake, to tremble; to be shaken, startled, frightened, terrified, afraid’;  
 (n.) *\*hat’-a* ‘trembling, shaking’



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CHAPTER 36

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PROTO-NOSTRATIC \*ʕ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
ʕ-	ʕ-	Ø-	Ø-	ʕh-	Ø-	Ø-	Ø-
-ʕ-	-ʕ-	-Ø-	-Ø-	-ʕh-	-Ø-	-Ø-	-Ø-

761. Proto-Nostratic root \*ʕag- (~ \*ʕəg-):  
 (vb.) \*ʕag- ‘to bud, to sprout, to grow’;  
 (n.) \*ʕag-a ‘outgrowth, bud, sprout, protuberance’
762. Proto-Nostratic root \*ʕak<sup>h</sup>- (~ \*ʕək<sup>h</sup>-):  
 (vb.) \*ʕak<sup>h</sup>- ‘to beat, to strike, to break’;  
 (n.) \*ʕak<sup>h</sup>-a ‘the act of beating, striking, breaking’
763. Proto-Nostratic root \*ʕal- (~ \*ʕəl-):  
 (vb.) \*ʕal- ‘to be high, tall, elevated, exalted; to rise high; to ascend’;  
 (n.) \*ʕal-a ‘highest point: peak, summit, mountain’;  
 (particle) \*ʕal- ‘on, upon, on top of, over, above, beyond’
764. Proto-Nostratic root \*ʕal- (~ \*ʕəl-):  
 (vb.) \*ʕal- ‘to make a fire, to light a fire, to ignite, to kindle, to burn’;  
 (n.) \*ʕal-a ‘fire, torch’
765. Proto-Nostratic root \*ʕam- (~ \*ʕəm-):  
 (vb.) \*ʕam- ‘to sink, to dip, to plunge’;  
 (n.) \*ʕam-a ‘deep place, valley’; (adj.) ‘sunken, deep’
766. Proto-Nostratic root \*ʕam- (~ \*ʕəm-):  
 (vb.) \*ʕam- ‘to lift, to raise, to make high’;  
 (n.) \*ʕam-a ‘highest point, tip, top’  
 Extended form (Semitic and Indo-European):  
 (vb.) \*ʕam-V-d- ‘to lift, to raise, to make high’;  
 (n.) ʕam-d-a ‘highest point, tip, top’
767. Proto-Nostratic root \*ʕam- (~ \*ʕəm-):  
 (vb.) \*ʕam- ‘to shoot, to hurl, to throw’;  
 (n.) \*ʕam-a ‘arrow’

768. Proto-Nostratic root \**ʕan-* (~ \**ʕən-*):  
 (vb.) \**ʕan-* ‘to breathe, to respire, to live’;  
 (n.) \**ʕan-a* ‘life, breath’
769. Proto-Nostratic (n.) \**ʕaŋ-a* ‘upper part’; (particle) \**ʕaŋ-* ‘up, above’
770. Proto-Nostratic root \**ʕap’-* (~ \**ʕəp’-*):  
 (vb.) \**ʕap’-* ‘to grasp, to seize, to take hold of, to take by force’;  
 (n.) \**ʕap’-a* ‘grasp, hold, seizure’
771. Proto-Nostratic (n.) \**ʕar-a* ‘back, rear; hindquarters, behind’
772. Proto-Nostratic root \**ʕar-* (~ \**ʕər-*):  
 Extended form:  
 (vb.) \**ʕar-V-g-* ‘to climb on, to mount; to rise, to ascend; to lift up, to raise’;  
 (n.) \**ʕar-g-a* ‘climbing, mounting’
773. Proto-Nostratic root \**ʕaθh-* (~ \**ʕəθh-*):  
 (vb.) \**ʕaθh-* ‘to move, to proceed, to advance (in years)’;  
 (n.) \**ʕaθh-a* ‘maturity, old age; advance’; (adj.) ‘mature, old; advanced’
774. Proto-Nostratic root \**ʕen-*:  
 (vb.) \**ʕen-* ‘to see, to notice, to pay attention’;  
 (n.) \**ʕen-a* ‘sight, view, attention’
775. Proto-Nostratic root \**ʕeŋ-*:  
 (vb.) \**ʕeŋ-* ‘to think, to consider’;  
 (n.) \**ʕeŋ-a* ‘thought, idea, notion, concept, intention, deliberation’
776. Proto-Nostratic root \**ʕey-*:  
 (vb.) \**ʕey-* ‘to know, to recognize’;  
 (n.) \**ʕey-a* ‘sight, recognition’; (adj.) ‘known, seen, recognized’
777. Proto-Nostratic (n.) \**ʕig-a* ‘young of an animal, calf’
778. Proto-Nostratic root \**ʕim-* (~ \**ʕem-*):  
 (vb.) \**ʕim-* ‘to suck, to swallow’;  
 (n.) \**ʕim-a* ‘the act of sucking, swallowing; breast, nipple, teat’
779. Proto-Nostratic root \**ʕorʷ-*:  
 (vb.) \**ʕorʷ-* ‘to turn or twist round’;  
 (n.) \**ʕorʷ-a* ‘turning, twisting; binding, tying; sewing, weaving’
780. Proto-Nostratic (n.) \**ʕub-a* ‘bosom, breast’

781. Proto-Nostratic root (Eurasian only) \**ɣuk<sup>wh</sup>-* (~ \**ɣok<sup>wh</sup>-*):  
(vb.) \**ɣuk<sup>wh</sup>-* ‘to perceive, to notice, to observe’ (> ‘to see’);  
(n.) \**ɣuk<sup>wh</sup>-a* ‘perception, observation; seeing, sight’ (> ‘eye’)
782. Proto-Nostratic root \**ɣun<sup>v</sup>-* (~ \**ɣon<sup>v</sup>-*):  
(vb.) \**ɣun<sup>v</sup>-* ‘to eat, to drink, to swallow; to feed (on), to suck (milk from a breast)’;  
(n.) \**ɣun<sup>v</sup>-a* ‘food, meal’
783. Proto-Nostratic root \**ɣur-* (~ \**ɣor-*):  
(vb.) \**ɣur-* ‘to be firm, hard, strong’;  
(n.) \**ɣur-a* ‘firmness, hardness, strength’; (adj.) ‘firm, hard, strong’
784. Proto-Nostratic root \**ɣut’-* (~ \**ɣot’-*):  
(vb.) \**ɣut’-* ‘to smell’;  
(n.) \**ɣut’-a* ‘smell, odor, fragrance’
785. Proto-Nostratic (n.) \**ɣuw-a* (~ \**ɣow-a*) ‘herd of small animals, sheep and goats’





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CHAPTER 37

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PROTO-NOSTRATIC \*x

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
x-	x-	Ø-	x-	ḫḫ-	Ø-	Ø-	Ø-
-x-	-x-	-Ø-	-x-	-ḫḫ-	-x-	-Ø-	-Ø-

786. Proto-Nostratic root *\*xal-* (~ *\*xəl-*):  
 (vb.) *\*xal-* ‘to wear down, to wear out, to weaken; to be worn out, worn down, weakened’;  
 (n.) *\*xal-a* ‘weakness, exhaustion, fatigue, weariness’; (adj.) ‘weak, worn out, tired, exhausted, weary’  
 Note also:  
 (vb.) *\*ħal-* ‘to lay waste, to destroy, to kill, to slaughter’;  
 (n.) *\*ħal-a* ‘destruction, violence, killing, slaughter’
787. Proto-Nostratic root *\*xal-* (~ *\*xəl-*):  
 (vb.) *\*xal-* ‘to divide, to allot, to apportion, to enumerate, to count’;  
 (n.) *\*xal-a* ‘division, allotment, portion, share; measurement, calculation, number’
788. Proto-Nostratic root *\*xam-* (~ *\*xəm-*):  
 (vb.) *\*xam-* ‘to be wild, fierce, brave, strong, manly’;  
 (n.) *\*xam-a* ‘a male (human or animal)’  
 Extended form (Dravidian and Indo-European):  
 (vb.) *\*xam-V-d-* ‘to be wild, fierce, brave, strong, manly’;  
 (n.) *\*xam-d-a* ‘a male (human or animal)’ (*\*xam-d-* > *\*xan-d-*)
789. Proto-Nostratic root *\*xan-* (~ *\*xən-*):  
 (vb.) *\*xan-* ‘to sprout, to flourish, to bloom’;  
 (n.) *\*xan-a* ‘sprout, bloom, blossom’
790. Proto-Nostratic root *\*xaŋ-* (~ *\*xəŋ-*):  
 (vb.) *\*xaŋ-* ‘to lift, to raise; to rise, to go upward, to ascend’;  
 (n.) *\*xaŋ-a* ‘that which is most prominent, foremost, visible, or noticeable’;  
 (particle) *\*xaŋ-* ‘on top of, over, above’  
 Extended form:  
 (n.) *\*xaŋ-t<sup>h</sup>-a* ‘the most prominent or foremost (person or thing), front, front part’

791. Proto-Nostratic root *\*xəŋ-* (~ *\*xəŋ-*):  
Extended form:  
(n.) *\*xəŋ-t<sup>h</sup>-a* ‘the most prominent or foremost (person or thing), front, front part’  
Derivative of:  
(vb.) *\*xəŋ-* ‘to lift, to raise; to rise, to go upward, to ascend’;  
(n.) *\*xəŋ-a* ‘that which is most prominent, foremost, visible, or noticeable’;  
(particle) *\*xəŋ-* ‘on top of, over, above’
792. Proto-Nostratic root *\*xət’-* (~ *\*xət’-*):  
(vb.) *\*xət’-* ‘to cut into, to hollow out, to engrave, to prick, to pierce’;  
(n.) *\*xət’-a* ‘slice, carving, engraving, engraved line, incision’
793. Proto-Nostratic root *\*xol-*:  
(vb.) *\*xol-* ‘to be separated or apart from, by oneself, alone; to set apart’;  
(n.) *\*xol-a* ‘solitude, seclusion, loneliness’; (adj.) ‘alone, lonely’

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CHAPTER 38

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PROTO-NOSTRATIC \*x<sup>w</sup>

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
x <sup>w</sup> -	x <sup>w</sup> -	v-/Ø-	xw/u-	ḥh <sup>w</sup> -	w-		v-
-x <sup>w</sup> -	-x <sup>w</sup> -	-v-	-xw/u-	-ḥh <sup>w</sup> -	-x-		-v-

794. Proto-Nostratic root \*x<sup>w</sup>al- (~ \*x<sup>w</sup>əl-):  
 (vb.) \*x<sup>w</sup>al- ‘to pull (off, out), to tear (off, out)’;  
 (n.) \*x<sup>w</sup>al-a ‘the act of pulling or tearing (off, out)’
795. Proto-Nostratic root \*x<sup>w</sup>at’- (~ \*x<sup>w</sup>ət’-):  
 (vb.) \*x<sup>w</sup>at’- ‘to scratch, to scrape’;  
 (n.) \*x<sup>w</sup>at’-a ‘the act of scratching, scraping’
796. Proto-Nostratic root \*x<sup>w</sup>at’- (~ \*x<sup>w</sup>ət’-):  
 (vb.) \*x<sup>w</sup>at’- ‘to chatter, to speak’;  
 (n.) \*x<sup>w</sup>at’-a ‘chatter, talk’
797. Proto-Nostratic root \*x<sup>w</sup>elʷ-:  
 (vb.) \*x<sup>w</sup>elʷ- ‘to gulp down’;  
 (n.) \*x<sup>w</sup>elʷ-a ‘neck, throat’
798. Proto-Nostratic root \*x<sup>w</sup>ir- (~ \*x<sup>w</sup>er-):  
 (vb.) \*x<sup>w</sup>ir- ‘to make a loud noise, to make a shrill sound’;  
 (n.) \*x<sup>w</sup>ir-a ‘loud noise’



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CHAPTER 39

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PROTO-NOSTRATIC \*γ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
γ-	γ-	Ø-	γ-	𐀀-	Ø-	Ø-	Ø-
-γ-	-γ-	-Ø-	-γ-	-𐀀-	-Ø-	-Ø-	-Ø-

799. Proto-Nostratic root \*γam- (~ \*γəm-):  
 (vb.) \*γam- ‘to be or become dark; to cover, to hide’;  
 (n.) \*γam-a ‘darkness; sunset, evening’
800. Proto-Nostratic root \*γil- (~ \*yel-):  
 (vb.) \*γil- ‘to bear, to give birth, to beget (of humans)’;  
 (n.) \*γil-a ‘child, youth, young person’; (adj.) ‘young, immature’
801. Proto-Nostratic root \*γor-:  
 (vb.) \*γor- ‘to leave, to go away, to depart; to separate; to abandon’;  
 (n.) \*γor-a ‘leaving, departure; separation; abandonment’  
 Extended form:  
 (vb.) \*γor-V-b- ‘to leave, to go away, to depart; to separate; to abandon’;  
 (n.) \*γor-b-a ‘leaving, departure; separation; abandonment’



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CHAPTER 40

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PROTO-NOSTRATIC \*y

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
y-	y-	y-/Ø-	y-/Ø-	y-	y-		y-
-y-	-y-	-y-		-y-	-y-	-y-	-y-

802. Proto-Nostratic root *\*yaʔ-* (~ *\*yəʔ-*):  
 (vb.) *\*yaʔ-* ‘to tie, to bind, to gird’;  
 (n.) *\*yaʔ-a* ‘binding, bond, bandage; belt, girdle’
803. Proto-Nostratic (n.) *\*yam-a* ‘water, sea’
804. Proto-Nostratic root *\*yan-* (~ *\*yən-*):  
 (vb.) *\*yan-* ‘to say, to speak’;  
 (n.) *\*yan-a* ‘saying, word, expression’
805. Proto-Nostratic root *\*yaw-* (~ *\*yəw-*):  
 (vb.) *\*yaw-* ‘to produce young’;  
 (n.) *\*yaw-a* ‘youth, young person, child’; (adj.) ‘young’
806. Proto-Nostratic (Eurasianic only) (n.) *\*yiw-a* (~ *\*yew-a*) ‘grain’
807. Proto-Nostratic (n.) *\*yor-a* ‘set of two, group of two; a pair of ...’ (> ‘two’)





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CHAPTER 41

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PROTO-NOSTRATIC \*w

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
w-	w-	v-/Ø-	w-	w-	w-		v-
-w-	-w-	-v-	-w-	-w-	-w-		-v-

808. Proto-Nostratic 1st person personal pronoun stem *\*wa-* (~ *\*wə-*) ‘I, me; we us’
809. Proto-Nostratic sentence particle *\*wa-* (~ *\*wə-*) ‘and, also, but; like, as’
810. Proto-Nostratic root *\*waf-* (~ *\*wəf-*):  
 (vb.) *\*waf-* ‘to call, to cry out, to shout’;  
 (n.) *\*waf-a* ‘cry, howl, clamor, shout, noise’
811. Proto-Nostratic root *\*wad-* (~ *\*wəd-*):  
 (vb.) *\*wad-* ‘to take, to lead, to carry, to bring’;  
 (n.) *\*wad-a* ‘the act of taking, leading, carrying, bringing’
812. Proto-Nostratic root *\*wah-* (~ *\*wəh-*):  
 (vb.) *\*wah-* ‘to strike, to stab, to wound’;  
 (n.) *\*wah-a* ‘wound, scar; knife, sword, blade, spear(head)’
813. Proto-Nostratic root *\*wak’-* (~ *\*wək’-*):  
 (vb.) *\*wak’-* ‘to rouse, to stir up, to excite’;  
 (n.) *\*wak’-a* ‘energy, vigor, strength, power, might’
814. Proto-Nostratic root *\*wal-* (~ *\*wəl-*):  
 (vb.) *\*wal-* ‘to be or become strong’;  
 (n.) *\*wal-a* ‘strength, power’
815. Proto-Nostratic root *\*wal-* (~ *\*wəl-*):  
 (vb.) *\*wal-* ‘to pull (out)’;  
 (n.) *\*wal-a* ‘pulling, dragging’
816. Proto-Nostratic root *\*wal-* (~ *\*wəl-*):  
 (vb.) *\*wal-* ‘to cry out, to call out, to shout’;  
 (n.) *\*wal-a* ‘sound, noise, cry, wail, lamentation, howl, hubbub’
817. Proto-Nostratic root *\*wal-* (~ *\*wəl-*):  
 (vb.) *\*wal-* ‘to go, to go away, to depart’;  
 (n.) *\*wal-a* ‘departure, flight, escape’

818. Proto-Nostratic root *\*wal-* (~ *\*wəl-*):  
 (vb.) *\*wal-* ‘to flow, to wet, to moisten’;  
 (n.) *\*wal-a* ‘flow, trickle; wetness, moisture, dampness’; (adj.) ‘wet, damp’
819. Proto-Nostratic root *\*wal-* (~ *\*wəl-*):  
 (vb.) *\*wal-* ‘to set fire to, to burn, to heat up, to warm’;  
 (n.) *\*wal-a* ‘heat, warmth, boiling’
820. Proto-Nostratic root *\*wal-* (~ *\*wəl-*):  
 (vb.) *\*wal-* ‘to crush, to grind, to wear out; to rub, to press; to be worn out, weak; to fade, to wither, to waste away’;  
 (n.) *\*wal-a* ‘distress, pain, difficulty; weakness, hunger, starvation’
821. Proto-Nostratic root *\*walʷ-* (~ *\*wəʷ-*):  
 (vb.) *\*walʷ-* ‘to turn, to roll, to revolve’;  
 (n.) *\*walʷ-a* ‘circle, circumference; turn, rotation’; (adj.) ‘round’
822. Proto-Nostratic root *\*walʷ-* (~ *\*wəʷ-*):  
 (vb.) *\*walʷ-* ‘to blaze, to shine, to be bright’;  
 (n.) *\*walʷ-a* ‘whiteness, glitter, luster, brightness, light’; (adj.) ‘shining, bright, white’
823. Proto-Nostratic root *\*wam-* (~ *\*wəm-*):  
 (vb.) *\*wam-* ‘to eject, to spit out, to spit up’;  
 (n.) *\*wam-a* ‘spittle, vomit’
824. Proto-Nostratic root *\*wan-* (~ *\*wən-*):  
 (vb.) *\*wan-* ‘to stay, to remain’;  
 (n.) *\*wan-a* ‘abode, dwelling’
825. Proto-Nostratic (n.) *\*wan-a* ‘share, portion, period (of time)’
826. Proto-Nostratic (n.) *\*wan-a* ‘first, first-born, eldest’
827. Proto-Nostratic root *\*wan-* (~ *\*wən-*):  
 (vb.) *\*wan-* ‘to bend’;  
 (n.) *\*wan-a* ‘bend, curve’; (adj.) ‘crooked, bent, curved’
828. Proto-Nostratic root *\*waŋ-* (~ *\*wəŋ-*):  
 (vb.) *\*waŋ-* ‘to strike, to stab, to wound, to cut’;  
 (n.) *\*waŋ-a* ‘cut, slash, gash, wound; harm, injury; dagger, knife’
829. Proto-Nostratic (n.) *\*war-a* ‘man, male, male animal’

830. Proto-Nostratic root *\*war-* (~ *\*wər-*):  
 (vb.) *\*war-* ‘to look, to watch out for, to observe, to care for’;  
 (n.) *\*war-a* ‘watch, vigil, guardianship, care; watchman, guard, keeper, warder’
831. Proto-Nostratic root *\*war-* (~ *\*wər-*):  
 (vb.) *\*war-* ‘to comb’;  
 (n.) *\*war-a* ‘comb’
832. Proto-Nostratic root *\*war-* (~ *\*wər-*):  
 (vb.) *\*war-* ‘to stretch, to extend, to expand’;  
 (n.) *\*war-a* ‘width, breadth, length’; (adj.) ‘wide, broad’  
 Probably identical to:  
 (vb.) *\*war-* ‘to raise, to elevate, to grow, to increase’;  
 (n.) *\*war-a* ‘uppermost, highest, or topmost part’
833. Proto-Nostratic root *\*war-* (~ *\*wər-*):  
 (vb.) *\*war-* ‘to raise, to elevate, to grow, to increase’;  
 (n.) *\*war-a* ‘uppermost, highest, or topmost part’  
 Probably identical to:  
 (vb.) *\*war-* ‘to stretch, to extend, to expand’;  
 (n.) *\*war-a* ‘width, breadth, length’; (adj.) ‘wide, broad’
834. Proto-Nostratic root *\*war-* (~ *\*wər-*):  
 (vb.) *\*war-* ‘to burn, to blaze’;  
 (n.) *\*war-a* ‘blaze, flame, heat, warmth’
835. Proto-Nostratic root *\*war-* (~ *\*wər-*) and/or *\*wir-* (~ *\*wer-*):  
 (vb.) *\*war-* and/or *\*wir-* ‘to say, to speak, to tell, to point out, to make known’;  
 (n.) *\*war-a* and/or *\*wir-a* ‘news, report, gossip, speech’
836. Proto-Nostratic root *\*wasʷ-* (~ *\*wəsʷ-*):  
 (vb.) *\*wasʷ-* ‘to be or become worn out, tired, weary, fatigued, exhausted’;  
 (n.) *\*wasʷ-a* ‘weariness, fatigue, exhaustion’  
 Identical to:  
 (vb.) *\*wasʷ-* ‘to crush, to grind, to pound, to wear out; to wither, to fade, to rot away, to waste away, to dry up, to decay’;  
 (n.) *\*wasʷ-a* ‘the act of crushing, grinding, pounding; wasting away, decay, decomposition’

837. Proto-Nostratic root *\*wasʷ-* (~ *\*wəsʷ-*):  
 (vb.) *\*wasʷ-* ‘to crush, to grind, to pound, to wear out; to wither, to fade, to rot away, to waste away, to dry up, to decay’;  
 (n.) *\*wasʷ-a* ‘the act of crushing, grinding, pounding; wasting away, decay, decomposition’  
 Identical to:  
 (vb.) *\*wasʷ-* ‘to be or become worn out, tired, weary, fatigued, exhausted’;  
 (n.) *\*wasʷ-a* ‘weariness, fatigue, exhaustion’
838. Proto-Nostratic root *\*waš-* (~ *\*wəš-*):  
 (vb.) *\*waš-* ‘to add (to), to augment, to increase, to heap up’;  
 (n.) *\*waš-a* ‘augmentation, increase, addition, increment’; (adj.) ‘increased, augmented, heaped up, filled, full’
839. Proto-Nostratic root *\*wath-* (~ *\*wəth-*):  
 (vb.) *\*wath-* ‘to pass (of time); to grow old, to age’;  
 (n.) *\*wath-a* ‘year, age’; (adj.) ‘old’
840. Proto-Nostratic root *\*wath-* (~ *\*wəth-*):  
 (vb.) *\*wath-* ‘to say, to speak, to be talkative’;  
 (n.) *\*wath-a* ‘sound, cry, chatter, babble, report’
841. Proto-Nostratic (n.) *\*watʷ-a* ‘the belly, stomach, bowels; womb; the interior or inside of anything’
842. Proto-Nostratic exclamation *\*way* ‘woe!’
843. Proto-Nostratic root *\*waž-* (~ *\*wəž-*):  
 (vb.) *\*waž-* ‘to flow’;  
 (n.) *\*waž-a* ‘running water’
844. Proto-Nostratic root *\*wed-*:  
 (vb.) *\*wed-* ‘to strike (with a weapon)’;  
 (n.) *\*wed-a* ‘death, ruin, murder; strike, cut, wound, scar; weapon, axe’
845. Proto-Nostratic root *\*wel-*:  
 (vb.) *\*wel-* ‘to slay, to fight’;  
 (n.) *\*wel-a* ‘conquest, victory, defeat, slaughter, massacre; fight, battle, attack’
846. Proto-Nostratic root *\*welʷ-*:  
 (vb.) *\*welʷ-* ‘to be open, to be vacant’;  
 (n.) *\*welʷ-a* ‘open space, open land, field, meadow’

847. Proto-Nostratic root *\*welʷ-*:  
 (vb.) *\*welʷ-* ‘to well up, to surge, to flow forth, to flood’;  
 (n.) *\*welʷ-a* ‘deluge, flood, inundation; surge, wave’
848. Proto-Nostratic root *\*wetʰ-*:  
 (vb.) *\*wetʰ-* ‘to wet, to moisten’;  
 (n.) *\*wetʰ-a* ‘water’
849. Proto-Nostratic root *\*wig-* (~ *\*weg-*):  
 (vb.) *\*wig-* ‘to carry, to convey’;  
 (n.) *\*wig-a* ‘burden, load; conveyance, cart, vehicle’
850. Proto-Nostratic root *\*wilʷ-* (~ *\*welʷ-*):  
 (vb.) *\*wilʷ-* ‘to become bright, to manifest, to appear, to come into view’;  
 (n.) *\*wilʷ-a* ‘appearance, manifestation; light, brightness, radiance, splendor’;  
 (adj.) ‘bright, manifest, clear’
851. Proto-Nostratic root *\*win-* (~ *\*wen-*) or *\*wiŋ-* (~ *\*weŋ-*):  
 (vb.) *\*win-* or *\*wiŋ-* ‘to strive for, to wish for, to desire’;  
 (n.) *\*win-a* or *\*wiŋ-a* ‘wish, desire’
852. Proto-Nostratic (n.) *\*wir-a* ‘a kind of tree: aspen, alder, poplar, or the like’
853. Proto-Nostratic root (Eurasian only) *\*wos-*:  
 (vb.) *\*wos-* ‘to trade, to deal’;  
 (n.) *\*wos-a* ‘trade, commerce’
854. Proto-Nostratic root *\*woth-*:  
 (vb.) *\*woth-* ‘to take hold of, to seize, to grasp, to collect, to take away’;  
 (n.) *\*woth-a* ‘the act of taking, seizing, grasping’
855. Proto-Nostratic root (Eurasian only) *\*woy-*:  
 (vb.) *\*woy-* ‘to make an effort, to act with energy’;  
 (n.) *\*woy-a* ‘strength, power’
856. Proto-Nostratic root (vb.) *\*woy-*:  
 Extended form:  
 (vb.) *\*woy-V-kh-* ‘to arrange or put in order’;  
 (n.) *\*woy-kh-a* ‘arrangement, order; straightness, correctness, rectitude’; (adj.)  
 ‘straight, right, correct, true’
857. Proto-Nostratic (n.) *\*wun-d-a* (~ *\*won-d-a*) ‘(young, fine, or soft) hair’
858. Proto-Nostratic (n.) *\*wur-a* (~ *\*wor-a*) ‘squirrel’

859. Proto-Nostratic root *\*wurʷ-* (~ *\*worʷ-*):  
(vb.) *\*wurʷ-* ‘to scratch, to incise, to dig up’;  
(n.) *\*wurʷ-a* ‘pit, ditch’
860. Proto-Nostratic root (Eurasian only) *\*wuy-* (~ *\*woy-*) or *\*Huy-* (~ *\*Hoy-*):  
(vb.) *\*wuy-* or *\*Huy-* ‘to swim, to float’;  
(n.) *\*wuy-a* or *\*Huy-a* ‘swim, swimming, floating’

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CHAPTER 42

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PROTO-NOSTRATIC \*m

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
m-	m-	m-	m-	m-	m-	m-	m-
-m-	-m-	-m-	-m-	-m-	-m-	-m-	-m-

861. Proto-Nostratic indefinite pronoun stem *\*ma-* (~ *\*mǝ-*), *\*mi-* (~ *\*me-*), *\*mu-* (~ *\*mo-*) ‘one, someone, somebody, anyone, anybody; other, another’:

Note: This may originally have been a demonstrative stem (as suggested by Illič-Svityč), with three degrees of distance:

Proximate: *\*ma-* (~ *\*mǝ-*) ‘this’;

Intermediate: *\*mi-* (~ *\*me-*) ‘that’;

Distant: *\*mu-* (~ *\*mo-*) ‘that yonder’

As in the stems:

Proximate: *\*k<sup>h</sup>a-* (~ *\*k<sup>h</sup>ǝ-*) ‘this’;

*\*t<sup>h</sup>a-* (~ *\*t<sup>h</sup>ǝ-*) ‘this’;

Intermediate: *\*k<sup>h</sup>i-* (~ *\*k<sup>h</sup>e-*) ‘that’;

*\*t<sup>h</sup>i-* (~ *\*t<sup>h</sup>e-*) ‘that’;

Distant: *\*k<sup>h</sup>u-* (~ *\*k<sup>h</sup>o-*) ‘that yonder’

*\*t<sup>h</sup>u-* (~ *\*t<sup>h</sup>o-*) ‘that yonder’

862. Proto-Nostratic (nursery word) (n.) *\*ma(a)* ‘mother, mommy’, (reduplicated) *\*mam(m)a*, *\*mema* ‘mother; (mother’s) breast, milk’; used as a verb, the meaning was probably ‘to suckle, to nurse; to suck (the breast)’
863. Proto-Nostratic negative/prohibitive particle *\*ma(?)*- (~ *\*mǝ(?)*-) ‘no, not’
864. Proto-Nostratic root *\*maʔ-* (~ *\*mǝʔ-*):  
 (vb.) *\*maʔ-* ‘to increase (in number), to be abundant, to be many’;  
 (n.) *\*maʔ-a* ‘large quantity, plenty, abundance’; (adj.) ‘great, big, large, many, abundant’
865. Proto-Nostratic root *\*mad-* (~ *\*mǝd-*):  
 (vb.) *\*mad-* ‘to stretch, to expand, to lengthen, to draw out, to measure out’;  
 (n.) *\*mad-a* ‘measure, measurement, amount; extent, limit’  
 Note also:  
 (vb.) *\*mat’-* ‘to stretch, to expand, to lengthen, to draw out, to measure out’;  
 (n.) *\*mat’-a* ‘measure, measurement, amount; extent, limit’
866. Proto-Nostratic (n.) *\*mad-w-a* ‘honey, mead’

867. Proto-Nostratic root *\*mag-* (~ *\*mǝg-*):  
 (vb.) *\*mag-* ‘to be of great influence, importance, or power; to be eminent, exalted, highly esteemed, glorious, illustrious’;  
 (n.) *\*mag-a* ‘strength, power, might; glory, splendor, magnificence, grandeur, nobility, honor, distinction, excellence’; (adj.) ‘strong, powerful, eminent, exalted, highly esteemed, glorious, illustrious’
868. Proto-Nostratic (Eurasian only) (n.) *\*mag-a* ‘earth, land’
869. Proto-Nostratic (n.) *\*mag-a* ‘young person, child’; (adj.) ‘young’
870. Proto-Nostratic root *\*mah-* (~ *\*mǝh-*):  
 (vb.) *\*mah-* ‘to increase, to swell, to exceed, to surpass, to be great’;  
 (n.) *\*mah-a* ‘bigness, greatness, fullness, excellence’; (adj.) ‘big, great, full’
871. Proto-Nostratic (n.) *\*mak<sup>h</sup>-a* ‘neck’
872. Proto-Nostratic root *\*mak<sup>h</sup>-* (~ *\*mǝk<sup>h</sup>-*):  
 (vb.) *\*mak<sup>h</sup>-* ‘to deceive, to trick, to cheat; to be deceived, troubled, confused, perplexed’;  
 (n.) *\*mak<sup>h</sup>-a* ‘deception, trickery, confusion’
873. Proto-Nostratic root *\*mak’-* (~ *\*mǝk’-*):  
 (vb.) *\*mak’-* ‘to be great, strong, mighty, powerful’;  
 (n.) *\*mak’-a* ‘strength, power’; (adj.) ‘great, strong, powerful; much, many’  
 Note also:  
 (vb.) *\*mik’-* ‘to exceed, to surpass, to be in excess, to grow, to increase, to swell, to expand’;  
 (n.) *\*mik’-a* ‘growth, excess, increase, abundance, fullness’; (adj.) ‘large, big, great, much’
874. Proto-Nostratic root *\*mak’-* (~ *\*mǝk’-*):  
 (vb.) *\*mak’-* ‘to be happy, cheerful; to be pleasant, agreeable’;  
 (n.) *\*mak’-a* ‘happiness, joy, pleasure’
875. Proto-Nostratic (n.) *\*mal-a* ‘hill, mountain’
876. Proto-Nostratic root *\*mal-* (~ *\*mǝl-*):  
 (vb.) *\*mal-* ‘to fill, to be or become full, to increase’;  
 (n.) *\*mal-a* ‘fullness, abundance’; (adj.) ‘full, filled, abundant, numerous, many’



877. Proto-Nostratic root *\*mal-* (~ *\*məl-*):  
 (vb.) *\*mal-* ‘to be favorably disposed towards, to care about, to be devoted to, to like’;  
 (n.) *\*mal-a* ‘goodness, pleasantness’; (adj.) ‘good, pleasant, pleasing’
878. Proto-Nostratic (n.) *\*mal-a* ‘honey’
879. Proto-Nostratic root *\*mal-* (~ *\*məl-*):  
 (vb.) *\*mal-* ‘to draw (out), to squeeze (out), to suck (out); to give suck, to suckle, to nurse’;  
 (n.) *\*mal-a* ‘milk; breast’
880. Proto-Nostratic root (Eurasian only) *\*mal-* (~ *\*məl-*):  
 (vb.) *\*mal-* ‘to rub, to wipe, to stroke’;  
 (n.) *\*mal-a* ‘the act of rubbing, wiping, stroking’
881. Proto-Nostratic (adj.) *\*mal-a* ‘other, next, second’
882. Proto-Nostratic root *\*mal-* (~ *\*məl-*):  
 (vb.) *\*mal-* ‘to bend, to twist, to turn’;  
 (n.) *\*mal-a* ‘bend, turn’  
 Derivative:  
 (vb.) *\*mal-* ‘to be confused, perplexed, disturbed, bewildered, mistaken’;  
 (n.) *\*mal-a* ‘confusion, perplexity, bewilderment’
883. Proto-Nostratic root *\*mal-* (~ *\*məl-*):  
 (vb.) *\*mal-* ‘to be confused, perplexed, disturbed, bewildered, mistaken’;  
 (n.) *\*mal-a* ‘confusion, perplexity, bewilderment’  
 Derivative of:  
 (vb.) *\*mal-* ‘to bend, to twist, to turn’;  
 (n.) *\*mal-a* ‘bend, turn’
884. Proto-Nostratic root *\*man-* (~ *\*mən-*):  
 (vb.) *\*man-* ‘to suckle, to nurse (a child), to breastfeed’;  
 (n.) *\*man-a* ‘suckling, young (of humans and animals); breast’
885. Proto-Nostratic root *\*man-* (~ *\*mən-*):  
 (vb.) *\*man-* ‘to count, to reckon’ (> ‘to consider, to think’ > ‘to recount’ > ‘to say, to speak’);  
 (n.) *\*man-a* ‘counting, reckoning’

Note: There may be more than one Proto-Nostratic root involved here: (1) *\*man-* ‘to count, to reckon’ and (2) *\*man-* ‘to say, to speak’.

886. Proto-Nostratic root *\*man-* (~ *\*mən-*):  
 (vb.) *\*man-* ‘to stay, to remain, to abide, to dwell; to be firm, steadfast, established, enduring’;  
 (n.) *\*man-a* ‘dwelling, house, home’
887. Proto-Nostratic root *\*man-* (~ *\*mən-*):  
 (vb.) *\*man-* ‘to protect, to watch over, to stand guard over, to care for, to take care of, to tend’;  
 (n.) *\*man-a* ‘protection, care, guardianship; watchman, herdsman, guardian, protector’
888. Proto-Nostratic root *\*man-* (~ *\*mən-*):  
 (vb.) *\*man-* ‘to swell, to expand, to grow, to increase’;  
 (n.) *\*man-a* ‘multitude, crowd, herd, flock’  
 Related to (extended form):  
 (vb.) *\*man-V-g-* ‘to swell, to expand, to grow, to increase’;  
 (n.) *\*man-g-a* ‘great number, large amount; abundance; multitude, crowd’;  
 (adj.) ‘many, numerous, copious, abundant; swollen, big, fat, strong’
889. Proto-Nostratic root *\*man-* (~ *\*mən-*):  
 Extended form:  
 (vb.) *\*man-V-g-* ‘to swell, to expand, to grow, to increase’;  
 (n.) *\*man-g-a* ‘great number, large amount; abundance; multitude, crowd’;  
 (adj.) ‘many, numerous, copious, abundant; swollen, big, fat, strong’  
 Related to:  
 (vb.) *\*man-* ‘to swell, to expand, to grow, to increase’;  
 (n.) *\*man-a* ‘multitude, crowd, herd, flock’
890. Proto-Nostratic root *\*man<sup>v</sup>-* (~ *\*mən<sup>v</sup>-*):  
 (vb.) *\*man<sup>v</sup>-* ‘to lust after, to desire passionately, to copulate with, to have sexual intercourse, to beget’;  
 (n.) *\*man<sup>v</sup>-a* ‘ardent desire, passion, lust’  
 Derivative:  
 (n.) *\*man<sup>v</sup>-a* ‘progenitor, begetter, man, male; penis’
891. Proto-Nostratic (n.) *\*man<sup>v</sup>-a* ‘progenitor, begetter, man, male; penis’  
 Derivative of:  
 (vb.) *\*man<sup>v</sup>-* ‘to lust after, to desire passionately, to copulate with, to have sexual intercourse, to beget’;  
 (n.) *\*man<sup>v</sup>-a* ‘ardent desire, passion, lust’
892. Proto-Nostratic root *\*man<sup>v</sup>-* (~ *\*mən<sup>v</sup>-*):  
 (vb.) *\*man<sup>v</sup>-* ‘to hold, to take’;  
 (n.) *\*man<sup>v</sup>-a* ‘hand, paw’

893. Proto-Nostratic root *\*maq<sup>wh</sup>-* (~ *\*məq<sup>wh</sup>-*):  
 (vb.) *\*maq<sup>wh</sup>-* ‘to twist, to turn; to overturn, to turn upside down, to turn round’;  
 (n.) *\*maq<sup>wh</sup>-a* ‘twist, turn; overturning’
894. Proto-Nostratic root *\*mar-* (~ *\*mər-*):  
 (vb.) *\*mar-* ‘to strive against, to oppose, to fight with or against; to argue, to quarrel, to contend, to dispute, to disagree’;  
 (n.) *\*mar-a* ‘quarrel, argument, dispute, fight’
895. Proto-Nostratic (n.) *\*mar-a* ‘(young) man, male (human or animal)’
896. Proto-Nostratic root *\*mar-* (~ *\*mər-*):  
 (vb.) *\*mar-* ‘to turn: to overturn, to turn round, to turn over, etc.; to twist, to whirl, to roll; to bend’;  
 (n.) *\*mar-a* ‘the act of turning, turning over, turning round, etc.; rope, coil, string, cord’  
 Derivative:  
 (vb.) *\*mar-* ‘to go (round), to walk, to run; to go after, to run or chase after’ (> ‘to seek, to pursue’);  
 (n.) *\*mar-a* ‘walk, walking, passage; road, track, way’  
 Note also:  
 (vb.) *\*mur-* ‘to turn, to twist, to bend’;  
 (n.) *\*mur-a* ‘bend, curve’
897. Proto-Nostratic root *\*mar-* (~ *\*mər-*):  
 (vb.) *\*mar-* ‘to go (round), to walk, to run; to go after, to run or chase after’ (> ‘to seek, to pursue’);  
 (n.) *\*mar-a* ‘walk, walking, passage; road, track, way’  
 Derivative of:  
 (vb.) *\*mar-* ‘to turn: to overturn, to turn round, to turn over, etc.; to twist, to whirl, to roll; to bend’;  
 (n.) *\*mar-a* ‘the act of turning, turning over, turning round, etc.; rope, coil, string, cord’
898. Proto-Nostratic root *\*mar-* (~ *\*mər-*):  
 (vb.) *\*mar-* ‘to smear, to anoint, to rub (with grease, oil, fat, ointment)’;  
 (n.) *\*mar-a* ‘grease, oil, fat, ointment, unguent’
899. Proto-Nostratic root *\*mar-* (~ *\*mər-*):  
 (vb.) *\*mar-* ‘to soil, to stain’;  
 (n.) *\*mar-a* ‘spot, stain, dirt’; (adj.) ‘dark, dirty, soiled’
900. Proto-Nostratic (Eurasian only) (n.) *\*mar-a* ‘marsh, swamp’

901. Proto-Nostratic (n.) *\*mar-a* ‘tree, wood’
902. Proto-Nostratic root *\*mar<sup>y</sup>-* (~ *\*mər<sup>y</sup>-*):  
 (vb.) *\*mar<sup>y</sup>-* ‘to be weakened, to wither away, to decay; to be or become sick, to fall ill; to die (from a fatal disease), to perish’;  
 (n.) *\*mar<sup>y</sup>-a* ‘sickness, illness, fatal disease, malady, ailment; death’
903. Proto-Nostratic (n.) *\*mar-a* ‘horned animal, game’
904. Proto-Nostratic (n.) *\*math<sup>h</sup>-a* or *\*meth<sup>h</sup>-a* ‘middle’; (particle) *\*math<sup>h</sup>-* or *\*meth<sup>h</sup>-* ‘in the middle of, with, among’
905. Proto-Nostratic root *\*mat’-* (~ *\*mət’-*):  
 (vb.) *\*mat’-* ‘to stretch, to expand, to lengthen, to draw out, to measure out’;  
 (n.) *\*mat’-a* ‘measure, measurement, amount; extent, limit’  
 Note also:  
 (vb.) *\*mad-* ‘to stretch, to expand, to lengthen, to draw out, to measure out’;  
 (n.) *\*mad-a* ‘measure, measurement, amount; extent, limit’
906. Proto-Nostratic root *\*mat’-* (~ *\*mət’-*):  
 (vb.) *\*mat’-* ‘to be or become wet, moist’;  
 (n.) *\*mat’-a* ‘moisture, wetness; dew, rain’; (adj.) ‘wet, moist’
907. Proto-Nostratic root *\*maw-* (~ *\*məw-*):  
 (vb.) *\*maw-* ‘to be wet’;  
 (n.) *\*maw-a* ‘water, liquid, fluid’
908. Proto-Nostratic root *\*mel-*:  
 (vb.) *\*mel-* ‘to rub’ (> ‘to rub into, to crush, to grind down; to rub smooth, to polish, to wipe; to wear out, to soften; to become worn out, weak, tired, weary’);  
 (n.) *\*mel-a* ‘smoothness, softness; weakness’; (adj.) ‘smooth, soft, tender, weak, worn out, tired, weary’  
 Note also:  
 (vb.) *\*mol-* ‘to rub’ (> ‘to rub into, to crush, to grind down; to rub smooth, to polish, to wipe; to wear out, to soften; to become worn out, weak, tired, weary’);  
 (n.) *\*mol-a* ‘crumb, piece, morsel; mortar’; (adj.) ‘crushed, ground, worn out or down’
909. Proto-Nostratic interrogative pronoun stem *\*mi-* (~ *\*me-*) ‘who?, which?, what?’, relative pronoun stem *\*ma-* (~ *\*mə-*) ‘who, which, what’
910. Proto-Nostratic first person singular *\*mi* (~ *\*me*) ‘I, me’, first person plural (inclusive) *\*ma* (~ *\*mə*) ‘we, us’

Note: In Afrasian and Dravidian, first person singular *\*mi* and first person plural (inclusive) *\*ma* have been mostly lost.

911. Proto-Nostratic root *\*miʔ-* (~ *\*meʔ-*):  
 (vb.) *\*miʔ-* ‘to cut’;  
 (n.) *\*miʔ-a* ‘cutting instrument: knife’ (later also ‘sickle, scythe’)
912. Proto-Nostratic root *\*mig-* (~ *\*meg-*):  
 (vb.) *\*mig-* ‘to give’;  
 (n.) *\*mig-a* ‘gift’
913. Proto-Nostratic root *\*miḥ-* (~ *\*meḥ-*):  
 (vb.) *\*miḥ-* ‘to measure, to mark off’;  
 (n.) *\*miḥ-a* ‘measure, measurement’
914. Proto-Nostratic root *\*mik’-* (~ *\*mek’-*):  
 (vb.) *\*mik’-* ‘to exceed, to surpass, to be in excess, to grow, to increase, to swell, to expand’;  
 (n.) *\*mik’-a* ‘growth, excess, increase, abundance, fullness’; (adj.) ‘large, big, great, much’  
 Note also:  
 (vb.) *\*mak’-* ‘to be great, strong, mighty, powerful’;  
 (n.) *\*mak’-a* ‘strength, power’; (adj.) ‘great, strong, powerful; much, many’
915. Proto-Nostratic (n.) *\*min-a* ‘(a kind of) fish’
916. Proto-Nostratic root *\*mir-* (~ *\*mer-*):  
 (vb.) *\*mir-* ‘to stab, to pierce, to wound, to cause pain’;  
 (n.) *\*mir-a* ‘wound, pain’
917. Proto-Nostratic root *\*mol-*:  
 (vb.) *\*mol-* ‘to rub’ (> ‘to rub into, to crush, to grind down; to rub smooth, to polish, to wipe; to wear out, to soften; to become worn out, weak, tired, weary’);  
 (n.) *\*mol-a* ‘crumb, piece, morsel; mortar’; (adj.) ‘crushed, ground, worn out or down’  
 Note also:  
 (vb.) *\*mel-* ‘to rub’ (> ‘to rub into, to crush, to grind down; to rub smooth, to polish, to wipe; to wear out, to soften; to become worn out, weak, tired, weary’);  
 (n.) *\*mel-a* ‘smoothness, softness; weakness’; (adj.) ‘smooth, soft, tender, weak, worn out, tired, weary’
918. Proto-Nostratic (n.) *\*mor-a* ‘any body of water: sea, lake, flood, stream, pool, cistern, reservoir, basin, canal, channel’

919. Proto-Nostratic root *\*mud-* (~ *\*mod-*):  
 (vb.) *\*mud-* ‘to finish, to end, to complete, to accomplish, to achieve, to perish’;  
 (n.) *\*mud-a* ‘end, finish, completion, accomplishment, achievement’
920. Proto-Nostratic *\*muk’-* (~ *\*mok’-*):  
 (vb.) *\*muk’-* ‘to strain, to make great efforts’;  
 (n.) *\*muk’-a* ‘straining (as a woman in labor or as when defecating), effort, fatigue, suffering’
921. Proto-Nostratic root *\*mun-* (~ *\*mon-*):  
 (vb.) *\*mun-* ‘to protrude, to stand out; to jut out; to be first, foremost, in front of’;  
 (n.) *\*mun-a* ‘topmost or most prominent part, highest or farthest point’
922. Proto-Nostratic (n.) *\*mun-a* ‘egg, testicle’  
 Extended form (Dravidian and Indo-European [only in Slavic]):  
 (n.) *\*mun-d-a* (~ *\*mon-d-a*) ‘egg, testicle’
923. Proto-Nostratic root *\*muŋ-* (~ *\*moŋ-*):  
 (vb.) *\*muŋ-* ‘to torment, to torture, to afflict; to cause pain, trouble, distress, suffering, difficulty; to suffer; to be in pain, trouble, distress, suffering, difficulty’;  
 (n.) *\*muŋ-a* ‘suffering, pain, malady, difficulty, distress, affliction, calamity, misery’
924. Proto-Nostratic root *\*mur-* (~ *\*mor-*):  
 (vb.) *\*mur-* ‘to crush, to break, to destroy’;  
 (n.) *\*mur-a* ‘break, breach, rupture, fracture’; (adj.) ‘crushed, broken, destroyed, ruptured, mutilated; weakened’
925. Proto-Nostratic root *\*mur-* (~ *\*mor-*):  
 (vb.) *\*mur-* ‘to turn, to twist, to bend’;  
 (n.) *\*mur-a* ‘bend, curve’  
 Note also:  
 (vb.) *\*mar-* ‘to turn: to overturn, to turn round, to turn over, etc.; to twist, to whirl, to roll; to bend’;  
 (n.) *\*mar-a* ‘the act of turning, turning over, turning round, etc.; rope, coil, string, cord’
926. Proto-Nostratic (Eurasian only) (n.) *\*mur-a* ‘mulberry, blackberry’
927. Proto-Nostratic root *\*mur-* (~ *\*mor-*):  
 (vb.) *\*mur-* ‘to make noise, to make sound, to murmur’;  
 (n.) *\*mur-a* ‘noise, sound, murmur’

Reduplicated:

(vb.) \**mur-mur-* ‘to make noise, to make sound, to murmur’;

(n.) \**mur-mur-a* ‘noise, sound, murmur’

928. Proto-Nostratic root \**mus<sup>y</sup>-* (~ \**mos<sup>y</sup>-*):

(vb.) \**mus<sup>y</sup>-* ‘to immerse, dip, or plunge in water, to bathe’;

(n.) \**mus<sup>y</sup>-a* ‘immersion, dip, plunge, bath’

Extended form (Indo-European and Uralic):

(vb.) \**mus<sup>y</sup>-V-k’-* ‘to immerse, dip, or plunge in water, to bathe’;

(n.) \**mus<sup>y</sup>-k’-a* ‘immersion, dip, plunge, bath’

929. Proto-Nostratic root \**muy-* (~ \**moy-*):

(vb.) \**muy-* ‘to return, to give back’;

(n.) \**muy-a* ‘that which is returned or given back: return, recompense, requital, repayment, etc.’





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CHAPTER 43

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PROTO-NOSTRATIC \*n

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
n-	n-	n-	n-	n-	n-	n-	n-
-n-	-n-	-n-/- <u>n</u> -	-n-	-n-	-n-	-n-	-n-

930. Proto-Nostratic first person singular personal pronoun *\*na* (~ *\*nə*) ‘I, me’

Note: On the basis of Dravidian (and possibly Altaic), the original form of this stem may have been *\*ŋa* (~ *\*ŋə*), but this is not certain. Sumerian [Emegir] *ĝá.e* [= /ŋa-/] ‘I’ supports such a reconstruction as well.

