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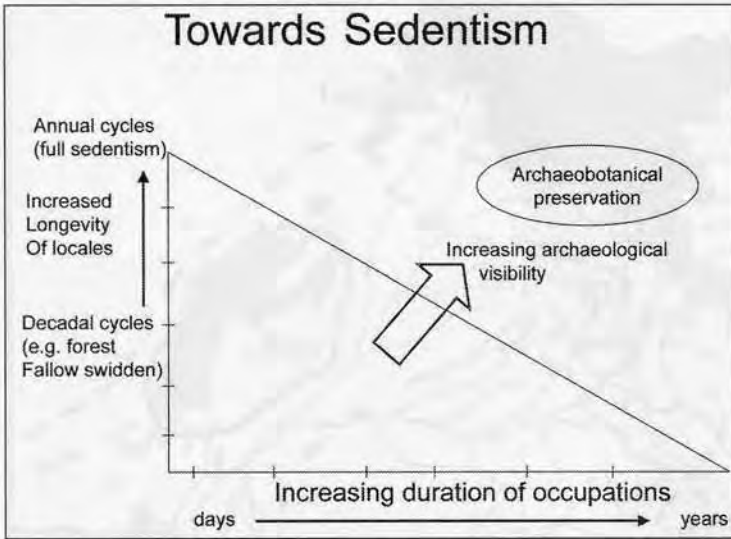


Figure 1. A diagrammatic representation of the mobility/sedentism spectrum, mapped along two variability, longevity of locales (up to permanence over generations) and duration of individual occupations (i.e. up to full years). Archaeological visibility and archaeobotanical preservation increases towards to top right.