931. Proto-Nostratic first person plural exclusive personal pronoun *\*na* (~ *\*nə*) ‘we, us’

932. Proto-Nostratic deictic particle *\*na* (~ *\*nə*), *\*ni* (~ *\*ne*) ‘this, that’

933. Proto-Nostratic interrogative-relative particle *\*na-* (~ *\*nə-*)

934. Proto-Nostratic negative/prohibitive particle *\*na* (~ *\*nə*), *\*ni* (~ *\*ne*), *\*nu* (~ *\*no*) ‘no, not’

935. Proto-Nostratic root *\*naʃ-* (~ *\*nəʃ-*):  
 (vb.) *\*naʃ-* ‘to come, to go, to journey, to travel’;  
 (n.) *\*naʃ-a* ‘journey’

936. Proto-Nostratic root *\*nab-* (~ *\*nəb-*):  
 (vb.) *\*nab-* ‘to burst forth, to gush forth’;  
 (n.) *\*nab-a* ‘a bursting or gushing forth’  
 Derivative:  
 (n.) *\*nab-a* ‘heavy rain, storm cloud, cloudy sky’

937. Proto-Nostratic (n.) (Eurasianic only) *\*nab-a* ‘heavy rain, storm cloud, cloudy sky’  
 Derivative of:  
 (vb.) *\*nab-* ‘to burst forth, to gush forth’;  
 (n.) *\*nab-a* ‘a bursting or gushing forth’

938. Proto-Nostratic root *\*nadʷ-* (~ *\*nədʷ-*):  
 (vb.) *\*nadʷ-* ‘to press, to crush, to mash’;  
 (n.) *\*nadʷ-a* ‘anything crushed or mashed’

939. Proto-Nostratic root *\*nad<sup>y</sup>-* (~ *\*nəd<sup>y</sup>-*):  
 (vb.) *\*nad<sup>y</sup>-* ‘to vex, to disturb, to annoy, to irritate, to agitate; to be annoying, irritating, malicious, rude, bad, mean, base’;  
 (n.) *\*nad<sup>y</sup>-a* ‘vexation, disturbance, annoyance, irritation, trouble’; (adj.) ‘annoying, irritating, malicious, rude, bad, mean, base’
940. Proto-Nostratic root *\*nag-* (~ *\*nəg-*):  
 (vb.) *\*nag-* ‘to strike, to split, to pierce, to stab’;  
 (n.) *\*nag-a* ‘stroke, blow, wound’
941. Proto-Nostratic root *\*naḥ-* (~ *\*nəḥ-*):  
 (vb.) *\*naḥ-* ‘to tremble, to shake; to fear, to be afraid’;  
 (n.) *\*naḥ-a* ‘fear’
942. Proto-Nostratic (n.) *\*nak<sup>h</sup>-a* ‘(animal) skin, pelt, hide’
943. Proto-Nostratic root *\*nak<sup>wh</sup>-* (~ *\*nək<sup>wh</sup>-*):  
 (vb.) *\*nak<sup>wh</sup>-* ‘to lie down, to go to sleep, to go to bed’;  
 (n.) *\*nak<sup>wh</sup>-a* ‘bedtime, evening, nighttime’
944. Proto-Nostratic root *\*nap<sup>h</sup>-* (~ *\*nəp<sup>h</sup>-*), *\*nip<sup>h</sup>-* (~ *\*nep<sup>h</sup>-*), *\*nup<sup>h</sup>-* (~ *\*nop<sup>h</sup>-*):  
 (vb.) *\*nap<sup>h</sup>-*, *\*nip<sup>h</sup>-*, *\*nup<sup>h</sup>-* ‘to breathe, to blow’;  
 (n.) *\*nap<sup>h</sup>-a*, *\*nip<sup>h</sup>-a*, *\*nup<sup>h</sup>-a* ‘breath, life’
945. Proto-Nostratic (n.) *\*nat’-a* ‘woman, female relative’
946. Proto-Nostratic root *\*nat’-* (~ *\*nət’-*):  
 (vb.) *\*nat’-* ‘to moisten, to wet’;  
 (n.) *\*nat’-a* ‘wetness, dampness, moistness’; (adj.) ‘wet, damp, moist’
947. Proto-Nostratic (n.) *\*ner-a* ‘the highest, foremost, or most prominent person or thing’
948. Proto-Nostratic root *\*net<sup>y</sup>-*:  
 (vb.) *\*net<sup>y</sup>-* ‘to turn, to twist together, to tie, to bind, to weave, to entwine’;  
 (n.) *\*net<sup>y</sup>-a* ‘anything twisted together, woven, entwined: mat, net, web, etc.; weaving, entwining, braiding’
949. Proto-Nostratic second person personal pronoun stem *\*ni* (~ *\*ne*) and/or *\*na* (~ *\*nə*) ‘you’
950. Proto-Nostratic root *\*nik<sup>h</sup>-* (~ *\*nek<sup>h</sup>-*):  
 (vb.) *\*nik<sup>h</sup>-* ‘to strike, to hit’;  
 (n.) *\*nik<sup>h</sup>-a* ‘injury, harm, damage, wound, murder, destruction; suffering, pain’

951. Proto-Nostratic root *\*nitʰ-* (~ *\*netʰ-*):  
 (vb.) *\*nitʰ-* ‘to lift (up), to raise; to carry, to take; to rise, to arise’;  
 (n.) *\*nitʰ-a* ‘the act of lifting, raising, carrying’
952. Proto-Nostratic root *\*nusʷ-* (~ *\*nosʷ-*):  
 (vb.) *\*nusʷ-* ‘to be small, minute, soft, weak, delicate’;  
 (n.) *\*nusʷ-a* ‘smallness, insufficiency, decrease, diminishment’; (adj.) ‘small, minute, soft, weak, delicate’  
 Derivatives:  
 (n.) *\*nusʷ-a* ‘woman, female; any female connected by marriage: wife, bride, sister-in-law, daughter-in-law’  
 (vb.) *\*nusʷ-* ‘to be weakened, debilitated, sick; to ache, to suffer, to be in pain’;  
 (n.) *\*nusʷ-a* ‘weakness, sickness, disease, malady, ache, pain, affliction’
953. Proto-Nostratic (n.) *\*nusʷ-a* ‘woman, female; any female connected by marriage: wife, bride, sister-in-law, daughter-in-law’  
 Derivative of:  
 (vb.) *\*nusʷ-* ‘to be small, minute, soft, weak, delicate’;  
 (n.) *\*nusʷ-a* ‘smallness, insufficiency, decrease, diminishment’; (adj.) ‘small, minute, soft, weak, delicate’
- Semantic development as in Naikri *koraʃ* ‘daughter-in-law, bride’ and Telugu *kōḍalu* ‘daughter-in-law’, both from the same stem found in Tamil *kuṛa* ‘young, tender’, Kannaḍa *koḍa* ‘tenderness, tender age, youth’, Tuḷu *korè* ‘weak, small’, etc.
954. Proto-Nostratic root *\*nusʷ-* (~ *\*nosʷ-*):  
 (vb.) *\*nusʷ-* ‘to be weakened, debilitated, sick; to ache, to suffer, to be in pain’;  
 (n.) *\*nusʷ-a* ‘weakness, sickness, disease, malady, ache, pain, affliction’  
 Derivative of:  
 (vb.) *\*nusʷ-* ‘to be small, minute, soft, weak, delicate’;  
 (n.) *\*nusʷ-a* ‘smallness, insufficiency, decrease, diminishment’; (adj.) ‘small, minute, soft, weak, delicate’
955. Proto-Nostratic (adv.) *\*nuw-* ‘now, at present, currently’



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CHAPTER 44

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PROTO-NOSTRATIC \*nʷ

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
nʷ-	n-	ñ-		n-	nʷ-	nʷ-	
-nʷ-	-n-	-ñ-		-n-	-nʷ-	-nʷ-	

956. Proto-Nostratic root \*nʷaɫ- (~ \*nʷəɫ-):  
 Extended form:  
 (vb.) \*nʷaɫ-V-r- ‘to appear, to arise, to sprout, to come into being; to grow (up), to mature’;  
 (n.) \*nʷaɫ-r-a ‘shoot, sprout, seedling’  
 Derivative:  
 (n.) \*nʷaɫ-r-a ‘young man, boy, youth’
957. Proto-Nostratic (n.) \*nʷaɫ-r-a ‘young man, boy, youth’  
 Derivative of:  
 (vb.) \*nʷaɫ-V-r- ‘to appear, to arise, to sprout, to come into being; to grow (up), to mature’;  
 (n.) \*nʷaɫ-r-a ‘shoot, sprout, seedling’
958. Proto-Nostratic root \*nʷam- (~ \*nʷəm-):  
 (vb.) \*nʷam- ‘to press, to squeeze’;  
 (n.) \*nʷam-a ‘pressing, squeezing’
959. Proto-Nostratic (n.) \*nʷaph-a ‘offspring, descendant, young one’
960. Proto-Nostratic root \*nʷukʰ- (~ \*nʷokʰ-):  
 (vb.) \*nʷukʰ- ‘to shake, to tremble’;  
 (n.) \*nʷukʰ-a ‘shaking, trembling’



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CHAPTER 45

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PROTO-NOSTRATIC \*1

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
l-	l-	l-	l-	l-	l-	l-	
-l-	-l-	-l-	-l-	-l-	-l-	-l-	-l-

961. Proto-Nostratic root *\*lab-* (~ *\*l̥ab-*):  
 (vb.) *\*lab-* ‘to take hold of, to grasp’;  
 (n.) *\*lab-a* ‘taking, grasping’  
 Possible derivative:  
 (vb.) *\*lab-* ‘to eat greedily, to lap (up), to suck milk’;  
 (n.) *\*lab-a* ‘eating, sucking’
962. Proto-Nostratic root *\*lab-* (~ *\*l̥ab-*):  
 (vb.) *\*lab-* ‘to eat greedily, to lap (up), to suck milk’;  
 (n.) *\*lab-a* ‘eating, sucking’  
 Possibly related to or derived from:  
 (vb.) *\*lab-* ‘to take hold of, to grasp’;  
 (n.) *\*lab-a* ‘taking, grasping’
- Assuming semantic development from ‘to grasp with the teeth’ > ‘to eat greedily’ as in Proto-Tungus *\*laba-da-* ‘to eat greedily’.
963. Proto-Nostratic root *\*lag-* (~ *\*l̥ag-*):  
 (vb.) *\*lag-* ‘to put, place, lay, or set down’;  
 (n.) *\*lag-a* ‘the act of putting, placing, laying, or setting down’
964. Proto-Nostratic root *\*lah-* (~ *\*l̥ah-*):  
 (vb.) *\*lah-* ‘to shine, to blaze, to burn’;  
 (n.) *\*lah-a* ‘shining, blazing, burning’
965. Proto-Nostratic root *\*lah̄-* (~ *\*l̥ah̄-*):  
 (vb.) *\*lah̄-* ‘to make flow, to pour, to moisten, to wet’;  
 (n.) *\*lah̄-a* ‘flowing, pouring; moistness, wetness’
966. Proto-Nostratic root *\*lah̄-* (~ *\*l̥ah̄-*):  
 (vb.) *\*lah̄-* ‘to strike, to fight’;  
 (n.) *\*lah̄-a* ‘fight, battle, slaughter’

967. Proto-Nostratic root *\*lak<sup>h</sup>-* (onomatopoetic):  
 (vb.) *\*lak<sup>h</sup>-* ‘to lick, to lap up’;  
 (n.) *\*lak<sup>h</sup>-a* ‘licking’
968. Proto-Nostratic *\*lak<sup>h</sup>-* (~ *\*lək<sup>h</sup>-*):  
 (vb.) *\*lak<sup>h</sup>-* ‘to go on foot, to travel on foot’;  
 (n.) *\*lak<sup>h</sup>-a* ‘leg, foot’
969. Proto-Nostratic root *\*lak’-* (~ *\*lək’-*):  
 (vb.) *\*lak’-* ‘to gather, to collect’;  
 (n.) *\*lak’-a* ‘collection’; (adj.) ‘gathered, collected, picked, chosen’
970. Proto-Nostratic root *\*lak’-* (~ *\*lək’-*), *\*lik’-* (~ *\*lek’-*), *\*luk’-* (~ *\*lok’-*)  
 (onomatopoetic):  
 (vb.) *\*lak’-*, *\*lik’-*, *\*luk’-* ‘to lick’;  
 (n.) *\*lak’-a*, *\*lik’-a*, *\*luk’-a* ‘licking’
971. Proto-Nostratic root *\*lam-* (~ *\*ləm-*):  
 (vb.) *\*lam-* ‘to bend down, to stoop down, to sink down, to lie down, to duck  
 down; to be or become bent down, curved down; to be low’;  
 (n.) *\*lam-a* ‘lowland, low-lying ground, any piece of land’; (adj.) ‘low’  
 Extended form:  
 (vb.) *\*lam-V-d-* ‘to bend down, to stoop down, to sink down, to lie down, to  
 duck down; to be or become bent down, curved down; to be low’;  
 (n.) *\*lam-d-a* ‘lowland, low-lying ground, any piece of land’; (adj.) ‘low’
972. Proto-Nostratic root *\*lam-* (~ *\*ləm-*) ~ (?) *\*lʷam-* (~ *\*lʷəm-*):  
 (vb.) *\*lam-* ‘to break down or apart (tr.), to crush; to soften, to weaken; to be  
 or become soft, weak, mild, tender, broken, crushed’;  
 (n.) *\*lam-a* ‘softness, weakness’; (adj.) ‘soft, weak, flexible; broken, crushed’
973. Proto-Nostratic root *\*lap<sup>h</sup>-* (~ *\*ləp<sup>h</sup>-*):  
 (vb.) *\*lap<sup>h</sup>-* ‘to stretch out, to flatten’  
 (n.) *\*lap<sup>h</sup>-a* ‘flat surface’; (adj.) ‘flat, broad; even, level’
974. Proto-Nostratic root *\*las<sup>y</sup>-* (~ *\*ləs<sup>y</sup>-*), *\*lis<sup>y</sup>-* (~ *\*les<sup>y</sup>-*), *\*lus<sup>y</sup>-* (~ *\*los<sup>y</sup>-*) (?)  
 (onomatopoetic):  
 (vb.) *\*las<sup>y</sup>-*, *\*lis<sup>y</sup>-*, *\*lus<sup>y</sup>-* ‘to lick, to lap (up)’;  
 (n.) *\*las<sup>y</sup>-a*, *\*lis<sup>y</sup>-a*, *\*lus<sup>y</sup>-a* ‘tongue; lip’
975. Proto-Nostratic (n.) *\*lat<sup>h</sup>-a* ‘skin’
976. Proto-Nostratic root *\*law-* (~ *\*ləw-*):  
 (vb.) *\*law-* ‘to bend, to twist, to turn’;  
 (n.) *\*law-* ‘bend, twist, turn’



977. Proto-Nostratic root *\*law-* ( $\sim$  *\*ləw-*):  
 (vb.) *\*law-* ‘to shine’;  
 (n.) *\*law-a* ‘light, glow’; (adj.) ‘shining, gleaming, glowing, bright’
978. Proto-Nostratic root *\*law-* ( $\sim$  *\*ləw-*):  
 (vb.) *\*law-* ‘to separate, to divide, to part, to sever, to detach’;  
 (n.) *\*law-a* ‘part cut off, separation, division’
979. Proto-Nostratic root *\*law-* ( $\sim$  *\*ləw-*):  
 Extended form:  
 (vb.) *\*law-V-ḥ-* ‘to moisten, to water; to wash, to clean’;  
 (n.) *\*law-ḥ-a* ‘the act of bathing, washing’
980. Proto-Nostratic root *\*lax<sup>w</sup>-* ( $\sim$  *\*ləx<sup>w</sup>-*):  
 (vb.) *\*lax<sup>w</sup>-* ‘to strike, to hit, to beat’;  
 (n.) *\*lax<sup>w</sup>-a* ‘the act of striking, hitting, beating; stroke, hit, blow’
981. Proto-Nostratic root *\*liʔ-* ( $\sim$  *\*leʔ-*):  
 (vb.) *\*liʔ-* ‘to come into being, to arise, to grow, to become’;  
 (n.) *\*liʔ-a* ‘being, becoming’
982. Proto-Nostratic (n.) *\*lip<sup>h</sup>-a* ‘fat, fatty tissue’
983. Proto-Nostratic root *\*lip’-* ( $\sim$  *\*lep’-*):  
 (vb.) *\*lip’-* ‘to form, to fashion, to mold’;  
 (n.) *\*lip’-a* ‘form, mold’



CHAPTER 46

PROTO-NOSTRATIC \*r

				Eurasianic			
Proto-Nostratic	Proto-Afrasian	Proto-Dravid.	Proto-Kartvel.	Proto-IE	Proto-Uralic	Proto-Altaic	Proto-Eskimo
r-	r-		r-	r-	r-		
-r-	-r-	-r-/-r̥-	-r-	-r-	-r-	-r-	-R-

984. Proto-Nostratic root *\*raʔ-* (~ *\*rəʔ-*):  
 (vb.) *\*raʔ-* ‘to see, to perceive’;  
 (n.) *\*raʔ-a* ‘sight, observation, perception’; (adj.) ‘seeing, perceiving’  
 Extended form:  
 (vb.) *\*raʔ-V-y-* ‘to see, to perceive’;  
 (n.) *\*raʔ-y-a* ‘sight, observation, perception’; (adj.) ‘seeing, perceiving’
985. Proto-Nostratic root *\*rag-* (~ *\*rəg-*):  
 (vb.) *\*rag-* ‘to stir, to move, to shake’;  
 (n.) *\*rag-a* ‘trembling, quaking, shaking, rocking; movement; collapse (from shaking)’
986. Proto-Nostratic root *\*rak<sup>h</sup>-* (~ *\*rək<sup>h</sup>-*):  
 (vb.) *\*rak<sup>h</sup>-* ‘to twist, to turn, to bend; to tie, to bind, to fasten’;  
 (n.) *\*rak<sup>h</sup>-a* ‘twist, turn, bend; tie, bond, cord’  
 Derivative:  
 (vb.) *\*rak<sup>h</sup>-* ‘to put, join, fit, or fasten (together); to assemble, to prepare, to construct’;  
 (n.) *\*rak<sup>h</sup>-a* ‘the act of putting, joining, fitting, or fastening (together); the act of assembling, preparing, constructing’
987. Proto-Nostratic root *\*rak<sup>h</sup>-* (~ *\*rək<sup>h</sup>-*):  
 (vb.) *\*rak<sup>h</sup>-* ‘to put, join, fit, or fasten (together); to assemble, to prepare, to construct’;  
 (n.) *\*rak<sup>h</sup>-a* ‘the act of putting, joining, fitting, or fastening (together); the act of assembling, preparing, constructing’  
 Derivative of:  
 (vb.) *\*rak<sup>h</sup>-* ‘to twist, to turn, to bend; to tie, to bind, to fasten’;  
 (n.) *\*rak<sup>h</sup>-a* ‘twist, turn, bend; tie, bond, cord’
988. Proto-Nostratic root *\*rak’-* (~ *\*rək’-*):  
 (vb.) *\*rak’-* ‘to stretch, to extend, to draw out’;  
 (n.) *\*rak’-a* ‘the act of stretching, extending, drawing out; stretch, extension’;  
 (adj.) ‘stretched, extended, drawn out’

989. Proto-Nostratic root *\*rak'*- (~ *\*rək'*-):  
 (vb.) *\*rak'*- 'to observe, to watch, to regard attentively; to supervise, to control';  
 (n.) *\*rak'-a* 'observation, watchfulness, care, protection'
990. Proto-Nostratic root *\*raq'*- (~ *\*rəq'*-):  
 (vb.) *\*raq'*- 'to move quickly, to move back and forth';  
 (n.) *\*raq'-a* 'any rapid motion: shaking, trembling, jumping, dancing, etc.'
991. Proto-Nostratic root *\*rath-* (~ *\*rəth-*):  
 (vb.) *\*rath-* 'to turn, to roll; to run';  
 (n.) *\*rath-a* 'turning, rolling; running'
992. Proto-Nostratic root *\*raw-* (~ *\*rəw-*):  
 Extended form:  
 (vb.) *\*raw-V-ḥ-* 'to be spacious, wide';  
 (n.) *\*raw-ḥ-a* 'space, room'; (adj.) 'spacious, wide'
993. Proto-Nostratic root *\*rek'*-:  
 (vb.) *\*rek'*- 'to sprinkle, to spray, to wet, to moisten';  
 (n.) *\*rek'-a* 'sprinkling, spray, rain'
994. Proto-Nostratic root *\*riy-* (~ *\*rey-*):  
 (vb.) *\*riy-* 'to prosper, to thrive, to flourish, to increase, to grow';  
 (n.) *\*riy-a* 'increase, growth, prosperity, wealth'
995. Proto-Nostratic root *\*rom-*:  
 (vb.) *\*rom-* 'to stop, to rest, to relax';  
 (n.) *\*rom-a* 'rest, quietude, calmness, tranquility, relaxation'; (adj.) 'quiet, tranquil, still, gentle, silent, relaxed'
996. Proto-Nostratic root *\*row-*:  
 (vb.) *\*row-* 'to cut, tear, or break apart';  
 (n.) *\*row-a* 'cut, tear'
997. Proto-Nostratic root *\*rum-* (~ *\*rom-*):  
 (vb.) *\*rum-* 'to grow or become dark; to darken';  
 (n.) *\*rum-a* 'darkness, night; twilight, dusk'; (adj.) 'dark'

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CHAPTER 47

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ENGLISH-NOSTRATIC INDEX

English Meaning	Proto-Nostratic	Number
A		
abandon, to	<i>*č<sup>h</sup>al-</i>	347
	<i>*gaʔ-</i>	362
	<i>*ɣor-</i>	801
	<i>*ɣor-V-b-</i>	801
abandoned	<i>*č<sup>h</sup>al-a</i>	347
	<i>*gaʔ-a</i>	362
abandonment	<i>*gaʔ-a</i>	362
	<i>*ɣor-a</i>	801
	<i>*ɣor-b-a</i>	801
	<i>*q<sup>w</sup>ad-</i>	600
abide, to	<i>*ham-</i>	730
	<i>*man-</i>	886
	<i>*gal-a</i>	376
ability	<i>*hag-</i>	702
ablaze, to be	<i>*gal-</i>	376
able, to be	<i>*k<sup>ʼ</sup>at<sup>h</sup>-</i>	495
add (to), to	<i>*was-</i>	838
abode	<i>*buw-a</i>	88
	<i>*k<sup>h</sup>ay-a</i>	450
	<i>*q<sup>w</sup>ad-a</i>	600
	<i>*ham-a</i>	730
	<i>*wan-a</i>	824
	<i>*g<sup>w</sup>an-</i>	521
abound, to	<i>*ɕal-</i>	763
	<i>*ɕaŋ-</i>	769
above	<i>*xaŋ-</i>	790
	<i>*ʔaph-a</i>	653
	<i>*ʔaph-</i>	653
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above, to be	<i>*t<sup>h</sup>ar-a</i>	207
abraded	<i>*p<sup>h</sup>ul<sup>y</sup>-a</i>	146
abscess	<i>*baž-a</i>	46
abundance	<i>*t<sup>h</sup>ir-a</i>	218
	<i>*t<sup>h</sup>ir-ph-a</i>	219
	<i>*c<sup>ʼ</sup>al-a</i> or <i>*č<sup>ʼ</sup>al-a</i>	320
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	<i>*gar<sup>y</sup>-a</i>	385
	<i>*k<sup>ʼ</sup>an-a</i>	483

English Meaning	Proto-Nostratic	Number
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	*haph-a	735
	*maʔ-a	864
	*mal-a	876
	*man-g-a	889
	*mik'-a	914
abundant	*baž-a	46
	*t <sup>h</sup> ir-a	218
	*k'an-a	483
	*maʔ-a	864
	*mal-a	876
	*man-g-a	889
abundant, to be	*baž-	46
	*maʔ-	864
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accomplishment	*mud-a	919
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accumulation	*k <sup>h</sup> aw-a	448
	*k <sup>h</sup> um-a	462
ache	*gal-a	374
	*nus <sup>y</sup> -a	954
ache, to	*gal-	374
	*nus <sup>y</sup> -	954
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	*mud-	919
achieve an end or a goal, to	*v <sup>h</sup> ar-	270
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acquire, to	*k'an-	481
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action	*t <sup>h</sup> ikh-a	216
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add together, to	*k'at <sup>h</sup> -	495

English Meaning	Proto-Nostratic	Number
addition	* <i>waš-a</i>	838
additional	* <i>ʔaph-a</i>	653
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	* <i>ʕat<sup>h</sup>-a</i>	773
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advance to or toward an end or a goal, to	* <i>ʔ<sup>h</sup>ar-</i>	270
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	* <i>č<sup>ʼ</sup>ir-a</i>	353
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	* <i>hag-a</i>	719
	* <i>muŋ-a</i>	923
	* <i>nus<sup>y</sup>-a</i>	954
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	* <i>k<sup>ʼ</sup>al-</i>	465
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	* <i>dul-</i>	173
	* <i>gal-</i>	557
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English Meaning	Proto-Nostratic	Number
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	* <i>gal-a</i>	570
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ailment	* <i>mar<sup>y</sup>-a</i>	902
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alike	* <i>sam-a</i>	334
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alive, to be	* <i>ɽil-</i>	681
	* <i>ḥay-</i>	749
	* <i>ḥay-V-w-</i>	749
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	* <i>xal-</i>	787
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	* <i>xol-a</i>	793
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and	* <i>ḥar<sup>y</sup>-</i>	741
	* <i>wa- (~ *wǝ-)</i>	809
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	* <i>guw-V-r-</i>	412
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English Meaning	Proto-Nostratic	Number
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annoying	* <i>nady-a</i>	939
annoying, to be	* <i>nady-</i>	939
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	* <i>mi-</i> (~ * <i>me-</i> )	861
	* <i>mu-</i> (~ * <i>mo-</i> )	861
anus	* <i>k'uŋ-a</i>	517
anybody [indefinite pronoun stem]	* <i>ma-</i> (~ * <i>mə-</i> )	861
	* <i>mi-</i> (~ * <i>me-</i> )	861
	* <i>mu-</i> (~ * <i>mo-</i> )	861
anyone [indefinite pronoun stem]	* <i>ma-</i> (~ * <i>mə-</i> )	861
	* <i>mi-</i> (~ * <i>me-</i> )	861
	* <i>mu-</i> (~ * <i>mo-</i> )	861
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	* <i>nʷaʃ-V-r-</i>	956
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English Meaning	Proto-Nostratic	Number
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	*gab-a	365
	*har-a	738
armful	*hap <sup>h</sup> -a	735
armpit	*git'-a	581
arrange in order, to	*woy-V-k <sup>h</sup> -	856
arrangement	*woy-k <sup>h</sup> -a	856
arrival	*dviʔ-a	265
	*p <sup>h</sup> ar-a	270
	*ʔiy-a	688
	*dviʔ-	265
arrive at, to	*p <sup>h</sup> ar-	270
	*sag- or *sag-	329
	*hin-V-k <sup>h</sup> -	752
	*sam-a	767
arrow	*k <sup>wh</sup> ay-	538
as	*wa- (~ *wə-)	809
	*k <sup>h</sup> ily-	454
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	*sal-	763
	*sar-V-g-	772
	*xay-	790
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	*thuk <sup>h</sup> -a	222
ash(es)	*t <sup>h</sup> er-a	616
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	*k <sup>h</sup> um-a	464
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English Meaning	Proto-Nostratic	Number
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attack	* <i>wel-a</i>	845
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attain an end or a goal, to	* <i>ʔhar-</i>	270
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augment, to	* <i>waʕ-</i>	838
augmentation	* <i>waʕ-a</i>	838
augmented	* <i>waʕ-a</i>	838
aunt	* <i>ʔanʔa</i>	649
aware of, to be or become	* <i>baw-</i>	43
	* <i>guw-</i>	411
awareness	* <i>baw-a</i>	43
	* <i>guw-a</i>	411
axe	* <i>ʔikh-a</i>	216
	* <i>sak<sup>h</sup>-a</i>	331
	* <i>ʕ'ir-a</i>	353
	* <i>gad-a</i>	367
	* <i>gar-a</i>	382
	* <i>ʔ<sup>h</sup>ar-a</i>	613
	* <i>haʕ-a</i>	751
	* <i>wed-a</i>	844

## B

babe	* <i>baaba</i>	4
babble	* <i>wath<sup>h</sup>-a</i>	840
back (= dorsum; dorsal part of the body)	* <i>dub-a</i>	180
	* <i>ʕar-a</i>	771
back of the head	* <i>k'ap<sup>h</sup>-a</i>	489
bad	* <i>t'yaw-a</i>	285
	* <i>nady-a</i>	939
(bad)	* <i>dar-a</i>	1663
bad, to be	* <i>ʔak<sup>h</sup>-</i>	635

English Meaning	Proto-Nostratic	Number
	* <i>nady-</i>	939
bad thing	* <i>t'yaw-a</i>	285
baffle, to	* <i>dul-</i>	183
baffled, to be	* <i>dul-</i>	183
bake, to	* <i>ʔepʰ-</i>	677
(bake, to)	* <i>pʰekʷh-</i>	124
baked	* <i>t'ab-a</i>	227
(baked)	* <i>pʰekʷh-a</i>	124
baking	* <i>k'al-a</i>	476
baking, the act of	* <i>ʔepʰ-a</i>	677
bald	* <i>k'alʷ-a</i>	480
bald spot	* <i>k'alʷ-a</i>	480
ball	* <i>Gʷal-a</i>	598
band (= cord)	* <i>svir-a</i>	297
	* <i>kʰad-a</i>	418
	* <i>k'acʰ-a</i>	469
	* <i>k'ad-a</i>	470
	* <i>k'aŋ-a</i>	485
bandage	* <i>baʕ-a</i>	2
	* <i>yaʔ-a</i>	802
bank (= shore)	* <i>kʰar-a</i>	437
barb	* <i>tʰakʷh-a</i>	610
bare	* <i>k'alʷ-a</i>	480
bark (= outside covering of trees)	* <i>t'orʷ-a</i>	251
	* <i>kʰar-a</i>	435
	* <i>k'woy-a</i>	565
barren	* <i>bar-a</i>	42
barren, to be or become	* <i>bar-</i>	42
barren land	* <i>bar-a</i>	42
base (= vile)	* <i>pʰul-a</i>	135
	* <i>nady-a</i>	939
Base, to be (= to be vile)	* <i>nady-</i>	939
basin	* <i>mor-a</i>	918
bath	* <i>musʷ-a</i>	928
	* <i>musʷ-k'-a</i>	928
bathe, to	* <i>musʷ-</i>	928
	* <i>musʷ-V-k'-</i>	928
bathing, the act of	* <i>law-h-a</i>	979
battle	* <i>bur-a</i>	79
	* <i>Gal-a</i>	570
	* <i>qʰatʰ-a</i>	587
	* <i>wel-a</i>	845
	* <i>lah-a</i>	966

English Meaning	Proto-Nostratic	Number
be, to (= to exist)	*ʔil-	681
beam forth, to	*hal-	705
bear, to (= to endure)	*tʰalʷ-	199
bear, to (= to give birth)	*ʔum-	699
	*ʔil-	800
bear children, to	*bar-	32
bear fruit, to	*pʰir-	129
beast, wild	*guw-a	412
	*guw-r-a	412
beat, to	*tʰapʰ-	203
	*tʰapʰ-	238
	*tʰukʰ-	254
	*dʷab-	258
	*pʰum-	275
	*tʰʷad-	276
	*cʰaḥ-	316
	*kʰan-	484
	*kʰʷad-	545
	*kʰʷaḥ-	547
	*qʰatʰ-	587
	*ʕakʰ-	762
	*laxʷ-	980
beaten	*kʰʷaḥ-a	547
beating	*cʰaḥ-a	316
beating, the act of	*cʰaḥ-a	316
	*ʕakʰ-a	762
	*laxʷ-a	980
beautiful, to be	*sʷuʷ-	303
beauty	*bah-a	13
become, to	*buʷ-	89
	*liʔ-	981
becoming (= coming into being)	*liʔ-a	981
bed	*kʰay-a	450
bed, to go to	*nakʷh-	943
bedtime	*nakʷh-a	943
bee	*bay-a	45
	*kʰanʷ-a ~ *kʰinʷ-a ~ *kʰunʷ-a	429
beg, to	*tʰel-	247
beget, to	*kʰan-	481
	*manʷ-	890
beget (of humans), to	*ʔil-	800
begetter	*manʷ-a	891
begin, to	*hal-	707

English Meaning	Proto-Nostratic	Number
beginning	* <i>hal-a</i>	707
begotten	* <i>k'an-a</i>	481
behind (= hindquarters)	* <i>ʕar-a</i>	771
being	* <i>liʔ-a</i>	981
being, to come into	* <i>buw-</i>	89
	* <i>k'al-</i>	478
	* <i>nʷaʕ-V-r-</i>	956
	* <i>liʔ-</i>	981
belly	* <i>k<sup>wh</sup>ur-a</i>	543
	* <i>wat<sup>y</sup>-a</i>	841
belt	* <i>yaʔ-a</i>	802
beneath, that which is	* <i>hal-a</i>	726
bend	* <i>dar-a</i>	162
	* <i>k'um-a</i>	514
	* <i>k'un-a</i>	516
	* <i>han-a</i>	732
	* <i>wan-a</i>	827
	* <i>mal-a</i>	882
	* <i>mur-a</i>	925
	* <i>law-a</i>	976
	* <i>rak<sup>h</sup>-a</i>	986
bend, to	* <i>dar-</i>	162
	* <i>t<sup>h</sup>ak<sup>h</sup>-</i>	196
	* <i>ʕ<sup>h</sup>ok<sup>h</sup>-</i>	350
	* <i>gam-</i>	377
	* <i>gaŋ-</i>	380
	* <i>k'ar-</i>	493
	* <i>k'um-</i>	514
	* <i>k'un-</i>	516
	* <i>Gub-</i>	582
	* <i>G<sup>w</sup>al-</i>	598
	* <i>han-</i>	732
	* <i>wan-</i>	827
	* <i>mal-</i>	882
	* <i>mar-</i>	896
	* <i>mur-</i>	925
	* <i>law-</i>	976
	* <i>rak<sup>h</sup>-</i>	986
bend back, to	* <i>gaŋ-</i>	380
bend down, to	* <i>c'ar-</i>	321
	* <i>lam-</i>	971
	* <i>lam-V-d-</i>	971
bend forward, to	* <i>gaŋ-</i>	380

English Meaning	Proto-Nostratic	Number
bend round, to	* <i>k'aw-</i>	496
bend the body, to	* <i>k'um-</i>	514
bend the head, to	* <i>k'um-</i>	514
bend to the side, to	* <i>gaŋ-</i>	380
bend together, to	* <i>tʰakʰ-</i>	196
	* <i>k'aŋ-</i>	485
	* <i>k'un-</i>	516
bending, the act of	* <i>ʕʰokʰ-a</i>	350
	* <i>k'um-a</i>	514
bends, that which	* <i>dar-a</i>	162
beneficent	* <i>bar-a</i>	36
beneficent, to be	* <i>bar-</i>	36
bent	* <i>dar-a</i>	162
	* <i>kʰon-k'-a</i> , * <i>kʰok'-a</i>	459
	* <i>k'ar-a</i>	493
	* <i>k'aw-a</i>	496
	* <i>gʷar-a</i>	522
	* <i>tʃ'il-a</i>	623
	* <i>wan-a</i>	827
bent, that which is	* <i>k'un-a</i>	516
	* <i>Gub-a</i>	582
bent, to be	* <i>tʰakʰ-</i>	196
	* <i>gam-</i>	377
	* <i>kʰon-V-k'-</i> , * <i>kʰok'-</i>	459
	* <i>tʃ'il-</i>	623
bent down, to be or become	* <i>lam-</i>	971
	* <i>lam-V-d-</i>	971
bent object	* <i>gam-a</i>	377
	* <i>k'um-a</i>	515
bent thing or object	* <i>tʃ'il-a</i>	623
besech, to	* <i>pʰir-</i>	145
	* <i>t'el-</i>	247
besides	* <i>ʔaph-</i>	653
bestow upon, to	* <i>gib-</i>	392
bewilder, to	* <i>dul-</i>	183
bewildered, to be	* <i>dul-</i>	183
	* <i>mal-</i>	883
bewilderment	* <i>mal-a</i>	883
beyond	* <i>ʕal-</i>	763
big	* <i>bir-a</i>	53
	* <i>gad-a</i>	366
	* <i>maʔ-a</i>	864
	* <i>maḥ-a</i>	870

English Meaning	Proto-Nostratic	Number
	* <i>man-g-a</i>	889
	* <i>mik'-a</i>	914
big, to be or become	* <i>gad-</i>	366
big toe	* <i>p<sup>h</sup>al-a</i>	101
bigness	* <i>gad-a</i>	366
	* <i>māh-a</i>	870
billy-goat	* <i>daq<sup>h</sup>-a</i>	161
bind, to	* <i>baʕ-</i>	2
	* <i>t'an-</i>	237
	* <i>sak'w-</i>	332
	* <i>k<sup>h</sup>ad-</i>	418
	* <i>k'ar-</i>	493
	* <i>k<sup>w</sup>hir-</i>	542
	* <i>yaʔ-</i>	802
	* <i>net'y-</i>	948
	* <i>rakh-</i>	986
bind (together), to	* <i>ban-V-d-</i>	27
	* <i>bin-</i>	51
bind together, to	* <i>bag-</i>	12
	* <i>s<sup>y</sup>ir-</i>	297
	* <i>c'ur-</i>	326
	* <i>k'un-</i>	516
	* <i>tʃ'im-</i>	624
bind two things together, to	* <i>k<sup>h</sup>ol<sup>y</sup>-</i>	458
binding	* <i>c'ur-a</i>	326
	* <i>ʕor<sup>y</sup>-a</i>	779
	* <i>yaʔ-a</i>	802
bird, a kind of	* <i>c'ir<sup>y</sup>-a</i>	325
bird, a kind of small	* <i>bul<sup>y</sup>-a</i>	75
birth	* <i>p<sup>h</sup>ir-a</i>	129
	* <i>p<sup>h</sup>it'y-a</i>	133
	* <i>č<sup>h</sup>an-a</i>	348
	* <i>k'al-a</i>	478
	* <i>k'an-a</i>	481
birth, to give	* <i>bar-</i>	32
	* <i>s<sup>y</sup>aw- or *s<sup>y</sup>ew-</i>	291
	* <i>ʔum-</i>	699
	* <i>γil-</i>	800
birth to, to give	* <i>p<sup>h</sup>it'y-</i>	133
bit (= piece; fragment)	* <i>dum-a</i>	185
	* <i>dun<sup>y</sup>-a</i>	190
	* <i>gad-a</i>	367
	* <i>k<sup>h</sup>as-a</i>	443



English Meaning	Proto-Nostratic	Number
bite	* <i>bal-a</i>	22
	* <i>k'ab-a</i>	467
	* <i>gat'y-a</i>	577
	* <i>q'am-a</i>	592
	* <i>t'ar-a</i>	609
bite, to	* <i>bal-</i>	22
	* <i>bur-</i>	82
	* <i>k'ab-</i>	467
	* <i>gat'y-</i>	577
	* <i>q'am-</i>	592
	* <i>t'ar-</i>	609
	* <i>t'ar-V-s-</i>	609
	* <i>ɽit'-</i>	687
biting	* <i>gat'y-a</i>	577
bitter	* <i>ʒem-a</i>	346
	* <i>k<sup>h</sup>ar-a</i>	440
	* <i>gat'y-a</i>	577
	* <i>ham-a</i>	713
bitter, anything that is	* <i>ʒem-a</i>	334
bitter, that which is	* <i>t'yam-a</i>	279
bitter, to be	* <i>t'yam-</i>	279
	* <i>ham-</i>	729
bitter foodstuff, any	* <i>ham-a</i>	729
bitterness	* <i>k<sup>h</sup>ar-a</i>	440
black	* <i>dar-a</i>	164
	* <i>k<sup>h</sup>ar-a</i>	441
	* <i>k<sup>h</sup>um-a</i>	464
	* <i>ham-a</i>	708
	* <i>mur-a</i>	927
blackberry	* <i>mur-a</i>	927
blacken, to	* <i>k<sup>h</sup>um-</i>	464
blackness	* <i>k<sup>h</sup>ar-a</i>	441
	* <i>k'ar-a</i>	492
	* <i>ham-a</i>	708
	* <i>ham-a</i>	708
black object	* <i>ham-a</i>	708
blade (= knife-edge)	* <i>wah-a</i>	812
blade of grass	* <i>k<sup>h</sup>al'y-a</i>	423
blaze	* <i>bud-a</i>	62
	* <i>war-a</i>	834
blaze, to	* <i>t<sup>h</sup>uk<sup>h</sup>-</i>	222
	* <i>d<sup>v</sup>ak<sup>wh</sup>-</i>	259
	* <i>wal'y-</i>	822
	* <i>war-</i>	834
	* <i>lah-</i>	964

English Meaning	Proto-Nostratic	Number
blazing	* <i>lah-a</i>	964
blemish	* <i>dar<sup>y</sup>-a</i>	165
	* <i>gal-a</i>	375
blend	* <i>k'at<sup>h</sup>-a</i>	495
blighted	* <i>c'aw-a</i>	323
	* <i>c'aw-l<sup>y</sup>-a</i>	323
blighted, that which is	* <i>c'aw-a</i>	323
	* <i>c'aw-l<sup>y</sup>-a</i>	323
blind	* <i>bal-a</i>	20
blind, to be or become	* <i>bal-</i>	20
blindness	* <i>bal-a</i>	20
blister	* <i>bug-a</i>	65
	* <i>p<sup>h</sup>ul<sup>y</sup>-a</i>	136
	* <i>dar<sup>y</sup>-a</i>	165
blister, to	* <i>bug-</i>	65
blood	* <i>k<sup>h</sup>ur-a</i>	465
bloom	* <i>buw-a</i>	89
	* <i>xan-a</i>	789
bloom, to	* <i>bul-V-γ-</i>	70
	* <i>xan-</i>	789
blossom	* <i>buw-a</i>	89
	* <i>xan-a</i>	789
blossom, to	* <i>bul-V-γ-</i>	70
blossoming	* <i>bul-γ-a</i>	70
blotch	* <i>dar<sup>y</sup>-a</i>	165
blow (= hit; stroke)	* <i>baḥ-a</i>	15
	* <i>t<sup>h</sup>ap<sup>h</sup>-a</i>	203
	* <i>t'ap<sup>h</sup>-a</i>	238
	* <i>t'aw-a</i>	243
	* <i>t'uk'-a</i>	254
	* <i>d<sup>v</sup>ab-a</i>	258
	* <i>v<sup>h</sup>al-a</i>	268
	* <i>c<sup>h</sup>al-a</i>	317
	* <i>k'ud-a</i>	507
	* <i>q<sup>h</sup>al-a</i>	584
	* <i>nag-a</i>	940
	* <i>lax<sup>w</sup>-a</i>	980
blow (= blast of air)	* <i>bul-a</i>	68
blow, to	* <i>bar-</i>	30
	* <i>bur-</i>	81
	* <i>p<sup>h</sup>as<sup>y</sup>-</i>	117
	* <i>p<sup>h</sup>uš-</i>	139
	* <i>p<sup>h</sup>uw-</i>	148

English Meaning	Proto-Nostratic	Number
	* <i>zim-</i> or * <i>žim-</i>	312
	* <i>ɽup<sup>h</sup>-</i>	700
	* <i>nap<sup>h</sup>-</i> , * <i>nip<sup>h</sup>-</i> , * <i>nup<sup>h</sup>-</i>	944
blow about, to	* <i>bur-</i>	81
	* <i>p<sup>ʷ</sup>ul<sup>y</sup>-</i>	151
	* <i>duw-</i>	193
blowing	* <i>zim-a</i> or * <i>žim-a</i>	312
blowing, the act of	* <i>p<sup>h</sup>uw-a</i>	148
blown about	* <i>duw-a</i>	193
blown about, anything	* <i>duw-a</i>	193
blown about, to be	* <i>duw-</i>	193
(blubber)	* <i>p<sup>h</sup>ul<sup>y</sup>-a</i>	137
blur	* <i>bul-a</i>	72
boar, wild	* <i>s<sup>y</sup>aw-a</i>	292
board (= plank; panel)	* <i>č<sup>ʷ</sup>ir-a</i>	353
body	* <i>k<sup>w</sup>hur-a</i>	543
body of water, any	* <i>mor-a</i>	918
boil (= blister)	* <i>bug-a</i>	65
boil, to	* <i>ɽep<sup>h</sup>-</i>	677
boiling	* <i>wal-a</i>	819
boisterous, to be	* <i>gal-</i>	373
bond	* <i>baɫ-a</i>	2
	* <i>ban-d-a</i>	27
	* <i>bin-a</i>	51
	* <i>k<sup>h</sup>am-a</i> or * <i>q<sup>h</sup>am-a</i>	425
	* <i>ɬ<sup>ʷ</sup>im-a</i>	624
	* <i>yaɽ-a</i>	802
	* <i>rak<sup>h</sup>-a</i>	986
bone	* <i>k<sup>ʷ</sup>os-a</i>	506
bone of leg or arm	* <i>bar-a</i>	40
bore, to	* <i>bur-</i>	80
	* <i>dur-</i>	191
borer	* <i>bur-a</i>	80
born	* <i>k<sup>ʷ</sup>an-a</i>	481
born, to be	* <i>s<sup>y</sup>aw-</i> or * <i>s<sup>y</sup>ew-</i>	291
	* <i>č<sup>h</sup>an-</i>	348
	* <i>k<sup>ʷ</sup>al-</i>	478
bosom	* <i>k<sup>ʷ</sup>an-a</i>	551
	* <i>ɬub-a</i>	780
bottom of anything	* <i>ɽul-a</i>	697
bound (= tied)	* <i>k<sup>ʷ</sup>ar-a</i>	493
bound together	* <i>ɬ<sup>ʷ</sup>im-a</i>	624
bound together, collection of things	* <i>bag-a</i>	12

English Meaning	Proto-Nostratic	Number	
bound together, that which is	* <i>c'ur-a</i>	326	
	* <i>k'ar-a</i>	493	
bound together, to be or become	* <i>t'yar-</i>	280	
bovine, wild	* <i>v<sup>h</sup>om-a</i>	274	
bow down, to	* <i>k'um-</i>	514	
bowels	* <i>wat'y-a</i>	841	
bowing, the act of	* <i>k'um-a</i>	514	
bowl	* <i>k<sup>h</sup>aph-a</i>	432	
boy	* <i>n<sup>v</sup>aɣ-r-a</i>	957	
braid, to	* <i>haw-</i>	748	
braiding	* <i>net'y-a</i>	948	
braiding, the act of	* <i>haw-a</i>	748	
brain	* <i>ɣay-a</i>	666	
branch	* <i>t'or<sup>v</sup>-a</i>	251	
brave, to be	* <i>xam-</i>	788	
	* <i>xam-V-d-</i>	788	
breach	* <i>bad-a</i>	5	
	* <i>v<sup>h</sup>al-m-a</i>	269	
	* <i>mur-a</i>	924	
breadth	* <i>p<sup>h</sup>ar-a</i>	108	
	* <i>t<sup>h</sup>al<sup>v</sup>-a</i>	199	
	* <i>t<sup>h</sup>an<sup>v</sup>-a</i>	201	
	* <i>war-a</i>	832	
break	* <i>bak'-a</i>	17	
	* <i>bit<sup>h</sup>-a</i>	60	
	* <i>p<sup>h</sup>ač<sup>h</sup>-a</i>	90	
	* <i>p<sup>h</sup>as<sup>v</sup>-a</i>	118	
	* <i>p<sup>h</sup>in-a</i>	144	
	* <i>t'a<sup>h</sup>-a</i>	229	
	* <i>gal-a</i>	369	
	* <i>k<sup>h</sup>as-a</i>	443	
	* <i>mur-a</i>	924	
	break, to	* <i>bit<sup>h</sup>-</i>	60
* <i>p<sup>h</sup>as<sup>v</sup>-</i>		118	
* <i>p<sup>h</sup>in-</i>		144	
* <i>dar-</i>		163	
* <i>t<sup>h</sup>ar-</i>		206	
* <i>t'a<sup>h</sup>-</i>		229	
* <i>ɣak<sup>h</sup>-</i>		762	
* <i>mur-</i>		924	
break (apart), to		* <i>p<sup>h</sup>ar-</i>	107
break apart, to		* <i>p<sup>h</sup>ač<sup>h</sup>-</i>	90
	* <i>p'ut'-</i>	152	

English Meaning	Proto-Nostratic	Number
	* <i>čhal-</i>	317
	* <i>lam-</i> ~ (?) * <i>ʎam-</i>	972
	* <i>row-</i>	996
break down, to	* <i>lam-</i> ~ (?) * <i>ʎam-</i>	972
break into pieces, to	* <i>gin-</i>	396
break into small pieces, to	* <i>k'ep'-</i>	500
break off, to	* <i>bir-</i>	55
	* <i>p'ut'-</i>	152
	* <i>čhal-</i>	317
	* <i>gal-</i>	369
	* <i>k<sup>h</sup>as-</i>	443
break open, to	* <i>bak'-</i>	17
	* <i>bit<sup>h</sup>-</i>	60
	* <i>p<sup>h</sup>ač<sup>h</sup>-</i>	90
	* <i>t<sup>h</sup>al-</i>	611
breaking, the act of	* <i>ʕak<sup>h</sup>-a</i>	762
breaking into small pieces, the act of	* <i>k'ep'-a</i>	500
breaking off, the act of	* <i>bir-a</i>	55
breast	* <i>diy-a</i>	178
	* <i>ʒuʒ-a</i>	314
	* <i>k'ar-a</i>	494
	* <i>k'wan-a</i>	551
	* <i>ʕim-a</i>	778
	* <i>ʕub-a</i>	780
	* <i>mal-a</i>	879
	* <i>man-a</i>	884
breast, (mother's)	* <i>mam(m)a</i> , * <i>mema</i>	862
breastfeed, to	* <i>man-</i>	884
breath	* <i>p<sup>h</sup>uš-a</i>	139
	* <i>p<sup>h</sup>uw-a</i>	148
	* <i>šaw-a</i>	357
	* <i>ʔup<sup>h</sup>-a</i>	700
	* <i>ʕan-a</i>	768
	* <i>nap<sup>h</sup>-a</i> , * <i>nip<sup>h</sup>-a</i> , * <i>nup<sup>h</sup>-a</i>	944
breathe, to	* <i>ʕan-</i>	768
	* <i>nap<sup>h</sup>-</i> , * <i>nip<sup>h</sup>-</i> , * <i>nup<sup>h</sup>-</i>	944
breathe deeply, to	* <i>šaw-</i>	357
breathe out, to	* <i>p<sup>h</sup>as<sup>v</sup>-</i>	117
	* <i>p<sup>h</sup>uš-</i>	139
bride	* <i>nus<sup>v</sup>-a</i>	953
bright	* <i>bah-a</i>	13
	* <i>hal-a</i>	705
	* <i>wal<sup>v</sup>-a</i>	822

English Meaning	Proto-Nostratic	Number
	* <i>wilʷ-a</i>	850
	* <i>law-a</i>	977
bright, shining object, any	* <i>q'al-a</i> or * <i>q'el-a</i>	590
bright, to be	* <i>bal-</i>	23
	* <i>bar-</i>	35
	* <i>dilʷ-</i>	175
	* <i>dul-</i>	182
	* <i>t'ay-</i> or * <i>t'iy-</i>	245
	* <i>dʷakʷh-</i>	259
	* <i>walʷ-</i>	822
bright, to be or become	* <i>q'al-</i> or * <i>q'el-</i>	590
bright, to become	* <i>dilʷ-</i>	175
	* <i>wilʷ-</i>	850
bright, to make	* <i>q'al-</i> or * <i>q'el-</i>	590
brighten up, to	* <i>hal-</i>	705
brightness	* <i>bah-a</i>	13
	* <i>bal-a</i>	23
	* <i>bar-a</i>	35
	* <i>t'ay-a</i> or * <i>t'iy-a</i>	245
	* <i>hal-a</i>	705
	* <i>walʷ-a</i>	822
	* <i>wilʷ-a</i>	850
brilliance	* <i>bah-a</i>	13
	* <i>gil-a</i>	580
brilliant	* <i>gil-a</i>	580
bring, to	* <i>day-</i>	171
	* <i>t'oxʷ-</i>	252
	* <i>wad-</i>	811
bring forth, to	* <i>bad-</i>	10
	* <i>pʰir-</i>	129
	* <i>sʷaw-</i> or * <i>sʷew-</i>	291
	* <i>čʰan-</i>	348
bring into action, to	* <i>bad-</i>	10
bring into being, to	* <i>bad-</i>	10
bring to an end, to	* <i>kʷʰal-</i>	528
bring together, to	* <i>k'atʰ-</i>	95
	* <i>gam-</i>	571
bringing, the act of	* <i>wad-a</i>	811
bringing forth	* <i>čʰan-a</i>	348
bristle	* <i>bar-a</i>	29
bristle (up), to	* <i>bar-</i>	29
(broad)	* <i>tʰalʷ-a</i>	199
broad	* <i>pʰal-a</i>	97

English Meaning	Proto-Nostratic	Number
	* <i>p<sup>h</sup>ar-a</i>	108
	* <i>t<sup>h</sup>an<sup>y</sup>-a</i>	201
	* <i>ʔut'-a</i>	701
	* <i>war-a</i>	832
	* <i>lap<sup>h</sup>-a</i>	973
broad, that which is	* <i>p<sup>h</sup>al-a</i>	97
broken	* <i>mur-a</i>	924
	* <i>lam-a</i> ~ (?) * <i>ʔam-a</i>	972
broken, to be or become	* <i>lam-</i> ~ (?) * <i>ʔam-</i>	972
broken-off piece or part	* <i>p'ut'-a</i>	152
brought forth, that which is	* <i>č<sup>h</sup>an-a</i>	348
brow	* <i>q'aw-a</i>	595
bruise, to	* <i>č<sup>h</sup>añ-</i>	316
bubble	* <i>bul-bul-a</i> (> * <i>bum-bul-a</i> )	71
bubble up, to	* <i>bul-bul-</i> (> * <i>bum-bul-</i> )	71
buck (= male of small, hoofed animals)	* <i>buk'-a</i> (~ * <i>bok'-a</i> )	67
	* <i>k<sup>h</sup>ab-a</i>	415
bud	* <i>ʃag-a</i>	761
bud, to	* <i>ʃag-</i>	761
build, to	* <i>t'am-</i>	235
	* <i>k'ad-</i>	470
building	* <i>t'am-a</i>	235
bulbous	* <i>p'ul-a</i>	150
bulge	* <i>bar-a</i>	28
	* <i>p<sup>h</sup>uš-a</i>	139
	* <i>p'ul-a</i>	150
	* <i>t<sup>h</sup>aw-a</i>	212
bulky	* <i>k'w<sup>ur</sup>y-a</i>	566
bulky, to be	* <i>k'w<sup>ur</sup>y-</i>	566
bull	* <i>ʔ<sup>h</sup>ar<sup>y</sup>-a</i>	271
bullock	* <i>ʔ<sup>h</sup>ar<sup>y</sup>-a</i>	271
	* <i>k'w<sup>ow</sup>-a</i>	564
bunch	* <i>bag-a</i>	12
	* <i>k'ar-a</i>	493
bundle	* <i>bag-a</i>	12
	* <i>k'ar-a</i>	493
	* <i>k<sup>w</sup>hir-a</i>	542
burden	* <i>t'an-a</i>	236
	* <i>ʔan-a</i>	645
	* <i>wig-a</i>	849
burn	* <i>p<sup>h</sup>al<sup>y</sup>-a</i>	103
burn, to	* <i>p<sup>h</sup>al<sup>y</sup>-</i>	103
	* <i>p<sup>h</sup>añ-</i>	140

English Meaning	Proto-Nostratic	Number
	* <i>p<sup>h</sup>aḥ-V-w-</i>	140
	* <i>daG-</i>	157
	* <i>dul-</i>	182
	* <i>t<sup>h</sup>ep<sup>h</sup>-</i>	214
	* <i>t<sup>h</sup>uk<sup>h</sup>-</i>	222
	* <i>s<sup>y</sup>ax<sup>w</sup>-</i>	293
	* <i>gub-</i>	403
	* <i>k<sup>h</sup>um-</i>	464
	* <i>k'al-</i>	476
	* <i>k'wat'-</i>	560
	* <i>t<sup>h</sup>er-</i>	616
	* <i>ʔak<sup>wh</sup>-</i>	639
	* <i>ʔeŋ-</i>	676
	* <i>ʔeŋ-V-k'-</i>	676
	* <i>ʔep<sup>h</sup>-</i>	677
	* <i>hag-</i>	702
	* <i>ḥas-</i>	742
	* <i>ʕal-</i>	764
	* <i>wal-</i>	819
	* <i>war-</i>	834
	* <i>lah-</i>	964
burn brightly, to	* <i>t'ay-</i> or * <i>t'iy-</i>	245
burn slowly, to	* <i>k'wam-</i>	550
burned	* <i>t<sup>h</sup>er-a</i>	616
burning	* <i>k'wat'-a</i>	560
	* <i>lah-a</i>	964
burning sensation	* <i>p<sup>h</sup>aly-a</i>	103
burnt wood	* <i>t<sup>h</sup>er-a</i>	616
burst forth, to	* <i>bit<sup>h</sup>-</i>	60
	* <i>nab-</i>	936
bursting forth	* <i>nab-a</i>	936
bush	* <i>ʒag<sup>w</sup>-a</i>	330
bush, a kind of	* <i>d<sup>y</sup>an-w-a</i>	261
bushy	* <i>bar-a</i>	31
bushy, to be	* <i>bar-</i>	31
but	* <i>wa-</i> (~ * <i>wə-</i> )	809
buttocks	* <i>k'uŋ-a</i>	517
buy, to	* <i>k<sup>h</sup>ap'-</i>	433
buzzing insect	* <i>bur<sup>y</sup>-a</i>	87
buzzing sound, to make a	* <i>bur<sup>y</sup>-</i>	87
by me	* <i>ʔiya</i>	689
by oneself, to be	* <i>ʔoy-</i>	696
	* <i>xol-</i>	793



English Meaning	Proto-Nostratic	Number
C		
cackle, to	* <i>k<sup>h</sup>at<sup>h</sup>-</i>	447
	* <i>k'ak'-</i>	471
cackling	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	447
calamity	* <i>muŋ-a</i>	923
calculation	* <i>xal-a</i>	787
calf	* <i>p<sup>h</sup>ar-a</i>	112
	* <i>p<sup>h</sup>ur-a</i>	138
	* <i>ʕig-a</i>	777
call	* <i>ʒaḥ-a</i>	343
	* <i>k'ar-a</i>	491
	* <i>q'wal-a</i>	601
	* <i>q'war-a</i> or * <i>q'wur-a</i>	605
	* <i>q'wapy<sup>h</sup>-a</i>	607
call, to	* <i>q'wapy<sup>h</sup>-</i>	607
	* <i>waf-</i>	810
call (out), to	* <i>ʒaḥ-</i>	343
	* <i>q'wal-</i>	601
call (out to), to	* <i>k'ar-</i>	491
call out, to	* <i>k<sup>h</sup>al-</i>	420
	* <i>q'war-</i> or * <i>q'wur-</i>	605
	* <i>wal-</i>	816
calm	* <i>t'um-a</i>	256
calm, to	* <i>t'um-</i>	256
calm, to be or become	* <i>q'wad-</i>	600
calmness	* <i>t'um-a</i>	256
	* <i>rom-a</i>	995
canal	* <i>gar-a</i>	574
	* <i>mor-a</i>	918
capture, to	* <i>p<sup>h</sup>id-</i>	126
care	* <i>p<sup>h</sup>iny<sup>h</sup>-a</i>	128
	* <i>k<sup>h</sup>al-a</i>	421
	* <i>war-a</i>	830
	* <i>man-a</i>	887
	* <i>rak'-a</i>	989
care about, to	* <i>mal-</i>	877
care for, to (= to like)	* <i>p<sup>h</sup>ar-</i>	106
	* <i>man-</i>	887
care for, to (= to take care of)	* <i>war-</i>	830
carpenter	* <i>t'am-a</i>	235
carry, to	* <i>wad-</i>	811

English Meaning	Proto-Nostratic	Number
	* <i>wig-</i>	849
	* <i>niŋ<sup>h</sup>-</i>	951
carrying, the act of	* <i>wad-a</i>	811
	* <i>niŋ<sup>h</sup>-a</i>	951
cart (= conveyance)	* <i>wig-a</i>	849
carve, to	* <i>bar-</i>	37
	* <i>ħaʒ-</i>	751
carving	* <i>bar-a</i>	37
	* <i>xat'-a</i>	792
carving tool	* <i>ʔak<sup>h</sup>-a</i>	636
cast, to (= to throw; to toss)	* <i>day-</i>	169
	* <i>siħ-</i>	340
cast about	* <i>siħ-a</i>	340
cast-out things	* <i>gud-a</i>	404
casting about, the act of	* <i>siħ-a</i>	340
cattle	* <i>bak'-a</i>	19
cattle, herd of	* <i>bak'-a</i>	19
caustic (= pungent)	* <i>k<sup>h</sup>ar-a</i>	440
cave	* <i>k<sup>h</sup>ay-w-a</i>	452
cavity	* <i>k'um-a</i>	515
	* <i>ħal<sup>v</sup>-a</i>	728
caw, to	* <i>k<sup>h</sup>at<sup>h</sup>-</i>	447
cawing	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	447
cease to function, to	* <i>ʒaw-</i>	345
cereal, a kind of	* <i>ħay-a</i>	714
cessation	* <i>ʒaw-a</i>	345
chaff	* <i>p<sup>h</sup>at'-a</i>	123
chamois	* <i>ʔar-a</i>	657
change, to	* <i>s<sup>v</sup>en<sup>v</sup>-</i>	294
channel	* <i>mor-a</i>	918
char, to	* <i>k<sup>h</sup>um-</i>	464
charcoal	* <i>k<sup>h</sup>um-a</i>	464
	* <i>ʔ<sup>h</sup>er-a</i>	616
charitable, to be	* <i>bar-</i>	36
charred	* <i>ʔ<sup>h</sup>er-a</i>	616
chase after, to	* <i>mar-</i>	897
chase away, to	* <i>gus-</i>	410
chatter	* <i>x<sup>w</sup>at'-a</i>	796
	* <i>wat<sup>h</sup>-a</i>	840
chatter, to	* <i>k'ak'-</i>	471
	* <i>x<sup>w</sup>at'-</i>	796
cheat, to	* <i>mak<sup>h</sup>-</i>	872
cheek	* <i>gen-a</i>	389

English Meaning	Proto-Nostratic	Number
	<i>*k'an-a</i>	482
cheep, to	<i>*c'ir<sup>y</sup>-</i>	325
cheerful, to be	<i>*mak'-</i>	874
chew, to	<i>*k'ep'-</i>	500
	<i>*q'am-</i>	592
	<i>*ʔit'-</i>	687
chewing (the cud)	<i>*k'ep'-a</i>	500
chief (= principal; main; leading)	<i>*p<sup>h</sup>ar-a</i>	109
chief (= ruler)	<i>*t<sup>h</sup>ir-a</i>	619
	<i>*h<sup>h</sup>ak'-a</i>	723
	<i>*h<sup>h</sup>ar-a</i>	739
chieftain	<i>*t<sup>h</sup>ir-a</i>	619
	<i>*h<sup>h</sup>ak'-a</i>	723
child	<i>*baaba</i>	4
	<i>*bar-a</i>	32
	<i>*p<sup>h</sup>il<sup>y</sup>-a</i>	127
	<i>*s<sup>y</sup>aw-a</i> or <i>*s<sup>y</sup>ew-a</i>	291
	<i>*k'an-a</i>	481
	<i>*γil-a</i>	800
	<i>*yaw-a</i>	805
	<i>*mag-a</i>	869
children, to bear	<i>*bar-</i>	32
chill	<i>*k'ul<sup>y</sup>-a</i>	511
chin	<i>*gat<sup>y</sup>-a</i>	578
chip	<i>*bar-a</i>	37
	<i>*t<sup>y</sup>ak<sup>h</sup>-a</i>	277
	<i>*c<sup>h</sup>al-a</i>	318
	<i>*k'ir-a</i> or <i>*k'ur-a</i>	503
chip, to	<i>*t<sup>y</sup>ak<sup>h</sup>-</i>	277
chirp, to	<i>*c'ir<sup>y</sup>-</i>	325
chisel	<i>*t<sup>h</sup>ik<sup>h</sup>-a</i>	216
	<i>*ʔak<sup>h</sup>-a</i>	636
	<i>*h<sup>h</sup>az-a</i>	751
choke, to	<i>*han-V-g-</i>	733
chop, to	<i>*t<sup>y</sup>ak<sup>h</sup>-</i>	277
chop into small pieces, to	<i>*k'ep'-</i>	500
chopping into small pieces, the act of	<i>*k'ep'-a</i>	500
chosen	<i>*lak'-a</i>	969
cinder	<i>*has-a</i>	742
circle	<i>*c'ur-a</i>	326
	<i>*k<sup>h</sup>ar-a</i>	436
	<i>*k<sup>w</sup>hal-a</i>	526
	<i>*G<sup>w</sup>al-a</i>	598

English Meaning	Proto-Nostratic	Number
	*wal <sup>y</sup> -a	821
circuit	*k <sup>w</sup> hal-a	526
circular object, any	*g <sup>w</sup> ar-a	522
circumference	*wal <sup>y</sup> -a	821
cistern	*mor-a	918
clamor	*gal-a	373
	*waf-a	810
clamor, to	*gal-	373
clap of thunder	*gad-a	567
	*gad-gad-a	567
clarification	*k <sup>h</sup> al-a	422
clarify, to	*c'ar- or *č'ar-	322
clarity	*c'ar-a or *č'ar-a	322
	*gal-a	372
clasp	*k <sup>h</sup> on-k'-a, *k <sup>h</sup> ok'-a	459
clatter, loud	*gad-a	567
	*gad-gad-a	567
claw	*t <sup>y</sup> iph-a	287
clay	*diq <sup>h</sup> -a	177
clean, to	*hal-	725
	*law-V-ḥ-	979
clean(ed)	*hal-a	725
cleaned, that which is	*ʔal-a	640
cleaning, the act of	*ʔal-a	640
	*hal-a	725
cleanse, to	*ʔal-	640
clear	*c'ar-a or *č'ar-a	322
	*gal-a	372
	*hal-a	705
	*wil <sup>y</sup> -a	850
clear, to be or become	*c'ar- or *č'ar-	322
	*gal-	372
clear, to make	*c'ar- or *č'ar-	322
	*k <sup>h</sup> al-	422
clearness	*hal-a	705
cleave, to	*bad-	5
	*bak'-	17
	*p <sup>h</sup> al-	95
	*p <sup>h</sup> as <sup>y</sup> -	118
	*p <sup>h</sup> il <sup>y</sup> -	143
	*dun <sup>y</sup> -	190
	*c <sup>h</sup> al-	317
climb on, to	*ʔor <sup>y</sup> -V-g-	693

English Meaning	Proto-Nostratic	Number
	* <i>ʕar-V-g-</i>	772
climbing	* <i>ʕar-g-a</i>	772
cling to, to	* <i>p<sup>h</sup>id-</i>	126
clip, to	* <i>k<sup>h</sup>ir-</i> or * <i>k<sup>h</sup>ur-</i>	503
clipping	* <i>k<sup>h</sup>as-a</i>	443
close	* <i>t<sup>h</sup>an-a</i>	236
close, to	* <i>ʕ<sup>h</sup>uk<sup>h</sup>-</i>	319
	* <i>k<sup>h</sup>ap<sup>h</sup>-</i>	490
closeness	* <i>t<sup>h</sup>an-a</i>	236
closure	* <i>ʕ<sup>h</sup>uk<sup>h</sup>-a</i>	319
cloth	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	445
clothe, to	* <i>k<sup>h</sup>ad-</i>	417
cloud	* <i>p<sup>h</sup>ul<sup>h</sup>-a</i>	151
	* <i>dum-a</i>	187
	(* <i>dum-k<sup>w</sup>-a</i> >) * <i>dun-k<sup>w</sup>-a</i>	188
cloud, (dark)	* <i>t<sup>h</sup>uq<sup>w</sup>-a</i>	257
cloud, storm	* <i>nab-a</i>	937
cloud over, to	* <i>dum-</i>	177
cloudy	* <i>dum-a</i>	177
	(* <i>dum-k<sup>w</sup>-a</i> >) * <i>dun-k<sup>w</sup>-a</i>	178
	* <i>hag-a</i>	720
cloudy, to be	* <i>t<sup>h</sup>uq<sup>w</sup>-</i>	257
cloudy sky	* <i>nab-a</i>	937
cloudy weather	* <i>hag-a</i>	720
club (= weapon)	* <i>k<sup>h</sup>an-a</i>	484
	* <i>k<sup>w</sup>ah-a</i>	547
	* <i>q<sup>w</sup>al-a</i>	603
clump	* <i>k<sup>h</sup>um-a</i>	513
clutch, to	* <i>p<sup>h</sup>id-</i>	126
	* <i>k<sup>h</sup>am-</i> or * <i>q<sup>h</sup>am-</i>	425
coarse	* <i>bar-a</i>	31
	* <i>t<sup>h</sup>ar-a</i>	280
	* <i>k<sup>h</sup>ar-a</i>	439
coarse, that which is	* <i>t<sup>h</sup>ar-a</i>	280
coarse, to be	* <i>bar-</i>	31
	* <i>t<sup>h</sup>ar-</i>	280
coarseness	* <i>bar-a</i>	31
	* <i>k<sup>h</sup>ar-a</i>	439
coil (= loop; cord)	* <i>c<sup>h</sup>ur-a</i>	326
	* <i>mar-a</i>	896
cold (= chill; chilly)	* <i>k<sup>h</sup>ir-a</i>	456
	* <i>k<sup>h</sup>ul<sup>h</sup>-a</i>	511
	* <i>k<sup>w</sup>ar-a</i>	553

English Meaning	Proto-Nostratic	Number
	* <i>q'in-a</i>	597
cold, to be	* <i>k<sup>h</sup>ir-</i>	456
	* <i>k'war-</i>	553
cold, to be or become	* <i>k'ulʷ-</i>	511
	* <i>q'in-</i>	597
coldness	* <i>k'ulʷ-a</i>	511
	* <i>k'war-a</i>	553
collapse	* <i>p<sup>h</sup>ul-a</i>	135
collapse (from shaking)	* <i>rag-a</i>	985
collapse, to	* <i>p<sup>h</sup>ul-</i>	135
collect, to	* <i>gid-</i> or * <i>gid-</i>	393
	* <i>k<sup>h</sup>am-</i>	427
	* <i>k'er-</i>	502
	* <i>ʔas-</i>	658
	* <i>wot<sup>h</sup>-</i>	854
	* <i>lak'-</i>	969
collect (with the hands or arms), to	* <i>haph-</i>	735
collected	* <i>lak'-a</i>	969
collected, that which as been	* <i>haph-a</i>	735
collecting, the act of	* <i>ʔas-a</i>	658
collection	* <i>gid-a</i> or * <i>gid-a</i>	393
	* <i>k<sup>h</sup>am-a</i>	427
	* <i>k'er-a</i>	502
	* <i>gam-a</i>	571
	* <i>lak'-a</i>	969
collection of things bound together	* <i>bag-a</i>	12
comb	* <i>t<sup>h</sup>ar-a</i>	209
	* <i>war-a</i>	831
comb, to	* <i>t<sup>h</sup>iʃ-V-r-</i>	617
	* <i>war-</i>	831
combination of two things, any	* <i>k<sup>h</sup>olʷ-a</i>	458
combine two things together, to	* <i>k<sup>h</sup>olʷ-</i>	458
come, to	* <i>buw-</i>	88
	* <i>gal-</i>	568
	* <i>ʔiy-</i>	688
	* <i>naʃ-</i>	935
come (close to), to	* <i>ʔanʷ-</i>	647
come into being, to	* <i>buw-</i>	89
	* <i>k'al-</i>	478
	* <i>nʷaʃ-V-r-</i>	956
	* <i>liʔ-</i>	981
come into view, to	* <i>wilʷ-</i>	850
come to, to	* <i>dʷiʔ-</i>	265

English Meaning	Proto-Nostratic	Number
	* <i>ɸ<sup>h</sup>ar-</i>	270
	* <i>ħin-V-k<sup>h</sup>-</i>	752
come to an end, to	* <i>k<sup>w</sup>hal-</i>	528
come together, to	* <i>k'at<sup>h</sup>-</i>	495
	* <i>gam-</i>	571
coming	* <i>buw-a</i>	88
coming, the act of	* <i>gal-a</i>	568
command	* <i>ħak'-a</i>	723
command, to	* <i>ħak'-</i>	723
commerce	* <i>wos-a</i>	853
common, to be	* <i>ʔek'-</i>	672
compact	* <i>t<sup>h</sup>ik'-a</i>	217
companion	* <i>ʔar-a</i>	656
complete, to	* <i>k<sup>w</sup>hal-</i>	528
	* <i>mud-</i>	919
completion	* <i>k<sup>w</sup>hal-a</i>	528
	* <i>mud-a</i>	919
comprehension	* <i>k'an<sup>v</sup>-a</i>	487
compression	* <i>k'um-a</i>	513
compulsion	* <i>gid-a</i> or * <i>gid-a</i>	393
conceal, to	* <i>p<sup>h</sup>al-</i>	102
	* <i>q<sup>h</sup>am-</i>	585
	* <i>ħag-</i>	720
concept	* <i>ʕeŋ-a</i>	775
condemnation	* <i>sad<sup>v</sup>-a</i>	328
condyle (of the lower jaw, the shoulder, the elbow, the hip, etc.)	* <i>ʔom-a</i>	690
confine, to	* <i>ħak'-</i>	704
confuse, to	* <i>bul-</i>	72
	* <i>dul-</i>	183
confused, to be	* <i>dal-</i>	159
	* <i>dig-</i>	174
	* <i>dul-</i>	183
	* <i>mak<sup>h</sup>-</i>	872
	* <i>mal-</i>	883
confusion	* <i>bul-a</i>	72
	* <i>dig-a</i>	174
	* <i>dul-a</i>	183
	* <i>k'al-a</i>	477
	* <i>mak<sup>h</sup>-a</i>	872
	* <i>mal-a</i>	883
conglomeration	* <i>k'at<sup>h</sup>-a</i>	495
connection	* <i>tʃ'im-a</i>	611

English Meaning	Proto-Nostratic	Number
conquest	* <i>wel-a</i>	845
consider, to	* <i>day-</i>	170
	* <i>t'yij-</i>	286
	* <i>saḥ-</i> or * <i>šaḥ-</i>	330
	* <i>ʕeŋ-</i>	775
	* <i>man-</i>	885
consideration	* <i>day-a</i>	170
	* <i>t'yij-a</i>	286
	* <i>saḥ-a</i> or * <i>šaḥ-a</i>	330
constrict, to	* <i>han-V-g-</i>	733
constricted	* <i>han-g-a</i>	733
construct, to	* <i>k'ad-</i>	470
	* <i>rak<sup>h</sup>-</i>	987
construct (something) in a skillful manner, to	* <i>t'am-</i>	235
constructed in a skillful manner, that which is	* <i>t'am-a</i>	235
constructing, the act of	* <i>rak<sup>h</sup>-a</i>	987
constructing (something) in a skillful manner, the act of	* <i>t'am-a</i>	235
consume, to	* <i>ʔit'-</i>	687
container	* <i>k<sup>h</sup>aph-a</i>	432
contend, to	* <i>mar-</i>	894
control, to	* <i>rak'-</i>	989
convey, to	* <i>day-</i>	171
	* <i>wig-</i>	849
conveyance (= cart; vehicle)	* <i>wig-a</i>	849
(cook, to)	* <i>p<sup>h</sup>ek<sup>wh</sup>-</i>	124
cook, to	* <i>t'ab-</i>	227
	* <i>gub-</i>	403
	* <i>k'al-</i>	476
	* <i>ʔep<sup>h</sup>-</i>	677
(cooked)	* <i>p<sup>h</sup>ek<sup>wh</sup>-a</i>	124
cooked	* <i>t'ab-a</i>	227
cooking	* <i>k'al-a</i>	476
cooking, that which is used for	* <i>gub-a</i>	403
cooking, the act of	* <i>gub-a</i>	403
	* <i>ʔep<sup>h</sup>-a</i>	677
copious	* <i>man-g-a</i>	889
copulate (with), to	* <i>ʔor<sup>y</sup>-V-g-</i>	693
copulate with, to	* <i>man<sup>y</sup>-</i>	890
copulation	* <i>ʔor<sup>y</sup>-g-a</i>	693
cord	* <i>p<sup>h</sup>ir-a</i>	131



English Meaning	Proto-Nostratic	Number
	* <i>svir-a</i>	298
	* <i>ʒal-a</i>	344
	* <i>gur-a</i>	409
	* <i>kʼaŋ-a</i>	485
	* <i>mar-a</i>	896
	* <i>rakʰ-a</i>	986
cord-like object, any	* <i>svir-a</i>	298
core	* <i>kʰar-a</i>	442
corner	* <i>gaŋ-a</i>	380
	* <i>gol-a</i>	401
correct	* <i>woy-kʰ-a</i>	856
correctness	* <i>woy-kʰ-a</i>	856
cot	* <i>kʰay-a</i>	450
count, to	* <i>xal-</i>	787
	* <i>man-</i>	885
counting	* <i>man-a</i>	885
country, (open)	* <i>qʼan-a</i>	593
couple	* <i>kʰolv-a</i>	458
couple, to	* <i>kʰolv-</i>	458
course	* <i>girʷ-a</i> or * <i>Girʷ-a</i>	400
course, winding	* <i>dar-a</i>	162
cover	* <i>bur-a</i>	83
	* <i>chukʰ-a</i>	319
cover, to	* <i>bur-</i>	83
	* <i>pʰal-</i>	102
	* <i>pʰarʷ-</i>	115
	* <i>tʼaqʼ-</i>	239
	* <i>chukʰ-</i>	319
	* <i>kʰad-</i>	417
	* <i>kʰaph-</i>	490
	* <i>qʰam-</i>	585
	* <i>gam-</i>	799
cover over, to	* <i>dum-</i>	187
	* <i>thum-</i>	224
	* <i>tʼyal-</i> and/or * <i>tʼvil-</i>	278
	* <i>hag-</i>	720
cover up, to	* <i>pʰačʼ-</i>	91
covering	* <i>bur-a</i>	83
	* <i>pʰačʼ-a</i>	91
	* <i>pʰal-a</i>	102
	* <i>pʰarʷ-a</i>	115
	* <i>tʼaqʼ-a</i>	239
	* <i>tʼyal-a</i> and/or * <i>tʼvil-a</i>	278

English Meaning	Proto-Nostratic	Number
	* <i>k<sup>h</sup>ad-a</i>	418
	* <i>k'ap<sup>h</sup>-a</i>	490
	* <i>q<sup>h</sup>am-a</i>	585
cow	* <i>k'w<sup>o</sup>w-a</i>	564
	* <i>ʔaḥ-a</i>	632
crack (= break; fracture; rift)	* <i>bad-a</i>	5
	* <i>bak'-a</i>	17
	* <i>p<sup>h</sup>ač<sup>h</sup>-a</i>	90
	* <i>p<sup>h</sup>al-a</i>	95
	* <i>p<sup>h</sup>il<sup>y</sup>-a</i>	143
	* <i>p<sup>h</sup>al-m-a</i>	269
	* <i>č<sup>h</sup>al-a</i>	317
	* <i>t<sup>ʃ</sup>al-a</i>	611
	* <i>haŋ-a</i>	711
crackling sound	* <i>k'ak'-a</i>	471
craft (= work; trade)	* <i>t'am-a</i>	235
	* <i>k<sup>w</sup>hir-a</i>	542
craftsman	* <i>t'am-a</i>	235
cram, to	* <i>t<sup>h</sup>ur-</i>	226
cram together, to	* <i>hak'-</i>	704
crammed	* <i>k'w<sup>a</sup>ḥ-a</i>	547
cramming	* <i>ʒag-a</i>	305
crane (= large wading bird)	* <i>k'or-a</i> or * <i>k'ar-a</i>	505
(craziness)	* <i>dul-a</i>	183
(crazy, to be)	* <i>dul-</i>	183
(crazy, to drive someone)	* <i>dul-</i>	183
creak, to	* <i>q<sup>h</sup>ar<sup>y</sup>-</i>	586
create, to	* <i>t<sup>h</sup>ikh-</i>	216
	* <i>k'an-</i>	481
	* <i>k<sup>w</sup>hey-</i>	540
create something, tool used to	* <i>t<sup>h</sup>ikh-a</i>	216
creating something, the act of	* <i>t<sup>h</sup>ikh-a</i>	216
creation	* <i>bad-a</i>	10
	* <i>k<sup>w</sup>hey-a</i>	540
crevice	* <i>haŋ-a</i>	711
croak, to	* <i>q<sup>h</sup>ar<sup>y</sup>-</i>	586
crooked	* <i>dar-a</i>	162
	* <i>k<sup>h</sup>on-k'-a</i> , * <i>k<sup>h</sup>ok'-a</i>	459
	* <i>k'ar-a</i>	493
	* <i>wan-a</i>	827
crooked, that which is	* <i>k'un-a</i>	516
crooked, to be	* <i>k<sup>h</sup>on-V-k'-</i> , * <i>k<sup>h</sup>ok'-</i>	459
crossing	* <i>p<sup>h</sup>ar-a</i>	114

English Meaning	Proto-Nostratic	Number	
crowd	* <i>k<sup>h</sup>um-a</i>	462	
	* <i>gam-a</i>	571	
	* <i>man-a</i>	888	
	* <i>man-g-a</i>	889	
crown of head	* <i>k<sup>h</sup>ir-a</i>	455	
crumb	* <i>mol-a</i>	917	
crumb(s)	* <i>č<sup>h</sup>eč<sup>h</sup>-a</i>	349	
crush, to	* <i>bit<sup>y</sup>-</i>	59	
	* <i>bul-</i>	74	
	* <i>diq<sup>h</sup>-</i>	177	
	* <i>t<sup>h</sup>aḥ-</i>	229	
	* <i>č<sup>h</sup>aḥ-</i>	316	
	* <i>č<sup>h</sup>eč<sup>h</sup>-</i>	349	
	* <i>k<sup>w</sup>ar-</i>	555	
	* <i>gar-</i>	573	
	* <i>q<sup>h</sup>am-</i>	592	
	* <i>hur-</i>	759	
	* <i>wal-</i>	820	
	* <i>was<sup>y</sup>-</i>	837	
	* <i>mel-</i>	908	
	* <i>mol-</i>	917	
	* <i>mur-</i>	924	
	* <i>nad<sup>y</sup>-</i>	938	
	* <i>lam- ~ (?) *l<sup>y</sup>am-</i>	972	
	crush into pieces, to crushed	* <i>gin-</i>	397
		* <i>gar-a</i>	573
		* <i>mol-a</i>	917
		* <i>mur-a</i>	924
	crushed, anything	* <i>lam-a ~ (?) *l<sup>y</sup>am-a</i>	972
		* <i>nad<sup>y</sup>-a</i>	938
crushed, that which is	* <i>č<sup>h</sup>eč<sup>h</sup>-a</i>	349	
crushed, to be or become	* <i>lam- ~ (?) *l<sup>y</sup>am-</i>	972	
crushing	* <i>č<sup>h</sup>aḥ-a</i>	316	
crushing, the act of	* <i>č<sup>h</sup>aḥ-a</i>	316	
	* <i>č<sup>h</sup>eč<sup>h</sup>-a</i>	349	
	* <i>gin-a</i>	397	
	* <i>gar-a</i>	573	
	* <i>was<sup>y</sup>-a</i>	837	
	* <i>k<sup>w</sup>oy-a</i>	565	
	* <i>ž<sup>h</sup>aḥ-a</i>	343	
	* <i>k<sup>h</sup>ar-a</i>	491	
crust	* <i>gar-a</i>	572	
	* <i>gar-gar-a</i>	572	
cry			

English Meaning	Proto-Nostratic	Number
	* <i>q</i> ' <i>wal-a</i>	601
	* <i>q</i> ' <i>war-a</i> or * <i>q</i> ' <i>wur-a</i>	605
	* <i>waf-a</i>	810
	* <i>wal-a</i>	816
	* <i>wath-a</i>	840
cry, to	* <i>k</i> <sup><i>h</i></sup> <i>ath-</i>	447
cry (out), to	* <i>ʒaḥ-</i>	343
	* <i>k</i> ' <i>ar-</i>	491
	* <i>q</i> ' <i>wal-</i>	601
cry out, to	* <i>gal-</i>	373
	* <i>q</i> ' <i>war-</i> or * <i>q</i> ' <i>wur-</i>	605
	* <i>waf-</i>	810
	* <i>wal-</i>	816
crying	* <i>k</i> <sup><i>h</i></sup> <i>ath-a</i>	447
cudgel	* <i>k</i> ' <i>an-a</i>	484
	* <i>k</i> ' <i>wah-a</i>	547
cuff (= stroke; blow)	* <i>k</i> ' <i>an-a</i>	484
	* <i>k</i> ' <i>ud-a</i>	507
cup	* <i>k</i> <sup><i>h</i></sup> <i>aph-a</i>	432
current (= stream)	* <i>d</i> <sup><i>v</i></sup> <i>aw-a</i>	263
	* <i>ʒar-a</i> or * <i>ʒar-a</i>	308
	* <i>ḥaph-a</i>	736
currently (= now; at present)	* <i>nuw-</i>	955
curvature	* <i>k</i> ' <i>un-a</i>	516
curve	* <i>dar-a</i>	162
	* <i>k</i> <sup><i>h</i></sup> <i>ar-a</i>	436
	* <i>k</i> ' <i>um-a</i>	514
	* <i>k</i> ' <i>un-a</i>	516
	* <i>ḥan-a</i>	732
	* <i>wan-a</i>	827
	* <i>mur-a</i>	925
curve, to	* <i>k</i> ' <i>um-</i>	514
	* <i>G</i> <sup><i>w</i></sup> <i>al-</i>	598
	* <i>ḥan-</i>	732
curve round, to	* <i>k</i> ' <i>aw-</i>	496
curved	* <i>dar-a</i>	162
	* <i>k</i> <sup><i>h</i></sup> <i>ar-a</i>	436
	* <i>k</i> <sup><i>h</i></sup> <i>on-k'-a</i> , * <i>k</i> <sup><i>h</i></sup> <i>ok'-a</i>	459
	* <i>k</i> ' <i>ar-a</i>	493
	* <i>k</i> ' <i>aw-a</i>	496
	* <i>t</i> <sup><i>ʃ</i></sup> <i>'il-a</i>	623
	* <i>wan-a</i>	837
curved, that which is	* <i>k</i> ' <i>un-a</i>	516

English Meaning	Proto-Nostratic	Number
	* <i>Gub-a</i>	582
curved, to be	* <i>k<sup>h</sup>on-V-k'-</i> , * <i>k<sup>h</sup>ok'-</i>	459
	* <i>t<sup>ʃ</sup>'il-</i>	623
curved down, to be or become	* <i>lam-</i>	971
	* <i>lam-V-d-</i>	971
curved object	* <i>gam-a</i>	377
	* <i>k'um-a</i>	515
curved thing or object	* <i>t<sup>ʃ</sup>'il-a</i>	623
custody	* <i>k<sup>h</sup>al-a</i>	421
cut	* <i>baḥ-a</i>	15
	* <i>ban-a</i>	26
	* <i>dum-a</i>	185
	* <i>t<sup>h</sup>ar-a</i>	206
	* <i>t'ar-a</i>	240
	* <i>t<sup>y</sup>ar-a</i>	283
	* <i>c<sup>h</sup>al-a</i>	317
	* <i>gad-a</i>	367
	* <i>gal-a</i>	369
	* <i>gar-a</i>	382
	* <i>k<sup>h</sup>ar-a</i>	434
	* <i>k<sup>h</sup>as-a</i>	443
	* <i>k'ir-a</i> or * <i>k'ur-a</i>	503
	* <i>k<sup>w</sup>har-a</i>	533
	* <i>q<sup>h</sup>al-a</i>	584
	* <i>t<sup>ʃ</sup><sup>h</sup>ar-a</i>	613
	* <i>t<sup>ʃ</sup><sup>h</sup>ut'-a</i>	621
	* <i>wan-a</i>	823
	* <i>wed-a</i>	844
	* <i>row-a</i>	996
cut, that which is	* <i>č'ir-a</i>	353
	* <i>ḥaz-a</i>	751
cut, to	* <i>baḥ-</i>	15
	* <i>ban-</i>	26
	* <i>dal-</i>	158
	* <i>t'ar-</i>	240
	* <i>t<sup>y</sup>ar-</i>	283
	* <i>c<sup>h</sup>al-</i>	317
	* <i>sak<sup>h</sup>-</i>	331
	* <i>č'ir-</i>	353
	* <i>gad-</i>	367
	* <i>gal-</i>	369
	* <i>gar-</i>	382
	* <i>k<sup>h</sup>ar-</i>	434

English Meaning	Proto-Nostratic	Number
	* <i>k'ir-</i> or * <i>k'ur-</i>	503
	* <i>k<sup>wh</sup>ar-</i>	532
	* <i>k'wat'-</i>	561
	* <i>q<sup>h</sup>al-</i>	584
	* <i>q'wal-</i>	602
	* <i>t<sup>h</sup>ar-</i>	613
	* <i>t<sup>h</sup>ut'-</i>	621
	* <i>wan-</i>	828
	* <i>miʔ-</i>	911
cut a groove, to	* <i>k<sup>wh</sup>ar-</i>	533
cut apart, to	* <i>p'ut'-</i>	152
	* <i>row-</i>	996
cut in half, to	* <i>t'uʔw-</i>	253
cut in two, to	* <i>k'ir-</i> or * <i>k'ur-</i>	503
cut into, to	* <i>bar-</i>	37
	* <i>č'ir-</i>	353
	* <i>k<sup>h</sup>ar-</i>	434
	* <i>k'ir-</i> or * <i>k'ur-</i>	503
	* <i>t<sup>h</sup>ar-</i>	613
	* <i>t<sup>h</sup>ar-V-t'-</i>	614
	* <i>haz-</i>	751
	* <i>xat'-</i>	792
cut into, that which is	* <i>č'ir-a</i>	353
cut into small pieces, to	* <i>t'yak<sup>h</sup>-</i>	277
	* <i>k'ep'-</i>	500
cut (off), to	* <i>dum-</i>	175
	* <i>gad-a</i>	355
cut (off, apart), to	* <i>ʔar-</i>	654
cut off, that which is	* <i>č'ir-a</i>	353
cut off, to	* <i>baḥ-</i>	15
	* <i>bir-</i>	55
	* <i>p'ut'-</i>	152
	* <i>dun<sup>y</sup>-</i>	190
	* <i>č'ir-</i>	353
	* <i>gal-</i>	370
	* <i>k<sup>h</sup>ar-</i>	434
	* <i>k<sup>h</sup>as-</i>	443
	* <i>k'ir-</i> or * <i>k'ur-</i>	503
cut-off piece or part	* <i>p'ut'-a</i>	152
cut open, to	* <i>t<sup>h</sup>al-</i>	611
cut short, to	* <i>k<sup>wh</sup>ar-</i>	534
cut through, to	* <i>č'ir-</i>	353
cuts, that which	* <i>č'ir-a</i>	353

English Meaning	Proto-Nostratic	Number
	* <i>gad-a</i>	367
	* <i>gar-a</i>	382
	* <i>tʰar-a</i>	613
	* <i>ħaz-a</i>	751
cutter	* <i>ʔakh-a</i>	636
cutting	* <i>kʰas-a</i>	443
cutting instrument	* <i>kʷatʷ-a</i>	561
	* <i>miʔ-a</i>	911
cutting into small pieces, the act of	* <i>kʰepʷ-a</i>	500
cutting off, the act of	* <i>bir-a</i>	55
cuttings	* <i>bar-a</i>	37
D		
dagger	* <i>sakh-a</i>	331
	* <i>wan-a</i>	828
damage	* <i>tʰaw-a</i>	243
	* <i>tʰar-a</i>	283
	* <i>kʷed-a</i>	562
	* <i>qʰal-a</i>	584
	* <i>nikʰ-a</i>	950
damage, to	* <i>kʷed-</i>	562
damp	* <i>wal-a</i>	818
	* <i>natʷ-a</i>	946
dampness	* <i>wal-a</i>	818
	* <i>natʷ-a</i>	946
dancing	* <i>raqʷ-a</i>	990
dangle, to	* <i>dulʷ-</i>	184
	* <i>tʰunʷ-V-kʰ-</i>	620
dark	* <i>bal-a</i>	20
	* <i>borʷ-a</i>	61
	* <i>dar-a</i>	164
	* <i>dum-a</i>	187
	(* <i>dum-kʷ-a</i> >) * <i>dun-kʷ-a</i>	188
	* <i>tʰum-a</i>	224
	* <i>kʰar-a</i>	441
	* <i>kʰar-a</i>	492
	* <i>ħag-a</i>	720
	* <i>mar-a</i>	899
	* <i>rum-a</i>	997
dark, that which is	* <i>bul-a</i>	73
dark, to be	* <i>tʰuqʷ-</i>	257
dark, to be or become	* <i>bal-</i>	20

English Meaning	Proto-Nostratic	Number
	* <i>dar-</i>	164
	* <i>γam-</i>	799
dark, to become	* <i>dum-</i>	187
	* <i>t<sup>h</sup>um-</i>	224
	* <i>rum-</i>	997
dark, to grow	* <i>rum-</i>	997
dark, to make	* <i>dum-</i>	187
	* <i>t<sup>y</sup>al-</i> and/or * <i>t<sup>y</sup>il-</i>	278
dark cloud	* <i>k<sup>'</sup>ar-a</i>	492
dark-colored	* <i>bor<sup>y</sup>-a</i>	61
	* <i>k<sup>'</sup>ar-a</i>	492
dark-colored, that which is	* <i>bul-a</i>	68
dark color	* <i>bor<sup>y</sup>-a</i>	73
dark spot	* <i>dar-a</i>	164
darken, to	* <i>dum-</i>	187
	* <i>rum-</i>	997
darkness	* <i>bal-a</i>	20
	* <i>dar-a</i>	164
	* <i>dum-a</i>	187
	(* <i>dum-k<sup>'w</sup>-a</i> >) * <i>dun-k<sup>'w</sup>-a</i>	188
	* <i>t<sup>h</sup>um-a</i>	224
	* <i>t<sup>'</sup>uq<sup>'w</sup>-a</i>	257
	* <i>t<sup>y</sup>al-a</i> and/or * <i>t<sup>y</sup>il-a</i>	278
	* <i>k<sup>h</sup>ar-a</i>	441
	* <i>k<sup>'</sup>ar-a</i>	492
	* <i>ħag-a</i>	720
	* <i>γam-a</i>	799
	* <i>rum-a</i>	997
daughter-in-law	* <i>k<sup>'</sup>el-a</i>	498
	* <i>nus<sup>y</sup>-a</i>	953
day	* <i>dag-a</i>	157
daylight	* <i>dil<sup>y</sup>-a</i>	175
(deadly) disease	* <i>daw-a</i>	168
deal, to (= to trade; to exchange)	* <i>wos-</i>	853
death	* <i>daw-a</i>	168
	* <i>ʒaʔ-a</i>	341
	* <i>k<sup>'w</sup>ed-a</i>	562
	* <i>q<sup>'w</sup>al-a</i>	602
	* <i>ħul-a</i>	757
	* <i>wed-a</i>	844
	* <i>mar<sup>y</sup>-a</i>	902
deathly sick, to become	* <i>daw-</i>	168
debilitated	* <i>ʔeb-a</i>	670



English Meaning	Proto-Nostratic	Number
debilitated, to be	* <i>nus<sup>y</sup>-</i>	954
debilitated, to become	* <i>ʔeb-</i>	670
decay	* <i>bul-a</i>	74
	* <i>t<sup>h</sup>ah-a</i>	195
	* <i>k<sup>w</sup>ed-a</i>	562
	* <i>was<sup>y</sup>-a</i>	837
decay, to	* <i>bad-</i>	9
	* <i>k<sup>w</sup>er-</i>	501
	* <i>k<sup>w</sup>ed-</i>	562
	* <i>was<sup>y</sup>-</i>	837
	* <i>mar<sup>y</sup>-</i>	902
decayed	* <i>k<sup>w</sup>er-a</i>	501
deceive, to	* <i>mak<sup>h</sup>-</i>	872
deceived, to be	* <i>mak<sup>h</sup>-</i>	872
deception	* <i>mak<sup>h</sup>-a</i>	872
declaration	* <i>bak<sup>h</sup>-a</i>	16
declare, to	* <i>bak<sup>h</sup>-</i>	16
decline (= decay)	* <i>bul-a</i>	74
decomposition	* <i>was<sup>y</sup>-a</i>	837
decrease	* <i>ʔek<sup>w</sup>-a</i>	672
	* <i>nus<sup>y</sup>-a</i>	953
decrease, to	* <i>k<sup>w</sup>al-</i>	475
	* <i>k<sup>w</sup>har-</i>	534
	* <i>ʔek<sup>w</sup>-</i>	672
decree	* <i>hak<sup>w</sup>-a</i>	723
decrepit	* <i>ʒaw-a</i>	345
deed	* <i>daw-a</i>	167
	* <i>day-a</i>	169
	* <i>t<sup>h</sup>ikh-a</i>	216
	* <i>k<sup>w</sup>hey-a</i>	540
deep	* <i>ʕam-a</i>	765
deep place	* <i>ʕam-a</i>	765
deer	* <i>ʔil-a</i> (~ * <i>ʔel-a</i> )	682
defeat	* <i>wel-a</i>	845
deficiency	* <i>k<sup>w</sup>al-a</i>	475
	* <i>ʔek<sup>w</sup>-a</i>	672
	* <i>hiw-a</i> , * <i>hiy-a</i>	753
deficit	* <i>gaʔ-a</i>	362
deliberation	* <i>ʕeŋ-a</i>	775
delicate	* <i>nus<sup>y</sup>-a</i>	952
delicate, to be	* <i>nus<sup>y</sup>-</i>	952
delight	* <i>p<sup>h</sup>ar-a</i>	106
delighted with, to be	* <i>p<sup>h</sup>ar-</i>	106

English Meaning	Proto-Nostratic	Number
deluge	* <i>ʔib-a</i>	680
	* <i>haw-a</i>	746
	* <i>welʷ-a</i>	847
dense	* <i>t'an-a</i>	236
	* <i>k'an-a</i>	483
density	* <i>t'an-a</i>	236
	* <i>k'an-a</i>	483
depart, to	* <i>gaʔ-</i>	362
	* <i>ɣor-</i>	801
	* <i>ɣor-V-b-</i>	801
	* <i>wal-</i>	817
departing	* <i>bar-a</i>	41
departure	* <i>ɣor-a</i>	801
	* <i>ɣor-b-a</i>	801
	* <i>wal-a</i>	817
deprivation	* <i>bad-a</i>	8
	* <i>gaʔ-a</i>	362
deprive of, to	* <i>k'al-</i>	475
deprived of	* <i>gaʔ-a</i>	362
depth	* <i>t'al-a</i>	232
deride, to	* <i>zak'-</i>	307
descendant	* <i>pʰasʷ-a</i>	119
	* <i>pʰir-a</i>	129
	* <i>ʔum-a</i>	699
	* <i>nʷapʰ-a</i>	959
	* <i>t'el-a</i>	247
desire	* <i>haw-a</i>	713
	* <i>win-a</i> or * <i>wiŋ-a</i>	851
	* <i>manʷ-a</i>	890
desire, ardent	* <i>haw-</i>	713
desire, to	* <i>win-</i> or * <i>wiŋ-</i>	834
	* <i>manʷ-</i>	890
desire passionately, to	* <i>barʷ-a</i>	42
desolate	* <i>barʷ-</i>	42
desolate, to be or become	* <i>bad-a</i>	6
desolated area	* <i>caħ-</i>	316
destroy, to	* <i>k'wed-</i>	562
	* <i>ħal-</i>	723
	* <i>ħul-</i>	757
	* <i>mur-</i>	924
	* <i>mur-a</i>	924
	* <i>gupʰ-a</i>	407
destroyed	* <i>k'wed-a</i>	562
destruction		

English Meaning	Proto-Nostratic	Number
	* <i>q<sup>w</sup>al-a</i>	602
	* <i>hal-a</i>	724
	* <i>hul-a</i>	757
	* <i>nik<sup>h</sup>-a</i>	950
detach, to	* <i>law-</i>	978
detention	* <i>k<sup>h</sup>al-a</i>	421
deteriorate, to	* <i>s<sup>y</sup>en<sup>y</sup>-</i>	294
devoted to, to be	* <i>mal-</i>	877
dew	* <i>t<sup>l</sup>al<sup>y</sup>-a</i>	234
	* <i>mat<sup>l</sup>-a</i>	906
die, to	* <i>daw-</i>	168
	* <i>ʒaʔ-</i>	341
die (from a fatal disease), to	* <i>mar<sup>y</sup>-</i>	902
die out, to	* <i>gup<sup>h</sup>-</i>	407
difference	* <i>ʔaŋ-a</i>	650
different	* <i>t<sup>h</sup>in-a</i>	272
	* <i>ʔaŋ-a</i>	650
difficulty	* <i>k<sup>l</sup>ac<sup>h</sup>-a</i>	468
	* <i>wal-a</i>	820
	* <i>muŋ-a</i>	923
difficulty, to be in	* <i>muŋ-</i>	923
difficulty, to cause	* <i>muŋ-</i>	923
dig, that which is used to	* <i>gar-a</i>	574
	* <i>ʔak<sup>h</sup>-a</i>	636
dig, to	* <i>k<sup>h</sup>ay-V-w-</i>	452
	* <i>k<sup>w</sup>har-</i>	533
	* <i>gar-</i>	574
	* <i>ʔak<sup>h</sup>-</i>	636
dig out, to	* <i>gal-</i>	370
	* <i>gar-</i>	574
dig up, to	* <i>gar-</i>	574
	* <i>wur<sup>y</sup>-</i>	859
digging	* <i>k<sup>w</sup>har-a</i>	533
	* <i>ʔak<sup>h</sup>-a</i>	636
digging out, the act of	* <i>gal-a</i>	370
diligence	* <i>q<sup>h</sup>ad-a</i>	583
diminish, to	* <i>t<sup>h</sup>ah-</i>	195
	* <i>k<sup>l</sup>al-</i>	475
	* <i>k<sup>w</sup>har-</i>	545
	* <i>ʔek<sup>l</sup>-</i>	672
diminished, to be or become	* <i>k<sup>l</sup>al-</i>	475
diminishment	* <i>ʔek<sup>l</sup>-a</i>	672
	* <i>nus<sup>y</sup>-a</i>	952

English Meaning	Proto-Nostratic	Number
dip (= plunge; immersion)	* <i>mus<sup>y</sup>-a</i>	928
	* <i>mus<sup>y</sup>-k'-a</i>	928
dip, to	* <i>ʕam-</i>	765
dip in water, to	* <i>mus<sup>y</sup>-</i>	928
	* <i>mus<sup>y</sup>-V-k'-</i>	928
dip into, to	* <i>t'al-</i>	232
direct, to	* <i>ħak'-</i>	723
direction	* <i>q<sup>h</sup>ad-a</i>	583
	* <i>ħak'-a</i>	723
dirt	* <i>t'uq<sup>w</sup>-a</i>	257
	* <i>k'ar-a</i>	492
	* <i>mar-a</i>	899
dirty	* <i>k'ar-a</i>	492
	* <i>mar-a</i>	899
dirty, to be	* <i>t'uq<sup>w</sup>-</i>	257
disagree, to	* <i>mar-</i>	894
disclose, to	* <i>k<sup>h</sup>al-</i>	422
discourse	* <i>t'il-a</i>	250
disease	* <i>gal-a</i>	374
	* <i>nus<sup>y</sup>-a</i>	954
disease, (deadly)	* <i>daw-a</i>	168
disheartened, to be	* <i>ħag-</i>	719
disjoined	* <i>ʔar-a</i>	654
dispersed	* <i>t<sup>h</sup>ar-a</i>	205
dispute	* <i>bur-a</i>	78
	* <i>mar-a</i>	894
dispute, to	* <i>mar-</i>	894
dissipate, to	* <i>bad-</i>	6
dissipation	* <i>bad-a</i>	6
	* <i>t<sup>h</sup>ah-a</i>	195
dissolve, to	* <i>gar-</i>	573
dissolved	* <i>gar-a</i>	573
distance	* <i>t'aw-a</i>	242
	* <i>ʔut'-a</i>	701
distance, at a	* <i>t'aw-a</i>	242
distant	* <i>k<sup>w</sup>hal-</i>	529
distinction	* <i>mag-a</i>	867
distress	* <i>bad-a</i>	7
	* <i>k'al-a</i>	477
	* <i>ħag-a</i>	719
	* <i>wal-a</i>	820
	* <i>muŋ-a</i>	923
distress, to be in	* <i>muŋ-</i>	923

English Meaning	Proto-Nostratic	Number
distress, to cause	* <i>muŋ-</i>	923
distressed, to be	* <i>hag-</i>	719
distribute, to	* <i>bay-</i>	444
disturb, to	* <i>dal-</i>	159
	* <i>dul-</i>	183
	* <i>Gal-</i>	570
	* <i>nady-</i>	939
disturbance	* <i>dal-a</i>	159
	* <i>dul-a</i>	183
	* <i>dulʷ-a</i>	184
	* <i>gal-a</i>	373
	* <i>k'al-a</i>	477
	* <i>Gal-a</i>	570
	* <i>nady-a</i>	939
disturbed, to be	* <i>dal-</i>	159
	* <i>dul-</i>	183
	* <i>Gal-</i>	570
	* <i>mal-</i>	883
ditch	* <i>Gar-a</i>	574
	* <i>ʔakʰ-a</i>	636
	* <i>wurʷ-a</i>	859
dive into, to	* <i>t'al-</i>	232
dive into water (bird), to	* <i>haŋ-</i>	734
divide, to	* <i>bad-</i>	5
	* <i>pʰar-</i>	107
	* <i>sih-</i>	359
	* <i>kʰas-</i>	443
	* <i>ʔaŋ-</i>	650
	* <i>xal-</i>	787
	* <i>law-</i>	978
divide into shares, to	* <i>bay-</i>	44
divide into two parts, to	* <i>t'uʔw-</i>	253
division	* <i>t'aʰ-a</i>	229
	* <i>sih-a</i>	359
	* <i>kʰas-a</i>	443
	* <i>xal-a</i>	787
	* <i>law-a</i>	978
division into two	* <i>t'uʔw-a</i>	253
do, to	* <i>daw-</i>	167
	* <i>kʰam-</i>	426
	* <i>kʷhey-</i>	540
do something slowly, to	* <i>hakʰ-</i>	703
do together, to	* <i>Gam-</i>	571

English Meaning	Proto-Nostratic	Number
do well, to	* <i>c'al-</i> or * <i>č'al-</i>	320
dog	* <i>k<sup>h</sup>uwan-a</i> or * <i>k<sup>h</sup>un-a</i>	466
	* <i>k<sup>wh</sup>al-a</i>	531
	* <i>k<sup>wh</sup>al-p'-a</i>	531
dove (= pigeon)	* <i>bulʷ-a</i>	75
down	* <i>c'ar-</i>	321
	* <i>k<sup>h</sup>at<sup>h</sup>-</i>	446
downpour	* <i>bal-a</i>	21
	* <i>zar-a</i> or * <i>žar-a</i>	308
drag	* <i>t<sup>h</sup>ar-a</i>	204
drag, to	* <i>t<sup>h</sup>ar-</i>	204
	* <i>ɽirʷ-</i>	686
dragged along, something	* <i>t<sup>h</sup>ar-a</i>	204
dragging	* <i>wal-a</i>	815
dragging, (the act of)	* <i>ɽirʷ-</i>	686
draw, to	* <i>t<sup>h</sup>ar-</i>	204
	* <i>ɽirʷ-</i>	686
draw near to, to	* <i>ɽanʷ-</i>	648
draw (out), to	* <i>mal-</i>	879
draw out, to	* <i>mad-</i>	865
	* <i>mat'-</i>	905
	* <i>rak'-</i>	988
drawing, (the act of)	* <i>ɽirʷ-</i>	686
drawing, the act of	* <i>rak'-a</i>	988
drawn out	* <i>rak'-a</i>	988
dried mucus	* <i>p<sup>h</sup>ak<sup>h</sup>-a</i>	93
dried up	* <i>t<sup>h</sup>ar-a</i>	208
drill, to	* <i>dur-</i>	191
drink (= beverage)	* <i>t<sup>h</sup>ar-a</i>	210
	* <i>šaw-a</i>	356
drink, to	* <i>t<sup>h</sup>ar-</i>	210
	* <i>šaw-</i>	356
	* <i>ɽunʷ-</i>	782
drinking, the act of	* <i>t<sup>h</sup>ar-a</i>	210
drip	* <i>zil-a</i> or * <i>žil-a</i>	310
	* <i>k'walʷ-a</i>	549
drip, to	* <i>ban-</i>	24
	* <i>t'alʷ-</i>	234
	* <i>k'walʷ-</i>	549
drive, to	* <i>zag-</i>	304
drive away, to	* <i>gus-</i>	410
drive together, to	* <i>gid-</i> or * <i>gid-</i>	393
drizzle	* <i>duw-a</i>	193

English Meaning	Proto-Nostratic	Number
	<i>*t'aly-a</i>	234
	<i>*zar-a</i> or <i>*žar-a</i>	308
drop (of water, rain, dew, etc.)	<i>*ban-a</i>	24
	<i>*zil-a</i> or <i>*žil-a</i>	310
drop, (rain)	<i>*t'aly-a</i>	234
drop down, to	<i>*k<sup>h</sup>ath-</i>	446
dropping	<i>*zil-a</i> or <i>*žil-a</i>	310
drops, to fall in	<i>*t'aly-</i>	234
drunk	<i>*thar-a</i>	210
dry	<i>*thar-a</i>	208
	<i>*c'aw-a</i>	323
	<i>*c'aw-ly-a</i>	323
dry, that which is	<i>*c'aw-a</i>	323
	<i>*c'aw-ly-a</i>	323
dry, to be	<i>*s<sup>y</sup>aw-</i>	290
dry, to be or become	<i>*c'aw-</i>	323
	<i>*c'aw-V-ly-</i>	323
dry place	<i>*s<sup>y</sup>aw-a</i>	290
dry up, to	<i>*thar-</i>	208
	<i>*was<sup>y</sup>-</i>	837
dryness	<i>*thar-a</i>	208
	<i>*s<sup>y</sup>aw-a</i>	290
duck (= aquatic bird)	<i>*gaŋ-a</i>	379
duck down, to	<i>*lam-</i>	971
	<i>*lam-V-d-</i>	971
dug (out), that which is	<i>*gar-a</i>	574
dug, that which is	<i>*ʔak<sup>h</sup>-a</i>	636
dullness	<i>*p<sup>h</sup>um-a</i>	275
(dumb, to be)	<i>*dul-</i>	183
dusk	<i>*rum-a</i>	997
dust	<i>*duw-a</i>	193
	<i>*thor<sup>y</sup>-a</i>	220
	<i>*t'uq<sup>w</sup>-a</i>	257
dusty, to be	<i>*t'uq<sup>w</sup>-</i>	257
dwell, to	<i>*q<sup>w</sup>ad-</i>	600
	<i>*man-</i>	886
dwelling	<i>*buw-a</i>	88
	<i>*k<sup>h</sup>ay-a</i>	450
	<i>*q<sup>w</sup>ad-a</i>	600
	<i>*ʔil-a</i>	681
	<i>*wan-a</i>	824
	<i>*man-a</i>	886

English Meaning	Proto-Nostratic	Number	
E			
eagle	* <i>hur-a</i> (and/or * <i>her-a</i> ?)	758	
ear	* <i>dʷan-a</i>	260	
	* <i>kʰul-a</i>	460	
earth	* <i>qʷarʷ-a</i> or * <i>qʷurʷ-a</i>	606	
	* <i>diqʰ-a</i>	177	
	* <i>tʰorʷ-a</i>	220	
	* <i>ʔer-a</i>	678	
	* <i>ʔul-a</i>	697	
	* <i>həkʷ-a</i>	722	
	* <i>mag-a</i>	868	
eat, to	* <i>bal-</i>	22	
	* <i>bur-</i>	82	
	* <i>pʰaḥ-</i>	92	
	* <i>qʷam-</i>	592	
	* <i>ʔakʰ-</i>	634	
	* <i>ʔitʷ-</i>	687	
	* <i>ham-</i>	710	
	* <i>ʕunʷ-</i>	782	
	* <i>lab-</i>	962	
	eat greedily, to eaten, that which is eating	* <i>ʔitʷ-a</i>	687
* <i>lab-a</i>		962	
eating, the act of edge	* <i>ʔitʷ-a</i>	687	
	* <i>sʷub-a</i>	301	
	* <i>ʒag-a</i>	306	
	* <i>gaŋ-a</i>	380	
	* <i>gol-a</i>	401	
	* <i>kʰar-a</i>	437	
	* <i>qʷar-a</i>	604	
	* <i>mukʷ-a</i>	920	
	effort effort, to make an efforts, to make great	* <i>woy-</i>	855
		* <i>mukʷ-</i>	920
egg	* <i>ʔow-ḥ-a</i>	695	
	* <i>mun-a</i>	922	
	* <i>mun-d-a</i>	922	
eject, to elder sister	* <i>wam-</i>	823	
	* <i>ʔenʷa</i>	675	
eldest	* <i>wan-a</i>	826	
elevate, to	* <i>kʷul-</i>	510	
	* <i>war-</i>	833	
elevated	* <i>dim-a</i>	176	
	* <i>sal-a</i>	333	



English Meaning	Proto-Nostratic	Number
elevated, to be	* <i>ʕal-</i>	763
elevated place	* <i>dim-a</i>	176
elevation	* <i>hon-a</i>	756
else	* <i>hal-</i>	706
emaciated, to be or become	* <i>c'aw-</i>	323
	* <i>c'aw-V-lʷ-</i>	323
ember	* <i>has-a</i>	742
embers	* <i>k<sup>h</sup>um-a</i>	464
	* <i>k<sup>w</sup>am-a</i>	550
embers, (burning)	* <i>dʷak<sup>wh</sup>-a</i>	259
embers, glowing	* <i>k'al-a</i>	476
embrace	* <i>hap<sup>h</sup>-a</i>	735
eminent	* <i>mag-a</i>	867
eminent, to be	* <i>t<sup>h</sup>ir-</i>	619
	* <i>mag-</i>	867
emptiness	* <i>ʕ<sup>h</sup>al-a</i>	347
empty	* <i>ʕ<sup>h</sup>al-a</i>	347
empty, to	* <i>ʕ<sup>h</sup>al-</i>	347
encircle, to	* <i>c'ur-</i>	326
encircles, that which	* <i>c'ur-a</i>	326
enclose, to	* <i>c'ur-</i>	326
	* <i>gir-</i>	398
enclosed space	* <i>gul-a</i> (~ * <i>gol-a</i> )	405
encloses, that which	* <i>c'ur-a</i>	326
enclosure	* <i>c'ur-a</i>	326
	* <i>gir-a</i>	398
end	* <i>t<sup>h</sup>al-a</i>	198
	* <i>ʷ<sup>h</sup>ar-a</i>	270
	* <i>s<sup>y</sup>ub-a</i>	301
	* <i>ʒaw-a</i>	345
	* <i>k<sup>wh</sup>al-a</i>	528
	* <i>k<sup>w</sup>ad-a</i>	546
	* <i>hul-a</i>	757
	* <i>mud-a</i>	919
end, to	* <i>k<sup>wh</sup>al-</i>	528
	* <i>mud-</i>	919
endurance	* <i>t<sup>h</sup>al<sup>y</sup>-a</i>	199
endure, to	* <i>bad-</i>	7
	* <i>t<sup>h</sup>al<sup>y</sup>-</i>	199
	* <i>t<sup>h</sup>an<sup>y</sup>-</i>	201
endure, to cause to	* <i>bad-</i>	7
enduring, to be	* <i>man-</i>	886
energy	* <i>wak'-a</i>	813

English Meaning	Proto-Nostratic	Number
energy, to act with	*woy-	855
engrave, to	*k'ir- or *k'ur-	503
	*xat'-	792
engraved line	*xat'-a	792
engraving	*bar-a	37
	*xat'-a	792
enjoy, to	*bir <sup>y</sup> -	57
enlarge, to	*dar <sup>y</sup> -	165
enough	*t <sup>h</sup> ir-a	218
enough, to have	*t <sup>h</sup> ir-	218
	*t <sup>h</sup> ir-V-p <sup>h</sup> -	219
enough, to have more than	*t <sup>h</sup> ir-	218
entreat, to	*p <sup>h</sup> ir-	145
entreaty	*p <sup>h</sup> ir-a	145
entwine, to	*net <sup>y</sup> -	948
entwined, anything	*net <sup>y</sup> -a	948
entwining	*net <sup>y</sup> -a	948
enumerate, to	*t'il-	249
	*xal-	787
Equid	*p <sup>h</sup> ar-a	111
erect, to be or become	*gar <sup>y</sup> -	386
escape	*her-a and/or *hor-a	717
	*wal-a	817
escape, to	*her- and/or *hor-	717
escaped	*her-a and/or *hor-a	717
essence	*k <sup>h</sup> ar-a	442
establish, to	*daw-	167
established	*ʔas <sup>y</sup> -a	659
established, to be	*man-	886
established, to be firmly	*dag-	156
esteemed, highly	*mag-a	867
esteemed, to be highly	*t <sup>h</sup> ir-	619
	*mag-	867
even	*lap <sup>h</sup> -a	973
evening	*gam-a	799
	*nak <sup>wh</sup> -a	943
evident	*c'ar-a or *č'ar-a	322
	*gal-a	372
evident, to be or become	*c'ar- or *č'ar-	322
	*gal-	372
evil	*t <sup>y</sup> aw-a	285
	*ʔak <sup>h</sup> -a	635
evil, to be	*ʔak <sup>h</sup> -	635

English Meaning	Proto-Nostratic	Number
exalted	* <i>ʔad-a</i>	630
	* <i>mag-a</i>	867
exalted, to be	* <i>ʔad-</i>	630
	* <i>ʕal-</i>	763
	* <i>mag-</i>	867
examination	* <i>bak'-a</i>	18
	* <i>day-a</i>	170
	* <i>saḥ-a</i> or * <i>šaḥ-a</i>	330
examine, to	* <i>bak'-</i>	18
	* <i>day-</i>	170
	* <i>saḥ-</i> or * <i>šaḥ-</i>	330
excavation	* <i>k<sup>w</sup>har-a</i>	533
exceed, to	* <i>dviʔ-</i>	265
	* <i>c'al-</i> or * <i>č'al-</i>	320
	* <i>maḥ-</i>	870
	* <i>mik'-</i>	914
excellence	* <i>mag-a</i>	867
	* <i>maḥ-a</i>	870
excess	* <i>t<sup>h</sup>ir-ph-a</i>	219
	* <i>gar<sup>y</sup>-a</i>	385
	* <i>mik'-a</i>	914
excess, to be in	* <i>mik'-</i>	914
excite, to	* <i>wak'-</i>	813
exhale, to	* <i>p<sup>h</sup>uw-</i>	148
exhausted	* <i>dal<sup>y</sup>-a</i>	160
	* <i>t<sup>h</sup>an<sup>y</sup>-a</i>	202
	* <i>ʔeb-a</i>	670
	* <i>xal-a</i>	786
exhausted (from straining, laboring), to become	* <i>k'ac<sup>h</sup>-</i>	468
exhausted, to be or become	* <i>was<sup>y</sup>-</i>	836
exhausted, to become	* <i>ʔeb-</i>	670
exhausted, to grow	* <i>t<sup>h</sup>an<sup>y</sup>-</i>	202
exhaustion	* <i>dal<sup>y</sup>-a</i>	160
	* <i>t<sup>h</sup>an<sup>y</sup>-a</i>	202
	* <i>ʔeb-a</i>	670
	* <i>xal-a</i>	786
	* <i>was<sup>y</sup>-a</i>	836
exist, to	* <i>ʔil-</i>	681
existence	* <i>k'al-a</i>	478
existing	* <i>ʔil-a</i>	681
expand, to	* <i>bar-</i>	28
	* <i>bul-</i>	68

English Meaning	Proto-Nostratic	Number
	* <i>bun-</i>	76
	* <i>bun-V-g-</i>	76
	* <i>t<sup>h</sup>ar-</i>	205
	* <i>k<sup>h</sup>aw-</i>	448
	* <i>war-</i>	832
	* <i>mad-</i>	865
	* <i>man-</i>	888
	* <i>man-V-g-</i>	889
	* <i>mat'-</i>	905
	* <i>mik'-</i>	914
expanse	* <i>p<sup>h</sup>al-a</i>	97
	* <i>t<sup>h</sup>ar-a</i>	205
	* <i>ħak'-a</i>	722
expansion	* <i>bul-a</i>	68
	* <i>k<sup>h</sup>aw-a</i>	448
experience	* <i>bad-a</i>	7
	* <i>ħin-k<sup>h</sup>-a</i>	752
experience, to	* <i>bad-</i>	7
explain, to	* <i>k<sup>h</sup>al-</i>	422
explanation	* <i>k<sup>h</sup>al-a</i>	422
expression	* <i>yan-a</i>	804
extend, to	* <i>p<sup>h</sup>al-</i>	97
	* <i>p<sup>h</sup>at<sup>h</sup>-</i>	121
	* <i>t<sup>h</sup>al<sup>y</sup>-</i>	199
	* <i>t<sup>h</sup>an<sup>y</sup>-</i>	201
	* <i>t<sup>h</sup>ar-</i>	205
	* <i>t'al-</i>	233
	* <i>c'al-</i> or * <i>č'al-</i>	320
	* <i>ħak'-</i>	722
	* <i>war-</i>	832
	* <i>rak'-</i>	988
extended	* <i>p<sup>h</sup>ar-a</i>	108
	* <i>t<sup>h</sup>al<sup>y</sup>-a</i>	199
	* <i>t<sup>h</sup>an<sup>y</sup>-a</i>	201
	* <i>rak'-a</i>	988
extending, the act of	* <i>rak'-a</i>	988
extension	* <i>p<sup>h</sup>ar-a</i>	108
	* <i>t<sup>h</sup>an<sup>y</sup>-a</i>	201
	* <i>rak'-a</i>	988
extent	* <i>mad-a</i>	865
	* <i>mat'-a</i>	905
exterior	* <i>ʔut'-a</i>	701
extinction	* <i>ʒaw-a</i>	345

English Meaning	Proto-Nostratic	Number
extinguish, to	* <i>gup<sup>h</sup>-</i>	407
extinguished, to be	* <i>gup<sup>h</sup>-</i>	407
extra	* <i>ʔaph<sup>h</sup>-a</i>	653
extra, that which is	* <i>ʔaph<sup>h</sup>-a</i>	653
extra, to be	* <i>ʔaph<sup>h</sup>-</i>	653
eye	* <i>k'an<sup>v</sup>-a</i>	487
	* <i>tʰhil-a</i> or (?) * <i>tʰhidʒ-a</i>	618
	* <i>ʔil-a</i>	683
	* <i>ʒuk<sup>wh</sup>-a</i>	781
eyebrow	* <i>bur-a</i>	86
eyelash	* <i>bur-a</i>	86

## F

face	* <i>p<sup>h</sup>aŋ-a</i>	105
fade, to	* <i>v<sup>h</sup>um-</i>	275
	* <i>ʒaʔ-</i>	341
	* <i>wal-</i>	820
	* <i>was<sup>v</sup>-</i>	837
faint, to grow	* <i>dow-</i> , * <i>doy-</i>	179
falcon	* <i>hur-a</i> (and/or * <i>her-a</i> ?)	758
fall	* <i>bad-a</i>	9
	* <i>p<sup>h</sup>ul-a</i>	135
fall, to	* <i>p<sup>h</sup>ul-</i>	135
fall down, to	* <i>bad-</i>	9
	* <i>p<sup>h</sup>ul-</i>	135
	* <i>c'ar-</i>	321
	* <i>k<sup>h</sup>at<sup>h</sup>-</i>	446
fall ill, to	* <i>mar<sup>v</sup>-</i>	902
fall in drops, to	* <i>t'al<sup>v</sup>-</i>	234
fall into, to	* <i>t'al-</i>	232
fallen	* <i>p<sup>h</sup>ul-a</i>	135
falling down, the act of	* <i>c'ar-a</i>	321
fallow land	* <i>bar-a</i>	42
fame	* <i>k<sup>h</sup>ul-a</i>	460
far away	* <i>t'aw-a</i>	242
	* <i>k<sup>wh</sup>al-</i>	529
far off	* <i>k<sup>wh</sup>al-</i>	529
fart	* <i>p<sup>h</sup>as<sup>v</sup>-a</i>	117
fart, to	* <i>p<sup>h</sup>as<sup>v</sup>-</i>	117
farthest point	* <i>mun-a</i>	921
fashion, to (= to make; to create)	* <i>t<sup>h</sup>ikh-</i>	216
	* <i>k<sup>wh</sup>ey-</i>	540

English Meaning	Proto-Nostratic	Number
	* <i>lip</i> '-	983
fashion something, tool used to	* <i>tʰikʰ-a</i>	216
fashioning something, the act of	* <i>tʰikʰ-a</i>	216
fast, to make (= to join or fit together)	* <i>dab</i> -	155
fasten, to	* <i>baɣ</i> -	2
	* <i>bin</i> -	51
	* <i>sak</i> 'w-	332
	* <i>ʒal</i> -	344
	* <i>k</i> 'ad-	470
	* <i>k</i> <sup>w</sup> <i>hijr</i> -	542
	* <i>rakʰ</i> -	987
fasten (together), to	* <i>ban-V-d</i> -	27
	* <i>dab</i> -	155
	* <i>rakʰ</i> -	987
fasten together, to	* <i>tʰakʰ</i> -	196
	* <i>k</i> 'ačʰ-	469
fasten two things together, to	* <i>kʰolʷ</i> -	458
fastening	* <i>baɣ-a</i>	2
	* <i>dab-a</i>	155
	* <i>sak</i> 'w-a	332
	* <i>kʰad-a</i>	418
	* <i>k</i> 'ačʰ-a	469
	* <i>k</i> 'ad-a	470
fastening (together), the act of	* <i>rakʰ-a</i>	987
fat (= large)	* <i>bun-g-a</i>	76
	* <i>tʰaw-a</i>	212
	* <i>k</i> 'an-a	483
	* <i>ħay-t</i> '-a	750
	* <i>man-g-a</i>	889
	* <i>lipʰ-a</i>	982
(fat [= grease])	* <i>pʰulʷ-a</i>	137
fat (= grease)	* <i>mar-a</i>	898
fat (= lard)	* <i>sʷil-a</i>	295
fat, that which is	* <i>pʰulʷ-a</i>	137
fat, to be	* <i>ħay-V-t</i> '-	750
fatal disease	* <i>marʷ-a</i>	902
father	* <i>baba</i>	3
	* <i>ʔab(b)a</i> ~ * <i>ʔapʰ(pʰ)a</i>	629
	* <i>ʔatʰtʰa</i>	660
	* <i>ʔay(y)a</i>	668
fatigue	* <i>dow-a</i> , * <i>doy-a</i>	179
	* <i>tʰanʷ-a</i>	202
	* <i>pʰum-a</i>	275

English Meaning	Proto-Nostratic	Number
	* <i>xal-a</i>	786
	* <i>was<sup>y</sup>-a</i>	836
	* <i>muk'-a</i>	920
fatigued, to be or become fatigued (from straining, laboring), to become	* <i>was<sup>y</sup>-</i>	836
	* <i>k'ac<sup>h</sup>-</i>	468
fat(ness)	* <i>p<sup>h</sup>u<sup>?</sup>-a</i>	134
fatness	* <i>k'an-a</i>	483
fatten, to	* <i>p<sup>h</sup>u<sup>?</sup>-</i>	134
fatty tissue	* <i>lip<sup>h</sup>-a</i>	982
fault	* <i>gal-a</i>	375
favor	* <i>han-a</i>	731
favor, to show	* <i>han-</i>	731
favorably disposed towards, to be	* <i>mal-</i>	877
fear	* <i>p<sup>h</sup>el-a</i>	125
	* <i>p<sup>h</sup>ir-a</i>	132
	* <i>s<sup>y</sup>ur-a</i>	302
	* <i>na<sup>h</sup>-a</i>	941
fear, to	* <i>p<sup>h</sup>ir-</i>	132
	* <i>s<sup>y</sup>ur-</i>	302
	* <i>na<sup>h</sup>-</i>	941
fearful, to be	* <i>p<sup>h</sup>el-</i>	125
feathers	* <i>bur-a</i>	85
feathers, (fine, soft)	* <i>bur-a</i>	84
feed (= food; meal; fodder)	* <i>ʔak<sup>h</sup>-a</i>	634
feed, to	* <i>k'al-</i>	473
feed (on), to	* <i>ʕun<sup>y</sup>-</i>	782
feeding	* <i>p<sup>h</sup>in<sup>y</sup>-a</i>	128
feel, to (= to touch; to handle)	* <i>gas<sup>y</sup>-</i>	387
feel affection for, to	* <i>p<sup>h</sup>ar-</i>	106
feeling (= sense; perception)	* <i>san-a</i> or * <i>šan-a</i> , * <i>sin-a</i> or * <i>šin-a</i> , * <i>sun-a</i> or * <i>šun-a</i>	335
female	* <i>nus<sup>y</sup>-a</i>	953
female connected by marriage, any	* <i>nus<sup>y</sup>-a</i>	953
female in-law	* <i>k<sup>h</sup>al-a</i>	419
	* <i>k'el-a</i>	498
female relative	* <i>ʔay(y)a</i>	667
	* <i>nat'-a</i>	945
female relative, (older)	* <i>ʔaŋ(ŋ)a</i>	651
female relative, older	* <i>ʔak<sup>h</sup>k<sup>h</sup>a</i>	638
	* <i>ʔema</i>	674
fence	* <i>gir-a</i>	398

English Meaning	Proto-Nostratic	Number
fetter (= bond)	* <i>k<sup>h</sup>am-a</i> or * <i>q<sup>h</sup>am-a</i>	425
few things	* <i>k'al-a</i>	475
fiber (= string; cord)	* <i>k'aŋ-a</i>	485
field	* <i>q'an-a</i>	593
	* <i>ħak'-a</i>	722
	* <i>wel<sup>y</sup>-a</i>	846
fierce, to be	* <i>xam-</i>	788
	* <i>xam-V-d-</i>	788
fiery, to be (= to be furious, spirited, wild)	* <i>ʔek<sup>h</sup>-</i>	671
fight	* <i>bur-a</i>	79
	* <i>gal-a</i>	570
	* <i>q<sup>h</sup>at<sup>h</sup>-a</i>	587
	* <i>wel-a</i>	845
	* <i>mar-a</i>	894
	* <i>laħ-a</i>	966
fight, to	* <i>bur-</i>	79
	* <i>q<sup>h</sup>at<sup>h</sup>-</i>	587
	* <i>wel-</i>	845
	* <i>laħ-</i>	966
fight against, to	* <i>mar-</i>	894
fight with, to	* <i>mar-</i>	894
fill, to	* <i>p<sup>h</sup>al-</i>	99
	* <i>t'an-</i>	236
	* <i>mal-</i>	859
fill (up), to	* <i>gam-</i>	366
filled	* <i>k'wah-a</i>	534
	* <i>was-a</i>	821
	* <i>mal-a</i>	876
fine, to be (= to be good, well)	* <i>s<sup>y</sup>uw-</i>	303
finger nail	* <i>t'yip<sup>h</sup>-a</i>	287
finish (= completion)	* <i>k<sup>wh</sup>al-a</i>	528
	* <i>mud-a</i>	919
finish, to	* <i>k<sup>wh</sup>al-</i>	528
	* <i>mud-</i>	919
fire	* <i>bud-a</i>	62
	* <i>p<sup>h</sup>aħ-a</i>	140
	* <i>p<sup>h</sup>aħ-w-a</i>	140
	* <i>dul-a</i>	182
	* <i>d<sup>v</sup>ak<sup>wh</sup>-a</i>	259
	* <i>g<sup>w</sup>ir-a</i>	523
	* <i>k'was-a</i>	558
	* <i>ʔak<sup>wh</sup>-a</i>	639
	* <i>ʔeŋ-a</i>	676



English Meaning	Proto-Nostratic	Number
	* <i>ʔeŋ-k'-a</i>	676
	* <i>ʕal-a</i>	764
fire, to be on	* <i>hag-</i>	702
fire, to light a	* <i>ʕal-</i>	764
fire, to make a	* <i>ʕal-</i>	764
fire to, to set	* <i>wal-</i>	819
firewood	* <i>tʰer-a</i>	616
firm (= solid)	* <i>tʰik'-a</i>	217
	* <i>tʰar-a</i>	280
	* <i>kʰar-a</i>	438
	* <i>ʕur-a</i>	783
firm, to be	* <i>ʕur-</i>	783
	* <i>man-</i>	886
firm grip	* <i>dʰar-a</i>	262
firmly attached, to be	* <i>tʰar-</i>	280
firmly established, to be	* <i>dag-</i>	156
firmness	* <i>tʰik'-a</i>	217
	* <i>tʰar-a</i>	280
	* <i>kʰar-a</i>	438
	* <i>ʕur-a</i>	783
first	* <i>pʰar-a</i>	109
	* <i>wan-a</i>	826
first-born	* <i>wan-a</i>	826
first person personal pronoun stem (stative)	* <i>kʰa-</i>	413
first, to be	* <i>mun-</i>	921
fish	* <i>dig-a</i>	173
fish, (a kind of)	* <i>min-a</i>	915
fish, large	* <i>kʰwal-a</i>	530
fissure	* <i>tʰal-m-a</i>	269
fist	* <i>kʰom-a</i>	504
fit (= appropriate)	* <i>tʰakʰ-a</i>	230
fit, to be	* <i>tʰakʰ-</i>	230
fit (together), to	* <i>rakʰ-</i>	987
fit together, to	* <i>dab-</i>	155
fit two things together, to	* <i>kʰolʰ-</i>	458
fitness	* <i>tʰakʰ-a</i>	230
fitting (= joining)	* <i>dab-a</i>	155
fitting (= proper)	* <i>sʰuw-a</i>	303
fitting, to be	* <i>sʰuw-</i>	303
fitting (together), the act of	* <i>rakʰ-a</i>	987
flame	* <i>pʰaħ-a</i>	140
	* <i>pʰaħ-w-a</i>	140

English Meaning	Proto-Nostratic	Number
	* <i>dʷak<sup>wh</sup>-a</i>	259
	* <i>war-a</i>	834
flank (= side)	* <i>gaŋ-a</i>	380
flash, to	* <i>bar-</i>	35
flat	* <i>p<sup>h</sup>al-a</i>	97
	* <i>t<sup>h</sup>alʷ-a</i>	199
	* <i>lap<sup>h</sup>-a</i>	973
flat, that which is	* <i>p<sup>h</sup>al-a</i>	97
flat of hand	* <i>p<sup>h</sup>al-a</i>	98
flat surface	* <i>lap<sup>h</sup>-a</i>	973
flatten, to	* <i>lap<sup>h</sup>-</i>	973
flee, to	* <i>p<sup>h</sup>ar-</i>	110
	* <i>p<sup>h</sup>ir-</i>	130
	* <i>her-</i> and/or * <i>hor-</i>	717
fleeing	* <i>p<sup>h</sup>ar-a</i>	110
	* <i>p<sup>h</sup>ir-a</i>	130
flexible	* <i>lam-a</i> ~ (?) * <i>lʷam-a</i>	972
flight	* <i>p<sup>h</sup>ar-a</i>	110
	* <i>p<sup>h</sup>ir-a</i>	130
	* <i>her-a</i> and/or * <i>hor-a</i>	717
	* <i>wal-a</i>	817
flock	* <i>man-a</i>	888
float, to	* <i>wuy-</i> or * <i>Huy-</i>	860
floating	* <i>wuy-a</i> or * <i>Huy-a</i>	860
flood	* <i>bun-a</i>	77
	* <i>ʔib-a</i>	680
	* <i>welʷ-a</i>	847
	* <i>mor-a</i>	918
flood, to	* <i>welʷ-</i>	847
flourish, to	* <i>riy-</i>	994
	* <i>xan-</i>	789
flow	* <i>bal-a</i>	21
	* <i>bun-a</i>	77
	* <i>dun-a</i>	189
	* <i>dʷaw-a</i>	263
	* <i>sʷor-a</i>	300
	* <i>gɪrʷ-a</i> or * <i>Gɪrʷ-a</i>	400
	* <i>k<sup>w</sup>alʷ-a</i>	549
	* <i>wal-a</i>	818
flow, to	* <i>bun-</i>	77
	* <i>dʷaw-</i>	263
	* <i>t<sup>y</sup>or-</i>	288
	* <i>ʒil-</i> or * <i>ʒil-</i>	310

English Meaning	Proto-Nostratic	Number
	* <i>gir<sup>v</sup></i> - or * <i>Gir<sup>v</sup></i> -	400
	* <i>k'waly-</i>	549
	* <i>Gal-</i>	569
	* <i>hap<sup>h</sup></i> -	736
	* <i>wal-</i>	818
	* <i>waž-</i>	843
flow, to make to	* <i>lah-</i>	965
flow forth, to	* <i>s<sup>v</sup>or-</i>	300
	* <i>zar-</i> or * <i>žar-</i>	308
	* <i>zil-</i> or * <i>žil-</i>	310
	* <i>sig-</i>	339
	* <i>wel<sup>v</sup></i> -	847
flow (out), to	* <i>dun-</i>	189
flow out, to	* <i>zar-</i> or * <i>žar-</i>	308
flowing	* <i>d<sup>v</sup>aw-a</i>	263
	* <i>t<sup>v</sup>or-a</i>	288
	* <i>zil-a</i> or * <i>žil-a</i>	310
	* <i>sig-a</i>	339
	* <i>ʔor-a</i>	691
	* <i>lah-a</i>	965
fluid	* <i>maw-a</i>	907
flutter, to	* <i>p<sup>h</sup>ar-</i>	110
	* <i>p<sup>h</sup>at<sup>h</sup></i> -	120
	* <i>p<sup>h</sup>ir-</i>	130
flux	* <i>gir<sup>v</sup>-a</i> or * <i>Gir<sup>v</sup>-a</i>	400
fly (= midge; gnat; housefly)	* <i>bir-a</i>	56
fly, to	* <i>p<sup>h</sup>ar-</i>	110
	* <i>p<sup>h</sup>ir-</i>	130
fly about, to (= to blow about)	* <i>duw-</i>	193
flying	* <i>p<sup>h</sup>ar-a</i>	110
	* <i>p<sup>h</sup>ir-a</i>	130
fodder	* <i>ʔak<sup>h</sup>-a</i>	634
fog	* <i>p<sup>u</sup>lv<sup>v</sup>-a</i>	151
	* <i>dum-a</i>	187
fold (= bend)	* <i>k'un-a</i>	516
fold together, to	* <i>k'ac<sup>h</sup></i> -	469
	* <i>k'un-</i>	516
folded, that which is	* <i>k'un-a</i>	516
fond of, to be	* <i>p<sup>h</sup>ar-</i>	106
food	* <i>bur-a</i>	82
	* <i>p<sup>h</sup>ah<sup>h</sup>-a</i>	92
	* <i>t<sup>ʃ</sup>'ar-s-a</i>	622

English Meaning	Proto-Nostratic	Number
	* <i>ʔak<sup>h</sup>-a</i>	634
	* <i>ʔit'-a</i>	687
	* <i>ʕun<sup>y</sup>-a</i>	782
foolish	* <i>ʔeb-a</i>	670
foolishness	* <i>ʔeb-a</i>	670
foot	* <i>p<sup>h</sup>at'-a</i>	122
	* <i>k<sup>h</sup>ab-a</i>	416
	* <i>lak<sup>h</sup>-a</i>	968
for	* <i>ʔan<sup>y</sup>-</i>	647
force	* <i>t<sup>h</sup>al<sup>y</sup>-a</i>	200
	* <i>t<sup>h</sup>ur-a</i>	226
	* <i>ʒag-a</i>	304
	* <i>gid-a</i> or * <i>gid-a</i>	393
force, to	* <i>t<sup>h</sup>al<sup>y</sup>-</i>	200
force together, to	* <i>gid-</i> or * <i>gid-</i>	393
forefather	* <i>ʔab(b)a ~ *ʔap<sup>h</sup>(p<sup>h</sup>)a</i>	629
forehead	* <i>p<sup>h</sup>aŋ-a</i>	105
	* <i>q'aw-a</i>	595
foremost	* <i>p<sup>h</sup>ar-a</i>	109
foremost (person or thing)	* <i>xaŋ-t<sup>h</sup>-a</i>	791
foremost, that which is	* <i>xaŋ-a</i>	790
foremost, to be	* <i>mun-</i>	921
foremost person	* <i>ner-a</i>	947
foremost thing	* <i>ner-a</i>	947
form	* <i>sam-a</i>	334
	* <i>lip'-a</i>	983
form, to	* <i>t<sup>h</sup>ikh-</i>	216
	* <i>k<sup>w</sup>hey-</i>	540
	* <i>lip'-</i>	983
form something, tool used to	* <i>t<sup>h</sup>ikh-a</i>	216
forming something, the act of	* <i>t<sup>h</sup>ikh-a</i>	216
forsake, to	* <i>gaʔ-</i>	362
forsaken	* <i>gaʔ-a</i>	362
forth from, to go	* <i>gus-</i>	410
forth from, to make to go	* <i>gus-</i>	410
fortitude	* <i>k<sup>h</sup>ar-a</i>	438
fowl, wild	* <i>gar<sup>y</sup>-a</i>	576
	* <i>gar<sup>y</sup>-gar<sup>y</sup>-a</i>	576
fracture	* <i>mur-a</i>	924
fragment	* <i>dum-a</i>	185
	* <i>dun<sup>y</sup>-a</i>	190
	* <i>c<sup>h</sup>al-a</i>	318
	* <i>gad-a</i>	367

English Meaning	Proto-Nostratic	Number
	* <i>k<sup>h</sup>as-a</i>	443
fragrance	* <i>ʕut'-a</i>	784
free-born	* <i>ḥar-a</i>	739
freed	* <i>her-a</i> and/or * <i>hor-a</i>	717
freed (from)	* <i>č<sup>h</sup>al-a</i>	347
freedom	* <i>č<sup>h</sup>al-a</i>	347
freeze, to	* <i>gil-</i>	395
	* <i>k<sup>h</sup>ir-</i>	456
	* <i>k'ul<sup>y</sup>-</i>	511
	* <i>q'in-</i>	597
fresh, to be	* <i>ʔax-</i>	633
friend	* <i>ʔar-a</i>	656
fright	* <i>p<sup>h</sup>el-a</i>	125
frighten, to	* <i>s<sup>y</sup>ur-</i>	302
frightened, to be	* <i>p<sup>h</sup>el-</i>	125
	* <i>ḥat'-</i>	744
frightened, to be or become	* <i>s<sup>y</sup>ur-</i>	302
front	* <i>gab-a</i>	363
	* <i>xaŋ-th-a</i>	791
front of anything, the	* <i>hal-a</i>	707
front part	* <i>p<sup>h</sup>aŋ-a</i>	195
	* <i>s<sup>y</sup>ub-a</i>	301
	* <i>gab-a</i>	363
	* <i>xaŋ-th-a</i>	791
frost	* <i>k<sup>h</sup>ir-a</i>	456
	* <i>k'ul<sup>y</sup>-a</i>	511
	* <i>q'in-a</i>	597
fruit	* <i>bir<sup>y</sup>-a</i>	57
	* <i>p<sup>h</sup>ir-a</i>	127
	* <i>č<sup>h</sup>an-a</i>	348
fruit, to bear	* <i>p<sup>h</sup>ir-</i>	129
fulfillment	* <i>k<sup>w</sup>hal-a</i>	528
full	* <i>t<sup>h</sup>aw-a</i>	212
	* <i>t<sup>h</sup>ir-a</i>	218
	* <i>waš-a</i>	838
	* <i>maḥ-a</i>	870
	* <i>mal-a</i>	876
full, to be or become	* <i>mal-</i>	876
fullness	* <i>buw-a</i>	89
	* <i>p<sup>h</sup>al-a</i>	99
	* <i>p<sup>h</sup>uʔ-a</i>	134
	* <i>t<sup>h</sup>ir-a</i>	218
	* <i>ḥap<sup>h</sup>-a</i>	735

English Meaning	Proto-Nostratic	Number
	* <i>maḥ-a</i>	870
	* <i>mal-a</i>	876
	* <i>mik'-a</i>	914
fur	* <i>bur-a</i>	84
furious, to be	* <i>ʔekḥ-</i>	671
furnace	* <i>gub-a</i>	403
furrow	* <i>gar-a</i>	574
	* <i>ʔirʸ-</i>	686
fury	* <i>qʰatḥ-a</i>	587
	* <i>ʔekḥ-a</i>	671
G		
gain	* <i>ḥin-kḥ-a</i>	752
gain, to	* <i>ḥin-V-kḥ-</i>	752
game (= wild animals)	* <i>guw-a</i>	412
	* <i>guw-r-a</i>	412
	* <i>mar-a</i>	903
gap	* <i>ʋʰal-m-a</i>	269
gape	* <i>haŋ-a</i>	711
gape, to	* <i>haŋ-</i>	711
gash	* <i>dal-a</i>	158
	* <i>waŋ-a</i>	828
gash, to	* <i>dal-</i>	158
gasp, to	* <i>saw-</i>	357
gather, to	* <i>k'er-</i>	502
	* <i>ʔas-</i>	658
	* <i>lak'-</i>	969
gather (together), to	* <i>gid-</i> or * <i>gid-</i>	393
gather together, to	* <i>kḥam-</i>	427
	* <i>k'atḥ-</i>	495
	* <i>gam-</i>	571
gather (with the hands or arms), to	* <i>ḥapḥ-</i>	735
gathered	* <i>lak'-a</i>	969
gathered, that which as been	* <i>ḥapḥ-a</i>	735
gathering	* <i>kḥam-a</i>	427
	* <i>k'atḥ-a</i>	495
	* <i>k'er-a</i>	502
	* <i>gam-a</i>	571
gathering, the act of	* <i>ʔas-a</i>	658
gazelle	* <i>ʔar-a</i>	657
genitals (male or female)	* <i>pʰitʸ-a</i>	133
	* <i>q'alʸ-a</i>	591

English Meaning	Proto-Nostratic	Number
genitals, male	* <i>p<sup>h</sup>as<sup>v</sup>-a</i>	119
gentle	* <i>rom-a</i>	995
get, to	* <i>sag-</i> or * <i>šag-</i>	329
	* <i>k'an-</i>	481
get rid of, to	* <i>č<sup>h</sup>al-</i>	347
gift	* <i>t'ox<sup>w</sup>-a</i>	252
	* <i>gib-a</i>	392
	* <i>mig-a</i>	912
gimlet (= borer)	* <i>bur-a</i>	80
gird, to	* <i>gir-</i>	398
	* <i>yaʔ-</i>	802
girdle	* <i>yaʔ-a</i>	802
give, to	* <i>t'ox<sup>w</sup>-</i>	252
	* <i>gib-</i>	392
	* <i>mig-</i>	912
give back, to	* <i>muy-</i>	929
give birth, to	* <i>bar-</i>	32
	* <i>s<sup>v</sup>aw-</i> or * <i>s<sup>v</sup>ew-</i>	291
	* <i>ʔum-</i>	699
	* <i>γil-</i>	800
give birth to, to	* <i>p<sup>h</sup>it<sup>v</sup>-</i>	133
give off smoke, vapor, steam, to	* <i>p<sup>u</sup>lv-</i>	151
given back, that which is	* <i>muy-a</i>	929
giving	* <i>t'ox<sup>w</sup>-a</i>	252
gleam	* <i>bal-a</i>	23
gleam, to	* <i>t'ay-</i> or * <i>t'iy-</i>	245
gleaming	* <i>Gil-a</i>	580
	* <i>law-a</i>	977
glide, to	* <i>zil-</i> or * <i>žil-</i>	311
	* <i>gil-</i>	394
gliding	* <i>gil-a</i>	394
gliding, the act of	* <i>zil-a</i> or * <i>žil-a</i>	311
glisten, to	* <i>Gil-</i>	580
	* <i>ʔel-</i>	673
glistening	* <i>Gil-a</i>	580
glitter	* <i>bal-a</i>	23
	* <i>wal<sup>v</sup>-a</i>	822
glitter, to	* <i>daG-</i>	157
	* <i>t'ay-</i> or * <i>t'iy-</i>	245
	* <i>q'al-</i> or * <i>q'el-</i>	590
	* <i>ʔel-</i>	673
globe	* <i>G<sup>w</sup>al-a</i>	598
glorious	* <i>mag-a</i>	867

English Meaning	Proto-Nostratic	Number	
glorious, to be	*tʰir-	619	
	*mag-	867	
glory	*mag-a	867	
glow	*law-a	977	
glow, to	*t'ay- or *t'iy-	245	
glowing	*kʰum-a	464	
	*law-a	977	
glowing, to be	*k'wam-	550	
glowing embers	*k'al-a	476	
glued	*tʰ'im-a	624	
gnat	*bir-a	56	
	*k'ug-n-a (~ *k'og-n-a)	509	
gnaw, to	*tʰ'ar-	622	
	*tʰ'ar-V-s-	622	
go, to	*buw-	88	
	*pʰar-	114	
	*t'aw-	242	
	*gaʔ-	362	
	*girʷ- or *girʷ-	400	
	*kʷhal-	525	
	*k'wal-	548	
	*Gal-	568	
	*ʔay-	665	
	*ʔiy-	688	
	*wal-	817	
	*naʕ-	935	
	go across, to	*pʰar-	114
	go after, to (= to follow)	*k'wal-	548
	go after, to (= to pursue)	*mar-	897
	go around, to	*kʷhal-	525
	go (away), to	*bar-	41
go away, to	*t'aw-	242	
	*k'wal-	548	
	*ʔor-	801	
	*ʔor-V-b-	801	
	*wal-	817	
go behind, to (= to follow)	*k'wal-	548	
go forth, to	*pʰar-	114	
go forth from, to	*gus-	410	
go on foot, to	*lakʰ-	968	
go out, to	*pʰar-	114	
go outside of, to	*gus-	410	
go over, to	*pʰar-	114	



English Meaning	Proto-Nostratic	Number
go (round), to	* <i>mar-</i>	897
go up, to	* <i>sal-</i>	333
go, to let	* <i>t'aw-</i>	242
	* <i>ʕhal-</i>	347
goal	* <i>v<sup>h</sup>ar-a</i>	270
goat	* <i>bag-a</i>	11
	* <i>dur-a</i>	192
	* <i>ʔar-a</i>	657
goat, (young)	* <i>t<sup>h</sup>aḥ-a</i>	609
goat, young	* <i>gad-a</i>	368
goes round and round, that which	* <i>k<sup>wh</sup>al-a</i>	527
going	* <i>buw-a</i>	88
	* <i>p<sup>h</sup>ar-a</i>	114
going (away)	* <i>bar-a</i>	41
going, the act of	* <i>gal-a</i>	568
good	* <i>bar-a</i>	36
	* <i>mal-a</i>	877
good, to be	* <i>s<sup>y</sup>uw-</i>	303
good, to do	* <i>bar-</i>	36
goodness	* <i>bar-a</i>	36
	* <i>mal-a</i>	877
goose	* <i>gaŋ-a</i>	379
goose, wild	* <i>gar<sup>y</sup>-a</i>	576
	* <i>gar<sup>y</sup>-gar<sup>y</sup>-a</i>	576
gossip	* <i>war-a</i> and/or * <i>wir-a</i>	835
gouge	* <i>ʔak<sup>h</sup>-a</i>	636
gouge, to	* <i>dal-</i>	158
gracious, to be	* <i>han-</i>	731
graciousness	* <i>han-a</i>	731
gradually (= slowly)	* <i>hak<sup>h</sup>-</i>	703
gradually, to do or approach something	* <i>hak<sup>h</sup>-</i>	703
gradualness	* <i>hak<sup>h</sup>-a</i>	703
grain (= seed)	* <i>bar-a</i>	34
	* <i>yiw-a</i> (~ * <i>yew-a</i> )	806
grain, a kind of	* <i>hay-a</i>	714
grain, (unripe or blighted)	* <i>p<sup>h</sup>at'-a</i>	123
grandeur	* <i>mag-a</i>	867
grasp	* <i>bar-a</i>	33
	* <i>p<sup>h</sup>id-a</i>	126
	* <i>k'ab-a</i>	467
	* <i>ʔam-a</i>	642
	* <i>ʕap'-a</i>	770
grasp, to	* <i>bar-</i>	33

English Meaning	Proto-Nostratic	Number
	* <i>thekh-</i>	213
	* <i>gab-</i>	365
	* <i>gar-</i>	381
	* <i>gat'-</i>	388
	* <i>k<sup>h</sup>am-</i> or * <i>q<sup>h</sup>am-</i>	425
	* <i>k'aw-</i>	497
	* <i>k'um-</i>	513
	* <i>ʔam-</i>	642
	* <i>ʕap'-</i>	770
	* <i>wot<sup>h</sup>-</i>	854
	* <i>lab-</i>	961
grasp with the hand, to	* <i>k<sup>h</sup>aph-</i>	431
grasped	* <i>ʔam-a</i>	642
grasping	* <i>lab-a</i>	961
grasping, the act of	* <i>thekh-a</i>	213
	* <i>wot<sup>h</sup>-a</i>	854
grass	* <i>č'am-a</i>	351
grate, to	* <i>Gar-</i>	573
grated	* <i>Gar-a</i>	573
grating, the act of	* <i>Gar-a</i>	573
gray	* <i>p<sup>h</sup>ar<sup>y</sup>-a</i>	116
gray hair	* <i>t<sup>h</sup>ay-a</i>	615
gray, (hair) to turn	* <i>p<sup>h</sup>ar<sup>y</sup>-</i>	116
	* <i>t<sup>h</sup>ay-</i>	615
(grease)	* <i>p<sup>h</sup>ul<sup>y</sup>-a</i>	137
grease	* <i>mar-a</i>	898
great	* <i>bir-a</i>	53
	* <i>gad-a</i>	366
	* <i>haw-a</i>	727
	* <i>maʔ-a</i>	864
	* <i>maḥ-a</i>	870
	* <i>mak'-a</i>	873
	* <i>mik'-a</i>	914
great, to be	* <i>maḥ-</i>	870
	* <i>mak'-</i>	873
great, to be or become	* <i>gad-</i>	366
great amount	* <i>haw-a</i>	747
great importance, to be of	* <i>mag-</i>	867
great influence, to be of	* <i>mag-</i>	867
great number	* <i>haw-a</i>	747
	* <i>man-g-a</i>	888
great power, to be of	* <i>mag-</i>	867
great quantity	* <i>gar<sup>y</sup>-a</i>	385

English Meaning	Proto-Nostratic	Number	
greatness	* <i>bir-a</i>	53	
	* <i>gad-a</i>	366	
	* <i>maḥ-a</i>	870	
grief	* <i>ḥag-a</i>	715	
	* <i>ḥay</i>	715	
grief, exclamation of	* <i>k'ar-a</i>	492	
	* <i>bul-</i>	74	
grime	* <i>t'ah-</i>	229	
	* <i>ḥah-</i>	316	
grind, to	* <i>gin-</i>	397	
	* <i>k'war-</i>	555	
	* <i>Gar-</i>	573	
	* <i>q'am-</i>	582	
	* <i>ḥur-</i>	759	
	* <i>mol-</i>	917	
	grinding	* <i>ḥah-a</i>	316
		* <i>ḥah-a</i>	316
	grinding, the act of	* <i>gin-a</i>	397
		* <i>Gar-a</i>	573
		* <i>was<sup>y</sup>-a</i>	837
		* <i>k'war-a</i>	555
grinding pestle	* <i>k'war-a</i>	555	
grinding stone	* <i>k'war-a</i>	555	
grip	* <i>k<sup>h</sup>am-a</i> or * <i>q<sup>h</sup>am-a</i>	425	
	* <i>k'ab-a</i>	467	
grip, firm	* <i>d<sup>y</sup>ar-a</i>	262	
grip, to	* <i>k<sup>h</sup>am-</i> or * <i>q<sup>h</sup>am-</i>	425	
groan	* <i>k'um-a</i>	512	
	* <i>k'was-a</i>	559	
	* <i>Gar-a</i>	572	
	* <i>Gar-Gar-a</i>	572	
	* <i>k'um-</i>	512	
	* <i>k'was-</i>	559	
groan, to	* <i>Gar-</i>	572	
	* <i>Gar-Gar-</i>	572	
	* <i>k<sup>wh</sup>ar-a</i>	533	
	* <i>mol-a</i>	917	
	* <i>t'ah-a</i>	229	
	* <i>Gar-a</i>	573	
groove	* <i>Per-a</i>	678	
ground (= pulverized)	* <i>Pul-a</i>	697	
ground (= pulverized), anything	* <i>t'ah-a</i>	229	
ground (= land)	* <i>Gar-a</i>	573	
	* <i>Per-a</i>	678	
ground (= land), elevated	* <i>Pul-a</i>	697	
	* <i>t'id-a</i>	248	
group of two	* <i>yor-a</i>	807	
grow, to	* <i>bir-</i>	53	

English Meaning	Proto-Nostratic	Number
	* <i>buw-</i>	89
	* <i>č<sup>h</sup>an-</i>	348
	* <i>gar<sup>y</sup>-</i>	385
	* <i>k<sup>h</sup>aw-</i>	448
	* <i>ħal<sup>v</sup>-</i>	727
	* <i>ħon-</i>	756
	* <i>ʕag-</i>	761
	* <i>war-</i>	833
	* <i>man-</i>	888
	* <i>man-V-g-</i>	889
	* <i>mik'-</i>	914
	* <i>liʔ-</i>	981
	* <i>riy-</i>	994
grow faint, to	* <i>dow-, *doy-</i>	179
grow old, to	* <i>p<sup>h</sup>ar<sup>y</sup>-</i>	116
	* <i>t<sup>h</sup>an<sup>y</sup>-</i>	202
	* <i>s<sup>y</sup>en<sup>y</sup>-</i>	294
	* <i>t<sup>ʃ</sup>ay-</i>	615
	* <i>wath-</i>	839
grow thin, to	* <i>t<sup>h</sup>ah-</i>	195
grow (up), to	* <i>n<sup>y</sup>aʕ-V-r-</i>	956
grow weak, to	* <i>dow-, *doy-</i>	179
grow weary, to	* <i>dow-, *doy-</i>	179
growl, to	* <i>gur-</i>	408
growling noise or sound	* <i>gur-a</i>	408
grown	* <i>ħal<sup>v</sup>-a</i>	727
grown, that which is	* <i>č<sup>h</sup>an-a</i>	348
growth	* <i>bul-γ-a</i>	70
	* <i>bun-a</i>	76
	* <i>buw-a</i>	89
	* <i>p<sup>y</sup>hiq<sup>w</sup>-a</i>	273
	* <i>gar<sup>y</sup>-a</i>	385
	* <i>k<sup>h</sup>aw-a</i>	448
	* <i>ħaw-a</i>	747
	* <i>mik'-a</i>	914
	* <i>riy-a</i>	994
grub (= maggot; larva)	* <i>k<sup>w</sup>hur-a</i>	544
grumble	* <i>k'um-a</i>	512
grumble, to	* <i>gar-</i>	572
	* <i>gar-gar-</i>	572
guard	* <i>war-a</i>	830
guard, to	* <i>k<sup>h</sup>al-</i>	421
guardian	* <i>man-a</i>	887

English Meaning	Proto-Nostratic	Number
guardianship	* <i>war-a</i>	830
	* <i>man-a</i>	887
guidance	* <i>hak'-a</i>	722
guide (= leader)	* <i>day-a</i>	171
guide, to	* <i>hak'-</i>	723
gully	* <i>Gal-a</i>	569
gulp down, to	* <i>xweļv-</i>	797
gurgle, to	* <i>gur-</i>	408
gurgling noise or sound	* <i>gur-a</i>	408
gush	* <i>sʸor-a</i>	300
	* <i>k'waly-a</i>	549
gush forth, to	* <i>sʸor-</i>	300
	* <i>zar-</i> or * <i>žar-</i>	308
	* <i>k'waly-</i>	549
	* <i>nab-</i>	936
gushing forth	* <i>nab-a</i>	936
gut	* <i>gur-a</i>	409
gutter (= ditch)	* <i>Gar-a</i>	574

## H

habitation	* <i>ʔil-a</i>	681
hair	* <i>tʰiʃ-r-a</i>	617
hair, (body)	* <i>bur-a</i>	84
hair, (young, fine, or soft)	* <i>wun-d-a</i> (~ * <i>won-d-a</i> )	857
half	* <i>ʔar-a</i>	654
half-witted	* <i>ʔeb-a</i>	670
hammer	* <i>tʸad-a</i>	276
hammer, to	* <i>tʸad-</i>	276
hand	* <i>pʰaŋ-a</i>	104
	* <i>pʰaŋ-kʷh-a</i>	104
	* <i>dʸar-a</i>	262
	* <i>gab-a</i>	365
	* <i>gar-a</i>	381
	* <i>gasʸ-a</i>	387
	* <i>gat'-a</i>	388
	* <i>kʰaph-a</i>	431
	* <i>k'aw-a</i>	497
	* <i>k'om-a</i>	504
hand, flat of	* <i>har-a</i>	738
	* <i>manʸ-a</i>	892
	* <i>pʰal-a</i>	98
	* <i>kʰam-a</i> or * <i>qʰam-a</i>	425

English Meaning	Proto-Nostratic	Number
	* <i>ʔam-a</i>	642
handful	* <i>k'er-a</i>	502
	* <i>haph<sup>h</sup>-a</i>	735
handful, to take a	* <i>k'er-</i>	502
handle	* <i>p<sup>h</sup>an-a</i>	104
	* <i>p<sup>h</sup>an-k<sup>wh</sup>-a</i>	104
handle, to	* <i>p<sup>h</sup>an-</i>	104
	* <i>p<sup>h</sup>an-V-k<sup>wh</sup>-</i>	104
	* <i>gas<sup>y</sup>-</i>	387
hang, to	* <i>dul<sup>v</sup>-</i>	184
	* <i>t<sup>h</sup>un<sup>h</sup>-V-k<sup>h</sup>-</i>	620
hang up, to	* <i>t<sup>h</sup>un<sup>h</sup>-V-k<sup>h</sup>-</i>	620
hanging	* <i>dul<sup>v</sup>-a</i>	184
happen, to	* <i>bad-</i>	7
happening	* <i>bad-a</i>	7
happiness	* <i>mak'-a</i>	874
happy, to be	* <i>p<sup>h</sup>ar-</i>	106
	* <i>mak'-</i>	874
harass, to	* <i>dab<sup>v</sup>-</i>	160
hard	* <i>t<sup>y</sup>ar-a</i>	281
	* <i>k<sup>h</sup>ar-a</i>	438
	* <i>ʕur-a</i>	784
hard, that which is	* <i>t<sup>y</sup>ar-a</i>	281
hard, to be	* <i>t<sup>y</sup>ar-</i>	281
	* <i>ʕur-</i>	784
hard work	* <i>q<sup>h</sup>ad-a</i>	583
hardness	* <i>t<sup>h</sup>ik'-a</i>	217
	* <i>k<sup>h</sup>ar-a</i>	438
	* <i>ʕur-a</i>	784
harm	* <i>dar-a</i>	163
	* <i>t'aw-a</i>	243
	* <i>d<sup>v</sup>ab-a</i>	258
	* <i>g<sup>w</sup>an-a</i>	520
	* <i>t<sup>h</sup>ar-a</i>	612
	* <i>ʔakh-a</i>	635
	* <i>wan-a</i>	828
	* <i>nik<sup>h</sup>-a</i>	950
harm, to	* <i>dar-</i>	163
	* <i>d<sup>v</sup>ab-</i>	258
	* <i>g<sup>w</sup>an-</i>	520
	* <i>ʔakh-</i>	635
harm, to cause	* <i>t<sup>h</sup>ar-</i>	612
harmful	* <i>dar-a</i>	163

English Meaning	Proto-Nostratic	Number
harnessed	*tʃ'im-a	624
harsh (= coarse; rough)	*bar-a	31
harsh (= pungent)	*k <sup>h</sup> ar-a	440
harsh (of sounds)	*k <sup>h</sup> at <sup>h</sup> -a	447
harsh, to be	*bar-	31
harsh screech, to make a	*k <sup>h</sup> at <sup>h</sup> -	447
harsh sound, to make a	*k <sup>h</sup> at <sup>h</sup> -	447
harshness (= coarseness; roughness)	*bar-a	31
harshness (= pungency)	*k <sup>h</sup> ar-a	440
haste	*p <sup>h</sup> at <sup>h</sup> -a	120
hasten, to	*p <sup>h</sup> ar-	109
	*p <sup>h</sup> at'-	122
	*p <sup>h</sup> ir-	130
	*gir <sup>y</sup> - or *gir <sup>y</sup> -	400
hasten in advance, to	*p <sup>h</sup> ar-	109
hasty	*ɔr-a	691
hatch eggs, to	*ɔw-V-ḥ-	695
hatchet	*ḥaʒ-a	751
haulm	*k <sup>h</sup> al <sup>y</sup> -a	423
hawk	*ḥur-a (and/or *ḥer-a ?)	758
hawk-like bird	*ḥur-a (and/or *ḥer-a ?)	758
haze (= mist)	*p <sup>u</sup> l <sup>y</sup> -a	151
he	*si- (~ *se-)	338
he-goat	*buk'-a (~ *bok'-a)	67
	*k <sup>h</sup> ab-a	415
head	*p <sup>h</sup> an <sup>y</sup> -a	105
	*t <sup>h</sup> al-a	198
	*k <sup>h</sup> ir-a	455
	*q <sup>u</sup> aw-a	595
	*G <sup>w</sup> al-a	599
headman	*ḥak'-a	723
health	*s <sup>y</sup> ol-a	299
	*ḥal <sup>y</sup> -a	727
healthy	*ḥal <sup>y</sup> -a	727
heap	*t <sup>h</sup> ul-a	223
	*gid-a or *gid-a	393
	*k <sup>h</sup> aw-a	448
	*k <sup>h</sup> um-a	462
	*k <sup>u</sup> um-a	513
heap up, to	*k <sup>h</sup> um-	462
	*waš-	838
heaped up	*waš-a	838
hear, to	*d <sup>v</sup> an-	260

English Meaning	Proto-Nostratic	Number
	* <i>sady-</i>	328
	* <i>k<sup>h</sup>ul-</i>	460
hearing	* <i>q<sup>w</sup>ar<sup>y-</sup></i> or * <i>q<sup>w</sup>ur<sup>y-</sup></i>	606
	* <i>d<sup>van</sup>-a</i>	260
heart	* <i>sady-a</i>	328
	* <i>k<sup>h</sup>ar-a</i>	442
heat	* <i>p<sup>h</sup>ek<sup>w<sup>h</sup></sup>-a</i>	124
	* <i>dul-a</i>	182
	* <i>t<sup>h</sup>ep<sup>h</sup>-a</i>	214
	* <i>t<sup>'</sup>ab-a</i>	227
	* <i>t<sup>'</sup>ay-a</i> or * <i>t<sup>'</sup>iy-a</i>	245
	* <i>s<sup>y</sup>ax<sup>w</sup>-a</i>	293
	* <i>k<sup>h</sup>ay-a</i>	451
	* <i>k<sup>h</sup>um-a</i>	464
	* <i>g<sup>w</sup>ir-a</i>	523
	* <i>k<sup>w</sup>am-a</i>	550
	* <i>k<sup>w</sup>at'-a</i>	560
	* <i>ʔak<sup>w<sup>h</sup></sup>-a</i>	639
	* <i>ʔeŋ-a</i>	676
	* <i>ʔeŋ-k'-a</i>	676
	* <i>ħas-a</i>	742
	* <i>wal-a</i>	819
	* <i>war-a</i>	834
heat of sun	* <i>ʔeŋ-a</i>	676
	* <i>ʔeŋ-k'-a</i>	676
	* <i>hag-a</i>	702
heat, to	* <i>p<sup>h</sup>ek<sup>w<sup>h</sup></sup>-</i>	124
	* <i>p<sup>h</sup>aħ-</i>	140
	* <i>p<sup>h</sup>aħ-V-w-</i>	140
	* <i>k<sup>h</sup>ay-</i>	451
heat up, to	* <i>dul-</i>	182
	* <i>t<sup>'</sup>ab-</i>	227
	* <i>s<sup>y</sup>ax<sup>w</sup>-</i>	293
	* <i>ʔeŋ-</i>	676
	* <i>ʔeŋ-V-k'-</i>	676
	* <i>wal-</i>	819
heated	* <i>t<sup>h</sup>er-a</i>	616
heaviness	* <i>k<sup>w</sup>ur<sup>y-</sup>-a</i>	566
heavy	* <i>k<sup>w</sup>ur<sup>y-</sup>-a</i>	566
heavy, to be	* <i>k<sup>w</sup>ur<sup>y-</sup>-</i>	566
heavy rain	* <i>nab-a</i>	937
heed	* <i>guw-a</i>	411
heed, to	* <i>guw-</i>	411



English Meaning	Proto-Nostratic	Number
heifer	* <i>p<sup>h</sup>ar-a</i>	112
	* <i>p<sup>h</sup>ur-a</i>	138
height	* <i>bir-a</i>	53
	* <i>bir-g-a</i>	53
	* <i>t'al-a</i>	233
	* <i>sal-a</i>	333
	* <i>k<sup>h</sup>aw-a</i>	448
	* <i>k<sup>h</sup>ilv-a</i>	454
	* <i>hon-a</i>	756
held	* <i>ʔam-a</i>	642
her [oblique]	* <i>si-</i> (~ * <i>se-</i> )	338
her [possessive]	* <i>-si</i> (~ * <i>-se</i> )	338
herd	* <i>man-a</i>	888
herd of cattle	* <i>bak'-a</i>	19
herd of small animals	* <i>ʕuw-a</i> (~ * <i>ʕow-a</i> )	785
herdsman	* <i>man-a</i>	888
hero	* <i>p<sup>h</sup>ar-a</i>	109
hide (= animal skin)	* <i>p<sup>h</sup>ač'-a</i>	91
	* <i>p<sup>h</sup>al-a</i>	141
	* <i>k<sup>h</sup>ar-a</i>	435
	* <i>k'woy-a</i>	565
	* <i>nak<sup>h</sup>-a</i>	942
hide, to (= to cover; to conceal)	* <i>p<sup>h</sup>al-</i>	102
	* <i>t<sup>h</sup>um-</i>	224
	* <i>k<sup>h</sup>alv-</i>	424
	* <i>hag-</i>	740
	* <i>ɣam-</i>	799
high	* <i>bir-g-a</i>	53
	* <i>t'al-a</i>	233
	* <i>sal-a</i>	333
	* <i>k<sup>h</sup>ilv-a</i>	454
high, to be	* <i>bir-V-g-</i>	53
	* <i>ʕal-</i>	763
high, to make	* <i>k'ul-</i>	510
	* <i>ʕam-</i>	766
	* <i>ʕam-V-d-</i>	766
high place	* <i>bir-g-a</i>	53
high rank	* <i>t<sup>h</sup>ir-a</i>	619
higher in rank, to be	* <i>har-</i>	739
higher in status, to be	* <i>har-</i>	739
highest part	* <i>war-a</i>	833
highest person	* <i>ner-a</i>	947
highest point	* <i>gub-a</i>	402

English Meaning	Proto-Nostratic	Number
	* <i>k'ul-a</i>	510
	* <i>ʕal-a</i>	763
	* <i>ʕam-a</i>	766
	* <i>ʕam-d-a</i>	766
	* <i>mun-a</i>	921
highest thing	* <i>ner-a</i>	947
highly esteemed	* <i>mag-a</i>	867
hill	* <i>t<sup>h</sup>ul-a</i>	223
	* <i>t'id-a</i>	248
	* <i>k<sup>h</sup>ilʷ-a</i>	454
	* <i>mal-a</i>	875
him	* <i>si-</i> (~ * <i>se-</i> )	338
hind part	* <i>dub-a</i>	180
	* <i>k<sup>w</sup>ad-a</i>	546
hinder, to	* <i>t'ad-</i>	228
hindquarters	* <i>ʕar-a</i>	771
hindrance	* <i>t'ad-a</i>	228
his	* <i>-si</i> (~ * <i>-se</i> )	338
hit	* <i>t<sup>h</sup>ap<sup>h</sup>-a</i>	203
	* <i>k<sup>w</sup>aḥ-a</i>	547
	* <i>lax<sup>w</sup>-a</i>	980
hit, to	* <i>t<sup>h</sup>ap<sup>h</sup>-</i>	203
	* <i>t'aw-</i>	243
	* <i>d<sup>v</sup>ab-</i>	258
	* <i>ʒ<sup>w</sup>an-</i>	520
	* <i>k<sup>w</sup>aḥ-</i>	547
	* <i>q<sup>w</sup>al-</i>	602
	* <i>nik<sup>h</sup>-</i>	950
	* <i>lax<sup>w</sup>-</i>	980
hitting, the act of	* <i>lax<sup>w</sup>-a</i>	980
(hoar)frost	* <i>t<sup>h</sup>ow-a</i>	221
hoarse, to be	* <i>q<sup>h</sup>arʷ-</i>	586
hold	* <i>bar-a</i>	33
	* <i>p<sup>h</sup>id-a</i>	126
	* <i>k<sup>h</sup>al-a</i>	421
	* <i>k<sup>h</sup>am-a</i> or * <i>q<sup>h</sup>am-a</i>	425
	* <i>k'ab-a</i>	467
	* <i>ʔam-a</i>	642
	* <i>ʕap'-a</i>	770
hold, to	* <i>p<sup>h</sup>id-</i>	126
	* <i>k'aw-</i>	497
	* <i>manʷ-</i>	892
hold (closely or tightly), to	* <i>ʔam-</i>	642

English Meaning	Proto-Nostratic	Number
hold back, to	* <i>k<sup>h</sup>al-</i>	421
hold firmly, to	* <i>d<sup>v</sup>ar-</i>	262
hole	* <i>bit<sup>h</sup>-a</i>	60
	* <i>p<sup>h</sup>ut<sup>h</sup>-a</i>	147
	* <i>dur-a</i>	191
	* <i>v<sup>h</sup>al-m-a</i>	269
	* <i>k<sup>w</sup>har-a</i>	533
	* <i>ʔak<sup>h</sup>-a</i>	636
	* <i>haŋ-a</i>	711
	* <i>ħal<sup>v</sup>-a</i>	712
hole, to make a	* <i>dur-</i>	191
hollow (= cave)	* <i>k<sup>h</sup>ay-w-a</i>	452
	* <i>k<sup>ʼ</sup>um-a</i>	515
	* <i>k<sup>w</sup>har-a</i>	533
	* <i>ħal<sup>v</sup>-a</i>	728
hollow out, to	* <i>gal-</i>	370
	* <i>k<sup>w</sup>har-</i>	533
	* <i>xat<sup>ʼ</sup>-</i>	792
hollowing out, the act of	* <i>gal-a</i>	370
home	* <i>man-a</i>	886
honey	* <i>bay-a</i>	45
	* <i>k<sup>h</sup>an<sup>v</sup>-a ~ *k<sup>h</sup>in<sup>v</sup>-a ~ *k<sup>h</sup>un<sup>v</sup>-a</i>	429
	* <i>mad-w-a</i>	866
	* <i>mal-a</i>	878
honor	* <i>mag-a</i>	867
hoof	* <i>k<sup>h</sup>ab-a</i>	416
hook	* <i>t<sup>h</sup>ak<sup>h</sup>-a</i>	196
	* <i>gam-a</i>	377
	* <i>k<sup>h</sup>on-k<sup>ʼ</sup>-a, *k<sup>h</sup>ok<sup>ʼ</sup>-a</i>	459
	* <i>t<sup>h</sup>uŋ-k<sup>h</sup>-a</i>	620
hook together, to	* <i>t<sup>h</sup>ak<sup>h</sup>-</i>	196
hook up, to	* <i>t<sup>h</sup>uŋ-V-k<sup>h</sup>-</i>	620
hooked, that which is	* <i>k<sup>ʼ</sup>un-a</i>	516
horn	* <i>k<sup>h</sup>ir-a</i>	455
horned animal	* <i>mar-a</i>	903
horse	* <i>p<sup>h</sup>ar-a</i>	111
hot	* <i>p<sup>h</sup>ek<sup>w</sup>h-a</i>	124
	* <i>t<sup>ʼ</sup>ab-a</i>	227
	* <i>k<sup>h</sup>um-a</i>	464
hot (of taste) (= spicy)	* <i>k<sup>h</sup>ar-a</i>	440
hot, to be	* <i>s<sup>v</sup>am-</i>	289
	* <i>k<sup>ʼ</sup>wam-</i>	550
	* <i>ʔak<sup>w</sup>h-</i>	639

English Meaning	Proto-Nostratic	Number
	*ʔeph-	677
	*has-	742
hot, to be or become	*sʷaxw-	293
	*kʰay-	451
	*kʰum-	464
	*gʷir-	523
hot, to make	*sʷaxw-	293
house	*pʰar-a, (?) *pʰur-a	113
	*qʷad-a	600
	*ʔil-a	681
	*man-a	886
howl	*gar-a	572
	*gar-gar-a	572
	*waf-a	810
	*wal-a	816
howl, to	*gar-	572
	*gar-gar-	572
hubbub	*qʷal-a	601
	*wal-a	816
hump	*bun-a	76
	*pʷul-a	150
	*tʰaw-a	212
	*kʷar-a	494
	*kʷum-a	515
hunch (= hump)	*gub-a	582
(hunger)	*bad-a	8
hunger	*wal-a	820
hunt wild animals, to	*guw-	412
	*guw-V-r-	412
hurl, to	*qʷal-	603
	*ʕam-	767
hurling	*qʷal-a	603
hurry	*pʰatʰ-a	120
hurry, to	*girʷ- or *girʷ-	400
hurry, to be in a	*pʰar-	110
	*pʰir-	130
hurt, to	*qʷal-	602
	*ʔakh-	635
husband	*ʔar-a	655
husband's sister	*kʷel-a	498
husk	*pʰatʷ-a	123

English Meaning	Proto-Nostratic	Number
I	*ʔa- (~ *ʔə-), *ʔi- (~ *ʔe-)	626
	*wa- (~ *wə-)	808
	*mi (~ *me)	910
	*na (~ *nə)	930
ibex	*ʔar-a	657
ice	*gil-a	395
idea	*tʰij-a	286
	*saḥ-a or *šaḥ-a	330
	*ʕeŋ-a	775
ignite, to	*ʕal-	764
ignoble, to be	*ʔekʼ-	672
ill, to be	*gal-	374
ill, to become	*daw-	168
ill, to fall	*marʸ-	902
illness	*gal-a	374
	*marʸ-a	902
illustrious	*mag-a	867
illustrious, to be	*tʰir-	619
	*mag-	867
immature	*γil-a	800
immerse in water, to	*musʸ-	928
	*musʸ-V-kʼ-	928
immerse into, to	*tʼal-	232
immersion	*tʼal-a	232
	*musʸ-a	928
	*musʸ-kʼ-a	928
impediment	*tʼad-a	228
in addition to	*bi	50
	*da- (~ *də-)	153
in front of, to be	*mun-	921
in the middle of	*matʰ- or *metʰ-	904
in-law, (elder) male	*tʼay-a	234
in-law, female	*kʰal-a	419
	*kʰel-a	498
incise, to	*kʰir- or *kʰur-	503
	*wurʸ-	859
incision	*tʰar-a	206
	*kʰar-a	434
	*tʰar-tʼ-a	614
	*ħaʒ-a	751
	*xatʼ- <i>a</i>	792
incisions, to make	*tʰar-V-tʼ-	614

English Meaning	Proto-Nostratic	Number
increase	* <i>bar-a</i>	28
	* <i>bul-γ-a</i>	70
	* <i>gar<sup>y</sup>-a</i>	385
	* <i>haw-a</i>	747
	* <i>waš-a</i>	838
	* <i>mik'-a</i>	914
	* <i>riy-a</i>	994
increase, to	* <i>bun-V-g-</i>	76
	* <i>gar<sup>y</sup>-</i>	385
	* <i>k<sup>h</sup>aw-</i>	448
	* <i>haw-</i>	747
	* <i>war-</i>	833
	* <i>waš-</i>	838
	* <i>maḥ-</i>	870
	* <i>mal-</i>	876
	* <i>man-</i>	888
	* <i>man-V-g-</i>	889
	* <i>mik'-</i>	914
	* <i>riy-</i>	994
	increase (in number), to	* <i>maʔ-</i>
* <i>waš-a</i>		838
increased	* <i>waš-a</i>	838
increment	* <i>waš-a</i>	838
indefinite pronoun stem	* <i>ma-</i> (~ * <i>mə-</i> ),	861
	* <i>mi-</i> (~ * <i>me-</i> ),	
	* <i>mu-</i> (~ * <i>mo-</i> )	
infant	* <i>p<sup>h</sup>il<sup>y</sup>-a</i>	127
inferior	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	446
inflammation	* <i>dar<sup>y</sup>-a</i>	165
inflate, to	* <i>bul-</i>	68
	* <i>bun-</i>	76
	* <i>p<sup>h</sup>uš-</i>	139
	* <i>p<sup>h</sup>uw-</i>	148
	* <i>k<sup>h</sup>aw-</i>	448
	* <i>bul-a</i>	68
inflation	* <i>k<sup>h</sup>aw-a</i>	448
	* <i>bul-a</i>	68
initiate, to	* <i>bad-</i>	10
initiation	* <i>bad-a</i>	10
injure, to	* <i>dar-</i>	163
	* <i>d<sup>v</sup>ab-</i>	258
	* <i>g<sup>w</sup>an-</i>	520
	* <i>q<sup>h</sup>al-</i>	584
	* <i>t<sup>h</sup>ar-</i>	612
	* <i>dar-a</i>	163
	injury	* <i>dar-a</i>

English Meaning	Proto-Nostratic	Number
	* <i>t<sup>h</sup>ar-a</i>	206
	* <i>t'aw-a</i>	243
	* <i>d<sup>v</sup>ab-a</i>	258
	* <i>gar-a</i>	382
	* <i>g<sup>w</sup>an-a</i>	520
	* <i>q<sup>h</sup>al-a</i>	584
	* <i>t<sup>h</sup>ar-a</i>	612
	* <i>wan-a</i>	828
	* <i>nik<sup>h</sup>-a</i>	950
inquiry	* <i>saḥ-a</i> or * <i>šah-a</i>	330
(insane, to be)	* <i>dul-</i>	183
(insane, to drive someone)	* <i>dul-</i>	183
insane, to become	* <i>ʔeb-</i>	670
(insanity)	* <i>dul-a</i>	183
insect	* <i>bar-a</i>	39
	* <i>k<sup>w</sup>hur-a</i>	544
insect, buzzing	* <i>bur<sup>y</sup>-a</i>	87
inside of anything	* <i>wat<sup>y</sup>-a</i>	841
inside, the	* <i>k<sup>w</sup>ar-b-a</i>	556
instigate, to	* <i>bad-</i>	10
instrument, sharp	* <i>p<sup>h</sup>al-a</i>	267
insufficiency	* <i>k'al-a</i>	475
	* <i>nus<sup>y</sup>-a</i>	952
insufficient	* <i>k'al-a</i>	475
insufficient, to be	* <i>ʔek'-</i>	672
intention	* <i>ʕeŋ-a</i>	775
interior	* <i>k<sup>w</sup>ar-b-a</i>	556
interior of anything	* <i>wat<sup>y</sup>-a</i>	841
interrogative pronoun stem	* <i>k<sup>w</sup>ha-</i> (~ * <i>k<sup>w</sup>ə-</i> )	541
	* <i>ʔay-</i> , * <i>ʔya-</i>	664
	* <i>mi-</i> (~ * <i>me-</i> )	909
interrogative/relative particle	* <i>na-</i> (~ * <i>nə-</i> )	933
intoxicated	* <i>t<sup>h</sup>ar-a</i>	210
inundation	* <i>wel<sup>y</sup>-a</i>	847
investigation	* <i>saḥ-a</i> or * <i>šah-a</i>	330
	* <i>k<sup>h</sup>al-a</i>	422
invitation	* <i>q<sup>w</sup>at<sup>h</sup>-a</i>	607
invocation	* <i>k'ar-a</i>	491
	* <i>q<sup>w</sup>at<sup>h</sup>-a</i>	607
inward part	* <i>k<sup>w</sup>ar-b-a</i>	556
irritate, to	* <i>nady-</i>	939
irritating	* <i>nady-a</i>	939
irritating, to be	* <i>nady-</i>	939

English Meaning	Proto-Nostratic	Number
irritation	* <i>nady-a</i>	939
issue (= offspring)	* <i>p<sup>h</sup>ir-a</i>	129
issue (from), to	* <i>zar-</i> or * <i>žar-</i>	308
it	* <i>si-</i> (~ * <i>se-</i> )	338
itch	* <i>gar-b-a</i>	384
its	* <i>-si</i> (~ * <i>-se</i> )	338
J		
jab	* <i>t<sup>h</sup>ak<sup>wh</sup>-a</i>	610
jab, to	* <i>zer-</i> or * <i>žer-</i>	309
jar	* <i>k<sup>h</sup>ap<sup>h</sup>-a</i>	432
javelin	* <i>zer-a</i> or * <i>žer-a</i>	309
jaw	* <i>gen-a</i>	389
	* <i>k'an-a</i>	482
	* <i>k'ap<sup>h</sup>-a</i> and/or * <i>k'ep<sup>h</sup>-a</i>	488
	* <i>gat<sup>y</sup>-a</i>	578
	* <i>q'ab-a</i>	589
	* <i>k'ap<sup>h</sup>-a</i> and/or * <i>k'ep<sup>h</sup>-a</i>	488
	* <i>gid-</i> or * <i>gid-</i>	393
jawbone	* <i>rak<sup>h</sup>-</i>	987
	* <i>dab-</i>	155
	* <i>dar-</i>	162
	* <i>t<sup>h</sup>ak<sup>h</sup>-</i>	196
	* <i>k'ac<sup>h</sup>-</i>	469
	* <i>k'at<sup>h</sup>-</i>	495
	* <i>gam-</i>	571
	* <i>t<sup>h</sup>'im-</i>	624
	* <i>k<sup>h</sup>ol<sup>y</sup>-</i>	458
	* <i>dar-a</i>	162
join two things together, to	* <i>t<sup>h</sup>'im-a</i>	624
	* <i>t<sup>y</sup>ar-</i>	280
joined together	* <i>dab-a</i>	155
joined together, to be or become	* <i>rak<sup>h</sup>-a</i>	987
	* <i>k'an<sup>y</sup>-a</i>	485
joining	* <i>k'en<sup>y</sup>-a</i>	499
joining (together), the act of	* <i>zak'-</i>	307
	* <i>p<sup>h</sup>ar-a</i>	114
joint	* <i>ʔay-a</i>	665
	* <i>naʕ-a</i>	935
	* <i>naʕ-</i>	935
joke, to	* <i>p<sup>h</sup>ar-a</i>	106
	* <i>mak'-a</i>	884
journey		
journey, to		
joy		



English Meaning	Proto-Nostratic	Number
judge, to	* <i>sady-</i>	328
judgment	* <i>day-a</i>	170
	* <i>sady-a</i>	328
judgment, sound	* <i>hak<sup>h</sup>-a</i>	721
juice	* <i>saw-a</i>	356
jumping	* <i>raq'-a</i>	990
jut out, to	* <i>gar<sup>y</sup>-</i>	386
	* <i>mun-</i>	921

## K

keen, to be	* <i>hak<sup>h</sup>-</i>	721
keeper	* <i>war-a</i>	830
kid	* <i>gad-a</i>	368
kill, to	* <i>g<sup>w</sup>an-</i>	520
	* <i>q'<sup>w</sup>al-</i>	602
	* <i>hal-</i>	724
killing	* <i>d<sup>v</sup>ab-a</i>	258
	* <i>q<sup>h</sup>at<sup>h</sup>-a</i>	587
	* <i>q'<sup>w</sup>al-a</i>	602
	* <i>hal-a</i>	724
kind (= benevolent)	* <i>bar-a</i>	36
kind, to be	* <i>bar-</i>	36
kindle, to	* <i>bud-</i>	62
	* <i>ʕal-</i>	764
kindness	* <i>bar-a</i>	36
kinsman	* <i>ʔar-a</i>	656
kite (= hawk-like bird)	* <i>hur-a</i> (and/or * <i>her-a</i> ?)	758
knead (clay), to	* <i>diq<sup>h</sup>-</i>	177
knee	* <i>b[e]r-a</i>	48
knife	* <i>sak<sup>h</sup>-a</i>	331
	* <i>č'ir-a</i>	353
	* <i>sar-a</i>	355
	* <i>k<sup>w</sup>har-a</i>	532
	* <i>k'<sup>w</sup>at'-a</i>	561
	* <i>t<sup>h</sup>ar-a</i>	613
	* <i>wah-a</i>	812
	* <i>wah-a</i>	828
	* <i>miʔ-a</i>	911
knob	* <i>k'ah-a</i>	486
	* <i>k'um-a</i>	515
knock	* <i>t'uk'-a</i>	254
	* <i>k'an-a</i>	484

English Meaning	Proto-Nostratic	Number
	<i>*k'ud-a</i>	507
	<i>*k'wad-a</i>	545
knock, to	<i>*t<sup>h</sup>ap<sup>h</sup>-</i>	203
	<i>*t'uk'-</i>	254
	<i>*p<sup>h</sup>um-</i>	275
knot	<i>*k<sup>h</sup>at<sup>h</sup>-a</i>	444
	<i>*k'ac<sup>h</sup>-a</i>	469
	<i>*k'an-a</i>	486
	<i>*k'en<sup>v</sup>-a</i>	499
know, to	<i>*ɔil-</i>	683
	<i>*ɕey-</i>	776
knowledge	<i>*baw-a</i>	43
known	<i>*ɕey-a</i>	776
known, to make	<i>*c'ar-</i> or <i>*č'ar-</i>	322
	<i>*k<sup>h</sup>al-</i>	422
	<i>*war-</i> and/or <i>*wir-</i>	835
L		
labor	<i>*daw-a</i>	167
	<i>*k<sup>h</sup>am-a</i>	426
labor, to	<i>*k<sup>h</sup>am-</i>	426
	<i>*k'ac<sup>h</sup>-</i>	468
lack	<i>*bad-a</i>	8
	<i>*gaɔ-a</i>	362
	<i>*k'al-a</i>	475
	<i>*ɔek'-a</i>	672
	<i>*hīw-a, *hīy-a</i>	753
lack, to	<i>*hīw-, *hīy-</i>	753
lacking	<i>*gaɔ-a</i>	362
	<i>*k'al-a</i>	475
lacking, to be	<i>*ɔek'-</i>	672
ladle	<i>*k<sup>h</sup>ay-a</i>	452
lake	<i>*mor-a</i>	918
lament, to	<i>*k'um-</i>	512
lamentation	<i>*k'ar-a</i>	491
	<i>*k'um-a</i>	512
	<i>*wal-a</i>	816
land (= countryside)	<i>*q'an-a</i>	593
land (= earth; ground)	<i>*ɔul-a</i>	697
	<i>*mag-a</i>	868
land, any piece of	<i>*lam-a</i>	971
	<i>*lam-d-a</i>	971

English Meaning	Proto-Nostratic	Number
language	* <i>t'il-a</i>	250
	* <i>k<sup>h</sup>il-a</i>	453
lap (up), to	* <i>lab-</i>	962
	* <i>las<sup>y-</sup></i> , * <i>lis<sup>y-</sup></i> , * <i>lus<sup>y-</sup></i>	974
lap up, to	* <i>lak<sup>h-</sup></i>	948
lard	* <i>s<sup>y</sup>il-a</i>	295
large	* <i>bir-a</i>	53
	* <i>ħal<sup>y-</sup>a</i>	727
	* <i>maʔ-a</i>	864
	* <i>mik'-a</i>	914
large amount	* <i>k<sup>h</sup>um-a</i>	462
	* <i>man-g-a</i>	889
large fish	* <i>k<sup>w</sup>ħal-a</i>	530
large quantity	* <i>g<sup>w</sup>an-a</i>	521
	* <i>maʔ-a</i>	864
large quantity or amount	* <i>bul-a</i>	68
largeness	* <i>bir-a</i>	53
lax	* <i>dow-a</i> , * <i>doy-a</i>	179
laxity	* <i>dow-a</i> , * <i>doy-a</i>	179
lay, to	* <i>k<sup>h</sup>ay-</i>	450
lay down, to	* <i>lag-</i>	963
lay waste, to	* <i>ħal-</i>	724
	* <i>ħul-</i>	757
laying down, the act of	* <i>lag-a</i>	963
lead, to	* <i>wad-</i>	811
leader	* <i>p<sup>h</sup>ar-a</i>	109
	* <i>day-a</i>	171
	* <i>ħak'-a</i>	723
leading, the act of	* <i>wad-a</i>	811
leaf	* <i>t'or<sup>y-</sup>a</i>	251
leak	* <i>dun-a</i>	189
leak, to	* <i>dun-</i>	189
	* <i>k<sup>w</sup>al<sup>y-</sup></i>	549
leak out, to	* <i>zar-</i> or * <i>žar-</i>	308
lean (= emaciated)	* <i>c'aw-a</i>	323
	* <i>c'aw-l<sup>y-</sup>a</i>	323
lean, to be or become	* <i>c'aw-</i>	323
	* <i>c'aw-l<sup>y-</sup></i>	323
lean down, to (= to bend down)	* <i>c'ar-</i>	321
lean, that which is	* <i>c'aw-a</i>	323
	* <i>c'aw-l<sup>y-</sup>a</i>	323
learning	* <i>k<sup>h</sup>al-a</i>	422
leather	* <i>k<sup>w</sup>oy-a</i>	565

English Meaning	Proto-Nostratic	Number
leave, to	*t'aw-	242
	*č <sup>h</sup> al-	347
	*gaʔ-	362
	*ɣor-	801
	*ɣor-V-b-	801
leave behind, to	*č <sup>h</sup> al-	347
	*gaʔ-	362
leaving	*bar-a	41
	*ɣor-a	801
	*ɣor-b-a	801
left behind	*gaʔ-a	362
leg	*lak <sup>h</sup> -a	968
leisure	*č <sup>h</sup> al-a	347
leisure, at	*č <sup>h</sup> al-a	347
length	*t <sup>h</sup> an <sup>y</sup> -a	201
	*t'al-a	233
	*ʔut'-a	701
	*war-a	832
	*ʔut'-	701
lengthen, to	*mad-	865
	*mat'-	905
	*t <sup>h</sup> ah-	195
lessen, to	*k <sup>w</sup> har-	534
	*t'aw-	242
let go, to	*č <sup>h</sup> al-	347
	*p <sup>h</sup> al-a	97
level	*lap <sup>h</sup> -a	973
	*p <sup>h</sup> al-a	97
level, that which is	*her-a and/or *hor-a	717
liberated	*t'al-	231
lick, to	*lak <sup>h</sup> -	967
	*lak'-, *lik'-, *luk'-	970
	*las <sup>y</sup> -, *lis <sup>y</sup> -, *lus <sup>y</sup> -	974
	*t'al-a	231
	*lak <sup>h</sup> -a	967
licking	*lak'-a, *lik'-a, *luk'-a	970
	*k <sup>h</sup> ay-	450
lie, to (= to be placed)	*bad-	9
lie down, to (= to recline)	*nak <sup>w</sup> h-	943
	*lam-	971
	*lam-V-d-	971
	*h <sup>h</sup> ay-a	749
life	*h <sup>h</sup> ay-w-a	749

English Meaning	Proto-Nostratic	Number
	* <i>ʕan-a</i>	768
	* <i>nap<sup>h</sup>-a</i> , * <i>nip<sup>h</sup>-a</i> , * <i>nup<sup>h</sup>-a</i>	944
lift, to	* <i>t<sup>h</sup>ul-</i>	223
	* <i>k'ul-</i>	510
	* <i>ʕam-</i>	766
	* <i>ʕam-V-d-</i>	766
	* <i>xaŋ-</i>	790
lift (up), to	* <i>ni<sup>t</sup>h-</i>	951
lift up, to	* <i>sal-</i>	333
	* <i>k<sup>h</sup>ily-</i>	454
	* <i>ʕar-V-g-</i>	772
lifting, the act of	* <i>ni<sup>t</sup>h-a</i>	951
light (= luminosity)	* <i>bah-a</i>	13
	* <i>bar-a</i>	35
	* <i>bud-a</i>	62
	* <i>t'ay-a</i> or * <i>t'iy-a</i>	245
	* <i>ʔel-a</i>	673
	* <i>wal<sup>y</sup>-a</i>	822
	* <i>wil<sup>y</sup>-a</i>	850
	* <i>law-a</i>	977
light up, to	* <i>hal-</i>	690
light a fire, to (= to ignite, to kindle)	* <i>ʕal-</i>	764
lightning	* <i>bar-a</i>	35
like (= as)	* <i>wa-</i> (~ * <i>wə-</i> )	809
like, to	* <i>mal-</i>	877
like, to be (= to resemble)	* <i>sam-</i>	377
likeness	* <i>sam-a</i>	377
limit	* <i>mad-a</i>	865
	* <i>mat'-a</i>	905
lip	* <i>las<sup>y</sup>-a</i> , * <i>lis<sup>y</sup>-a</i> , * <i>lus<sup>y</sup>-a</i>	974
liquid	* <i>ʕuw-a</i>	361
	* <i>ʕuw-l-a</i>	361
	* <i>maw-a</i>	907
list, to (= to enumerate)	* <i>t'il-</i>	249
listen, to	* <i>d<sup>y</sup>an-</i>	260
	* <i>sad<sup>y</sup>-</i>	328
	* <i>k<sup>h</sup>ul-</i>	460
little	* <i>k'al-a</i>	475
littleness	* <i>k'al-a</i>	475
live, to	* <i>ʔil-</i>	681
	* <i>hay-</i>	749
	* <i>hay-V-w-</i>	749
	* <i>ʕan-</i>	768

English Meaning	Proto-Nostratic	Number
living	* <i>ʔil-a</i>	681
load	* <i>t'an-a</i>	236
	* <i>ʔan-a</i>	645
	* <i>wig-a</i>	849
load tightly together, to	* <i>t'an-</i>	236
load up and go, to	* <i>ʔan-</i>	645
location	* <i>ʔin-a</i> (~ * <i>ʔen-a</i> )	684
lofty	* <i>bir-g-a</i>	53
loneliness	* <i>k<sup>h</sup>ay-a</i>	449
	* <i>k<sup>h</sup>ay-w-a</i>	449
	* <i>xol-a</i>	793
lonely	* <i>xol-a</i>	793
long	* <i>t'al-a</i>	233
	* <i>ʔut'-a</i>	701
long for, to	* <i>haw-</i>	713
long-lasting	* <i>t<sup>h</sup>an<sup>y</sup>-a</i>	201
long-lasting, to be	* <i>t<sup>h</sup>an<sup>y</sup>-</i>	201
look, to	* <i>war-</i>	830
look at, to	* <i>bak'-</i>	18
	* <i>day-</i>	170
	* <i>gal-</i>	372
look for, to	* <i>bak'-</i>	18
look over, to	* <i>bak'-</i>	18
looking at or over	* <i>bak'-</i>	18
loop	* <i>c'ur-a</i>	326
	* <i>sak'<sup>w</sup>-a</i>	332
lord	* <i>p<sup>h</sup>ar-a</i>	109
	* <i>ʔad-a</i>	630
lose one's mind, to	* <i>ʔeb-</i>	670
lose one's way, to	* <i>ʔeb-</i>	670
loss	* <i>gaʔ-a</i>	362
	* <i>gup<sup>h</sup>-a</i>	407
	* <i>ʔek'-a</i>	672
loud clatter	* <i>Gad-a</i>	567
	* <i>Gad-Gad-a</i>	567
loud noise	* <i>Gad-a</i>	567
	* <i>Gad-Gad-a</i>	567
	* <i>x<sup>w</sup>ir-a</i>	798
loud noise, to make a	* <i>Gad-</i>	567
	* <i>Gad-Gad-</i>	567
	* <i>x<sup>w</sup>ir-</i>	798
loud rumble	* <i>Gad-a</i>	567
	* <i>Gad-Gad-a</i>	567

English Meaning	Proto-Nostratic	Number
loud sound, to make a	* <i>Gad-</i>	567
	* <i>Gad-gad-</i>	567
love	* <i>p<sup>h</sup>ar-a</i>	106
low	* <i>p<sup>h</sup>ul-a</i>	135
	* <i>lam-a</i>	971
	* <i>lam-d-a</i>	971
low, to be	* <i>lam-</i>	971
	* <i>lam-V-d-</i>	971
lower	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	446
	* <i>ḥal-a</i>	726
lower part	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	446
	* <i>ḥal-a</i>	726
lower place	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	446
lower thing	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	446
lower, to	* <i>ḥal-</i>	726
lowest part of anything	* <i>ʔul-a</i>	697
lowest part or region (of anything)	* <i>bud-a</i>	63
lowland	* <i>lam-a</i>	971
	* <i>lam-d-a</i>	971
lowly, to be	* <i>ʔek'-</i>	672
low-lying ground	* <i>lam-a</i>	971
	* <i>lam-d-a</i>	971
lump	* <i>bun-a</i>	76
	* <i>p<sup>h</sup>ul-a</i>	150
	* <i>t<sup>h</sup>aw-a</i>	212
	* <i>k<sup>h</sup>ar-a</i>	494
	* <i>k<sup>h</sup>um-a</i>	513
	* <i>k<sup>h</sup>um-a</i>	515
lust	* <i>man<sup>v</sup>-a</i>	890
lust after, to	* <i>man<sup>v</sup>-</i>	890
luster	* <i>ʔel-a</i>	673
	* <i>wal<sup>v</sup>-a</i>	822
lying down	* <i>bad-a</i>	9
M		
maceration	* <i>t<sup>h</sup>ah-a</i>	195
mad	* <i>ʔeb-a</i>	670
(mad, to be)	* <i>dul-</i>	183
(mad, to drive someone)	* <i>dul-</i>	183
mad, to go	* <i>ʔeb-</i>	670
made in a skillful manner, that which is	* <i>t<sup>h</sup>am-a</i>	235

English Meaning	Proto-Nostratic	Number
(madness)	* <i>dul-a</i>	183
madness	* <i>ʔeb-a</i>	670
maggot	* <i>k<sup>w</sup>hur-a</i>	544
magnificence	* <i>mag-a</i>	867
make, to	* <i>daw-</i>	167
	* <i>t<sup>h</sup>ikh-</i>	216
	* <i>k<sup>h</sup>am-</i>	426
	* <i>k<sup>w</sup>hey-</i>	540
make an effort, to	* <i>woy-</i>	855
make clear, to	* <i>c'ar-</i> or * <i>č'ar-</i>	322
	* <i>k<sup>h</sup>al-</i>	422
make fast, to	* <i>dab-</i>	155
make fun of, to	* <i>zak'-</i>	307
make known, to	* <i>c'ar-</i> or * <i>č'ar-</i>	322
	* <i>k<sup>h</sup>al-</i>	422
	* <i>war-</i> and/or * <i>wir-</i>	835
make (something) in a skillful manner, to	* <i>t'am-</i>	235
make something, tool used to making (something) in a skillful manner, the act of	* <i>t<sup>h</sup>ikh-a</i>	216
make sport, to	* <i>t'am-a</i>	225
making something, the act of	* <i>zak'-</i>	307
malady	* <i>t<sup>h</sup>ikh-a</i>	216
	* <i>mar<sup>y</sup>-a</i>	902
	* <i>muŋ-a</i>	923
	* <i>nus<sup>y</sup>-a</i>	954
male	* <i>k<sup>h</sup>um-a</i>	463
	* <i>ʔar-a</i>	655
	* <i>war-a</i>	827
	* <i>man<sup>y</sup>-a</i>	891
male (human or animal)	* <i>g[e]n-d-a</i>	390
	* <i>xam-a</i>	788
	* <i>xam-d-a</i>	788
	* <i>mar-a</i>	895
male animal	* <i>war-a</i>	827
male genitals	* <i>p<sup>h</sup>as<sup>y</sup>-a</i>	119
male in-law, (elder)	* <i>t'ay-a</i>	244
male relative	* <i>ʔay(y)a</i>	668
male relative, (elder)	* <i>t'ay-a</i>	244
male relative, older	* <i>ʔakk<sup>h</sup>a</i>	637
	* <i>ʔat<sup>h</sup>t<sup>h</sup>a</i>	660
male relative, (older)	* <i>ʔaŋ(ŋ)a</i>	652
male of certain animals	* <i>daq<sup>h</sup>-a</i>	161



English Meaning	Proto-Nostratic	Number
male sheep	* <i>k<sup>h</sup>ab-a</i>	415
malevolent	* <i>dar-a</i>	163
malicious	* <i>nady<sup>y</sup>-a</i>	939
malicious, to be	* <i>nady<sup>y</sup>-</i>	939
mallet	* <i>k'an-a</i>	484
man	* <i>k<sup>h</sup>um-a</i>	463
	* <i>ʔar-a</i>	655
	* <i>war-a</i>	827
	* <i>man<sup>y</sup>-a</i>	891
man, (young)	* <i>mar-a</i>	895
man, old	* <i>p'ap'-a</i>	149
manifest	* <i>wil<sup>y</sup>-a</i>	850
manifest, to	* <i>wil<sup>y</sup>-</i>	850
manifestation	* <i>wil<sup>y</sup>-a</i>	850
manly, to be	* <i>xam-</i>	788
	* <i>xam-V-d-</i>	788
manner	* <i>har-a</i>	737
manslaughter	* <i>q'wal-a</i>	602
many	* <i>baž-a</i>	46
	* <i>p<sup>h</sup>al-a</i>	99
	* <i>ʔaph<sup>h</sup>-a</i>	653
	* <i>maʔ-a</i>	864
	* <i>mak'-a</i>	873
	* <i>mal-a</i>	876
	* <i>man-g-a</i>	889
many, to be	* <i>baž-</i>	46
	* <i>maʔ-</i>	864
marsh	* <i>mar-a</i>	900
mark off, to	* <i>miḥ-</i>	913
mash, to	* <i>nady<sup>y</sup>-</i>	938
mashed, anything	* <i>nady<sup>y</sup>-a</i>	938
mass	* <i>k'um-a</i>	513
massacre	* <i>wel-a</i>	845
massive	* <i>thik'-a</i>	217
massiveness	* <i>thik'-a</i>	217
master	* <i>p<sup>h</sup>ar-a</i>	109
	* <i>ʔad-a</i>	630
	* <i>har-a</i>	739
mastery	* <i>hin-k<sup>h</sup>-a</i>	752
mat	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	444
	* <i>net<sup>y</sup>-a</i>	948
mature	* <i>p<sup>h</sup>ar<sup>y</sup>-a</i>	116
	* <i>ʕat<sup>h</sup>-a</i>	773

English Meaning	Proto-Nostratic	Number
mature, to	* <i>bul-V-γ-</i>	70
	* <i>p<sup>h</sup>arʷ-</i>	116
	* <i>nʷaɫ-V-r-</i>	956
maturity	* <i>bul-γ-a</i>	70
	* <i>p<sup>h</sup>arʷ-a</i>	116
	* <i>ɬat<sup>h</sup>-a</i>	773
me	* <i>ʔa-</i> (~ * <i>ʔə-</i> ), * <i>ʔi-</i> (~ * <i>ʔe-</i> )	626
	* <i>wa-</i> (~ * <i>wə-</i> )	808
	* <i>mi</i> (~ * <i>me</i> )	910
	* <i>na</i> (~ * <i>nə</i> )	930
mead	* <i>mad-w-a</i>	866
meadow	* <i>welʷ-a</i>	846
meager	* <i>k'al-a</i>	475
meal (= food; repast)	* <i>ʔak<sup>h</sup>-a</i>	634
	* <i>ɬunʷ-a</i>	782
mean (= nasty)	* <i>p<sup>h</sup>ul-a</i>	135
	* <i>nady-a</i>	939
mean, to be (= to be nasty)	* <i>nady-</i>	939
measure	* <i>mad-a</i>	865
	* <i>mat'-a</i>	905
	* <i>miḥ-a</i>	913
measure, to	* <i>miḥ-</i>	913
measure out, to	* <i>mad-</i>	865
	* <i>mat'-</i>	905
measurement	* <i>xal-a</i>	787
	* <i>mad-a</i>	865
	* <i>mat'-a</i>	905
	* <i>miḥ-a</i>	913
melt, to	* <i>gar-</i>	573
melted	* <i>gar-a</i>	573
memory	* <i>gun-a</i>	406
mentally sharp, to be	* <i>ḥak<sup>h</sup>-</i>	721
metal	* <i>hay-a</i>	716
method	* <i>ḥar-a</i>	737
midday heat	* <i>hag-a</i>	702
middle	* <i>k'war-b-a</i>	556
	* <i>mat<sup>h</sup>-a</i> or * <i>met<sup>h</sup>-a</i>	904
midge	* <i>bir-a</i>	56
might	* <i>gad-a</i>	366
	* <i>wak'-a</i>	813
	* <i>mag-a</i>	867
mighty	* <i>gad-a</i>	366
	* <i>ʔab-a</i>	628

English Meaning	Proto-Nostratic	Number
	* <i>ʔad-a</i>	630
mighty, to be	* <i>ʔad-</i>	630
	* <i>mak'-</i>	873
mighty, to be or become	* <i>gad-</i>	366
mild, to be or become	* <i>lam- ~ (?) *lʷam-</i>	972
milk	* <i>mam(m)a, *mema</i>	862
	* <i>mal-a</i>	879
mincing, the act of mind	* <i>k'ep'-a</i>	500
	* <i>san-a</i> or * <i>šan-a,</i> * <i>sin-a</i> or * <i>šin-a,</i> * <i>sun-a</i> or * <i>šun-a</i>	335
	* <i>gun-a</i>	406
minute (= small; tiny)	* <i>nusʷ-a</i>	952
minute, to be (= to be small)	* <i>nusʷ-</i>	952
misery	* <i>muŋ-a</i>	923
misfortune, exclamation of mist	* <i>hay</i>	715
	* <i>p'ulʷ-a</i>	151
	* <i>hag-a</i>	720
mistaken, to be	* <i>mal-</i>	883
misty	* <i>hag-a</i>	720
mix, to	* <i>bul-</i>	72
	* <i>k'al-</i>	477
mix together, to	* <i>k'atʰ-</i>	495
mix up, to	* <i>bul-</i>	72
mixed colors, that which has mixture	* <i>bul-a</i>	73
	* <i>bul-a</i>	72
	* <i>k'atʰ-a</i>	495
moan	* <i>k'um-a</i>	512
	* <i>k'was-a</i>	559
moan, to	* <i>k'um-</i>	512
	* <i>k'was-</i>	559
mock, to	* <i>zak'-</i>	307
mockery	* <i>zak'-a</i>	307
moist	* <i>šuw-a</i>	361
	* <i>šuw-l-a</i>	361
	* <i>mat'-a</i>	906
	* <i>nat'-a</i>	946
moist, to be	* <i>mat'-</i>	906
moisten, to	* <i>t'alʷ-</i>	234
	* <i>wal-</i>	818
	* <i>wet'-</i>	848
	* <i>nat'-</i>	946
	* <i>lah-</i>	965

English Meaning	Proto-Nostratic	Number
	<i>*law-V-ḥ-</i>	979
	<i>*rek'-</i>	993
moistness	<i>*nat'-a</i>	946
	<i>*laḥ-a</i>	965
moisture	<i>*suw-a</i>	361
	<i>*suw-l-a</i>	361
	<i>*wal-a</i>	818
	<i>*mat'-a</i>	906
mold (= form; shape)	<i>*lip'-a</i>	983
mold, to (= to form; to fashion)	<i>*lip'-</i>	983
mold (clay), to	<i>*diq<sup>h</sup>-</i>	177
moment	<i>*ʔam-a</i>	643
mommy	<i>*ma(a)</i>	862
more	<i>*ʔaph<sup>h</sup>-a</i>	653
more, that which is	<i>*ʔaph<sup>h</sup>-a</i>	653
more, to be	<i>*ʔaph-</i>	653
moreover	<i>*ʔaph-</i>	653
morning	<i>*dil<sup>y</sup>-a</i>	175
morsel	<i>*bal-a</i>	22
	<i>*ʔakh-a</i>	634
	<i>*mol-a</i>	917
morsel bitten (of food)	<i>*tʃ'ar-s-a</i>	622
mortar (= pestle)	<i>*hur-a</i>	759
	<i>*mol-a</i>	917
mosquito	<i>*bir-a</i>	56
	<i>*k'ug-n-a</i> (~ <i>*k'og-n-a</i> )	509
most prominent (person or thing)	<i>*xaj-t<sup>h</sup>-a</i>	791
most prominent, that which is	<i>*xaj-a</i>	790
most prominent part	<i>*mun-a</i>	921
most prominent person	<i>*ner-a</i>	947
most prominent thing	<i>*ner-a</i>	947
mother	<i>*da</i>	154
	<i>*da-da-</i>	154
	<i>*ʔam(m)a</i>	644
	<i>*ʔan<sup>y</sup>a</i>	649
	<i>*ʔay(y)a</i>	667
	<i>*ʔema</i>	674
	<i>*ʔen<sup>y</sup>a</i>	675
	<i>*ma(a)</i>	862
	<i>*mam(m)a, *mema</i>	862
motion	<i>*q<sup>h</sup>ad-a</i>	583
motion, any rapid	<i>*ʔor-a</i>	691
	<i>*raq'-a</i>	990

English Meaning	Proto-Nostratic	Number
motion, to be in	* <i>q<sup>h</sup>ad-</i>	583
motion, to put into	* <i>q<sup>h</sup>ad-</i>	583
mound	* <i>t<sup>h</sup>ul-a</i>	223
mount, to	* <i>ʔor<sup>y</sup>-V-g-</i>	692
	* <i>ʕar-V-g-</i>	772
mountain	* <i>t'id-a</i>	248
	* <i>ʕal-a</i>	763
	* <i>mal-a</i>	858
mountain-goat	* <i>ʔar-a</i>	675
mounting	* <i>ʔor<sup>y</sup>-g-a</i>	692
	* <i>ʕar-g-a</i>	772
mourning (= weeping; grieving)	* <i>k'um-a</i>	512
mouth	* <i>ham-a</i>	710
	* <i>haŋ-a</i>	711
mouth, to take into the (= to eat)	* <i>ham-</i>	710
move, to	* <i>gir<sup>y</sup>-</i> or * <i>gir<sup>y</sup>-</i>	400
	* <i>k'al-</i>	477
	* <i>q<sup>h</sup>ad-</i>	583
	* <i>ʕat<sup>h</sup>-</i>	773
	* <i>rag-</i>	985
move about, to	* <i>k<sup>w</sup>hal-</i>	525
move away from, to	* <i>ʔot'-</i>	694
move back and forth, to	* <i>raq'-</i>	990
move hastily, to	* <i>ʔor-</i>	691
move out of the way, to	* <i>ʔot'-</i>	694
move quickly, to	* <i>p<sup>h</sup>at'-</i>	122
	* <i>ʔek<sup>h</sup>-</i>	671
	* <i>ʔor-</i>	691
	* <i>hap<sup>h</sup>-</i>	736
	* <i>raq'-</i>	990
move rapidly, to	* <i>p<sup>h</sup>at<sup>h</sup>-</i>	120
	* <i>k<sup>w</sup>hat<sup>h</sup>-</i>	537
	* <i>ʔor-</i>	691
move swiftly, to	* <i>p<sup>h</sup>ar-</i>	110
	* <i>p<sup>h</sup>ir-</i>	130
	* <i>gir<sup>y</sup>-</i> or * <i>gir<sup>y</sup>-</i>	400
move to or toward, to	* <i>ʔot'-</i>	694
movement	* <i>gir<sup>y</sup>-a</i> or * <i>gir<sup>y</sup>-a</i>	400
	* <i>q<sup>h</sup>ad-a</i>	583
	* <i>rag-a</i>	985
movement, rapid	* <i>k<sup>w</sup>hat<sup>h</sup>-a</i>	537
	* <i>ʔek<sup>h</sup>-a</i>	671
movement, violent	* <i>ʔek<sup>h</sup>-a</i>	671

English Meaning	Proto-Nostratic	Number
movement away from	*ʔot'-a	694
movement to or toward	*ʔot'-a	694
much	*baž-a	46
	*p <sup>h</sup> al-a	99
	*k'an-a	483
	*mak'-a	873
	*mik'-a	914
	*baž-	46
much, to be	*baž-	46
mucus, dried	*p <sup>h</sup> ak <sup>h</sup> -a	93
mud	*diq <sup>h</sup> -a	177
mulberry	*mur-a	926
mule	*p <sup>h</sup> ar-a	111
multitude	*k <sup>h</sup> um-a	462
	*gam-a	571
	*man-a	888
	*man-g-a	889
	*k'was-a	559
	*k'was-	559
mumble	*k'was-	559
mumble, to	*k'ep'-	500
munch, to	*q'wal-a	602
	*wed-a	844
	*nik <sup>h</sup> -a	950
	*k'was-a	559
	*gar-a	572
murder	*gar-gar-a	572
	*mur-a	927
	*mur-mur-a	927
	*k'was-	559
	*mur-	927
	*mur-mur-	927
murmur	*bir-a	54
murmur, to	*mur-a	924
	*gar-	572
	*gar-gar-	572
musical instrument	*ḡiya	689
mutilated		
mutter, to		
my		
N		
name	*žah-a	343
nape of the neck	*k'ap <sup>h</sup> -a	489
narrow	*han-g-a	733
narrow, to make	*han-V-g-	733
near	*gid-a or *ḡid-a	381

English Meaning	Proto-Nostratic	Number
near to, to draw	*ʔanʷ-	647
nearness	*ʔanʷ-a	647
neck	*qʰarʷ-a	586
	*qʰel-a	596
	*qʷur-a	608
	*xʷelʷ-a	797
	*makʰ-a	871
need	*bad-a	8
	*gaʔ-a	362
	*ʔekʰ-a	672
	*h̄iw-a, *h̄iy-a	753
needs fulfilled, to have all	*tʰir-	218
	*tʰir-V-ph-	219
need, to stand in	*h̄iw-, *h̄iy-	753
needy	*kʰal-a	475
negative/prohibitive particle	*ʔe	669
	*ma(?)- (~ *mə(?)-)	863
	*na (~ *nə), *ni (~ *ne),	
	*nu (~ *no)	934
nerve	*sʷir-a	297
net	*kʰatʰ-a	444
	*netʷ-a	948
news	*war-a and/or *wir-a	835
next	*mal-a	887
nick (= incision; notch)	*h̄aʒ-a	751
night	*rum-a	997
nighttime	*nakʷh-a	943
nip, to	*tʷipʰ-	287
nip off, to	*kʰir- or *kʰur-	503
nipple	*diy-a	178
	*ʒuʒ-a	314
	*ʒim-a	778
no	*ʔe	669
	*ma(?)- (~ *mə(?)-)	863
	*na (~ *nə), *ni (~ *ne),	
	*nu (~ *no)	934
nobility	*mag-a	867
noble	*h̄ar-a	739
nobleman	*h̄ar-a	739
noise	*baħ-a	14
	*bar-a	38
	*bug-r-a	66
	*daw-a	166

English Meaning	Proto-Nostratic	Number
	*gal-a	373
	*k <sup>h</sup> al-a	420
	*k <sup>h</sup> aŋ-a	430
	*k <sup>h</sup> il-a	453
	*q <sup>w</sup> al-a	601
	*waf-a	810
	*wal-a	816
	*mur-a	927
	*mur-mur-a	927
noise, (rustling or rumbling)	*t <sup>y</sup> ar-a	284
noise, loud	*gad-a	567
	*gad-gad-a	567
	*x <sup>w</sup> ir-a	798
noise, to make	*baḥ-	14
	*mur-	927
	*mur-mur-	927
noise, to make a	*bug-V-r-	66
	*daw-	166
	*t <sup>y</sup> ar-	284
	*k <sup>h</sup> al-	420
	*k <sup>h</sup> aŋ-	430
	*k <sup>h</sup> il-	453
noise, to make a loud	*gad-	567
	*gad-gad-	567
	*x <sup>w</sup> ir-	798
noise, to utter a	*bar-	38
noisy, to be	*gal-	373
nose	*san-a or *šan-a, *sin-a or *šin-a, *sun-a or *šun-a	335
not	*ʔe	669
	*ma(?)- (~ *mə(?)-)	863
	*na (~ *nə), *ni (~ *ne), *nu (~ *no)	934
notch	*dal-a	158
	*k <sup>h</sup> ir-a or *k <sup>h</sup> ur-a	503
	*ḥaʒ-a	751
notch, to	*dal-	158
	*k <sup>h</sup> ir- or *k <sup>h</sup> ur-	503
	*ḥaʒ-	751
nothing	*ʔal-a	641
notice	*gun-a	406
	*guw-a	399



English Meaning	Proto-Nostratic	Number
notice, to	* <i>baw-</i>	39
	* <i>gun-</i>	394
	* <i>guw-</i>	411
	* <i>ʕen-</i>	774
	* <i>ʕuk<sup>wh</sup>-</i>	781
noticeable, that which is notion	* <i>xaŋ-a</i>	790
	* <i>ʕeŋ-a</i>	774
nourish, to	* <i>p<sup>hin</sup>-</i>	128
	* <i>k'al-</i>	473
nourishing	* <i>p<sup>hin</sup>-a</i>	128
nourishment	* <i>p<sup>ha</sup>h-a</i>	92
	* <i>p<sup>hin</sup>-a</i>	128
	* <i>k'al-a</i>	473
	* <i>ʕ'ar-s-a</i>	622
	* <i>ʔit'-a</i>	687
	* <i>ʔam-a</i>	643
now (= at present, currently)	* <i>nuw-</i>	955
number	* <i>xal-a</i>	787
numerous	* <i>ʔaph-a</i>	653
	* <i>mal-a</i>	876
	* <i>man-g-a</i>	889
numerous, to be	* <i>baʒ-</i>	46
nurse, to (= to suckle)	* <i>k'wan-</i>	551
	* <i>mam-, *mem-</i>	862
	* <i>mal-</i>	879
nurse (a child), to	* <i>man-</i>	884
nurture, to	* <i>p<sup>hin</sup>-</i>	128
nutriment	* <i>k'al-a</i>	473
O		
observation	* <i>ʕuk<sup>wh</sup>-a</i>	781
observe, to	* <i>ʕuk<sup>wh</sup>-</i>	781
obscure	* <i>bal-a</i>	20
obscure, to	* <i>dum-</i>	187
	* <i>hag-</i>	720
obscure, to be or become	* <i>bal-</i>	20
obscurity	* <i>bal-a</i>	20
	* <i>k'ar-a</i>	492
observation	* <i>bak'-a</i>	18
	* <i>guw-a</i>	411
	* <i>k'an<sup>v</sup>-a</i>	487
	* <i>ʕuk<sup>wh</sup>-a</i>	781

English Meaning	Proto-Nostratic	Number
	* <i>raʔ-a</i>	984
	* <i>raʔ-y-a</i>	984
	* <i>rak'-a</i>	989
observe, to	* <i>bak'-</i>	18
	* <i>baw-</i>	43
	* <i>guw-</i>	411
	* <i>k'anʷ-</i>	487
	* <i>ʕukʰh-</i>	781
	* <i>war-</i>	830
	* <i>rak'-</i>	989
observes, that which	* <i>k'anʷ-a</i>	487
observing, the act of	* <i>k'anʷ-a</i>	487
obstacle	* <i>t'ad-a</i>	228
obstruct, to	* <i>t'ad-</i>	228
obstruction	* <i>t'ad-a</i>	228
obtain, to	* <i>sag-</i> or * <i>ʂag-</i>	329
obtained	* <i>ʔam-a</i>	642
obvious, to be or become	* <i>gal-</i>	372
occur, to	* <i>bad-</i>	7
odor	* <i>ʕut'-a</i>	784
odor, to give off a strong	* <i>ɖipʰ-</i>	266
offer, to	* <i>hin-V-kʰ-</i>	752
offering	* <i>hin-kʰ-a</i>	752
offspring	* <i>pʰasʷ-a</i>	119
	* <i>pʰir-a</i>	129
	* <i>k'an-a</i>	481
	* <i>ʔum-a</i>	699
	* <i>nʷapʰ-a</i>	959
(oil)	* <i>pʰulʷ-a</i>	137
oil	* <i>mar-a</i>	898
ointment	* <i>mar-a</i>	898
old	* <i>bul-a</i>	74
	* <i>tʰanʷ-a</i>	202
	* <i>sʷenʷ-a</i>	294
	* <i>ʒaw-a</i>	345
	* <i>girʷ-a</i>	399
	* <i>k'er-a</i>	501
	* <i>ʕatʰ-a</i>	773
	* <i>watʰ-a</i>	839
old, to be or become	* <i>girʷ-</i>	399
old, to become	* <i>bul-</i>	74
	* <i>k'er-</i>	501
old, to grow	* <i>pʰarʷ-</i>	116

English Meaning	Proto-Nostratic	Number
	* <i>than<sup>y</sup></i> -	202
	* <i>s<sup>y</sup>en<sup>y</sup></i> -	294
	* <i>t<sup>h</sup>ay</i> -	615
	* <i>wath</i> -	839
old age	* <i>than<sup>y</sup>-a</i>	202
	* <i>s<sup>y</sup>en<sup>y</sup>-a</i>	294
	* <i>gir<sup>y</sup>-a</i>	399
	* <i>k'er-a</i>	501
	* <i>t<sup>h</sup>ay-a</i>	615
	* <i>cat<sup>h</sup>-a</i>	773
old man	* <i>p'ap'-a</i>	149
old person	* <i>s<sup>y</sup>en<sup>y</sup>-a</i>	294
	* <i>gir<sup>y</sup>-a</i>	399
	* <i>k'er-a</i>	501
old woman	* <i>p'ap'-a</i>	149
(older) female relative	* <i>ʔan(η)a</i>	651
(older) male relative	* <i>ʔan(η)a</i>	652
older female relative	* <i>ʔakk<sup>h</sup>a</i>	637
	* <i>ʔema</i>	674
older male relative	* <i>ʔakk<sup>h</sup>a</i>	638
	* <i>ʔat<sup>h</sup>a</i>	660
older relative (male or female)	* <i>ʔat<sup>y</sup>a</i>	661
on	* <i>ʔan<sup>y</sup></i> -	648
	* <i>ʕal</i> -	763
on fire, to be	* <i>hag</i> -	702
on top of	* <i>ʕal</i> -	763
	* <i>xan</i> -	790
Onager	* <i>p<sup>h</sup>ar-a</i>	111
one	* <i>ʔoy-a</i>	696
one [indefinite pronoun stem]	* <i>ma-</i> (~ * <i>mə-</i> ), * <i>mi-</i> (~ * <i>me-</i> ), * <i>mu-</i> (~ * <i>mo-</i> )	861
one who makes or constructs something in a skillful manner	* <i>t'am-a</i>	235
ooze, to	* <i>k'wal<sup>y</sup></i> -	549
open	* <i>p<sup>h</sup>al-a</i>	97
	* <i>p<sup>h</sup>at<sup>h</sup>-a</i>	121
open, that which is	* <i>p<sup>h</sup>al-a</i>	97
open, to	* <i>ban</i> -	25
	* <i>p<sup>h</sup>at<sup>h</sup></i> -	121
	* <i>han</i> -	711
open, to be	* <i>p<sup>h</sup>at<sup>h</sup></i> -	121
	* <i>wel<sup>y</sup></i> -	846

English Meaning	Proto-Nostratic	Number
open, to burst	* <i>p<sup>h</sup>at<sup>h</sup>-</i>	121
open land	* <i>bar-a</i>	42
	* <i>wel<sup>v</sup>-a</i>	846
open space	* <i>p<sup>h</sup>al-a</i>	97
	* <i>p<sup>h</sup>at<sup>h</sup>-a</i>	121
	* <i>wel<sup>v</sup>-a</i>	846
open surface	* <i>p<sup>h</sup>al-a</i>	97
open the mouth, to	* <i>haŋ-</i>	711
opening	* <i>bad-a</i>	5
	* <i>ban-a</i>	25
	* <i>p<sup>h</sup>ač<sup>h</sup>-a</i>	90
	* <i>p<sup>h</sup>at<sup>h</sup>-a</i>	121
	* <i>p<sup>h</sup>ut<sup>h</sup>-a</i>	147
	* <i>dur-a</i>	191
	* <i>v<sup>h</sup>al-m-a</i>	269
	* <i>haŋ-a</i>	711
oppose, to	* <i>ʔet<sup>h</sup>-</i>	679
	* <i>mar-</i>	894
opposite side	* <i>v<sup>h</sup>in-a</i>	272
opposite, that which is	* <i>ʔet<sup>h</sup>-a</i>	679
oppress, to	* <i>bad-</i>	7
	* <i>dal<sup>v</sup>-</i>	160
	* <i>hak'-</i>	704
oppressed	* <i>dal<sup>v</sup>-a</i>	160
oppressed, to be	* <i>hag-</i>	719
oppression	* <i>bad-a</i>	7
	* <i>hak'-a</i>	704
	* <i>hag-a</i>	719
or	* <i>ʔaw-, *ʔwa- (~ *ʔwə-)</i>	662
	* <i>har<sup>v</sup>-</i>	741
order	* <i>woy-k<sup>h</sup>-a</i>	856
order, to arrange in	* <i>woy-V-k<sup>h</sup>-</i>	856
order, to put in	* <i>woy-V-k<sup>h</sup>-</i>	856
ordinary, to be	* <i>ʔek'-</i>	672
ore	* <i>hay-a</i>	716
organ of hearing (= ear)	* <i>d<sup>v</sup>an-a</i>	260
origin	* <i>p<sup>h</sup>it<sup>y</sup>-a</i>	133
originate, to	* <i>bad-</i>	10
origination	* <i>bad-a</i>	10
other	* <i>v<sup>h</sup>in-a</i>	272
	* <i>hal-a</i>	706
	* <i>mal-a</i>	881
other [indefinite pronoun stem]	* <i>ma- (~ *mə-),</i>	

English Meaning	Proto-Nostratic	Number
	<i>*mi-</i> (~ <i>*me-</i> ),	
	<i>*mu-</i> (~ <i>*mo-</i> )	861
other side	<i>*v<sup>h</sup>in-a</i>	272
	<i>*hal-a</i>	706
otherwise	<i>*hal-</i>	706
outcry	<i>*q<sup>w</sup>al-a</i>	601
outdoor area	<i>*ʔut<sup>-</sup>-a</i>	701
outer covering	<i>*k<sup>w</sup>oy-a</i>	565
outgrowth	<i>*dar<sup>y</sup>-a</i>	165
	<i>*ʕag-a</i>	761
outpour	<i>*baʕ-a</i>	1
	<i>*bal-a</i>	21
outside of, to go	<i>*gus-</i>	410
outside, to make to go	<i>*gus-</i>	410
outsider	<i>*gus-a</i>	410
outstrip, to	<i>*p<sup>h</sup>ar-</i>	109
oven	<i>*ʔep<sup>h</sup>-a</i>	677
over (= above)	<i>*ʔan<sup>y</sup>-</i>	648
	<i>*ʕal-</i>	763
	<i>*xanʃ-</i>	790
over (= above), that which is	<i>*ʔap<sup>h</sup>-a</i>	653
over, to be (= to be above)	<i>*ʔap<sup>h</sup>-</i>	653
	<i>*har-</i>	739
overflow	<i>*ʔib-a</i>	680
overflow, to	<i>*bal-</i>	21
	<i>*bul-</i>	68
	<i>*bun-</i>	77
	<i>*k<sup>w</sup>aly-</i>	549
	<i>*ʔib-</i>	680
	<i>*haw-</i>	746
overshadow, to	<i>*t<sup>y</sup>al-</i> and/or <i>*t<sup>y</sup>il-</i>	278
	<i>*hag-</i>	720
overtake, to	<i>*p<sup>h</sup>ar-</i>	109
overturn, to	<i>*maq<sup>wh</sup>-</i>	893
	<i>*mar-</i>	896
overturned	<i>*hap<sup>h</sup>-a</i>	712
overturning	<i>*hap<sup>h</sup>-a</i>	712
	<i>*maq<sup>wh</sup>-a</i>	893
ox	<i>*v<sup>h</sup>ar<sup>y</sup>-a</i>	271
	<i>*k<sup>w</sup>ow-a</i>	564
	P	
pacify, to	<i>*t<sup>u</sup>m-</i>	256

English Meaning	Proto-Nostratic	Number	
pack	* <i>bag-a</i>	12	
pack tightly together, to	* <i>t'an-</i>	236	
pack together, to	* <i>hak'-</i>	704	
packed tightly together	* <i>t'an-a</i>	236	
pain	* <i>p<sup>h</sup>al<sup>y</sup>-a</i>	103	
	* <i>t<sup>h</sup>al<sup>y</sup>-a</i>	199	
	* <i>gal-a</i>	374	
	* <i>k'ac<sup>h</sup>-a</i>	468	
	* <i>hak'-a</i>	704	
	* <i>wal-a</i>	820	
	* <i>mir-a</i>	916	
	* <i>muŋ-a</i>	923	
	* <i>nik<sup>h</sup>-a</i>	950	
	* <i>nus<sup>y</sup>-a</i>	954	
	pain, to be in	* <i>gal-</i>	374
		* <i>muŋ-</i>	923
		* <i>nus<sup>y</sup>-</i>	954
	pain, to cause	* <i>mir-</i>	916
		* <i>muŋ-</i>	923
painful, to be	* <i>p<sup>h</sup>al<sup>y</sup>-</i>	103	
	* <i>k<sup>h</sup>ol<sup>y</sup>-a</i>	458	
pair	* <i>yor-a</i>	807	
	* <i>k<sup>h</sup>ol<sup>y</sup>-</i>	458	
pair, to	* <i>p<sup>h</sup>al-a</i>	98	
palm (= flat of the hand)	* <i>p<sup>h</sup>at<sup>h</sup>-</i>	120	
palpitate, to	* <i>gub-a</i>	403	
pan (= vessel used for cooking)	* <i>saw-</i>	357	
pant, to	* <i>t<sup>h</sup>er-a</i>	616	
parched	* <i>p<sup>h</sup>ar-a</i>	107	
	* <i>p<sup>h</sup>as<sup>y</sup>-a</i>	118	
	* <i>dun<sup>y</sup>-a</i>	190	
	* <i>c<sup>h</sup>al-a</i>	318	
	* <i>si<sup>h</sup>-a</i>	359	
	* <i>ʔar-a</i>	654	
	* <i>law-</i>	978	
	* <i>ʔar-</i>	654	
	* <i>law-a</i>	978	
	* <i>ʔar-a</i>	654	
partridge (onomatopoeic bird name)	* <i>k'ak'-a</i>	471	
pass, to	* <i>p<sup>h</sup>ar-</i>	114	
pass (of time), to	* <i>wat<sup>h</sup>-</i>	839	
pass across, to	* <i>p<sup>h</sup>ar-</i>	114	
pass over, to	* <i>p<sup>h</sup>ar-</i>	114	

English Meaning	Proto-Nostratic	Number
passage	* <i>p<sup>h</sup>ar-a</i>	114
	* <i>q<sup>h</sup>ad-a</i>	583
	* <i>mar-a</i>	897
passion	* <i>man<sup>y</sup>-a</i>	890
path	* <i>q<sup>h</sup>ad-a</i>	583
	* <i>ʔiy-a</i>	688
paw	* <i>man<sup>y</sup>-a</i>	892
pay attention, to	* <i>guw-</i>	411
	* <i>ʕen-</i>	774
pay-back	* <i>k<sup>h</sup>ap'-a</i>	433
pay back, to	* <i>k<sup>h</sup>ap'-</i>	433
payment	* <i>k<sup>w</sup>har-a</i>	536
	* <i>k<sup>w</sup>hey-a</i>	539
peace	* <i>t'um-a</i>	256
	* <i>ʔan<sup>y</sup>-a</i>	646
peace, to be at	* <i>ʔan<sup>y</sup>-</i>	646
	* <i>t'um-a</i>	256
peaceful	* <i>ʔan<sup>y</sup>-a</i>	646
	* <i>gab-a</i>	364
peak (= pinnacle)	* <i>gar<sup>y</sup>-a</i>	386
	* <i>k<sup>h</sup>ir-a</i>	455
	* <i>q'war-a</i>	604
	* <i>ʕal-a</i>	763
	* <i>c'ir<sup>y</sup>-</i>	325
peep, to	* <i>gal-</i>	372
	* <i>t<sup>h</sup>ak<sup>h</sup>-a</i>	196
peer at, to	* <i>t'ul<sup>y</sup>-a</i>	255
	* <i>t<sup>h</sup>uŋ-k<sup>h</sup>-a</i>	620
peg	* <i>nak<sup>h</sup>-a</i>	942
pelt (= animal skin)	* <i>bir<sup>y</sup>-a</i>	58
	* <i>bul-a</i> (~ * <i>bol-a</i> )	69
penis	* <i>p<sup>h</sup>as<sup>y</sup>-a</i>	119
	* <i>k<sup>h</sup>um-a</i>	463
	* <i>man<sup>y</sup>-a</i>	891
	* <i>san-</i> or * <i>šan-</i> ,	
	* <i>sin-</i> or * <i>šin-</i> ,	
perceive, to	* <i>sun-</i> or * <i>šun-</i>	335
	* <i>gun-</i>	406
	* <i>k'an<sup>y</sup>-</i>	487
	* <i>ʕuk<sup>w</sup>h-</i>	781
	* <i>raʔ-</i>	984
perceived, that which is	* <i>raʔ-V-y-</i>	984
	* <i>san-a</i> or * <i>šan-a</i> ,	

English Meaning	Proto-Nostratic	Number
perceives, that which	* <i>sin-a</i> or * <i>šin-a</i> , * <i>sun-a</i> or * <i>šun-a</i>	335
	* <i>san-a</i> or * <i>šan-a</i> , * <i>sin-a</i> or * <i>šin-a</i> , * <i>sun-a</i> or * <i>šun-a</i>	335
	* <i>k'an<sup>v</sup>-a</i>	487
perceiving	* <i>raʔ-a</i>	984
perceiving, the act of perception	* <i>raʔ-y-a</i>	984
	* <i>k'an<sup>v</sup>-a</i>	487
period (of time)	* <i>san-a</i> or * <i>šan-a</i> , * <i>sin-a</i> or * <i>šin-a</i> , * <i>sun-a</i> or * <i>šun-a</i>	335
	* <i>gun-a</i>	406
	* <i>k'an<sup>v</sup>-a</i>	487
	* <i>ʕuk<sup>wh</sup>-a</i>	781
	* <i>raʔ-a</i>	984
	* <i>raʔ-y-a</i>	984
	* <i>wan-a</i>	825
	* <i>bad-</i>	9
	* <i>gup<sup>h</sup>-</i>	407
	* <i>mar<sup>y</sup>-</i>	902
perish, to cause to perplex, to perplexed, to be	* <i>mud-</i>	919
	* <i>hul-</i>	757
	* <i>dul-</i>	183
	* <i>dig-</i>	174
	* <i>dul-</i>	183
	* <i>mak<sup>h</sup>-</i>	872
	* <i>mal-</i>	883
perplexity	* <i>dig-a</i>	174
	* <i>dul-a</i>	183
	* <i>mal-a</i>	883
perturbation (= disturbance)	* <i>k'al-a</i>	477
	* <i>gal-a</i>	570
pestle	* <i>hur-a</i>	759
pestle, grinding	* <i>k'war-a</i>	555
(pick)axe	* <i>gad-a</i>	367
pick, to	* <i>gar-a</i>	382
	* <i>k'er-</i>	502
	* <i>hac'-</i>	718
pick up, to picked	* <i>k'ul-</i>	510
	* <i>hac'-a</i>	718
picking, the act of	* <i>lak'-a</i>	969
	* <i>hac'-a</i>	718



English Meaning	Proto-Nostratic	Number
piece	* <i>c<sup>h</sup>al-a</i>	318
	* <i>gad-a</i>	367
	* <i>k<sup>h</sup>as-a</i>	443
	* <i>mol-a</i>	917
piece broken off	* <i>bit<sup>h</sup>-a</i>	60
piece cut off	* <i>dum-a</i>	185
	* <i>dun<sup>y</sup>-a</i>	190
	* <i>k'ir-a</i> or * <i>k'ur-a</i>	503
	* <i>k<sup>wh</sup>ar-a</i>	532
	* <i>bur-</i>	80
pierce, to	* <i>dal-</i>	158
	* <i>t<sup>h</sup>ar-</i>	206
	* <i>zer-</i> or * <i>žer-</i>	309
	* <i>c<sup>h</sup>ag-</i>	315
	* <i>t<sup>h</sup>ak<sup>wh</sup>-</i>	610
	* <i>xat'-</i>	792
	* <i>mir-</i>	916
	* <i>nag-</i>	940
	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	447
	* <i>bul<sup>y</sup>-a</i>	75
	* <i>k<sup>h</sup>aw-a</i>	448
piercing (of sounds)	* <i>t<sup>h</sup>ul-</i>	223
	* <i>k<sup>h</sup>um-</i>	462
pigeon	* <i>p<sup>h</sup>ul<sup>y</sup>-a</i>	136
pile	* <i>bit<sup>y</sup>-a</i>	59
pile up, to	* <i>t<sup>y</sup>ip<sup>h</sup>-</i>	287
	* <i>bur-a</i>	85
pimple	* <i>k<sup>h</sup>ay-w-a</i>	452
pinch	* <i>k<sup>wh</sup>ar-a</i>	533
	* <i>wur<sup>y</sup>-a</i>	859
pinch, to	* <i>dag-a</i>	156
	* <i>ʔas<sup>y</sup>-a</i>	659
pinion (= wing)	* <i>ʔin-a</i> (~ * <i>ʔen-a</i> )	684
	* <i>dag-</i>	156
pit	* <i>daw-</i>	167
	* <i>day-</i>	169
	* <i>k<sup>h</sup>ay-</i>	450
	* <i>ʔas<sup>y</sup>-</i>	659
	* <i>lag-</i>	963
place	* <i>dag-</i>	156
	* <i>ʔas<sup>y</sup>-a</i>	659
place, to	* <i>k<sup>h</sup>ay-</i>	450
	* <i>lag-a</i>	963
place down, to	* <i>dag-</i>	156
	* <i>ʔas<sup>y</sup>-a</i>	659
place, to put in	* <i>k<sup>h</sup>ay-</i>	450
	* <i>lag-a</i>	963
placed		
placed, to be		
placing down, the act of		

English Meaning	Proto-Nostratic	Number
plain (= evident)	*gal-a	372
plain, to be	*ʔek'-	672
plait, to	*t'an-	237
	*k <sup>h</sup> at <sup>h</sup> -	444
	*h <sup>h</sup> aw-	748
	*t'an-a	237
	*k <sup>h</sup> at <sup>h</sup> -a	444
plaited, anything	*h <sup>h</sup> aw-a	748
plaited, that which is	*t <sup>h</sup> ar-	209
plaiting, the act of	*č'ir-a	353
plane, to	*bir-	54
plank	*zim- or *žim-	312
play (a musical instrument), to	*zak'-	307
play (a wind instrument), to	*bir-a	54
play about, to	*zim-a or *žim-a	312
playing (a musical instrument)	*mal-a	877
playing (a wind instrument)	*mak'-	874
pleasant	*mal-a	877
pleasant, to be	*p <sup>h</sup> ar-	106
pleasantness	*mal-a	877
pleased, to be	*mak'-a	874
pleasing	*t <sup>h</sup> ir-p <sup>h</sup> -a	218
pleasure	*gam-a	378
	*h <sup>h</sup> ap <sup>h</sup> -a	735
	*maʔ-a	864
	*t <sup>h</sup> ir-	218
	*t <sup>h</sup> ir-V-p <sup>h</sup> -	219
plenty	*p <sup>h</sup> id-	142
	*t'ar-V-p <sup>h</sup> -	241
	*c'ilv-	324
	*k'er-	502
	*h <sup>h</sup> ac'-	718
	*p <sup>h</sup> id-	142
plenty, to have	*gal-	369
	*k'alv-	479
	*p <sup>h</sup> id-	142
pluck, to	*k'alv-	479
	*h <sup>h</sup> ac'-a	718
pluck off, to	*t'ar-p <sup>h</sup> -a	241
	*p <sup>h</sup> id-a	142
pluck out, to	*h <sup>h</sup> ac'-a	718
	*p <sup>h</sup> id-a	142
plucked	*h <sup>h</sup> ac'-a	718
plucking	*t'ar-p <sup>h</sup> -a	241
plucking, the act of	*p <sup>h</sup> id-a	142
	*h <sup>h</sup> ac'-a	718
plug	*zag-a	304
plum	*bir <sup>v</sup> -q'-a	57

English Meaning	Proto-Nostratic	Number
plunder	* <i>svily-a</i>	296
plunge	* <i>mus<sup>y</sup>-a</i>	909
	* <i>mus<sup>y</sup>-k'-a</i>	909
plunge, to	* <i>ʕam-</i>	749
plunge in water, to	* <i>mus<sup>y</sup>-</i>	928
	* <i>mus<sup>y</sup>-V-k'-</i>	928
plunge into, to	* <i>t'al-</i>	232
point (= tip)	* <i>bar-a</i>	29
	* <i>dud-a</i>	181
	* <i>ʒuʒ-a</i>	314
	* <i>gar<sup>y</sup>-a</i>	386
	* <i>q'war-a</i>	604
	* <i>ʔam-a</i>	643
	* <i>k<sup>h</sup>al-</i>	422
point of time	* <i>war-</i> and/or * <i>wir-</i>	835
point out, to	* <i>ʔad<sup>y</sup>-a</i>	631
pointed	* <i>gar<sup>y</sup>-a</i>	575
pole	* <i>mel-</i>	908
polish, to	* <i>mol-</i>	917
	* <i>mor-a</i>	918
pool	* <i>t'yar-a</i>	282
poplar tree	* <i>wir-a</i>	852
	* <i>bay-a</i>	44
portion	* <i>p<sup>h</sup>ar-a</i>	107
	* <i>p<sup>h</sup>as<sup>y</sup>-a</i>	118
	* <i>sih-a</i>	359
	* <i>xal-a</i>	787
	* <i>wan-a</i>	825
	* <i>hap<sup>h</sup>-a</i>	735
	possessions	
post-positional intensifying and conjoining particle	* <i>k<sup>wh</sup>a-</i> (~ * <i>k<sup>wh</sup>ə-</i> )	524
	* <i>gal-a</i>	371
pot (= container)	* <i>gub-a</i>	403
	* <i>k'ud-a</i> (~ * <i>k'od-a</i> )	508
	* <i>k<sup>wh</sup>ar-a</i>	535
	* <i>dar-</i>	163
pound, to	* <i>t<sup>h</sup>ap<sup>h</sup>-</i>	203
	* <i>t'aḥ-</i>	229
	* <i>t'ap<sup>h</sup>-</i>	238
	* <i>t'uk'-</i>	254
	* <i>ʔ<sup>h</sup>um-</i>	275
	* <i>t'yad-</i>	276
	* <i>caḥ-</i>	316

English Meaning	Proto-Nostratic	Number
	* <i>gin-</i>	397
	* <i>k'an-</i>	484
	* <i>k'wad-</i>	545
	* <i>k'wah-</i>	547
	* <i>hur-</i>	759
	* <i>was<sup>y-</sup></i>	837
pound (earth), to	* <i>diq<sup>h-</sup></i>	177
pounded	* <i>k'wah-a</i>	547
pounding	* <i>chah-a</i>	316
pounding, the act of	* <i>chah-a</i>	316
	* <i>gin-a</i>	397
	* <i>was<sup>y-</sup>a</i>	837
pour, to	* <i>baʕ-</i>	1
	* <i>ban-</i>	24
	* <i>lah-</i>	965
pour out, to	* <i>ʔib-</i>	680
pour over, to	* <i>bal-</i>	21
	* <i>ʔib-</i>	680
pouring	* <i>ʔor-a</i>	691
	* <i>lah-a</i>	965
poverty	* <i>k'al-a</i>	475
power (= strength; ability)	* <i>gal-a</i>	376
	* <i>ʔab-a</i>	628
	* <i>hal<sup>y-</sup>a</i>	727
	* <i>wak'-a</i>	813
	* <i>wal-a</i>	814
	* <i>woy-a</i>	855
	* <i>mag-a</i>	867
	* <i>mak'-a</i>	873
powerful	* <i>ʔad-a</i>	630
	* <i>hal<sup>y-</sup>a</i>	727
	* <i>mag-a</i>	867
	* <i>mak'-a</i>	873
powerful, to be	* <i>gal-</i>	376
	* <i>ʔad-</i>	630
	* <i>mak'-</i>	873
pray, to	* <i>phir-</i>	145
prayer	* <i>phir-a</i>	145
precede, to	* <i>phar-</i>	109
prepare, to	* <i>har-</i>	737
	* <i>rak<sup>h-</sup></i>	987
preparing, the act of	* <i>rak<sup>h-</sup>a</i>	987
presence	* <i>k'al-a</i>	478

English Meaning	Proto-Nostratic	Number
present (= gift)	*t'ox <sup>w</sup> -a	252
	*h <sup>i</sup> n-k <sup>h</sup> -a	752
present, to	*h <sup>i</sup> n-V-k <sup>h</sup> -	752
	*t <sup>h</sup> al <sup>y</sup> -	200
press, to	*ʒag-	305
	*č <sup>h</sup> eč <sup>h</sup> -	349
	*wal-	820
	*nad <sup>y</sup> -	938
	*n <sup>y</sup> am-	958
	*bit <sup>y</sup> -	59
press between the fingers, to	*p <sup>h</sup> ar-	109
press forward, to	*t <sup>ʃ</sup> 'uk <sup>h</sup> -	625
press (in), to	*t <sup>h</sup> ur-	226
press in, to	*k <sup>w</sup> a <sup>h</sup> -	547
press together, to	*t <sup>h</sup> ik'-	217
	*c'ur-	326
	*gid- or *gid-	393
	*k'um-	513
	*t <sup>ʃ</sup> 'im-	624
	*hak'-	704
press with the hand, to	*k <sup>h</sup> ap <sup>h</sup> -	431
	*č <sup>h</sup> eč <sup>h</sup> -a	349
pressed, that which is	*gid-a or *gid-a	393
pressed close together	*hag-	719
pressed down, to be	*t'an-a	236
pressed tightly together	*k <sup>w</sup> a <sup>h</sup> -a	547
pressed together	*t <sup>ʃ</sup> 'im-a	624
pressing	*ʒag-a	293
	*n <sup>y</sup> am-a	939
	*č <sup>h</sup> eč <sup>h</sup> -a	349
pressing, the act of	*bit <sup>y</sup> -a	59
pressure	*t <sup>h</sup> al <sup>y</sup> -a	200
	*t <sup>h</sup> ik'-a	217
	*t <sup>h</sup> ur-a	226
	*k'um-a	513
prick	*c <sup>h</sup> ag-a	315
prick, to	*bit <sup>ʃ</sup> -	60
	*dal-	158
	*c <sup>h</sup> ag-	315
	*t <sup>ʃ</sup> <sup>h</sup> ak <sup>w</sup> h-	610
	*xat'-	792
	*ʔad <sup>y</sup> -a	631
prickly (= pointed; sharp)	*q'al <sup>y</sup> -a	591
private parts (male or female)		

English Meaning	Proto-Nostratic	Number
proceed, to	* <i>buw-</i>	88
	* <i>ʔay-</i>	665
	* <i>ʕath-</i>	773
proclaim, to proclamation	* <i>bak<sup>h</sup>-</i>	16
	* <i>bak<sup>h</sup>-a</i>	16
	* <i>k'ar-a</i>	491
procure, to procurement	* <i>k<sup>wh</sup>ar-</i>	536
	* <i>k<sup>wh</sup>ar-a</i>	536
produce	* <i>k'an-a</i>	469
produce, to	* <i>č<sup>h</sup>an-</i>	348
	* <i>k'an-</i>	481
produce young, to	* <i>yaw-</i>	805
produced	* <i>k'an-a</i>	481
produced, that which is	* <i>č<sup>h</sup>an-a</i>	348
progenitor (= begetter; man; male)	* <i>man<sup>y</sup>-a</i>	891
project, to (= to stick out; to protrude)	* <i>gar<sup>y</sup>-</i>	386
prominence	* <i>did-a</i>	172
prominent, that which is most	* <i>xan<sup>ɣ</sup>-a</i>	790
prominent (person or thing), the most	* <i>xan<sup>ɣ</sup>-t<sup>h</sup>-a</i>	791
prong	* <i>t<sup>h</sup>ak<sup>wh</sup>-a</i>	610
pronominal base of uncertain deictic function	* <i>gi-</i> (~ * <i>ge-</i> )	391
	* <i>t'ak<sup>h</sup>-a</i>	230
proper	* <i>s<sup>y</sup>uw-a</i>	303
	* <i>t'ak<sup>h</sup>-</i>	230
proper, to be	* <i>s<sup>y</sup>uw-</i>	303
	* <i>hap<sup>h</sup>-a</i>	735
property	* <i>t'ak<sup>h</sup>-a</i>	230
propriety	* <i>s<sup>y</sup>uw-a</i>	303
	* <i>riy-</i>	994
prosper, to prosperity	* <i>bul-ɣ-a</i>	70
	* <i>buw-a</i>	89
protect, to	* <i>c'al-a</i> or * <i>č'al-a</i>	320
	* <i>g<sup>w</sup>an-a</i>	521
	* <i>riy-a</i>	994
	* <i>p<sup>h</sup>in<sup>y</sup>-</i>	128
	* <i>t'aq'-</i>	239
	* <i>man-</i>	887
protector	* <i>man-a</i>	887
	* <i>p<sup>h</sup>in<sup>y</sup>-a</i>	128
protection	* <i>k<sup>h</sup>ad-a</i>	417
	* <i>k<sup>h</sup>al-a</i>	421
	* <i>man-a</i>	887

English Meaning	Proto-Nostratic	Number
protrude, to	* <i>rak'-a</i>	989
	* <i>gar<sup>y</sup>-</i>	386
	* <i>mun-</i>	921
protuberance	* <i>did-a</i>	172
	* <i>t<sup>h</sup>aw-a</i>	212
	* <i>k'ar-a</i>	494
	* <i>ʕag-a</i>	761
	* <i>bun-a</i>	76
protuberance, rounded	* <i>ʔan<sup>y</sup>-a</i>	647
proximity	* <i>bul-a</i>	68
puff	* <i>bul-bul-a</i> (> * <i>bum-bul-a</i> )	71
	* <i>p<sup>h</sup>uš-a</i>	139
puff of air	* <i>p<sup>h</sup>uw-a</i>	148
	* <i>ʔup<sup>h</sup>-a</i>	700
puff, to	* <i>p<sup>h</sup>uw-</i>	148
	* <i>bar-</i>	28
puff up, to	* <i>bul-</i>	68
	* <i>bun-</i>	76
	* <i>p<sup>h</sup>uš-</i>	139
	* <i>p<sup>h</sup>uw-</i>	148
	* <i>šiw-a</i>	360
	* <i>t<sup>h</sup>ar-a</i>	205
	* <i>bir-</i>	55
	* <i>p<sup>h</sup>id-</i>	142
puffed up	* <i>t<sup>h</sup>ar-</i>	205
	* <i>ʔir<sup>y</sup>-</i>	686
pull	* <i>p'ut'-</i>	152
	* <i>bir-</i>	55
pull, to	* <i>p<sup>h</sup>id-</i>	142
	* <i>k'al<sup>y</sup>-</i>	479
	* <i>x<sup>w</sup>al-</i>	794
	* <i>wal-</i>	815
	* <i>p<sup>h</sup>id-</i>	142
pull (out), to	* <i>k'al<sup>y</sup>-</i>	479
	* <i>x<sup>w</sup>al-</i>	794
pull out, to	* <i>t<sup>h</sup>ar-a</i>	205
	* <i>p'ut'-a</i>	152
pulled along, something	* <i>wal-a</i>	815
	* <i>ʔir<sup>y</sup>-</i>	686
pulled-off piece or part	* <i>p<sup>h</sup>id-a</i>	142
	* <i>bir-a</i>	55
pulling	* <i>x<sup>w</sup>al-a</i>	794
	* <i>t<sup>h</sup>ar-a</i>	205
pulling, (the act of)	* <i>p'ut'-a</i>	152
	* <i>wal-a</i>	815
pulling, the act of	* <i>ʔir<sup>y</sup>-</i>	686
	* <i>p<sup>h</sup>id-a</i>	142
pulling off, the act of	* <i>bir-a</i>	55
	* <i>x<sup>w</sup>al-a</i>	794
pulling out, the act of	* <i>x<sup>w</sup>al-a</i>	794

English Meaning	Proto-Nostratic	Number
pulverized, anything	*t'ah-a	229
pungency	*k <sup>h</sup> ar-a	440
pungent	*ʒem-a	346
	*k <sup>h</sup> ar-a	440
pungent, anything that is	*ʒem-a	346
pungent smell	*dʷip <sup>h</sup> -a	266
punishment	*sady-a	328
puppy	*k <sup>h</sup> uwan-a or *k <sup>h</sup> un-a	466
pure	*hal-a	705
purify, to	*ʔal-	640
purity	*hal-a	705
pursue, to	*mar-	897
purulent, to be	*k'wiy-	563
pus	*k'wiy-a	563
push	*t <sup>h</sup> aly-a	200
	*ʒag-a	304
	*t <sup>h</sup> 'uk <sup>h</sup> -a	625
push, to	*t <sup>h</sup> ak'-	197
	*t <sup>h</sup> aly-	200
	*ʒag-	304
	*t <sup>h</sup> 'uk <sup>h</sup> -	625
push in, to	*t <sup>h</sup> ur-	226
	*k'wah-	547
pushed together	*k'wah-a	547
pustule	*bug-a	65
put (= placed; set; established)	*ʔasy-a	659
put, to	*dag-	156
	*daw-	167
	*day-	169
	*k <sup>h</sup> ay-	450
	*ʔasy-	659
put down, to	*lag-	963
put in order, to	*woy-V-k <sup>h</sup> -	856
put in place, to	*dag-	156
put in place, to be	*dag-	156
put into motion, to	*q <sup>h</sup> ad-	583
put out (fire), to	*k'was-	558
put (together), to	*rak <sup>h</sup> -	987
put together, to	*k'ač <sup>h</sup> -	469
	*gam-	571
	*har-	737
putting down, the act of	*lag-a	963
putting (together), the act of	*rak <sup>h</sup> -a	987



English Meaning	Proto-Nostratic	Number
putrid	* <i>q'ar<sup>v</sup>-a</i>	594
putrid, to be	* <i>k'wiy-</i>	563
putrid thing	* <i>q'ar<sup>v</sup>-a</i>	594
puzzled, to be	* <i>dig-</i>	174

## Q

quaking	* <i>rag-a</i>	985
quarrel	* <i>bur-a</i>	79
	* <i>gal-a</i>	570
	* <i>q<sup>h</sup>at<sup>h</sup>-a</i>	587
	* <i>mar-a</i>	894
quarrel, to	* <i>bur-</i>	79
	* <i>mar-</i>	894
quick	* <i>ʔor-a</i>	691
quiet	* <i>t'um-a</i>	256
	* <i>k'war-a</i>	554
	* <i>ʔan<sup>v</sup>-a</i>	646
	* <i>rom-a</i>	995
quiet, to	* <i>t'um-</i>	256
quiet, to be	* <i>ʔan<sup>v</sup>-</i>	646
quiet, to become	* <i>ham-</i>	730
quietness	* <i>t'um-a</i>	256
quietude	* <i>k'war-a</i>	554
	* <i>rom-a</i>	995
quiver, to	* <i>p<sup>h</sup>at<sup>h</sup>-</i>	120

## R

radiance	* <i>hal-a</i>	705
	* <i>wil<sup>v</sup>-a</i>	850
radiant	* <i>bah-a</i>	13
	* <i>hal-a</i>	705
radiate, to (= to shine; to glitter; to glisten)	* <i>ʔel-</i>	673
	* <i>hal-</i>	705
rag	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	444
rage	* <i>bur-a</i>	81
	* <i>ʔek<sup>h</sup>-a</i>	658
rage, to	* <i>bur-</i>	75
	* <i>ʔek<sup>h</sup>-</i>	671
raging, to be	* <i>ʔek<sup>h</sup>-</i>	671
rain	* <i>duw-a</i>	193
	* <i>ʒar-a</i> or * <i>žar-a</i>	308

English Meaning	Proto-Nostratic	Number
	* <i>k'warʷ-a</i>	557
	* <i>mat'-a</i>	906
	* <i>rek'-a</i>	993
rain, to	* <i>sig-</i>	339
	* <i>haw-</i>	746
raindrop	* <i>t'alʷ-a</i>	234
	* <i>ʒil-a</i> or * <i>ʒil-a</i>	310
raindrops	* <i>duw-a</i>	193
rain, heavy	* <i>nab-a</i>	937
rain, torrential	* <i>haw-a</i>	746
raining	* <i>sig-a</i>	339
rainy weather	* <i>k'ar-a</i>	492
raise, to	* <i>thul-</i>	223
	* <i>k'ul-</i>	510
	* <i>ʕam-</i>	766
	* <i>ʕam-V-d-</i>	766
	* <i>ʕar-V-g-</i>	772
	* <i>xaŋ-</i>	790
	* <i>war-</i>	833
	* <i>niʔh-</i>	951
raise one's hand, to	* <i>ʕer-</i>	579
raise up, to	* <i>sal-</i>	333
raised	* <i>did-a</i>	172
	* <i>dim-a</i>	176
	* <i>sal-a</i>	333
	* <i>kʰilʷ-a</i>	454
raised place	* <i>dim-a</i>	176
raising, the act of	* <i>niʔh-a</i>	951
raising one's hand, the act of	* <i>ʕer-a</i>	579
rake	* <i>thar-a</i>	207
	* <i>gar-a</i>	383
raking	* <i>thar-a</i>	207
ram (= male sheep)	* <i>daqʰ-a</i>	161
	* <i>dur-a</i>	192
	* <i>kʰab-a</i>	415
	* <i>ʔar-a</i>	657
rapid	* <i>ʔor-a</i>	691
rapid motion, any	* <i>pʰar-a</i>	111
	* <i>ʔor-a</i>	691
	* <i>raq'-a</i>	990
rapid movement	* <i>kʰhatʰ-a</i>	537
	* <i>ʔekʰ-a</i>	671
rasping sound, to make	* <i>qʰarʷ-</i>	586

English Meaning	Proto-Nostratic	Number
ravine	* <i>gal-a</i>	569
reach, to	* <i>dviʔ-</i>	265
	* <i>ʔ<sup>h</sup>ar-</i>	270
	* <i>sag-</i> or * <i>ʂag-</i>	329
	* <i>h̄in-V-k<sup>h</sup>-</i>	752
ready, to make	* <i>har-</i>	737
rear	* <i>ʕar-a</i>	771
reckon, to	* <i>man-</i>	885
reckoning	* <i>man-a</i>	885
recognition	* <i>k'an<sup>v</sup>-a</i>	487
	* <i>ʕey-a</i>	776
recognize, to	* <i>ʕey-</i>	776
recognized	* <i>ʕey-a</i>	776
recollection	* <i>gun-a</i>	406
recompense	* <i>k<sup>h</sup>ap'-a</i>	433
	* <i>mu<sup>v</sup>-a</i>	929
recount, to	* <i>t'il-</i>	249
	* <i>man-</i>	885
rectitude	* <i>woy-k<sup>h</sup>-a</i>	856
red-hot, to be	* <i>k'wam-</i>	550
reduce, to	* <i>t<sup>h</sup>ah-</i>	195
	* <i>k'al-</i>	475
	* <i>k<sup>wh</sup>ar-</i>	534
	* <i>ʔek'-</i>	672
reduced, to be or become	* <i>k'al-</i>	475
reduction	* <i>ʔek'-a</i>	672
reed	* <i>ʕ'am-a</i>	351
	* <i>k<sup>h</sup>al<sup>v</sup>-a</i>	423
refuse (= rubbish)	* <i>gud-a</i>	404
	* <i>q<sup>h</sup>o<sup>h</sup>-a</i>	588
regard, to	* <i>gal-</i>	372
regard attentively, to	* <i>rak'-</i>	989
related	* <i>ʔar-a</i>	656
relative (= kinsman)	* <i>ʔar-a</i>	656
relative (male or female), older	* <i>ʔat<sup>v</sup>a</i>	661
relative (male or female), younger	* <i>ʔina</i> or * <i>ʔiŋa</i>	685
relative, (elder) male	* <i>t'ay-a</i>	244
relative, female	* <i>ʔay(y)a</i>	667
	* <i>nat'-a</i>	945
relative, male	* <i>ʔay(y)a</i>	668
relative on the mother's side	* <i>haw-a</i>	745
relative pronoun stem	* <i>k<sup>wh</sup>i-</i> (~ * <i>k<sup>wh</sup>e-</i> )	541
	* <i>ʔay-</i> , * <i>ʔya-</i>	664

English Meaning	Proto-Nostratic	Number
	<i>*ma-</i> (~ <i>*mǝ-</i> )	909
relax, to	<i>*q'wad-</i>	600
	<i>*rom-</i>	995
relaxation	<i>*rom-a</i>	995
relaxed	<i>*rom-a</i>	995
release, to	<i>*čhal-</i>	347
released	<i>*čhal-a</i>	347
remain, to	<i>*k'war-</i>	554
	<i>*ham-</i>	730
	<i>*wan-</i>	824
	<i>*man-</i>	886
remembrance	<i>*gun-a</i>	406
remote	<i>*t'aw-a</i>	242
remoteness	<i>*t'aw-a</i>	242
removal	<i>*silyl-a</i>	296
	<i>*k'alɣ-a</i>	479
remove, to	<i>*tʰekʰ-</i>	213
	<i>*k'al-</i>	475
	<i>*k'alɣ-</i>	479
	<i>*qʰoçʰ-</i>	588
remove by peeling, to	<i>*qʰoçʰ-</i>	588
remove by pulling off, to	<i>*qʰoçʰ-</i>	588
remove by rubbing, to	<i>*qʰoçʰ-</i>	588
remove by sweeping, to	<i>*qʰoçʰ-</i>	588
remove by tearing off, to	<i>*qʰoçʰ-</i>	588
remove by wiping, to	<i>*qʰoçʰ-</i>	588
removed, that which has been	<i>*qʰoçʰ-a</i>	588
removing, the act of	<i>*tʰekʰ-a</i>	213
	<i>*qʰoçʰ-a</i>	588
rend, to	<i>*t'ar-</i>	240
	<i>*t'ar-V-ph-</i>	241
rending	<i>*t'ar-ph-a</i>	241
renown	<i>*kʰul-a</i>	460
repay in kind, to	<i>*kʰwey-</i>	539
repayment	<i>*kʰwey-a</i>	539
	<i>*muy-a</i>	929
report	<i>*war-a</i> and/or <i>*wir-a</i>	835
	<i>*wath-a</i>	840
repose (= rest; quietude; stillness)	<i>*k'war-a</i>	554
request	<i>*phir-a</i>	145
	<i>*t'el-a</i>	247
request, to	<i>*phir-</i>	145
	<i>*t'el-</i>	247

English Meaning	Proto-Nostratic	Number
requital	* <i>muy-a</i>	929
resemble, to	* <i>sam-</i>	334
reservoir	* <i>mor-a</i>	918
residence	* <i>buw-a</i>	88
resound, to	* <i>daw-</i>	166
respire, to	* <i>ʕan-</i>	768
rest (= relaxation)	* <i>saw-a</i>	358
	* <i>kʷar-a</i>	554
	* <i>ʔanʷ-a</i>	646
	* <i>rom-a</i>	995
rest, at	* <i>kʷar-a</i>	554
rest, to	* <i>saw-</i>	358
	* <i>kʷar-</i>	554
	* <i>qʷad-</i>	600
	* <i>ham-</i>	730
	* <i>rom-</i>	995
rest, to be at	* <i>ʔanʷ-</i>	646
restful	* <i>ʔanʷ-a</i>	646
resting place	* <i>kʰay-a</i>	450
	* <i>kʷar-a</i>	554
	* <i>ham-a</i>	730
restraint	* <i>kʰal-a</i>	421
return	* <i>muy-a</i>	929
return an equal measure, to	* <i>kʰhay-</i>	539
return, to	* <i>muy-</i>	929
returned, that which is	* <i>muy-a</i>	929
reveal, to	* <i>cʰar-</i> or * <i>čʰar-</i>	322
revolve, to	* <i>cʰur-</i>	326
	* <i>kʰhal-</i>	526
	* <i>walʷ-</i>	821
revolves, that which	* <i>kʰhal-a</i>	526
rid of, to get	* <i>čʰal-</i>	347
ridicule	* <i>zakʰ-a</i>	307
rift	* <i>ʷʰal-m-a</i>	269
right (= correct)	* <i>woy-kʰ-a</i>	856
rigid	* <i>tʰar-a</i>	281
rigid, that which is	* <i>tʰar-a</i>	281
rigid, to be	* <i>tʰar-</i>	281
rigid, to be or become	* <i>garʷ-</i>	386
rind	* <i>kʰar-a</i>	435
ring (= circle)	* <i>kʰar-a</i>	436
rinse, to	* <i>hal-</i>	725
rip	* <i>tʰar-a</i>	240

English Meaning	Proto-Nostratic	Number
	* <i>tʷar-a</i>	283
rip apart, to	* <i>ʂar-</i>	355
rip off, to	* <i>bir-</i>	55
ripe	* <i>pʰarʷ-a</i>	116
ripen, to	* <i>bul-V-γ-</i>	70
	* <i>pʰarʷ-</i>	116
ripeness	* <i>pʰarʷ-a</i>	116
ripening	* <i>bul-γ-a</i>	70
	* <i>dviʔ-a</i>	265
ripped	* <i>tʷar-a</i>	283
ripping off, the act of	* <i>bir-a</i>	55
rise, to	* <i>bir-</i>	53
	* <i>did-</i>	172
	* <i>kʰily-</i>	454
	* <i>kʷul-</i>	510
	* <i>ʰon-</i>	756
	* <i>ʕar-V-g-</i>	772
	* <i>xaŋ-</i>	790
	* <i>niŋh-</i>	951
rise (up), to	* <i>ʔorʷ-</i>	692
rise high, to	* <i>ʕal-</i>	763
rising motion	* <i>ʔorʷ-a</i>	692
rising movement	* <i>ʔorʷ-a</i>	692
river	* <i>kʷalbʷ-a</i>	549
	* <i>gal-a</i>	569
	* <i>haphʰ-a</i>	736
road	* <i>mar-a</i>	897
roaming	* <i>kʷhal-a</i>	525
roar	* <i>kʷar-a</i>	491
	* <i>kʷum-a</i>	512
	* <i>gar-a</i>	572
	* <i>gar-gar-a</i>	572
roar, to	* <i>gur-</i>	408
	* <i>gar-</i>	572
	* <i>gar-gar-</i>	572
roaring noise or sound	* <i>gur-a</i>	408
roast, to	* <i>gub-</i>	403
	* <i>kʷal-</i>	476
	* <i>tʰer-</i>	616
roasted	* <i>tʰer-a</i>	616
roasting	* <i>kʷal-a</i>	476
rob, to	* <i>kʰalbʷ-</i>	424
robbery	* <i>siʌʌ-a</i>	296

English Meaning	Proto-Nostratic	Number	
rock (= stone)	* <i>k'al-a</i>	474	
	* <i>k'war-a</i>	555	
rocking (= swaying; shaking)	* <i>rag-a</i>	985	
rod	* <i>gar<sup>y</sup>-a</i>	575	
roil (water), to (= to stir up; to agitate)	* <i>dal-</i>	159	
roll, to	* <i>g<sup>w</sup>ar-</i>	522	
	* <i>k<sup>w</sup>hal-</i>	526	
	* <i>G<sup>w</sup>al-</i>	598	
	* <i>wal<sup>y</sup>-</i>	821	
	* <i>mar-</i>	896	
	* <i>rat<sup>h</sup>-</i>	991	
	roll down, to	* <i>c'ar-</i>	321
	rolling	* <i>g<sup>w</sup>ar-a</i>	522
		* <i>rat<sup>h</sup>-a</i>	991
	rolling down, the act of	* <i>c'ar-a</i>	321
rolls, that which	* <i>k<sup>w</sup>hal-a</i>	526	
room (= space)	* <i>raw-h-a</i>	992	
rope	* <i>p<sup>h</sup>ir-a</i>	131	
	* <i>k'aŋ-a</i>	485	
	* <i>k<sup>w</sup>hir-a</i>	542	
	* <i>mar-a</i>	896	
	root (of tree or plant)	* <i>s<sup>y</sup>ir-a</i>	298
rot, to	* <i>k<sup>w</sup>ed-</i>	562	
	* <i>q'ar<sup>y</sup>-</i>	594	
	* <i>was<sup>y</sup>-</i>	835	
rot away, to			
rotate, to	* <i>k'aw-</i>	496	
rotation	* <i>wal<sup>y</sup>-a</i>	821	
rotten	* <i>q'ar<sup>y</sup>-a</i>	594	
rotten thing	* <i>q'ar<sup>y</sup>-a</i>	594	
rotten, that which is	* <i>t<sup>y</sup>am-a</i>	279	
	* <i>bar-a</i>	31	
	* <i>t<sup>y</sup>ar-a</i>	281	
	* <i>k<sup>h</sup>ar-a</i>	439	
	* <i>t<sup>y</sup>ar-a</i>	281	
rough, that which is	* <i>bar-</i>	29	
	* <i>t<sup>y</sup>ar-</i>	269	
roughness	* <i>bar-a</i>	31	
	* <i>k<sup>h</sup>ar-a</i>	439	
round	* <i>p<ul style="list-style-type: none">-a</ul></i>	150	
	* <i>k<sup>h</sup>ar-a</i>	436	
	* <i>k'aw-a</i>	496	
	* <i>g<sup>w</sup>ar-a</i>	522	
	* <i>t<sup>l</sup>'il-a</i>	623	

English Meaning	Proto-Nostratic	Number
	* <i>wal<sup>y</sup>-a</i>	821
round object	* <i>G<sup>w</sup>al-a</i>	598
round object, any	* <i>k'aw-a</i>	496
	* <i>G<sup>w</sup>ar-a</i>	522
round thing or object	* <i>t<sup>ʃ</sup>'il-a</i>	623
round, to be	* <i>G<sup>w</sup>al-</i>	598
	* <i>t<sup>ʃ</sup>'il-</i>	623
rounded protuberance	* <i>bun-a</i>	76
rounded prominence at the end of the bone forming a ball and a socket joint with the hollow of another bone	* <i>ʔom-a</i>	690
rouse, to	* <i>wak'-</i>	813
rub, to	* <i>t<sup>h</sup>ar-</i>	207
	* <i>wal-</i>	820
	* <i>mal-</i>	880
	* <i>mel-</i>	908
	* <i>mol-</i>	917
rub into, to	* <i>mel-</i>	908
	* <i>mol-</i>	917
rub smooth, to	* <i>mel-</i>	908
	* <i>mol-</i>	917
rub (with greast, oil, fat, ointment), to	* <i>mar-</i>	898
rubbed	* <i>t<sup>h</sup>ar-a</i>	207
rubbing, the act of	* <i>mal-a</i>	880
rubbish	* <i>gud-a</i>	404
	* <i>q<sup>h</sup>o<sup>h</sup>-a</i>	588
rude	* <i>nad<sup>y</sup>-a</i>	939
rude, to be	* <i>nad<sup>y</sup>-</i>	939
ruffle, to	* <i>dul-</i>	183
ruffled, to be	* <i>dul-</i>	183
ruin	* <i>bad-a</i>	9
	* <i>p<sup>h</sup>ul-a</i>	135
	* <i>k'<sup>w</sup>ed-a</i>	562
	* <i>hul-a</i>	757
	* <i>wed-a</i>	844
ruin, to	* <i>p<sup>h</sup>ul-</i>	135
	* <i>k'<sup>w</sup>ed-</i>	562
ruined	* <i>p<sup>h</sup>ul-a</i>	135
ruler	* <i>t<sup>ʃ</sup><sup>h</sup>ir-a</i>	619
	* <i>hak'-a</i>	723
rumble, loud	* <i>Gad-a</i>	567
	* <i>Gad-Gad-a</i>	567
rumble, to	* <i>gur-</i>	408



English Meaning	Proto-Nostratic	Number
	<i>*k'warʷ-</i>	557
rumbling noise or sound	<i>*gur-a</i>	408
rumination	<i>*k'ep'-a</i>	500
rump (= buttocks)	<i>*k'uŋ-a</i>	517
run, to	<i>*dun-</i>	189
	<i>*dʷaw-</i>	263
	<i>*tʷor-</i>	288
	<i>*girʷ-</i> or <i>*girʷ-</i>	400
	<i>*haph-</i>	736
	<i>*mar-</i>	897
	<i>*ratʰ-</i>	991
run after, to	<i>*mar-</i>	897
run away, to	<i>*her-</i> and/or <i>*hor-</i>	717
run out, to	<i>*zar-</i> or <i>*žar-</i>	308
running	<i>*pʰar-a</i>	111
	<i>*dʷaw-a</i>	263
	<i>*tʷor-a</i>	288
	<i>*ʔor-a</i>	691
	<i>*ratʰ-a</i>	991
running water	<i>*waʒ-a</i>	843
rupture	<i>*cʰag-a</i>	315
	<i>*mur-a</i>	924
ruptured	<i>*mur-a</i>	924
S		
sadness	<i>*hag-a</i>	719
safe	<i>*sʷol-a</i>	299
safe, to be	<i>*sʷol-</i>	299
safety	<i>*sʷol-a</i>	299
saliva	<i>*thupʰ-a</i>	225
same	<i>*sam-a</i>	334
satisfied, to be	<i>*pʰar-</i>	106
	<i>*thir-</i>	218
	<i>*thir-V-pʰ-</i>	219
savor, to	<i>*birʷ-</i>	57
saw (= cutting tool)	<i>*gad-a</i>	367
	<i>*tʰar-a</i>	613
	<i>*haʒ-a</i>	751
say, to	<i>*t'eʔ-</i>	246
	<i>*t'il-</i>	249
	<i>*kʰil-</i>	453
	<i>*q'watʰ-</i>	607

English Meaning	Proto-Nostratic	Number
	*yan-	804
	*war- and/or *wir-	835
	*wath-	840
	*man-	885
saying	*yan-a	804
scab	*p <sup>h</sup> ak <sup>h</sup> -a	93
	*gar-b-a	384
scanty	*k'al-a	475
scar	*gal-a	375
	*wah-a	812
	*wed-a	844
scarcity	*k'al-a	475
scatter, to	*p <sup>h</sup> ar-	108
	*duw-	193
	*t <sup>h</sup> ar-	205
	*sih-	340
scattered	*p <sup>h</sup> ar-a	108
	*duw-a	193
	*t <sup>h</sup> ar-a	205
scattered about	*sih-a	340
scattered about, anything	*duw-a	193
scattered about, to be	*duw-	193
scattering	*ban-a	25
scattering about, the act of	*sih-a	340
scoop out, to	*gal-	370
	*k <sup>h</sup> ay-	452
scooping out, the act of	*gal-a	370
scrape, to	*bar-	37
	*t <sup>h</sup> ar-	209
	*č'ir-	353
	*gar-	383
	*har-	740
	*hok'-	755
	*x <sup>w</sup> at'-	795
scrapes, that which	*gar-a	383
scraping	*t <sup>h</sup> ar-a	209
	*har-a	740
	*hok'-a	755
scraping, the act of	*x <sup>w</sup> at'-a	795
scratch	*č'ir-a	353
	*t <sup>h</sup> ar-t'-a	614
scratch, to	*t <sup>h</sup> ar-	209
	*č'ir-	353

English Meaning	Proto-Nostratic	Number
	* <i>gar-</i>	383
	* <i>har-</i>	740
	* <i>hok'-</i>	755
	* <i>x<sup>w</sup>at'-</i>	795
	* <i>wur<sup>y</sup>-</i>	859
scratches, that which scratching	* <i>gar-a</i>	383
	* <i>t<sup>h</sup>ar-a</i>	209
	* <i>har-a</i>	740
	* <i>hok'-a</i>	739
scratching, the act of screech, to	* <i>x<sup>w</sup>at'-a</i>	795
	* <i>k<sup>h</sup>at<sup>h</sup>-</i>	447
	* <i>k'ar-</i>	491
screeching	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	447
sea	* <i>yam-a</i>	803
	* <i>mor-a</i>	918
seat	* <i>ɽas<sup>y</sup>-a</i>	659
seated	* <i>ham-a</i>	730
seated, to be	* <i>ɽas<sup>y</sup>-</i>	659
seclusion	* <i>xol-a</i>	793
second	* <i>mal-a</i>	881
section	* <i>sih-a</i>	359
see, to	* <i>t<sup>h</sup>il-</i> or (?) * <i>t<sup>h</sup>id<sup>h</sup>-</i>	618
	* <i>ɽil-</i>	683
	* <i>ɕen-</i>	774
	* <i>ɕuk<sup>wh</sup>-</i>	781
	* <i>raɽ-</i>	984
	* <i>raɽ-V-y-</i>	984
seed	* <i>bar-a</i>	34
seedling	* <i>n<sup>y</sup>aɕ-r-a</i>	956
seeing	* <i>ɕuk<sup>wh</sup>-a</i>	781
	* <i>raɽ-a</i>	984
	* <i>raɽ-y-a</i>	984
seek, to	* <i>mar-</i>	897
seen	* <i>ɕey-a</i>	776
seize, to	* <i>p<sup>h</sup>id-</i>	126
	* <i>t<sup>h</sup>ek<sup>h</sup>-</i>	213
	* <i>s<sup>y</sup>il<sup>y</sup>-</i>	296
	* <i>zum-</i> or * <i>žum-</i>	313
	* <i>gab-</i>	365
	* <i>gar-</i>	381
	* <i>k<sup>h</sup>am-</i> or * <i>q<sup>h</sup>am-</i>	425
	* <i>k'ab-</i>	467
	* <i>k'aw-</i>	497

English Meaning	Proto-Nostratic	Number
	* <i>k'um-</i>	513
	* <i>ʔam-</i>	642
	* <i>ʕap'-</i>	770
	* <i>wot<sup>h</sup>-</i>	854
seize hold of, to	* <i>bar-</i>	33
seize with the hand, to	* <i>k<sup>h</sup>ap<sup>h</sup>-</i>	431
seize with the teeth, to	* <i>k'ab-</i>	467
seized	* <i>ʔam-a</i>	642
seizing	* <i>zum-a</i> or * <i>žum-a</i>	313
seizing, the act of	* <i>t<sup>h</sup>ek<sup>h</sup>-a</i>	213
	* <i>zum-a</i> or * <i>žum-a</i>	313
	* <i>wot<sup>h</sup>-a</i>	854
seizure	* <i>bar-a</i>	33
	* <i>k'ab-a</i>	467
	* <i>ʕap'-a</i>	770
self	* <i>bey-a</i>	49
semen	* <i>p<sup>h</sup>as<sup>v</sup>-a</i>	119
send off, to	* <i>ʔan-</i>	645
sensation, burning	* <i>p<sup>h</sup>al<sup>v</sup>-a</i>	103
sense	* <i>san-a</i> or * <i>šan-a</i> , * <i>sin-a</i> or * <i>šin-a</i> , * <i>sun-a</i> or * <i>šun-a</i>	335
sense, to	* <i>san-</i> or * <i>šan-</i> , * <i>sin-</i> or * <i>šin-</i> , * <i>sun-</i> or * <i>šun-</i>	335
sensed, that which is	* <i>san-a</i> or * <i>šan-a</i> , * <i>sin-a</i> or * <i>šin-a</i> , * <i>sun-a</i> or * <i>šun-a</i>	335
senses, that which	* <i>san-a</i> or * <i>šan-a</i> , * <i>sin-a</i> or * <i>šin-a</i> , * <i>sun-a</i> or * <i>šun-a</i>	335
separate (= different)	* <i>ʔaŋ-a</i>	650
separate, to	* <i>bad-</i>	5
	* <i>ban-</i>	25
	* <i>p<sup>h</sup>ar-</i>	107
	* <i>gal-</i>	369
	* <i>k<sup>h</sup>as-</i>	443
	* <i>k'al<sup>v</sup>-</i>	479
	* <i>ʔaŋ-</i>	650
	* <i>ʔar-</i>	654
	* <i>ʔor-</i>	801
	* <i>ʔor-V-b-</i>	801
	* <i>law-</i>	978

English Meaning	Proto-Nostratic	Number	
separate into (equal) parts, to separate into two parts, to separated	* <i>sih-</i>	359	
	* <i>t'uɔw-</i>	253	
	* <i>gar-a</i>	382	
	* <i>ɔar-a</i>	654	
separated from, to be separation	* <i>xol-</i>	793	
	* <i>ban-a</i>	25	
	* <i>sih-a</i>	359	
	* <i>gal-a</i>	369	
	* <i>k<sup>h</sup>as-a</i>	443	
	* <i>k'al<sup>y</sup>-a</i>	479	
	* <i>ɔaŋ-a</i>	650	
	* <i>ɣor-a</i>	801	
	* <i>ɣor-b-a</i>	801	
	* <i>law-a</i>	978	
	separation into two separatness	* <i>t'uɔw<sup>w</sup>-a</i>	253
		* <i>k<sup>h</sup>ay-a</i>	449
* <i>k<sup>h</sup>ay-w-a</i>		449	
set (= put; placed) set, to	* <i>ɔas<sup>y</sup>-a</i>	659	
	* <i>daw-</i>	167	
	* <i>k<sup>h</sup>ay-</i>	450	
	* <i>ɔas<sup>y</sup>-</i>	659	
set apart, to be set down, to	* <i>xol-</i>	793	
	* <i>k<sup>h</sup>at<sup>h</sup>-</i>	446	
	* <i>lag-</i>	963	
set fire to, to set fire to something, to set free, to set in motion, to set of two set up, to setting down, the act of settle down, to settled settled place settlement sever, to	* <i>wal-</i>	819	
	* <i>bud-</i>	62	
	* <i>ɕ<sup>h</sup>al-</i>	347	
	* <i>ɔor-</i>	691	
	* <i>ɣor-a</i>	807	
	* <i>daw-</i>	167	
	* <i>lag-a</i>	963	
	* <i>ham-</i>	730	
	* <i>ham-a</i>	730	
	* <i>p<sup>h</sup>al-a</i>	100	
* <i>p<sup>h</sup>al-a</i>	100		
severance severed sewing	* <i>dum-</i>	185	
	* <i>t'ar-</i>	240	
	* <i>k'ir-</i> or * <i>k'ur-</i>	503	
	* <i>ɔar-</i>	654	
	* <i>law-</i>	978	
	* <i>dum-a</i>	185	
	* <i>ɔar-a</i>	654	
	* <i>ɕor<sup>y</sup>-a</i>	779	

English Meaning	Proto-Nostratic	Number
sexual intercourse, to have	* <i>man<sup>v</sup>-</i>	890
sexual organs (male or female)	* <i>q'al<sup>v</sup>-a</i>	591
shade	* <i>t'yal-a</i> and/or * <i>t'yil-a</i>	278
shadow	* <i>t'yal-a</i> and/or * <i>t'yil-a</i>	278
shaggy	* <i>bar-a</i>	31
shaggy, to be	* <i>bar-</i>	31
shagginess	* <i>bar-a</i>	31
shake, to	* <i>p<sup>h</sup>el-</i>	125
	* <i>p<sup>h</sup>ir-</i>	132
	* <i>t<sup>h</sup>ar-</i>	211
	* <i>gud-</i>	404
	* <i>k'al-</i>	477
	* <i>k<sup>w</sup>hat<sup>h</sup>-</i>	537
	* <i>hat'-</i>	744
	* <i>hut'-</i>	760
	* <i>naḥ-</i>	941
	* <i>n<sup>v</sup>uk<sup>h</sup>-</i>	960
	* <i>rag-</i>	985
shaken, to be	* <i>hat'-</i>	744
shaking	* <i>dul<sup>v</sup>-a</i>	184
	* <i>k<sup>w</sup>hat<sup>h</sup>-a</i>	537
	* <i>hat'-a</i>	744
	* <i>hut'-a</i>	760
	* <i>n<sup>v</sup>uk<sup>h</sup>-a</i>	960
	* <i>rag-a</i>	985
	* <i>raq'-a</i>	990
shaking (from fear, fright)	* <i>t<sup>h</sup>ar-a</i>	211
shape	* <i>sam-a</i>	334
share (= portion)	* <i>bay-a</i>	44
	* <i>p<sup>h</sup>ar-a</i>	107
	* <i>p<sup>h</sup>as<sup>v</sup>-a</i>	118
	* <i>dun<sup>v</sup>-a</i>	190
	* <i>xal-a</i>	787
	* <i>wan-a</i>	825
share, to	* <i>bay-</i>	44
sharp (= pointed; cutting)	* <i>k<sup>w</sup>at'-a</i>	561
	* <i>ʔad<sup>v</sup>-a</i>	631
sharp (= pungent)	* <i>ʒem-a</i>	346
	* <i>k<sup>h</sup>ar-a</i>	440
	* <i>gat<sup>v</sup>-a</i>	577
	* <i>ham-a</i>	729
sharp (= pungent), anything that is	* <i>ʒem-a</i>	346
sharp, to be (= to be pungent)	* <i>ham-</i>	729

English Meaning	Proto-Nostratic	Number
sharp (of sounds)	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	447
sharp instrument	* <i>v<sup>h</sup>al-a</i>	268
sharp instrument used for cutting, any	* <i>sak<sup>h</sup>-a</i>	331
sharp point	* <i>hok<sup>h</sup>-a</i>	754
sharp-tasting foodstuff, any	* <i>ham-a</i>	729
sharpen, to	* <i>ʒag-</i>	306
shatter, to	* <i>p<sup>h</sup>as<sup>v</sup>-</i>	118
she	* <i>si-</i> (~ * <i>se-</i> )	338
sheep	* <i>bag-a</i>	11
	* <i>dur-a</i>	192
sheep, (young)	* <i>t<sup>h</sup>ah<sup>h</sup>-a</i>	609
sheep and goats	* <i>ʒuw-a</i> (~ * <i>ʒow-a</i> )	785
shell	* <i>k<sup>w</sup>oy-a</i>	565
shield	* <i>k<sup>h</sup>ad-a</i>	417
shine (= luster; sparkle; brilliance)	* <i>gil-a</i>	580
shine, to	* <i>bah-</i>	13
	* <i>bal-</i>	23
	* <i>bar-</i>	35
	* <i>dag-</i>	157
	* <i>dil<sup>v</sup>-</i>	175
	* <i>t<sup>ʼ</sup>ay-</i> or * <i>t<sup>ʼ</sup>iy-</i>	245
	* <i>gil-</i>	580
	* <i>q<sup>ʼ</sup>al-</i> or * <i>q<sup>ʼ</sup>el-</i>	590
	* <i>ʔel-</i>	673
	* <i>hal-</i>	702
	* <i>wal<sup>v</sup>-</i>	822
	* <i>lah-</i>	964
	* <i>law-</i>	977
shine brightly, to	* <i>hag-</i>	702
shining	* <i>bah-a</i>	13
	* <i>gil-a</i>	580
	* <i>hal-a</i>	702
	* <i>wal<sup>v</sup>-a</i>	822
	* <i>lah-a</i>	964
	* <i>law-a</i>	977
shiver, to	* <i>hut<sup>ʼ</sup>-</i>	760
shivering	* <i>hut<sup>ʼ</sup>-a</i>	760
shoot (= sprout)	* <i>n<sup>v</sup>aʃ-r-a</i>	956
shoot, to	* <i>ʃam-</i>	767
short	* <i>k<sup>ʼ</sup>ut<sup>ʼ</sup>-a</i>	518
	* <i>k<sup>w</sup>har-a</i>	534
short of (= wanting; needy; lacking)	* <i>k<sup>ʼ</sup>al-a</i>	475
shortened	* <i>gar-a</i>	382

English Meaning	Proto-Nostratic	Number
shortness	* <i>k'ut'-a</i>	518
	* <i>k<sup>wh</sup>ar-a</i>	534
shout	* <i>q'war-a</i> or * <i>q'wur-a</i>	605
	* <i>waf-a</i>	810
shout, to	* <i>gal-</i>	373
	* <i>k<sup>h</sup>al-</i>	420
	* <i>k'ar-</i>	491
	* <i>q'wal-</i>	601
	* <i>waf-</i>	810
	* <i>wal-</i>	816
	* <i>zag-a</i>	304
shove	* <i>t<sup>l</sup>'uk<sup>h</sup>-a</i>	625
	* <i>zag-</i>	304
shove, to	* <i>t<sup>l</sup>'uk<sup>h</sup>-</i>	625
	* <i>zer-</i> or * <i>žer-</i>	309
shove into, to	* <i>duw-a</i>	193
shower	* <i>k<sup>h</sup>at<sup>h</sup>-a</i>	447
shrill (of sounds)	* <i>k<sup>h</sup>at<sup>h</sup>-</i>	447
shrill screech, to make a	* <i>k<sup>h</sup>at<sup>h</sup>-</i>	447
shrill sound, to make a	* <i>x<sup>w</sup>ir-</i>	798
shrub	* <i>zag<sup>w</sup>-a</i>	342
shut, to	* <i>c<sup>h</sup>uk<sup>h</sup>-</i>	319
	* <i>k'ap<sup>h</sup>-</i>	490
	* <i>nus<sup>y</sup>-</i>	954
sick, to be	* <i>mar<sup>y</sup>-</i>	902
sick, to be or become	* <i>daw-</i>	168
sick, to become deathly	* <i>daw-a</i>	168
sickness	* <i>mar<sup>y</sup>-a</i>	902
	* <i>nus<sup>y</sup>-a</i>	954
	* <i>zag-a</i>	306
side	* <i>gaŋ-a</i>	380
	* <i>k<sup>h</sup>ar-a</i>	437
	* <i>ʔar-a</i>	654
	* <i>saʔ-y-a</i>	327
sieve	* <i>saʔ-V-y-</i>	327
sift, to	* <i>šaw-a</i>	357
sigh	* <i>k'um-a</i>	512
	* <i>k'was-a</i>	559
	* <i>p<sup>h</sup>uš-</i>	139
sigh, to	* <i>šaw-</i>	357
	* <i>k'um-</i>	512
	* <i>k'was-</i>	559
sight	* <i>ʕen-a</i>	774



English Meaning	Proto-Nostratic	Number
	* <i>ʕey-a</i>	776
	* <i>ʕuk<sup>wh</sup>-a</i>	781
	* <i>raʔ-a</i>	984
	* <i>raʔ-y-a</i>	984
silence	* <i>dum-a</i>	186
silent	* <i>rom-a</i>	995
silent, to be	* <i>dum-</i>	186
silliness	* <i>ʔeb-a</i>	670
silly	* <i>ʔeb-a</i>	670
similar	* <i>sam-a</i>	334
simple, to be	* <i>ʔek'-</i>	672
sinew	* <i>s<sup>y</sup>ir-a</i>	297
	* <i>s[e]n-a</i> or * <i>ʂ[e]n-a</i>	336
sing, to	* <i>bir-</i>	54
singing	* <i>bir-a</i>	54
single	* <i>ʔoy-a</i>	696
sink, to	* <i>ʕam-</i>	765
sink down, to	* <i>lam-</i>	971
	* <i>lam-V-d-</i>	971
sink into, to	* <i>t'al-</i>	232
sister	* <i>da</i>	154
	* <i>da-da-</i>	154
sister, elder	* <i>ʔen<sup>y</sup>a</i>	675
sister-in-law	* <i>k'el-a</i>	498
	* <i>nus<sup>y</sup>-a</i>	953
sit, to	* <i>ʔas<sup>y</sup>-</i>	659
skill	* <i>t'am-a</i>	235
skin	* <i>p<sup>h</sup>ač'-a</i>	91
	* <i>p<sup>h</sup>al-a</i>	141
	* <i>k<sup>h</sup>ar-a</i>	435
	* <i>k<sup>w</sup>oy-a</i>	565
	* <i>lat<sup>h</sup>-a</i>	975
skin, (animal)	* <i>nak<sup>h</sup>-a</i>	942
skull	* <i>k<sup>h</sup>aph<sup>h</sup>-a</i>	432
	* <i>k<sup>h</sup>ir-a</i>	455
	* <i>G<sup>w</sup>al-a</i>	599
slack	* <i>dow-a</i> , * <i>doy-a</i>	179
slacken, to	* <i>dow-</i> , * <i>doy-</i>	179
slackness	* <i>dow-a</i> , * <i>doy-a</i>	179
slap	* <i>t<sup>h</sup>ap<sup>h</sup>-a</i>	203
slash	* <i>q<sup>h</sup>al-a</i>	584
	* <i>t<sup>h</sup>ar-a</i>	613
	* <i>wan<sup>h</sup>-a</i>	828

English Meaning	Proto-Nostratic	Number
slaughter	* <i>dʷab-a</i>	258
	* <i>qʰatʰ-a</i>	587
	* <i>ħal-a</i>	724
	* <i>wel-a</i>	845
	* <i>laħ-a</i>	966
slaughter, to slay, to	* <i>ħal-</i>	724
	* <i>gʷan-</i>	520
	* <i>qʷal-</i>	602
sleep	* <i>wel-</i>	845
	* <i>bad-a</i>	9
sleep, to	* <i>saw-a</i>	358
	* <i>saw-</i>	358
sleep, to go to	* <i>nakʷh-</i>	943
	* <i>tʰar-a</i>	240
slice	* <i>ĉʰir-a</i>	353
	* <i>tʰar-a</i>	613
	* <i>xatʰ-a</i>	792
	* <i>zil-</i> or * <i>žil-</i>	311
	* <i>gil-</i>	394
slide down, to	* <i>cʰar-</i>	321
	* <i>gil-a</i>	394
sliding	* <i>zil-a</i> or * <i>žil-a</i>	311
sliding, the act of	* <i>cʰar-a</i>	321
sliding down, the act of	* <i>cʰar-a</i>	321
sling	* <i>qʷal-a</i>	603
slip, to	* <i>gil-</i>	394
slip down, to	* <i>cʰar-</i>	321
slippery	* <i>zil-a</i> or * <i>žil-a</i>	311
	* <i>gil-a</i>	394
slipping, the act of	* <i>zil-a</i> or * <i>žil-a</i>	311
slipping down, the act of	* <i>cʰar-a</i>	321
slit	* <i>bitʰ-a</i>	60
	* <i>kʰir-a</i> or * <i>kʰur-a</i>	503
	* <i>tʰal-a</i>	611
	* <i>tʰar-a</i>	613
	* <i>dow-a</i> , * <i>doy-a</i>	179
slow	* <i>hakʰ-</i>	703
slow, to be	* <i>dow-</i> , * <i>doy-</i>	179
slow down, to	* <i>hakʰ-</i>	703
slowly	* <i>hakʰ-</i>	703
slowly, to do or approach something	* <i>hakʰ-</i>	703
slowness	* <i>dow-a</i> , * <i>doy-a</i>	179
	* <i>hakʰ-a</i>	703
sluggish, to be	* <i>hakʰ-</i>	703
sluggishness	* <i>hakʰ-a</i>	703

English Meaning	Proto-Nostratic	Number
slumber	*šaw-a	358
small	*č'ik'-a	352
	*gin-a or *gin-a	396
	*k'ut'-a	518
	*nus <sup>y</sup> -a	952
small, to be	*č'ik'-	352
	*gin- or *gin-	396
	*ʔek'-	672
	*nus <sup>y</sup> -	952
small piece	*t'yakh-a	277
small pieces, to cut into	*t'yakh-	277
small quantity	*k'al-a	475
small things	*č'ik'-a	352
smallness	*k'ut'-a	518
	*nus <sup>y</sup> -a	952
smart, to (= to be painful)	*p <sup>h</sup> al <sup>y</sup> -	103
smash, to	*k'wad-	545
smear (with greast, oil, fat, ointment), to	*mar-	898
smell	*ʕut'-a	784
smell, pungent	*d <sup>h</sup> ip <sup>h</sup> -a	266
smell, to	*ʕut'-	784
smoke	*p'ul <sup>y</sup> -a	151
	*duw-a	193
	*t'uq' <sup>w</sup> -a	257
	*k' <sup>w</sup> am-a	550
	*k' <sup>w</sup> at'-a	560
smoke, to	*k' <sup>w</sup> am-	550
	*k' <sup>w</sup> at'-	560
smoke, to give off	*p'ul <sup>y</sup> -	151
smoky, to be	*t'uq' <sup>w</sup> -	257
smolder, to	*k <sup>h</sup> um-	464
	*k' <sup>w</sup> am-	550
	*k' <sup>w</sup> at'-	560
smoldering	*k <sup>h</sup> um-a	464
smooth	*zil-a or *žil-a	311
	*gil-a	394
	*mel-a	908
smoothness	*mel-a	908
snake	*g <sup>w</sup> al-a	519
snatch, to	*s <sup>y</sup> il <sup>y</sup> -	296
snort	*p <sup>h</sup> uš-a	139
snow	*t <sup>h</sup> ow-a	221
snow, to	*t <sup>h</sup> ow-	221

English Meaning	Proto-Nostratic	Number
snow-storm	* <i>t<sup>h</sup>ow-a</i>	221
so-and-so, to be not	* <i>ʔal-</i> (perhaps also * <i>ʔel-</i> , * <i>ʔul-</i> )	641
soak, to	* <i>ʂuw-</i>	361
	* <i>ʂuw-V-l-</i>	361
soaked	* <i>ʂuw-a</i>	361
	* <i>ʂuw-l-a</i>	361
soft	* <i>mel-a</i>	908
	* <i>nus<sup>y</sup>-a</i>	952
	* <i>lam-a</i> ~ (?) * <i>l<sup>v</sup>am-a</i>	972
soft, to be	* <i>nus<sup>y</sup>-</i>	952
soft, to be or become	* <i>lam-</i> ~ (?) * <i>l<sup>v</sup>am-</i>	972
soften, to	* <i>mel-</i>	908
	* <i>mol-</i>	917
	* <i>lam-</i> ~ (?) * <i>l<sup>v</sup>am-</i>	972
softened	* <i>gar-a</i>	573
softness	* <i>mel-a</i>	908
	* <i>lam-a</i> ~ (?) * <i>l<sup>v</sup>am-a</i>	972
soil (= earth; ground; land)	* <i>t<sup>h</sup>or<sup>y</sup>-a</i>	220
	* <i>ʔul-a</i>	697
soil, to	* <i>mar-</i>	899
soiled (= dirty)	* <i>k<sup>ʾ</sup>ar-a</i>	492
	* <i>mar-a</i>	899
sole of the foot	* <i>ʔul-a</i>	697
solid	* <i>t<sup>h</sup>ik<sup>ʾ</sup>-a</i>	217
	* <i>t<sup>y</sup>ar-a</i>	282
	* <i>k<sup>w</sup>ur<sup>y</sup>-a</i>	566
solid, to be	* <i>k<sup>w</sup>ur<sup>y</sup>-</i>	566
solidity	* <i>t<sup>h</sup>ik<sup>ʾ</sup>-a</i>	217
	* <i>t<sup>y</sup>ar-a</i>	282
	* <i>k<sup>w</sup>ur<sup>y</sup>-a</i>	566
solitude	* <i>k<sup>h</sup>ay-a</i>	449
	* <i>k<sup>h</sup>ay-w-a</i>	449
	* <i>ʔoy-a</i>	696
	* <i>xol-a</i>	793
somebody [indefinite pronoun stem]	* <i>ma-</i> (~ * <i>mə-</i> ), * <i>mi-</i> (~ * <i>me-</i> ), * <i>mu-</i> (~ * <i>mo-</i> )	861
someone [indefinite pronoun stem]	* <i>ma-</i> (~ * <i>mə-</i> ), * <i>mi-</i> (~ * <i>me-</i> ), * <i>mu-</i> (~ * <i>mo-</i> )	861
son	* <i>s<sup>y</sup>aw-a</i> or * <i>s<sup>y</sup>ew-a</i>	291
soot	* <i>t<sup>h</sup>uk<sup>h</sup>-a</i>	222

English Meaning	Proto-Nostratic	Number
	<i>*t'uq'w-a</i>	257
sooty, to be	<i>*t'uq'w-</i>	257
sore	<i>*gar-b-a</i>	384
sore on the skin	<i>*gal-a</i>	375
soul	<i>*bey-a</i>	49
sound (= noise)	<i>*baḥ-a</i>	14
	<i>*bar-a</i>	38
	<i>*bug-r-a</i>	66
	<i>*daw-a</i>	166
	<i>*t'eʔ-a</i>	246
	<i>*dʷan-a</i>	260
	<i>*k<sup>h</sup>al-a</i>	420
	<i>*k<sup>h</sup>il-a</i>	453
	<i>*q'wal-a</i>	601
	<i>*wal-a</i>	816
	<i>*wat<sup>h</sup>-a</i>	840
	<i>*mur-a</i>	927
	<i>*mur-mur-a</i>	927
sound, (crackling)	<i>*k'ak'-</i>	471
sound, (ringing or tinkling)	<i>*k<sup>h</sup>aŋ-a</i>	430
sound (= healthy)	<i>*sʷol-a</i>	299
sound, to be (= to be healthy)	<i>*sʷol-</i>	299
sound, to	<i>*daw-</i>	166
	<i>*k<sup>h</sup>al-</i>	420
	<i>*k<sup>h</sup>aŋ-</i>	430
sound, to make a	<i>*bar-</i>	38
	<i>*bug-V-r-</i>	66
	<i>*k<sup>h</sup>il-</i>	453
	<i>*mur-</i>	927
	<i>*mur-mur-</i>	927
sound, to make a loud	<i>*gad-</i>	567
	<i>*gad-gad-</i>	567
sound judgment (= wisdom; judgment)	<i>*ḥak<sup>h</sup>-a</i>	721
sour	<i>*ʒem-a</i>	346
	<i>*ḥam-a</i>	729
sour, anything that is	<i>*ʒem-a</i>	346
sour, that which is	<i>*t'ʷam-a</i>	279
sour, to be	<i>*ḥam-</i>	729
sour, to turn	<i>*t'ʷam-</i>	279
sour foodstuff, any	<i>*ḥam-a</i>	729
space	<i>*p<sup>h</sup>ar-a</i>	108
	<i>*raw-ḥ-a</i>	992
spacious	<i>*p<sup>h</sup>at<sup>h</sup>-a</i>	121

English Meaning	Proto-Nostratic	Number
	* <i>raw-ḥ-a</i>	992
spacious, to be	* <i>p<sup>h</sup>at<sup>h</sup>-</i>	121
	* <i>raw-V-ḥ-</i>	992
spade	* <i>gar-a</i>	383
	* <i>Gar-a</i>	574
sparse	* <i>k'al-a</i>	475
spark	* <i>p<sup>h</sup>aḥ-a</i>	140
	* <i>p<sup>h</sup>aḥ-w-a</i>	140
	* <i>k'was-a</i>	558
sparkle, to	* <i>bar-</i>	35
	* <i>q'al-</i> or * <i>q'el-</i>	590
speak, to	* <i>t'eʔ-</i>	246
	* <i>k<sup>h</sup>il-</i>	453
	* <i>q'wat<sup>h</sup>-</i>	607
	* <i>x<sup>w</sup>at'-</i>	796
	* <i>yan-</i>	804
	* <i>war-</i> and/or * <i>wir-</i>	835
	* <i>wat<sup>h</sup>-</i>	840
	* <i>man-</i>	885
spear	* <i>t<sup>h</sup>ar-a</i>	206
	* <i>zer-a</i> or * <i>žer-a</i>	309
spear(head)	* <i>wah-a</i>	812
speech	* <i>t'eʔ-a</i>	246
	* <i>t'il-a</i>	249
	* <i>k<sup>h</sup>il-a</i>	453
	* <i>war-a</i> and/or * <i>wir-a</i>	835
speed	* <i>p<sup>h</sup>ar-a</i>	111
speedy	* <i>t'y<sup>o</sup>r-a</i>	288
spend time, to	* <i>buw-</i>	88
sperm	* <i>p<sup>h</sup>as<sup>v</sup>-a</i>	119
sphere	* <i>G<sup>w</sup>al-a</i>	598
spike (= barb)	* <i>bar-a</i>	29
	* <i>t<sup>h</sup>ak<sup>w</sup>h-a</i>	610
spill	* <i>dun-a</i>	189
	* <i>ʔib-a</i>	680
spill out, to	* <i>zar-</i> or * <i>žar-</i>	308
spill over, to	* <i>ʔib-</i>	680
spin around, to	* <i>k<sup>h</sup>ar-</i>	436
spirit	* <i>bey-a</i>	49
spirited, to be	* <i>ʔek<sup>h</sup>-</i>	671
spit, to	* <i>t<sup>h</sup>up<sup>h</sup>-</i>	225
spit out, to	* <i>wam-</i>	823
spit up, to	* <i>wam-</i>	823

English Meaning	Proto-Nostratic	Number
spite	*q <sup>h</sup> at <sup>h</sup> -a	587
spittle	*t <sup>h</sup> up <sup>h</sup> -a	225
	*wam-a	823
spleen	*p <sup>h</sup> al-a	94
splendor	*bah-a	13
	*ʔel-a	673
	*wil <sup>y</sup> -a	850
	*mag-a	867
split	*bad-a	5
	*bak'-a	17
	*p <sup>h</sup> ač <sup>h</sup> -a	90
	*p <sup>h</sup> al-a	95
	*p <sup>h</sup> as <sup>y</sup> -a	118
	*p <sup>h</sup> il <sup>y</sup> -a	143
	*dal-a	158
	*t <sup>h</sup> ar-a	206
	*t' <sup>h</sup> ar-a	229
	*t' <sup>y</sup> ar-a	283
	*c <sup>h</sup> al-a	317
	*gad-a	367
	*t <sup>h</sup> ut'-a	621
split, that which is	*gad-a	367
split, to	*bad-	5
	*bak'-	17
	*bit <sup>h</sup> -	60
	*p <sup>h</sup> al-	95
	*p <sup>h</sup> as <sup>y</sup> -	118
	*p <sup>h</sup> il <sup>y</sup> -	143
	*dun <sup>y</sup> -	190
	*t <sup>h</sup> ar-	206
	*t' <sup>h</sup> ar-	229
	*t' <sup>y</sup> ar-	283
	*c <sup>h</sup> al-	317
	*sak <sup>h</sup> -	331
	*sar-	355
	*gad-	367
	*gar-	382
	*k'ir- or *k'ur-	503
	*q <sup>h</sup> al-	584
	*t <sup>h</sup> ut'-	621
	*nag-	940
split (with a tool or weapon), to	*bar-	37
split apart, to	*bit <sup>h</sup> -	60

English Meaning	Proto-Nostratic	Number
	* <i>p<sup>h</sup>ač<sup>h</sup>-</i>	90
	* <i>haŋ-</i>	711
split into small pieces, to	* <i>k'ep'-</i>	500
split into two parts, to	* <i>t'uɔw-</i>	253
split open, to	* <i>p<sup>h</sup>ač<sup>h</sup>-</i>	90
	* <i>t<sup>h</sup>al-</i>	611
splits, that which	* <i>sar-a</i>	355
splitting into small pieces, the act of	* <i>k'ep'-a</i>	500
spoil, to	* <i>k'wed-</i>	562
spoiled, that which is	* <i>t'yam-a</i>	279
spoon	* <i>k<sup>h</sup>ay-a</i>	452
sport	* <i>zak'-a</i>	307
sport, to make	* <i>zak'-</i>	307
spot	* <i>mar-a</i>	899
spotted, that which is	* <i>bul-a</i>	73
spray	* <i>rek'-a</i>	993
spray, to	* <i>rek'-</i>	993
spread	* <i>ban-a</i>	25
	* <i>bul-a</i>	68
	* <i>t<sup>h</sup>aly-a</i>	199
	* <i>t<sup>h</sup>ar-a</i>	205
spread, to	* <i>ban-</i>	25
	* <i>p<sup>h</sup>al-</i>	97
	* <i>p<sup>h</sup>ar-</i>	108
	* <i>t<sup>h</sup>aly-</i>	199
	* <i>t<sup>h</sup>an<sup>y</sup>-</i>	201
	* <i>t<sup>h</sup>ar-</i>	205
	* <i>hak'-</i>	722
spread about, to	* <i>t<sup>h</sup>ar-</i>	205
spread forth, to	* <i>s<sup>y</sup>or-</i>	300
spread out	* <i>p<sup>h</sup>ar-a</i>	108
	* <i>t<sup>h</sup>aly-a</i>	199
spread out, to	* <i>bul-</i>	68
	* <i>p<sup>h</sup>ath-</i>	121
	* <i>t<sup>h</sup>ar-</i>	205
spread out, to be	* <i>p<sup>h</sup>ath-</i>	121
spring (= stream)	* <i>k'waly-a</i>	549
spring forth, to	* <i>s<sup>y</sup>or-</i>	300
	* <i>zar-</i> or * <i>žar-</i>	308
sprinkle, to	* <i>ban-</i>	24
	* <i>t'aly-</i>	234
	* <i>rek'-</i>	993
sprinkle with water, to	* <i>sih-</i>	340



English Meaning	Proto-Nostratic	Number
sprinkled	* <i>duw-a</i>	193
sprinkled about, anything	* <i>duw-a</i>	193
sprinkling	* <i>zil-a</i> or * <i>žil-a</i>	310
	* <i>rek'-a</i>	993
sprout	* <i>ʕag-a</i>	761
	* <i>xan-a</i>	789
	* <i>nʷaʕ-r-a</i>	937
sprout, to	* <i>bul-V-γ-</i>	65
	* <i>ʕag-</i>	745
	* <i>xan-</i>	772
	* <i>nʷaʕ-V-r-</i>	956
squander, to	* <i>bad-</i>	6
squeak, to	* <i>c'irʷ-</i>	325
squeeze	* <i>bit'y-a</i>	59
squeeze (out), to	* <i>mal-</i>	879
squeeze, to	* <i>bit'y-</i>	59
	* <i>ʕhečh-</i>	349
	* <i>nʷam-</i>	958
squeeze tight, to	* <i>ʒag-</i>	305
squeeze together, to	* <i>thik'-</i>	217
	* <i>hak'-</i>	704
squeeze with the hand, to	* <i>kʰaph-</i>	431
squeezed, that which is	* <i>ʕhečh-a</i>	349
squeezing	* <i>ʒag-a</i>	305
	* <i>nʷam-a</i>	939
squeezing, the act of	* <i>ʕhečh-a</i>	349
squirrel	* <i>wur-a</i> (~ * <i>wor-a</i> )	858
stab	* <i>tʰakʷh-a</i>	610
stab, to	* <i>ʒer-</i> or * <i>žer-</i>	309
	* <i>tʰakʷh-</i>	610
	* <i>wah-</i>	812
	* <i>wah-</i>	828
	* <i>mir-</i>	916
	* <i>nag-</i>	940
stable, to be (= to be firm)	* <i>dag-</i>	156
stack	* <i>thul-a</i>	223
stack (in a heap), to	* <i>thul-</i>	223
staff	* <i>garʷ-a</i>	575
stain	* <i>mar-a</i>	899
stain, to	* <i>mar-</i>	899
stalk	* <i>kʰalʷ-a</i>	423
	* <i>kʰanʷ-a</i>	428
	* <i>garʷ-a</i>	575

English Meaning	Proto-Nostratic	Number
stand guard over, to	* <i>man-</i>	887
stand on end, to	* <i>bar-</i>	29
stand out, to	* <i>gar<sup>y</sup>-</i>	386
	* <i>mun-</i>	921
star	* <i>q'al-a</i> or * <i>q'el-a</i>	590
start, to	* <i>hal-</i>	707
startled, to be	* <i>hat'-</i>	744
starvation	* <i>wal-a</i>	820
stay, to	* <i>k'war-</i>	554
	* <i>wan-</i>	824
	* <i>man-</i>	886
staying	* <i>buw-a</i>	88
steadfast	* <i>t<sup>y</sup>ar-a</i>	280
steadfast, to be	* <i>man-</i>	886
steal, to	* <i>k<sup>h</sup>al<sup>y</sup>-</i>	424
steam	* <i>p<sup>u</sup>l<sup>y</sup>-a</i>	151
	* <i>duw-a</i>	193
steam, to give off	* <i>p<sup>u</sup>l<sup>y</sup>-</i>	151
stem	* <i>k<sup>h</sup>al<sup>y</sup>-a</i>	423
	* <i>k<sup>h</sup>an<sup>y</sup>-a</i>	428
	* <i>Gar<sup>y</sup>-a</i>	575
stench	* <i>ɖip<sup>h</sup>-a</i>	266
step	* <i>gir<sup>y</sup>-a</i> or * <i>Gir<sup>y</sup>-a</i>	400
	* <i>ɔot'-a</i>	694
step aside, to	* <i>ɔot'-</i>	694
step by step, to do or approach something	* <i>hak<sup>h</sup>-</i>	703
stick	* <i>bud-a</i>	64
	* <i>k<sup>h</sup>an<sup>y</sup>-a</i>	428
	* <i>Gar<sup>y</sup>-a</i>	575
stick out, to	* <i>gar<sup>y</sup>-</i>	386
stiff	* <i>t<sup>y</sup>ar-a</i>	281
stiff, that which is	* <i>t<sup>y</sup>ar-a</i>	281
stiff, to be	* <i>t<sup>y</sup>ar-</i>	281
stiff, to be or become	* <i>gar<sup>y</sup>-</i>	386
still (= quiet)	* <i>k'war-a</i>	554
	* <i>ɔan<sup>y</sup>-a</i>	646
	* <i>rom-a</i>	995
still, to be	* <i>ɔan<sup>y</sup>-</i>	646
still, to become	* <i>ham-</i>	730
stillness	* <i>k'war-a</i>	554
	* <i>ham-a</i>	730
sting	* <i>c<sup>h</sup>ag-a</i>	315
stink, to	* <i>ɖip<sup>h</sup>-</i>	266

English Meaning	Proto-Nostratic	Number
	* <i>q'ar<sup>y</sup>-</i>	594
stinking	* <i>q'ar<sup>y</sup>-a</i>	594
stinking thing	* <i>q'ar<sup>y</sup>-a</i>	594
stir, to	* <i>k'al-</i>	477
	* <i>rag-</i>	985
stir up, to	* <i>dal-</i>	159
	* <i>gal-</i>	570
	* <i>wak'-</i>	813
stir up trouble, to	* <i>dul-</i>	183
stirred up, to be	* <i>gal-</i>	570
stomach	* <i>wat<sup>y</sup>-a</i>	841
stone	* <i>p<sup>h</sup>al-a</i>	96
	* <i>k<sup>h</sup>iw-a</i>	457
	* <i>k'al-a</i>	474
	* <i>k<sup>w</sup>ar-a</i>	555
stone, grinding	* <i>k<sup>w</sup>ar-a</i>	555
stoop down, to	* <i>k'um-</i>	514
	* <i>lam-</i>	971
	* <i>lam-V-d-</i>	971
stooping, the act of	* <i>k'um-a</i>	514
stop, to	* <i>t'ad-</i>	228
	* <i>rom-</i>	995
stoppage	* <i>c<sup>h</sup>uk<sup>h</sup>-a</i>	319
storm	* <i>bur-a</i>	81
	* <i>sig-a</i>	331
	* <i>k<sup>w</sup>ar<sup>y</sup>-a</i>	557
storm cloud	* <i>nab-a</i>	937
stormy weather	* <i>k<sup>w</sup>ar<sup>y</sup>-a</i>	557
story (= tale; narrative)	* <i>k<sup>h</sup>ul-a</i>	461
stove	* <i>gub-a</i>	403
straight	* <i>woy-k<sup>h</sup>-a</i>	856
straightness	* <i>woy-k<sup>h</sup>-a</i>	856
strain	* <i>k'ac<sup>h</sup>-a</i>	468
strain, to	* <i>k'ac<sup>h</sup>-</i>	468
	* <i>muk'-</i>	920
straining (as a woman in labor or as when defecating)	* <i>muk'-a</i>	920
stranger	* <i>gus-a</i>	410
strangle, to (= to choke)	* <i>han-V-g-</i>	733
strap	* <i>žal-a</i>	344
stream	* <i>d<sup>v</sup>aw-a</i>	263
	* <i>žar-a</i> or * <i>žar-a</i>	308
	* <i>k<sup>w</sup>aly-a</i>	549

English Meaning	Proto-Nostratic	Number
strength	* <i>hap<sup>h</sup>-a</i>	736
	* <i>mor-a</i>	918
	* <i>t<sup>y</sup>ar-a</i>	280
	* <i>gal-a</i>	376
	* <i>g[e]n-d-a</i>	390
	* <i>k<sup>h</sup>ar-a</i>	438
	* <i>ʔab-a</i>	628
	* <i>hal<sup>y</sup>-a</i>	727
	* <i>ʕur-a</i>	783
	* <i>wak'-a</i>	813
	* <i>wal-a</i>	814
	* <i>woy-a</i>	855
	* <i>mag-a</i>	867
	* <i>mak'-a</i>	873
stretch	* <i>ban-a</i>	25
	* <i>t<sup>h</sup>al<sup>y</sup>-a</i>	199
	* <i>t<sup>h</sup>ar-a</i>	205
stretch, to	* <i>rak'-a</i>	988
	* <i>t<sup>h</sup>al<sup>y</sup>-</i>	199
	* <i>t<sup>h</sup>an<sup>y</sup>-</i>	201
	* <i>t<sup>h</sup>ar-</i>	205
	* <i>ʔut'-</i>	701
	* <i>war-</i>	832
	* <i>mad-</i>	865
	* <i>mat'-</i>	905
	* <i>rak'-</i>	988
	* <i>t<sup>h</sup>ar-</i>	205
stretch out, to	* <i>t'al-</i>	233
	* <i>c'al-</i> or * <i>č'al-</i>	320
	* <i>lap<sup>h</sup>-</i>	973
	* <i>Ger-</i>	579
stretch out the hand, to	* <i>t<sup>h</sup>al<sup>y</sup>-a</i>	199
	* <i>t<sup>h</sup>an<sup>y</sup>-a</i>	201
stretched	* <i>t<sup>h</sup>ar-a</i>	205
	* <i>rak'-a</i>	988
stretching, the act of	* <i>rak'-a</i>	988
	* <i>Ger-a</i>	579
stretching out one's hand, the act of	* <i>t<sup>h</sup>ar-</i>	205
	* <i>sih-</i>	340
strew, to	* <i>sih-a</i>	340
	* <i>duw-a</i>	193
strewing about, the act of	* <i>sih-a</i>	340
	* <i>duw-a</i>	193
strewn	* <i>sih-a</i>	340
strewn about	* <i>duw-a</i>	193
strewn about, anything	* <i>duw-a</i>	193

English Meaning	Proto-Nostratic	Number	
strewn about, to be strife	* <i>duw-</i>	193	
	* <i>tʰar-a</i>	612	
	strife, to cause strike	* <i>tʰar-</i>	612
		* <i>baḥ-a</i>	15
		* <i>dal-a</i>	158
		* <i>ʷhal-a</i>	268
		* <i>k'an-a</i>	484
		* <i>gʷan-a</i>	520
		* <i>wed-a</i>	833
	strike, to	* <i>baḥ-</i>	15
* <i>ban-</i>		26	
* <i>tʰak'-</i>		197	
* <i>tʰapʰ-</i>		203	
* <i>t'apʰ-</i>		238	
* <i>t'aw-</i>		243	
* <i>t'uk'-</i>		254	
* <i>dʷab-</i>		258	
* <i>ʷhum-</i>		275	
* <i>t'ʷad-</i>		276	
* <i>k'an-</i>		484	
* <i>k'ud-</i>		507	
* <i>gʷan-</i>		520	
* <i>k'ʷad-</i>		545	
* <i>k'ʷaḥ-</i>		547	
* <i>qʰal-</i>		584	
* <i>qʰatʰ-</i>		587	
* <i>q'ʷal-</i>		602	
* <i>ʕakʰ-</i>		762	
* <i>wah-</i>		812	
* <i>wan-</i>		828	
* <i>nag-</i>		940	
* <i>nikʰ-</i>		950	
* <i>laḥ-</i>		966	
* <i>laxʷ-</i>		980	
strike fire, to		* <i>k'ʷas-</i>	558
strike (with a weapon), to		* <i>wed-</i>	844
strike (with an instrument), to	* <i>gad-</i>	367	
strike with a sharp instrument, to	* <i>ʷhal-</i>	268	
striking, the act of	* <i>ʕakʰ-a</i>	762	
	* <i>laxʷ-a</i>	980	
string	* <i>pʰir-a</i>	131	
	* <i>ʒal-a</i>	344	
	* <i>k'aŋ-a</i>	485	

English Meaning	Proto-Nostratic	Number
	<i>*mar-a</i>	896
strip away, to	<i>*k'aly-</i>	479
strip off, to	<i>*k'aly-</i>	479
stripping away	<i>*k'aly-a</i>	479
stripping off	<i>*k'aly-a</i>	479
strive against, to (= to oppose)	<i>*mar-</i>	894
strive for, to (= to wish for; to desire)	<i>*win-</i> or <i>*wiŋ-</i>	851
stroke	<i>*t<sup>h</sup>ak'-a</i>	197
	<i>*t<sup>h</sup>ap<sup>h</sup>-a</i>	203
	<i>*t'ap<sup>h</sup>-a</i>	238
	<i>*t'aw-a</i>	243
	<i>*t'uk'-a</i>	254
	<i>*d<sup>v</sup>ab-a</i>	258
	<i>*c<sup>h</sup>al-a</i>	317
	<i>*k'ud-a</i>	507
	<i>*k'<sup>w</sup>ad-a</i>	545
	<i>*q<sup>h</sup>al-a</i>	584
	<i>*nag-a</i>	940
	<i>*lax<sup>w</sup>-a</i>	980
stroke, to	<i>*mal-</i>	880
stroking, the act of	<i>*mal-a</i>	880
strong	<i>*t'<sup>y</sup>ar-a</i>	280
	<i>*k<sup>h</sup>ar-a</i>	438
	<i>*ʔab-a</i>	628
	<i>*ʔad-a</i>	630
	<i>*ħal<sup>v</sup>-a</i>	727
	<i>*ʕur-a</i>	783
	<i>*mag-a</i>	867
	<i>*mak'-a</i>	873
	<i>*man-g-a</i>	889
strong, to be	<i>*gal-</i>	376
	<i>*ʔad-</i>	630
	<i>*ħal<sup>v</sup>-</i>	727
	<i>*ʕur-</i>	783
	<i>*xam-</i>	788
	<i>*xam-V-d-</i>	788
	<i>*mak'-</i>	873
strong, to be or become	<i>*wal-</i>	814
strong odor, to give off a	<i>*d<sup>v</sup>ip<sup>h</sup>-</i>	266
strongly attached, to be	<i>*t'<sup>y</sup>ar-</i>	282
structure	<i>*t'am-a</i>	235
struggle	<i>*bur-a</i>	79
stuck together, to be or become	<i>*t'<sup>y</sup>ar-</i>	282

English Meaning	Proto-Nostratic	Number
study	* <i>k<sup>h</sup>al-a</i>	422
stuff, to	* <i>t<sup>h</sup>ur-</i>	226
	* <i>t'an-</i>	236
(stupid, to be)	* <i>ʒag-</i>	305
	* <i>dul-</i>	183
(stupidity)	* <i>dul-a</i>	183
stupor	* <i>t<sup>h</sup>um-a</i>	275
succumb, to	* <i>ʔeb-</i>	670
such-and-such, to be not	* <i>ʔal-</i>	
	(perhaps also * <i>ʔel-</i> , * <i>ʔul-</i> )	641
suck (milk from a breast), to	* <i>ʕun<sup>y</sup>-</i>	782
suck (out), to	* <i>mal-</i>	879
suck, to	* <i>diy-</i>	178
	* <i>k'wan-</i>	551
suck, to give	* <i>ʕim-</i>	778
	* <i>mal-</i>	879
suck milk, to	* <i>lab-</i>	962
suck (the breast), to	* <i>mam-</i> , * <i>mem-</i>	845
sucking	* <i>lab-a</i>	943
sucking, the act of	* <i>ʕim-a</i>	762
suckle, to	* <i>diy-</i>	178
	* <i>k'wan-</i>	551
suckling	* <i>mam-</i> , * <i>mem-</i>	861
	* <i>mal-</i>	879
suffer, to	* <i>man-</i>	884
	* <i>man-a</i>	884
suffer, to	* <i>t<sup>h</sup>al<sup>y</sup>-</i>	199
	* <i>gal-</i>	374
suffer, to make to	* <i>muŋ-</i>	923
	* <i>nus<sup>y</sup>-</i>	954
suffering	* <i>bad-</i>	7
	* <i>bad-a</i>	7
suffering, to be in	* <i>t<sup>h</sup>al<sup>y</sup>-a</i>	199
	* <i>muk'-a</i>	920
suffering, to cause	* <i>muŋ-a</i>	923
	* <i>nik<sup>h</sup>-a</i>	950
suitability	* <i>muŋ-</i>	923
suitable	* <i>muŋ-</i>	923
	* <i>t'ak<sup>h</sup>-a</i>	230
suitable, to be	* <i>s<sup>y</sup>uw-a</i>	303
	* <i>t'ak<sup>h</sup>-a</i>	230
suitable, to be	* <i>s<sup>y</sup>uw-a</i>	303
	* <i>t'ak<sup>h</sup>-</i>	230

English Meaning	Proto-Nostratic	Number
	*s <sup>y</sup> uw-	303
summer	*s <sup>y</sup> am-a	289
summit	*gub-a	402
	*k <sup>h</sup> ir-a	455
	*ʕal-a	763
summons	*q <sup>w</sup> at <sup>y</sup> h-a	607
sun	*s <sup>y</sup> ax <sup>w</sup> -a	293
sun (heat of the)	*ʔeŋ-	676
	*ʔeŋ-V-k'-	676
sunken	*ʕam-a	765
sunlight	*ʔeŋ-a	676
	*ʔeŋ-k'-a	676
	*hag-a	702
sunny, to be	*s <sup>y</sup> am-	289
sunset	*gam-a	799
sunshine	*ʔeŋ-a	676
	*ʔeŋ-k'-a	676
superior	*ʔaph-a	653
	*har-a	739
superior, to be	*ʔaph-	653
	*har-	739
supervise, to	*rak'-	989
support	*k <sup>h</sup> al-a	421
surge	*bal-a	21
	*s <sup>y</sup> or-a	300
	*weɫ <sup>y</sup> -a	830
surge, to	*bal-	19
	*weɫ <sup>y</sup> -	847
surge forth, to	*s <sup>y</sup> or-	300
surge up, to	*haw-	746
surpass, to	*p <sup>h</sup> ar-	109
	*dviʔ-	265
	*ʔaph-	653
	*mah-	870
	*mik'-	914
surplus	*t <sup>h</sup> ir-p <sup>h</sup> -a	219
	*gam-a	378
surprise, exclamation of	*hay	715
surround, to	*c <sup>u</sup> r-	326
surroundings	*c <sup>u</sup> r-a	326
surrounds, that which (= enclosure; wall)	*c <sup>u</sup> r-a	326
suspend, to	*t <sup>h</sup> uŋ-V-k <sup>h</sup> -	620
sustenance	*k <sup>u</sup> al-a	473



English Meaning	Proto-Nostratic	Number	
swallow, to	*šaw-	356	
	*q'el-	596	
	*q'wur-	608	
	*šim-	778	
	*šun <sup>y</sup> -	782	
swallowing, the act of	*šim-a	778	
swamp	*ber-a	47	
	*mar-a	900	
sweepings	*q <sup>h</sup> oc <sup>h</sup> -a	588	
swell, to	*bar-	28	
	*bir-	53	
	*bug-	65	
	*bul-	68	
	*bul-bul- (> *bum-bul-)	71	
	*bun-	76	
	*bun-V-g-	76	
	*p <sup>hu</sup> ʔ-	134	
	*p <sup>hul</sup> y-	136	
	*p'ul-	150	
	*dar <sup>y</sup> -	165	
	*did-	172	
	*t <sup>h</sup> aw-	212	
	*p <sup>hiq</sup> 'w-	273	
	*šiw-	360	
	*gar <sup>y</sup> -	385	
	*k <sup>h</sup> aw-	448	
	*š <sup>w</sup> an-	521	
	*h <sup>aw</sup> -	747	
	*h <sup>ay</sup> -V-t'-	750	
	*hon-	756	
	*mah-	870	
	*man-	888	
	*man-V-g-	889	
	*mik'-	914	
	swelling	*bar-a	28
		*bul-bul-a (> *bum-bul-a)	71
*bun-a		76	
*bun-g-a		76	
*p <sup>hu</sup> ʔ-a		134	
*p'ul-a		150	
*dar <sup>y</sup> -a		165	
*t <sup>h</sup> aw-a		212	
*p <sup>hiq</sup> 'w-a		273	

English Meaning	Proto-Nostratic	Number
	*šiw-a	360
	*garʷ-a	385
	*gʷan-a	521
	*h̄aw-a	747
	*h̄ay-t'-a	750
	*h̄on-a	756
swelling (on the skin) (= blister; abscess)	*pʰulʷ-a	136
swift	*tʷor-a	288
swiftly, to move	*pʰar-	110
	*pʰir-	130
	*girʷ- or *Girʷ-	400
swim	*wuy-a or *Huy-a	860
swim, to	*wuy- or *Huy-	860
swimming	*wuy-a or *Huy-a	860
swing back and forth, to	*dulʷ-	184
swinging	*dulʷ-a	184
swollen	*bun-g-a	76
	*pʷul-a	150
	*did-a	172
	*tʰaw-a	212
	*šiw-a	360
	*h̄ay-t'-a	750
	*man-g-a	889
swollen, that which is	*pʰulʷ-a	136
sword	*sakʰ-a	331
	*wah-a	812
T		
tail	*kʷad-a	546
take, to	*day-	171
	*zum- or *žum-	313
	*kʷaw-	497
	*ʔam-	642
	*wad-	811
	*manʷ-	892
	*niŋʰ-	951
take (away), to	*tʰekʰ-	213
	*sʷilʷ-	296
take away, to	*kʷal-	475
	*qʰoçʰ-	588
	*woth-	854
take by force, to	*ʕapʷ-	770

English Meaning	Proto-Nostratic	Number
take care of, to	* <i>man-</i>	887
take hold of, to (= to grasp)	* <i>bar-</i>	33
	* <i>p<sup>h</sup>ay-</i>	104
	* <i>p<sup>h</sup>ay-V-k<sup>w</sup>h-</i>	104
	* <i>gar-</i>	381
	* <i>k'ab-</i>	467
	* <i>ʕap'-</i>	770
	* <i>wot<sup>h</sup>-</i>	854
	* <i>lab-</i>	961
take in hand, to	* <i>p<sup>h</sup>ay-</i>	104
	* <i>p<sup>h</sup>ay-V-k<sup>w</sup>h-</i>	104
take off, to	* <i>q<sup>h</sup>oç<sup>h</sup>-</i>	588
take (with the hand), to	* <i>gat'-</i>	388
take (with the hands or arms), to	* <i>haph-</i>	735
take with the hand, to	* <i>k<sup>h</sup>aph-</i>	431
taking	* <i>zum-a</i> or * <i>žum-a</i>	313
	* <i>lab-a</i>	962
taking, the act of	* <i>thek<sup>h</sup>-a</i>	213
	* <i>zum-a</i> or * <i>žum-a</i>	313
	* <i>wad-a</i>	811
	* <i>wot<sup>h</sup>-a</i>	854
tale	* <i>t'il-a</i>	249
	* <i>k<sup>h</sup>ul-a</i>	461
talk (= speech; discourse)	* <i>t'il-a</i>	249
	* <i>x<sup>w</sup>at'-a</i>	796
talk, to	* <i>k<sup>h</sup>il-</i>	453
talkative, to be	* <i>wat<sup>h</sup>-</i>	840
tall	* <i>bir-a</i>	53
	* <i>bir-g-a</i>	53
	* <i>t'al-a</i>	233
tall, to be	* <i>ʕal-</i>	763
tallness	* <i>bir-a</i>	53
(tallow)	* <i>p<sup>h</sup>ul<sup>y</sup>-a</i>	137
tame	* <i>t'um-a</i>	256
tame, to	* <i>t'um-</i>	256
tamp (earth), to	* <i>diq<sup>h</sup>-</i>	177
taut	* <i>thar-a</i>	205
tear (= split)	* <i>thar-a</i>	206
	* <i>t'ar-a</i>	240
	* <i>t'yar-a</i>	283
	* <i>gal-a</i>	369
	* <i>row-a</i>	996
tear, to	* <i>p<sup>h</sup>id-</i>	142

English Meaning	Proto-Nostratic	Number
	* <i>t<sup>h</sup>ar-</i>	206
	* <i>t'ar-</i>	240
	* <i>t'ar-V-p<sup>h</sup>-</i>	241
tear apart, to	* <i>p'ut'-</i>	152
	* <i>row-</i>	996
tear asunder, to	* <i>sar-</i>	355
tear off, to	* <i>bir-</i>	55
	* <i>p<sup>h</sup>id-</i>	142
	* <i>p'ut'-</i>	152
	* <i>gal-</i>	369
	* <i>k'alv-</i>	479
	* <i>x<sup>w</sup>al-</i>	794
tear out, to	* <i>p<sup>h</sup>id-</i>	142
	* <i>k'alv-</i>	479
	* <i>x<sup>w</sup>al-</i>	794
tearing	* <i>t'ar-p<sup>h</sup>-a</i>	241
tearing, the act of	* <i>p<sup>h</sup>id-a</i>	142
tearing off, the act of	* <i>bir-a</i>	55
	* <i>x<sup>w</sup>al-a</i>	794
tearing out, the act of	* <i>x<sup>w</sup>al-a</i>	794
teat	* <i>diy-a</i>	178
	* <i>ɕim-a</i>	778
teeming	* <i>ɽap<sup>h</sup>-a</i>	653
tell, to	* <i>t'il-</i>	249
	* <i>k<sup>h</sup>ul-</i>	461
	* <i>war-</i> and/or * <i>wir-</i>	835
tend, to	* <i>man-</i>	887
tender	* <i>ɽax-a</i>	633
	* <i>mel-a</i>	908
tender, to be	* <i>ɽax-</i>	633
	* <i>han-</i>	731
tender, to be or become	* <i>lam-</i> ~ (?) * <i>ɽam-</i>	972
tenderness	* <i>han-a</i>	731
tendon	* <i>s<sup>y</sup>ir-a</i>	297
	* <i>s[e]n-a</i> or * <i>ʂ[e]n-a</i>	336
terrified, to be	* <i>hat'-</i>	744
testicle	* <i>mun-a</i>	922
	* <i>mun-d-a</i>	922
testicles	* <i>bul-a</i> (~ * <i>bol-a</i> )	69
that	* <i>t<sup>h</sup>i-</i> (~ * <i>t<sup>h</sup>e-</i> )	194
	* <i>ʂa-</i> (~ * <i>ʂə-</i> )	354
	* <i>k<sup>h</sup>i-</i> (~ * <i>k<sup>h</sup>e-</i> )	414
	* <i>ɽu-</i> (~ * <i>ɽo-</i> )	627

English Meaning	Proto-Nostratic	Number
	* <i>mi-</i> (~ * <i>me-</i> )	861
	* <i>na</i> (~ * <i>nə</i> ), * <i>ni</i> (~ * <i>ne</i> )	932
that one	* <i>dvi-</i> (~ * <i>dve-</i> )	264
that over there	* <i>v<sup>h</sup>a-</i>	267
	* <i>ʔa-</i> (~ * <i>ʔə-</i> )	627
	* <i>ʔul-</i> (~ * <i>ʔol-</i> )	698
that yonder	* <i>t<sup>h</sup>u-</i> (~ * <i>t<sup>h</sup>o-</i> )	194
	* <i>k<sup>h</sup>u-</i> (~ * <i>k<sup>h</sup>o-</i> )	414
	* <i>ʔa-</i> (~ * <i>ʔə-</i> )	627
	* <i>ʔul-</i> (~ * <i>ʔol-</i> )	698
	* <i>mu-</i> (~ * <i>mo-</i> )	861
that yonder (not very far)	* <i>v<sup>h</sup>a-</i>	267
theft	* <i>k<sup>h</sup>al<sup>y</sup>-a</i>	424
their	* <i>-si</i> (~ * <i>-se</i> )	338
them	* <i>si-</i> (~ * <i>se-</i> )	338
then	* <i>h<sup>a</sup>r<sup>y</sup>-</i>	741
therefore	* <i>h<sup>a</sup>r<sup>y</sup>-</i>	741
they	* <i>si-</i> (~ * <i>se-</i> )	338
thick	* <i>bar-a</i>	31
	* <i>bun-g-a</i>	76
	* <i>t<sup>h</sup>ik'-a</i>	217
	* <i>t'an-a</i>	236
	* <i>k'an-a</i>	483
thick, to be	* <i>bar-</i>	31
thickness	* <i>bar-a</i>	31
	* <i>t'an-a</i>	236
	* <i>k'an-a</i>	483
	* <i>k'w<sup>u</sup>r<sup>y</sup>-a</i>	566
(thin)	* <i>t<sup>h</sup>al<sup>y</sup>-a</i>	199
thin, to grow	* <i>t<sup>h</sup>ah-</i>	195
think, to	* <i>t'y<sup>i</sup>ŋ-</i>	286
	* <i>ʕeŋ-</i>	774
	* <i>man-</i>	885
think about, to	* <i>saḥ-</i> or * <i>šaḥ-</i>	330
thinness	* <i>t<sup>h</sup>al<sup>y</sup>-a</i>	199
this	* <i>t<sup>h</sup>a-</i> (~ * <i>t<sup>h</sup>ə-</i> )	194
	* <i>ʂa-</i> (~ * <i>ʂə-</i> )	354
	* <i>k<sup>h</sup>a-</i> (~ * <i>k<sup>h</sup>ə-</i> )	414
	* <i>ʔi-</i> (~ * <i>ʔe-</i> )	627
	* <i>ma-</i> (~ * <i>mə-</i> )	861
	* <i>na</i> (~ * <i>nə</i> ), * <i>ni</i> (~ * <i>ne</i> )	932
this one	* <i>dvi-</i> (~ * <i>dve-</i> )	264
thorn	* <i>t<sup>h</sup>ak<sup>wh</sup>-a</i>	610

English Meaning	Proto-Nostratic	Number
	*ʔady-a	631
though	*k <sup>w</sup> hay-	538
thought	*t <sup>y</sup> iŋ-a	286
	*saḥ-a or *šaḥ-a	330
	*ʕeŋ-a	775
thrashing	*c <sup>h</sup> aḥ-a	316
thrashing, the act of	*c <sup>h</sup> aḥ-a	316
thrive, to	*riy-	994
throat	*q <sup>h</sup> ar <sup>y</sup> -a	586
	*q <sup>ʼ</sup> el-a	596
	*q <sup>ʼ</sup> wur-a	608
	*ḥan-g-a	733
	*x <sup>w</sup> el <sup>y</sup> -a	797
throng	*gam-a	571
throw, to	*day-	169
	*siḥ-	340
	*gud-	404
	*q <sup>ʼ</sup> wal-	603
	*ʕam-	767
throw down, to	*c <sup>ʼ</sup> ar-	321
throwing	*q <sup>ʼ</sup> wal-a	603
throwing about, the act of	*siḥ-a	340
thrown about	*siḥ-a	340
thrown aside, that which is	*gud-a	404
thrown off, that which is	*gud-a	404
thrust	*t <sup>h</sup> al <sup>y</sup> -a	200
	*t <sup>h</sup> ur-a	226
	*k <sup>ʼ</sup> wad-a	545
	*t <sup>h</sup> ak <sup>w</sup> h-a	610
	*t <sup>h</sup> uk <sup>h</sup> -a	612
thrust, to	*t <sup>h</sup> al <sup>y</sup> -	190
thrust (in), to	*t <sup>h</sup> uk <sup>h</sup> -	625
thrust in, to	*t <sup>h</sup> ur-	226
thrust into, to	*zer- or *žer-	309
thumb	*p <sup>h</sup> al-a	101
thump	*t <sup>ʼ</sup> uk <sup>ʼ</sup> -a	254
	*k <sup>ʼ</sup> an-a	484
	*k <sup>ʼ</sup> ud-a	507
thunder, clap of	*gad-a	567
	*gad-gad-a	567
thunder, to	*k <sup>ʼ</sup> war <sup>y</sup> -	557
thunderstorm	*k <sup>ʼ</sup> war <sup>y</sup> -a	557
tickle, to	*git <sup>ʼ</sup> -	581

English Meaning	Proto-Nostratic	Number	
tie	*baʕ-a	2	
	*ban-d-a	27	
	*bin-a	51	
	*k <sup>h</sup> ad-a	418	
	*k'ac <sup>h</sup> -a	469	
	*k'ad-a	470	
	*k'aŋ-a	485	
	*k <sup>w</sup> hir-a	542	
	*tʃ'im-a	624	
	*rak <sup>h</sup> -a	986	
tie (together), to	*ban-V-d-	27	
	*baʕ-	2	
	*t'an-	237	
	*sak'w-	332	
	*ʒal-	344	
	*k <sup>h</sup> ad-	418	
	*k'ad-	470	
	*yaʔ-	802	
	*net'y-	948	
	*rak <sup>h</sup> -	996	
	tie tightly, to	*han-V-g-	733
		*bin-	51
tie (together), to	*k'ar-	493	
	*bag-	12	
tie together, to	*s <sup>y</sup> ir-	297	
	*c'ur-	326	
	*k'ac <sup>h</sup> -	469	
	*k'aŋ-	485	
	*k'un-	516	
	*k <sup>w</sup> hir-	542	
	tie two things together, to	*k <sup>h</sup> ol <sup>y</sup> -	458
		*k'ar-a	493
	tied	*tʃ'im-a	624
		*c'ur-a	326
tied together, that which is	*k'ar-a	493	
	*t <sup>h</sup> ar-a	205	
tight	*t <sup>h</sup> ar-a	205	
time	*ʔam-a	643	
time, point of	*ʔam-a	643	
tip (= point)	*dud-a	181	
	*ʒuʒ-a	314	
	*gab-a	364	
	*gar <sup>y</sup> -a	386	
	*k <sup>h</sup> ir-a	455	

English Meaning	Proto-Nostratic	Number
	* <i>q'war-a</i>	694
	* <i>ʕam-a</i>	766
	* <i>ʕam-d-a</i>	766
tipsy	* <i>t<sup>h</sup>ar-a</i>	210
tire, to (= to weaken)	* <i>dal<sup>v</sup>-</i>	160
tire out, to	* <i>t<sup>h</sup>um-</i>	275
tired (= weary; fatigued; exhausted)	* <i>bul-a</i>	74
	* <i>dal<sup>v</sup>-a</i>	160
	* <i>t<sup>h</sup>an<sup>v</sup>-a</i>	202
	* <i>mel-a</i>	908
tired, that which is	* <i>bul-a</i>	74
tired, to be or become	* <i>was<sup>v</sup>-</i>	836
tired, to become	* <i>bul-</i>	74
	* <i>mel-</i>	908
	* <i>mol-</i>	917
tired, to grow	* <i>t<sup>h</sup>an<sup>v</sup>-</i>	202
tiredness	* <i>dal<sup>v</sup>-a</i>	160
to	* <i>ʔan<sup>v</sup>-</i>	648
together	* <i>k<sup>h</sup>am-</i>	427
together with	* <i>bi</i>	50
	* <i>da-</i> (~ * <i>də-</i> )	153
toil (= work; labor)	* <i>k<sup>h</sup>am-a</i>	426
toil, to	* <i>k<sup>h</sup>am-</i>	426
tongue	* <i>t'il-a</i>	250
	* <i>k<sup>h</sup>il-a</i>	453
	* <i>las<sup>v</sup>-a, *lis<sup>v</sup>-a, *lus<sup>v</sup>-a</i>	974
tool used to form something	* <i>t<sup>h</sup>ikh-a</i>	216
tool used to make something	* <i>t<sup>h</sup>ikh-a</i>	216
tooth	* <i>q'am-a</i>	592
	* <i>t<sup>ʃ</sup>'ar-s-a</i>	622
top	* <i>t<sup>h</sup>al-a</i>	198
	* <i>s<sup>v</sup>ub-a</i>	301
	* <i>gab-a</i>	364
	* <i>gub-a</i>	402
	* <i>k<sup>h</sup>ir-a</i>	455
	* <i>ʕam-a</i>	766
	* <i>ʕam-d-a</i>	766
topmost part	* <i>war-a</i>	833
	* <i>mun-a</i>	921
torch	* <i>ʕal-a</i>	764
torment, to	* <i>dar-</i>	163
	* <i>muŋ-</i>	923
torn	* <i>t<sup>v</sup>ar-a</i>	283



English Meaning	Proto-Nostratic	Number
torn-off piece or part	*p'ut'-a	152
	*baʕ-a	1
torrent	*zar-a or *žar-a	308
	*haw-a	746
	*haw-a	746
	*haw-a	746
torrential rain	*haw-a	746
torture, to	*muŋ-	923
toss, to	*gud-	404
tossed aside, that which is	*gud-a	404
tossed off, that which is	*gud-a	404
touch	*tʰak'-a	197
touch, to	*tʰak'-	197
	*gasʸ-	387
	*ʔam-	642
touched	*ʔam-a	642
towards	*ʔanʸ-	648
trace	*ʔirʸ-	686
track (= way)	*k'wal-a	548
	*ʔot'-a	694
	*mar-a	897
	*wos-a	853
trade (= commerce)	*wos-	853
trade, to	*tʰapʰ-	203
trample, to	*t'uk'-	254
	*rom-a	995
tranquil	*ham-	730
tranquil, to become	*t'um-a	256
	*ʔanʸ-a	646
tranquility	*ham-a	730
	*rom-a	995
	*naʕ-	935
travel, to	*lakʰ-	968
travel on foot, to	*t'orʸ-a	251
	*mar-a	901
tree	*dʷan-w-a	261
	*wir-a	852
tree, a kind of	*t'orʸ-a	251
	*žagʷ-a	342
tree, the parts of a	*hasʸ-a	743
tree, small	*pʰatʰ-	120
tree and its fruit	*pʰel-	125
	*pʰir-	132
tremble, to	*tʰar-	211
	*k'al-	477

English Meaning	Proto-Nostratic	Number
	* <i>hat'</i> -	744
	* <i>hut'</i> -	760
	* <i>naḥ</i> -	941
	* <i>nʷukʰ</i> -	960
trembling	* <i>pʰir-a</i>	132
	* <i>k'al-a</i>	477
	* <i>hat'-a</i>	744
	* <i>hut'-a</i>	760
	* <i>nʷukʰ-a</i>	960
	* <i>rag-a</i>	985
	* <i>raq'-a</i>	990
trembling (from fear, fright)	* <i>tʰar-a</i>	211
trench	* <i>kʷḥar-a</i>	533
	* <i>ʔakʰ-a</i>	636
tribute (= payment; recompense)	* <i>kʰap'-a</i>	433
trick, to (= to deceive; to cheat)	* <i>makʰ</i> -	872
trickery (= deception)	* <i>makʰ-a</i>	872
trickle	* <i>k'waly-a</i>	549
	* <i>wal-a</i>	818
trickle, to	* <i>k'waly-</i>	549
trickling	* <i>ʒil-a</i> or * <i>ʒil-a</i>	310
trip (= voyage; journey)	* <i>gal-a</i>	568
trouble	* <i>bad-a</i>	7
	* <i>dul-a</i>	183
	* <i>k'acʰ-a</i>	468
	* <i>ḥag-a</i>	719
	* <i>nady-a</i>	939
trouble, to be in	* <i>muŋ-</i>	923
trouble, to cause	* <i>muŋ-</i>	923
trouble, to stir up	* <i>dul-</i>	183
troubled, to be	* <i>dal-</i>	159
	* <i>dul-</i>	183
	* <i>ḥag-</i>	719
	* <i>makʰ-</i>	872
true (= correct; right)	* <i>woy-kʰ-a</i>	856
truncheon (= club)	* <i>k'an-a</i>	484
try to find out, to	* <i>saḥ-</i> or * <i>šaḥ-</i>	330
try to understand, to	* <i>saḥ-</i> or * <i>šaḥ-</i>	330
tumor	* <i>darʷ-a</i>	165
tumult (= turmoil)	* <i>gal-a</i>	373
turbidity (= mixture; disorder)	* <i>bul-a</i>	72
turmoil (= disturbance)	* <i>gal-a</i>	373
turn	* <i>bur-a</i>	78

English Meaning	Proto-Nostratic	Number
	* <i>p<sup>h</sup>ir-a</i>	131
	* <i>dar-a</i>	162
	* <i>wal<sup>y</sup>-a</i>	821
	* <i>mal-a</i>	882
	* <i>maq<sup>wh</sup>-a</i>	893
	* <i>law-a</i>	976
	* <i>rak<sup>h</sup>-a</i>	986
turn, to	* <i>bur-</i>	78
	* <i>p<sup>h</sup>ir-</i>	131
	* <i>dar-</i>	162
	* <i>c'ur-</i>	326
	* <i>č<sup>h</sup>ok<sup>h</sup>-</i>	350
	* <i>k'ar-</i>	493
	* <i>g<sup>w</sup>ar-</i>	522
	* <i>hap<sup>h</sup>-</i>	712
	* <i>haw-</i>	748
	* <i>wal<sup>y</sup>-</i>	821
	* <i>mal-</i>	882
	* <i>maq<sup>wh</sup>-</i>	893
	* <i>mar-</i>	896
	* <i>mur-</i>	925
	* <i>net<sup>y</sup>-</i>	948
	* <i>law-</i>	976
	* <i>rak<sup>h</sup>-</i>	986
	* <i>rat<sup>h</sup>-</i>	991
turn around, to	* <i>k<sup>h</sup>ar-</i>	436
	* <i>ɕor<sup>y</sup>-</i>	779
turn away, to	* <i>hap<sup>h</sup>-</i>	712
turn back, to	* <i>hap<sup>h</sup>-</i>	712
turn gray, (hair) to	* <i>p<sup>h</sup>ar<sup>y</sup>-</i>	116
turn over, to	* <i>mar-</i>	896
turn round, to	* <i>k'aw-</i>	496
	* <i>maq<sup>wh</sup>-</i>	893
	* <i>mar-</i>	896
turn together, to	* <i>s<sup>y</sup>ir-</i>	297
	* <i>k'aŋ-</i>	485
turn upside down, to	* <i>maq<sup>wh</sup>-</i>	893
turned	* <i>g<sup>w</sup>ar-a</i>	522
turned away from	* <i>hap<sup>h</sup>-a</i>	712
turned back	* <i>hap<sup>h</sup>-a</i>	712
turned together	* <i>dar-a</i>	162
turning	* <i>ɕor<sup>y</sup>-a</i>	779
	* <i>rat<sup>h</sup>-a</i>	991

English Meaning	Proto-Nostratic	Number	
turning, the act of	* <i>čʰokʰ-a</i>	350	
	* <i>mar-a</i>	896	
turning away, the act of	* <i>hapʰ-a</i>	712	
turning back, the act of	* <i>hapʰ-a</i>	712	
turning over, the act of	* <i>mar-a</i>	896	
turning round, the act of	* <i>mar-a</i>	896	
turns, that which	* <i>dar-a</i>	162	
	* <i>kʷhal-a</i>	526	
twilight	* <i>rum-a</i>	997	
twine	* <i>pʰir-a</i>	131	
twine together, to	* <i>kʷhir-</i>	542	
twining	* <i>pʰir-a</i>	131	
twining together, the act of	* <i>kʷhir-a</i>	542	
twist	* <i>bur-a</i>	78	
	* <i>pʰir-a</i>	131	
	* <i>kʷhir-a</i>	542	
	* <i>han-a</i>	732	
	* <i>maqʷh-a</i>	893	
	* <i>law-a</i>	976	
	* <i>rakʰ-a</i>	986	
	twist, to	* <i>bur-</i>	78
		* <i>pʰir-</i>	131
		* <i>dar-</i>	162
		* <i>tʰakʰ-</i>	196
		* <i>cʰur-</i>	326
		* <i>čʰokʰ-</i>	350
* <i>kʰatʰ-</i>		444	
* <i>kʰar-</i>		493	
* <i>gʷar-</i>		522	
* <i>Gub-</i>		582	
* <i>han-</i>		732	
* <i>haw-</i>		748	
* <i>mal-</i>		882	
* <i>maqʷh-</i>	893		
* <i>mar-</i>	896		
* <i>mur-</i>	925		
* <i>law-</i>	976		
* <i>rakʰ-</i>	986		
twist around, to	* <i>kʰar-</i>	436	
twist round, to	* <i>kʰaw-</i>	496	
	* <i>ʕorʷ-</i>	779	
twist together, to	* <i>bin-</i>	51	
	* <i>dar-</i>	162	

English Meaning	Proto-Nostratic	Number
	* <i>tʰakʰ-</i>	196
	* <i>sʸir-</i>	297
	* <i>kʰaŋ-</i>	485
	* <i>kʰwhir-</i>	542
	* <i>netʸ-</i>	948
twist (together), to	* <i>ban-V-d-</i>	27
twisted	* <i>kʰar-a</i>	437
	* <i>gʷar-a</i>	522
twisted, that which is	* <i>kʰatʰ-a</i>	444
	* <i>Gub-a</i>	582
twisted, to be	* <i>tʰakʰ-</i>	196
twisted together	* <i>dar-a</i>	162
twisted together, anything	* <i>netʸ-a</i>	948
twisted together, that which is	* <i>cʰur-a</i>	326
twisting	* <i>ʕorʸ-a</i>	779
twisting, the act of	* <i>ʕʰokʰ-a</i>	350
twisting together, the act of	* <i>kʰwhir-a</i>	542
twists, that which	* <i>dar-a</i>	162
two	* <i>ʸor-a</i>	807
two halves	* <i>tʰuʔw-a</i>	253
two things, any combination of	* <i>kʰolʸ-a</i>	458
tying	* <i>ʕorʸ-a</i>	779

## U

udder	* <i>kʰʷan-a</i>	551
under, that which is	* <i>ħal-a</i>	726
underpart	* <i>ħal-a</i>	726
understanding	* <i>saħ-a</i> or * <i>šaħ-a</i>	330
	* <i>gal-a</i>	372
	* <i>ħakʰ-a</i>	721
uneasiness (= disturbance; distress)	* <i>kʰal-a</i>	477
unfruitful (= desolate; useless)	* <i>bar-a</i>	42
unfruitful, to be or become	* <i>bar-</i>	42
unguent	* <i>mar-a</i>	898
union	* <i>gid-a</i> or * <i>gid-a</i>	393
	* <i>tʰim-a</i>	624
unite, to	* <i>gid-</i> or * <i>gid-</i>	393
unite together, to	* <i>tʰim-</i>	624
united	* <i>gid-a</i> or * <i>gid-a</i>	393
united together	* <i>tʰim-a</i>	624
untamed (= wild)	* <i>guw-a</i>	412
	* <i>guw-r-a</i>	412

English Meaning	Proto-Nostratic	Number
upon	*ʔan <sup>y</sup> -	648
	*ʕal-	763
up	*ʕaŋ-	769
upper part	*ʕaŋ-a	769
uppermost part	*war-a	833
uppermost part (of anything)	*k <sup>h</sup> ir-a	455
uproar	*gal-a	373
	*q <sup>w</sup> al-a	602
upset, to	*dul-	183
upset, to be	*dul-	183
upward, to go	*xaŋ-	790
us	*wa- (~ *wə-)	808
	*ma (~ *mə)	910
	*na (~ *nə)	931
used up	*ʒaw-a	345
used up, to be	*ʒaw-	345
useless	*bar <sup>y</sup> -a	42
useless, to be or become	*bar <sup>y</sup> -	42
utter, to	*bak <sup>h</sup> -	16
utterance	*bak <sup>h</sup> -a	16

## V

vacant, to be	*wel <sup>y</sup> -	846
valley	*gol-a	401
	*ʕam-a	765
vapor	*duw-a	193
vapor, to give off	*p <sup>w</sup> ul <sup>y</sup> -	151
vehicle (= conveyance; cart)	*wig-a	849
vein	*s <sup>y</sup> ir-a	297
vessel (= pot)	*gal-a	371
	*k <sup>w</sup> ud-a (~ *k <sup>w</sup> od-a)	508
	*k <sup>w</sup> har-a	535
vex, to (= to disturb; to annoy)	*nad <sup>y</sup> -	939
vexation	*nad <sup>y</sup> -a	939
vexed, to be	*hag-	719
victory	*sag-a or *šag-a	329
	*wel-a	845
view	*ʕen-a	774
view, to come into	*wil <sup>y</sup> -	850
vigil (= watch)	*war-a	830
vigor	*wak <sup>w</sup> -a	813
vile (= low; base; mean)	*p <sup>h</sup> ul-a	135

English Meaning	Proto-Nostratic	Number
violence	* <i>hal-a</i>	724
violent, to be	* <i>ʔekh-</i>	671
violent movement	* <i>ʔekh-a</i>	671
virility	* <i>g[e]n-d-a</i>	390
visibility	* <i>c'ar-a</i> or * <i>č'ar-a</i>	322
	* <i>gal-a</i>	372
visible	* <i>c'ar-a</i> or * <i>č'ar-a</i>	322
visible, that which is	* <i>xaŋ-a</i>	790
visible, to be or become	* <i>c'ar-</i> or * <i>č'ar-</i>	322
	* <i>gal-</i>	372
voice	* <i>baħ-a</i>	14
vomit	* <i>p<sup>h</sup>ut<sup>h</sup>-a</i>	146
	* <i>wam-a</i>	823
vomit, to	* <i>p<sup>h</sup>ut<sup>h</sup>-</i>	146
voyage (= trip; journey)	* <i>gal-a</i>	568

## W

wail	* <i>wal-a</i>	816
walk	* <i>k<sup>wh</sup>al-a</i>	525
	* <i>mar-a</i>	897
walk, to	* <i>bar-</i>	41
	* <i>gir<sup>v</sup>-</i> or * <i>gir<sup>v</sup>-</i>	400
	* <i>k<sup>wh</sup>al-</i>	525
	* <i>mar-</i>	897
walking	* <i>bar-a</i>	41
	* <i>k<sup>wh</sup>al-a</i>	525
	* <i>mar-a</i>	897
wall	* <i>c'ur-a</i>	326
	* <i>gir-a</i>	398
wandering	* <i>k<sup>wh</sup>al-a</i>	525
wane, to (= to wither)	* <i>t<sup>h</sup>ar-</i>	208
want	* <i>bad-a</i>	8
	* <i>gaʔ-a</i>	362
	* <i>k'al-a</i>	475
	* <i>ʔek'-a</i>	672
	* <i>ħiw-a</i> , * <i>ħiy-a</i>	753
want, to be in	* <i>ħiw-</i> , * <i>ħiy-</i>	753
wanting	* <i>gaʔ-a</i>	362
	* <i>k'al-a</i>	475
wanting, to be	* <i>ʔek'-</i>	672
warder (= guard)	* <i>war-a</i>	830
warm	* <i>p<sup>h</sup>ek<sup>wh</sup>-a</i>	124

English Meaning	Proto-Nostratic	Number
	* <i>t'ab-a</i>	227
	* <i>k<sup>h</sup>um-a</i>	464
warm, to	* <i>p<sup>h</sup>aḥ-</i>	140
	* <i>p<sup>h</sup>aḥ-V-w-</i>	140
	* <i>dul-</i>	182
	* <i>t<sup>h</sup>ep<sup>h</sup>-</i>	214
	* <i>s<sup>y</sup>ax<sup>w</sup>-</i>	293
	* <i>k'al-</i>	476
	* <i>g<sup>w</sup>ir-</i>	523
	* <i>wal-</i>	819
warm, to be	* <i>p<sup>h</sup>al<sup>y</sup>-</i>	103
	* <i>p<sup>h</sup>ek<sup>w</sup>h-</i>	124
warm, to be or become	* <i>t'ab-</i>	227
	* <i>s<sup>y</sup>ax<sup>w</sup>-</i>	293
	* <i>k<sup>h</sup>ay-</i>	451
warm, to make	* <i>t'ab-</i>	227
	* <i>k<sup>h</sup>ay-</i>	451
warm oneself, to	* <i>ʔak<sup>w</sup>h-</i>	639
warmth	* <i>p<sup>h</sup>ek<sup>w</sup>h-a</i>	124
	* <i>dul-a</i>	182
	* <i>t<sup>h</sup>ep<sup>h</sup>-a</i>	214
	* <i>t'ab-a</i>	227
	* <i>s<sup>y</sup>ax<sup>w</sup>-a</i>	293
	* <i>k<sup>h</sup>um-a</i>	464
	* <i>wal-a</i>	819
	* <i>war-a</i>	834
wash, to	* <i>ḥal-</i>	725
	* <i>law-V-ḥ-</i>	979
washed	* <i>ḥal-a</i>	725
washed, that which is	* <i>ʔal-a</i>	640
washing, the act of	* <i>ʔal-a</i>	640
	* <i>ḥal-a</i>	725
	* <i>law-ḥ-a</i>	979
waste	* <i>bad-a</i>	6
waste, to	* <i>bad-</i>	6
waste away, to	* <i>t<sup>h</sup>aḥ-</i>	195
	* <i>t<sup>y</sup>ḥum-</i>	275
	* <i>k'er-</i>	501
	* <i>wal-</i>	820
	* <i>was<sup>y</sup>-</i>	837
waste away by rubbing, to	* <i>hur-</i>	759
wasted	* <i>ʒaw-a</i>	345
	* <i>k'er-a</i>	501



English Meaning	Proto-Nostratic	Number
wasted, to become	*ʔeb-	670
wasteland	*bad-a	6
wasting away	*wasʷ-a	837
watch	*war-a	830
watch, to	*guw-	411
	*kʰal-	421
	*rakʼ-	989
watch out for, to	*war-	830
watch (over), to	*pʰinʷ-	128
watch over, to	*man-	887
watchfulness	*rakʼ- <i>a</i>	989
watchman	*war-a	830
	*man-a	887
water	*ham-a	709
	*yam-a	803
	*wetʼ- <i>a</i>	848
	*maw-a	907
water, (flowing or running)	*haph <sup>h</sup> - <i>a</i>	736
water, running	*waʒ-a	843
water, to	*law- <i>V-h-</i>	979
watercourse	*Gal-a	569
waterfowl	*gaŋ-a	379
wattle	*Gub-a	582
wave	*weʷ-a	847
way (= method)	*har-a	737
way (= path)	*kʷal-a	548
	*qʰad-a	583
	*ʔiy-a	688
	*mar-a	897
way, winding	*dar-a	162
we	*wa- (~ *wə-)	808
	*ma (~ *mə)	910
	*na (~ *nə)	931
weak	*bul-a	74
	*dalʷ-a	160
	*gin-a or *gin-a	396
	*xal-a	786
	*mel-a	908
	*nusʷ-a	952
	*lam-a ~ (?) *ʋam-a	972
weak, that which is	*bul-a	74
weak, to be	*ʋʰum-	275
	*gin- or *gin-	396

English Meaning	Proto-Nostratic	Number
	* <i>ʔek'</i> -	672
	* <i>wal</i> -	820
	* <i>nus<sup>y</sup></i> -	952
weak, to become	* <i>bul</i> -	74
	* <i>ʔ<sup>h</sup>um</i> -	275
	* <i>ʔeb</i> -	670
	* <i>mel</i> -	908
	* <i>mol</i> -	917
weak, to be or become	* <i>lam</i> - ~ (?) * <i>ʔam</i> -	972
weak, to grow	* <i>dow</i> -, * <i>doy</i> -	179
weaken, to	* <i>bad</i> -	9
	* <i>bul</i> -	74
	* <i>dal<sup>y</sup></i> -	160
	* <i>xal</i> -	786
	* <i>lam</i> - ~ (?) * <i>ʔam</i> -	972
weakened	* <i>p<sup>h</sup>ul-a</i>	135
	* <i>ʔeb-a</i>	670
	* <i>mur-a</i>	924
weakened, to be	* <i>xal</i> -	786
	* <i>mar<sup>y</sup></i> -	902
	* <i>nus<sup>y</sup></i> -	952
weakness	* <i>bul-a</i>	74
	* <i>dal<sup>y</sup>-a</i>	160
	* <i>ʔeb-a</i>	670
	* <i>xal-a</i>	786
	* <i>wal-a</i>	820
	* <i>mel-a</i>	908
	* <i>nus<sup>y</sup>-a</i>	952
	* <i>lam-a</i> ~ (?) * <i>ʔam-a</i>	972
wealth	* <i>c'al-a</i> or * <i>č'al-a</i>	320
	* <i>ḥap<sup>h</sup>-a</i>	735
	* <i>rɪy-a</i>	994
wealthy, to be	* <i>c'al-</i> or * <i>č'al-</i>	320
weapon	* <i>ʒer-a</i> or * <i>žer-a</i>	309
	* <i>wed-a</i>	844
wear (= abrasion)	* <i>bul-a</i>	74
	* <i>t<sup>h</sup>aḥ-a</i>	195
	* <i>t<sup>h</sup>ar-a</i>	207
wear away, to	* <i>t<sup>h</sup>aḥ-</i>	195
wear away by rubbing, to	* <i>hur-</i>	759
wear down, to	* <i>bul-</i>	74
	* <i>t<sup>h</sup>ar-</i>	207
	* <i>xal-</i>	786

English Meaning	Proto-Nostratic	Number
wear out, to	* <i>ʒaw-</i>	345
	* <i>k'er-</i>	501
	* <i>xal-</i>	786
	* <i>wal-</i>	820
	* <i>was<sup>y</sup>-</i>	837
	* <i>mel-</i>	908
wearied (from straining, laboring), to become	* <i>mol-</i>	917
	* <i>k'ac<sup>h</sup>-</i>	468
weariness	* <i>dal<sup>y</sup>-a</i>	160
	* <i>dow-a, *doy-a</i>	179
	* <i>t<sup>h</sup>an<sup>y</sup>-a</i>	202
	* <i>p<sup>h</sup>um-a</i>	275
	* <i>xal-a</i>	786
	* <i>was<sup>y</sup>-a</i>	836
weary	* <i>dal<sup>y</sup>-a</i>	160
	* <i>dow-a, *doy-a</i>	179
	* <i>t<sup>h</sup>an<sup>y</sup>-a</i>	202
	* <i>xal-a</i>	786
	* <i>mel-a</i>	908
	* <i>p<sup>h</sup>um-</i>	275
weary, to	* <i>p<sup>h</sup>um-</i>	275
weary, to be	* <i>was<sup>y</sup>-</i>	836
weary, to be or become	* <i>p<sup>h</sup>um-</i>	275
weary, to become	* <i>mel-</i>	908
	* <i>mol-</i>	917
	* <i>dow-, *doy-</i>	179
	* <i>t<sup>h</sup>an<sup>y</sup>-</i>	202
weary, to grow	* <i>t'an-</i>	237
	* <i>k<sup>h</sup>ath-</i>	444
	* <i>haw-</i>	748
	* <i>net<sup>y</sup>-</i>	948
weaving	* <i>for<sup>y</sup>-a</i>	763
	* <i>net<sup>y</sup>-a</i>	929
weaving, the act of	* <i>haw-a</i>	748
web	* <i>net<sup>y</sup>-a</i>	948
wedge	* <i>t'ul<sup>y</sup>-a</i>	255
weep, to	* <i>k'um-</i>	512
weighed down, to be	* <i>hag-</i>	719
weight	* <i>k'wur<sup>y</sup>-a</i>	566
weighty	* <i>k'wur<sup>y</sup>-a</i>	566
weighty, to be	* <i>k'wur<sup>y</sup>-</i>	566
welfare	* <i>s<sup>y</sup>ol-a</i>	299

English Meaning	Proto-Nostratic	Number
well	*sʷol-a	299
well, to be	*sʷol-	299
	*sʷuw-	303
well, to do	*cʰal- or *čʰal-	320
well up, to	*bal-	21
	*ʔib-	680
	*welʷ-	847
wet	*suw-a	361
	*suw-l-a	361
	*wal-a	818
	*matʰ-a	906
	*natʰ-a	946
wet, to	*tʰalʷ-	234
	*wal-	818
	*wetʰ-	848
	*natʰ-	946
	*lah̄-	965
	*rekʰ-	993
wet, to be	*suw-	361
	*suw-V-l-	361
	*maw-	907
wet, to be or become	*matʰ-	906
wet, to make	*suw-	361
	*suw-V-l-	361
wetness	*wal-a	818
	*matʰ-a	906
	*natʰ-a	946
	*lah̄-a	965
what [relative pronoun stem]	*ʔay-, *ʔya-	663
	*ma- (~ *mə-)	909
what? [interrogative pronoun stem]	*ʔay-, *ʔya-	663
	*mi- (~ *me-)	909
what?, to do	*ʔay-	663
what manner?, to act in	*ʔay-	663
when	*kʰhay-	538
whet, to	*ʒag-	306
which [relative pronoun stem]	*ʔay-, *ʔya-	663
	*ma- (~ *mə-)	909
which? [interrogative pronoun stem]	*ʔay-, *ʔya-	663
	*mi- (~ *me-)	909
whirl	*bur-a	81
whirl, to	*bur-	81
	*mar-	886

English Meaning	Proto-Nostratic	Number
whisper	*k <sup>w</sup> as-a	559
whisper, to	*k <sup>w</sup> as-	559
white	*wal <sup>y</sup> -a	822
whiteness	*wal <sup>y</sup> -a	822
who [relative pronoun stem]	*ʔay-, *ʔya-	663
	*ma- (~ *mǝ-)	909
who? [interrogative pronoun stem]	*ʔay-, *ʔya-	663
	*mi- (~ *me-)	909
wicked, to be	*ʔakh-	635
wickedness	*t <sup>y</sup> aw-a	285
	*ʔakh-a	635
(wide)	*t <sup>h</sup> al <sup>y</sup> -a	199
wide	*p <sup>h</sup> al-a	97
	*p <sup>h</sup> at <sup>h</sup> -a	121
	*t <sup>h</sup> an <sup>y</sup> -a	201
	*ʔut'-a	701
	*war-a	832
	*raw-ḥ-a	992
wide-open space	*ʔut'-a	701
	*ḥak'-a	722
wide, that which is	*p <sup>h</sup> al-a	87
wide, to be	*raw-V-ḥ-	992
widen, to	*ḥak'-	722
width	*p <sup>h</sup> ar-a	108
	*t <sup>h</sup> an <sup>y</sup> -a	201
	*war-a	832
wife	*k <sup>w</sup> an-a	552
	*nus <sup>y</sup> -a	953
wild	*guw-a	412
	*guw-r-a	412
wild animal	*guw-a	412
	*guw-r-a	412
wild animals, to hunt	*guw-	412
	*guw-V-r-	412
wild ass	*p <sup>h</sup> ar-a	111
wild beast	*guw-a	412
	*guw-r-a	412
wild boar	*s <sup>y</sup> aw-a	292
wild bovine	*t <sup>y</sup> om-a	274
wildfowl	*Gar <sup>y</sup> -a	575
	*Gar <sup>y</sup> -Gar <sup>y</sup> -a	575
wild goose	*Gar <sup>y</sup> -a	575
	*Gar <sup>y</sup> -Gar <sup>y</sup> -a	575

English Meaning	Proto-Nostratic	Number
wild, to be	*ʔek <sup>h</sup> -	671
	*xam-	788
	*xam-V-d-	788
wind (= breeze)	*bar-a	30
wind, to (= to twist; to turn; to bend)	*č <sup>h</sup> ok <sup>h</sup> -	350
	*k'ar-	493
	*g <sup>w</sup> ar-	522
wind around, to	*k <sup>h</sup> ar-	436
winding course or way	*dar-a	162
winding, the act of	*č <sup>h</sup> ok <sup>h</sup> -a	350
winds, that which	*dar-a	162
wing	*bur-a	85
wipe, to	*mal-	880
	*mel-	908
	*mol-	917
wiped out	*ʔeb-a	670
wiped out, to become	*ʔeb-	670
wiping, the act of	*mal-a	880
wisdom	*ħak <sup>h</sup> -a	721
wish (= desire)	*t'el-a	247
	*win-a or *wiŋ-a	851
wish for, to	*win- or *wiŋ-	851
with	*bi	50
	*ħar <sup>y</sup> -	741
	*math- or *met <sup>h</sup> -	904
wither, to	*t <sup>h</sup> ar-	208
	*ʒaʔ-	341
	*k'er-	501
	*wal-	820
	*was <sup>y</sup> -	837
wither away, to	*mar <sup>y</sup> -	902
withered	*t <sup>h</sup> ar-a	208
	*s <sup>y</sup> aw-a	290
	*c'aw-a	323
	*c'aw-l <sup>y</sup> -a	323
	*k'er-a	501
withered, to be	*s <sup>y</sup> aw-	290
withered, to be or become	*c'aw-	323
	*c'aw-V-l <sup>y</sup> -	323
withered, that which is	*c'aw-a	323
	*c'aw-l <sup>y</sup> -a	323
woe!	*way	842
woman	*k' <sup>w</sup> an-a	551

English Meaning	Proto-Nostratic	Number
	* <i>nat'-a</i>	945
	* <i>nus<sup>y</sup>-a</i>	953
woman, (older)	* <i>ʔema</i>	674
woman, old	* <i>p'ap'-a</i>	149
womb	* <i>wat<sup>y</sup>-a</i>	841
wood	* <i>mar-a</i>	901
wood of the poplar	* <i>t<sup>y</sup>ar-a</i>	282
wool	* <i>bur-a</i>	84
word	* <i>yan-a</i>	804
work	* <i>daw-a</i>	167
	* <i>k<sup>h</sup>am-a</i>	426
	* <i>k<sup>wh</sup>ir-a</i>	542
work, hard	* <i>q<sup>h</sup>ad-a</i>	583
work, to	* <i>k<sup>h</sup>am-</i>	426
worm	* <i>k<sup>wh</sup>ur-a</i>	544
worn down	* <i>mol-a</i>	917
worn down, to be	* <i>xal-</i>	786
worn out	* <i>bul-a</i>	74
	* <i>t<sup>h</sup>ar-a</i>	207
	* <i>ʒaw-a</i>	345
	* <i>k'er-a</i>	501
	* <i>xal-a</i>	786
	* <i>mel-a</i>	908
	* <i>mol-a</i>	917
worn out, that which is	* <i>bul-a</i>	74
worn out, to be	* <i>xal-</i>	786
	* <i>wal-</i>	820
worn out, to become	* <i>bul-</i>	74
	* <i>was<sup>y</sup>-</i>	836
	* <i>mel-</i>	908
	* <i>mol-</i>	917
wound	* <i>ban-a</i>	26
	* <i>t<sup>h</sup>ar-a</i>	206
	* <i>q<sup>h</sup>al-a</i>	584
	* <i>wah-a</i>	812
	* <i>wan-a</i>	828
	* <i>wed-a</i>	844
	* <i>mir-a</i>	916
	* <i>nag-a</i>	940
	* <i>nik<sup>h</sup>-a</i>	950
wound, to	* <i>dal-</i>	158
	* <i>g<sup>w</sup>an-</i>	520
	* <i>q<sup>h</sup>al-</i>	584

English Meaning	Proto-Nostratic	Number
	* <i>q</i> ' <i>wal-</i>	602
	* <i>wah-</i>	812
	* <i>waj-</i>	828
	* <i>mir-</i>	916
woven, anything	* <i>t</i> ' <i>an-a</i>	237
	* <i>net</i> ' <i>y-a</i>	948
woven, that which is	* <i>k</i> <sup><i>h</i></sup> <i>at<sup>h</sup>-a</i>	445
wrangle (over), to	* <i>bur-</i>	79
wrap, to	* <i>k</i> <sup><i>h</i></sup> <i>ad-</i>	417
	* <i>g</i> <sup><i>w</i></sup> <i>ar-</i>	522
wrap together, to	* <i>dar-</i>	162
	* <i>k</i> ' <i>ač<sup>h</sup>-</i>	469
wrap up, to	* <i>bur-</i>	83
	* <i>c</i> ' <i>ur-</i>	326
wrapped together	* <i>dar-a</i>	162
wrapped together, that which is	* <i>c</i> ' <i>ur-a</i>	326
wrapping	* <i>c</i> ' <i>ur-a</i>	326
	* <i>k</i> ' <i>ač<sup>h</sup>-a</i>	469
wrath	* <i>q</i> <sup><i>h</i></sup> <i>at<sup>h</sup>-a</i>	587
wreath	* <i>k</i> ' <i>aj-a</i>	485
wrestle, to	* <i>bur-</i>	79
wrinkle	* <i>k</i> ' <i>un-a</i>	516
wrist	* <i>gam-a</i>	377

## Y

yawn	* <i>haj-a</i>	711
yawn, to	* <i>haj-</i>	711
year	* <i>wat<sup>h</sup>-a</i>	839
yelp, to	* <i>k</i> <sup><i>h</i></sup> <i>at<sup>h</sup>-</i>	447
yelping	* <i>k</i> <sup><i>h</i></sup> <i>at<sup>h</sup>-a</i>	447
yield, to	* <i>ʔeb-</i>	670
you	* <i>thi-</i> (~ * <i>the-</i> )	215
	* <i>si-</i> (~ * <i>se-</i> )	337
	* <i>ni</i> (~ * <i>ne</i> ) and/or * <i>na</i> (~ * <i>nə</i> )	949
you [oblique]	* <i>th<sup>a</sup>-</i> (~ * <i>thə-</i> )	215
young	* <i>gin-a</i> or * <i>gin-a</i>	384
	* <i>k</i> ' <i>an-a</i>	481
	* <i>ʔax-a</i>	633
	* <i>ʔil-a</i>	800
	* <i>yaw-a</i>	805
	* <i>mag-a</i>	869
young (especially of animals)	* <i>k</i> <sup><i>h</i></sup> <i>uwan-a</i> or * <i>k</i> <sup><i>h</i></sup> <i>un-a</i>	466



English Meaning	Proto-Nostratic	Number
young (of humans and animals)	* <i>man-a</i>	884
young, to be	* <i>gin-</i> or * <i>gin-</i>	396
	* <i>ʔax-</i>	633
young, to produce	* <i>yaw-</i>	805
young dog	* <i>k<sup>h</sup>uwan-a</i> or * <i>k<sup>h</sup>un-a</i>	466
young goat	* <i>gad-a</i>	368
(young) man	* <i>mar-a</i>	895
young man	* <i>ʔax-a</i>	633
	* <i>n<sup>v</sup>aʃ-r-a</i>	957
young of an animal	* <i>p<sup>h</sup>il<sup>v</sup>-a</i>	127
	* <i>ʃig-a</i>	777
young one	* <i>gin-a</i> or * <i>gin-a</i>	396
	* <i>n<sup>v</sup>ap<sup>h</sup>-a</i>	959
young person	* <i>γil-a</i>	800
	* <i>yaw-a</i>	805
	* <i>mag-a</i>	869
younger brother	* <i>bin-a</i> , * <i>ban-a</i>	52
	* <i>ʔax-a</i>	633
younger daughter	* <i>bin-a</i> , * <i>ban-a</i>	52
younger relative	* <i>bin-a</i> , * <i>ban-a</i>	52
younger relative (male or female)	* <i>ʔina</i> or * <i>ʔiŋa</i>	685
younger sister	* <i>bin-a</i> , * <i>ban-a</i>	52
younger son	* <i>bin-a</i> , * <i>ban-a</i>	52
youth	* <i>p<sup>h</sup>il<sup>v</sup>-a</i>	127
	* <i>gin-a</i> or * <i>gin-a</i>	396
	* <i>ʔax-a</i>	633
	* <i>γil-a</i>	800
	* <i>yaw-a</i>	805
	* <i>n<sup>v</sup>aʃ-r-a</i>	957
youthful, to be	* <i>ʔax-</i>	633
987		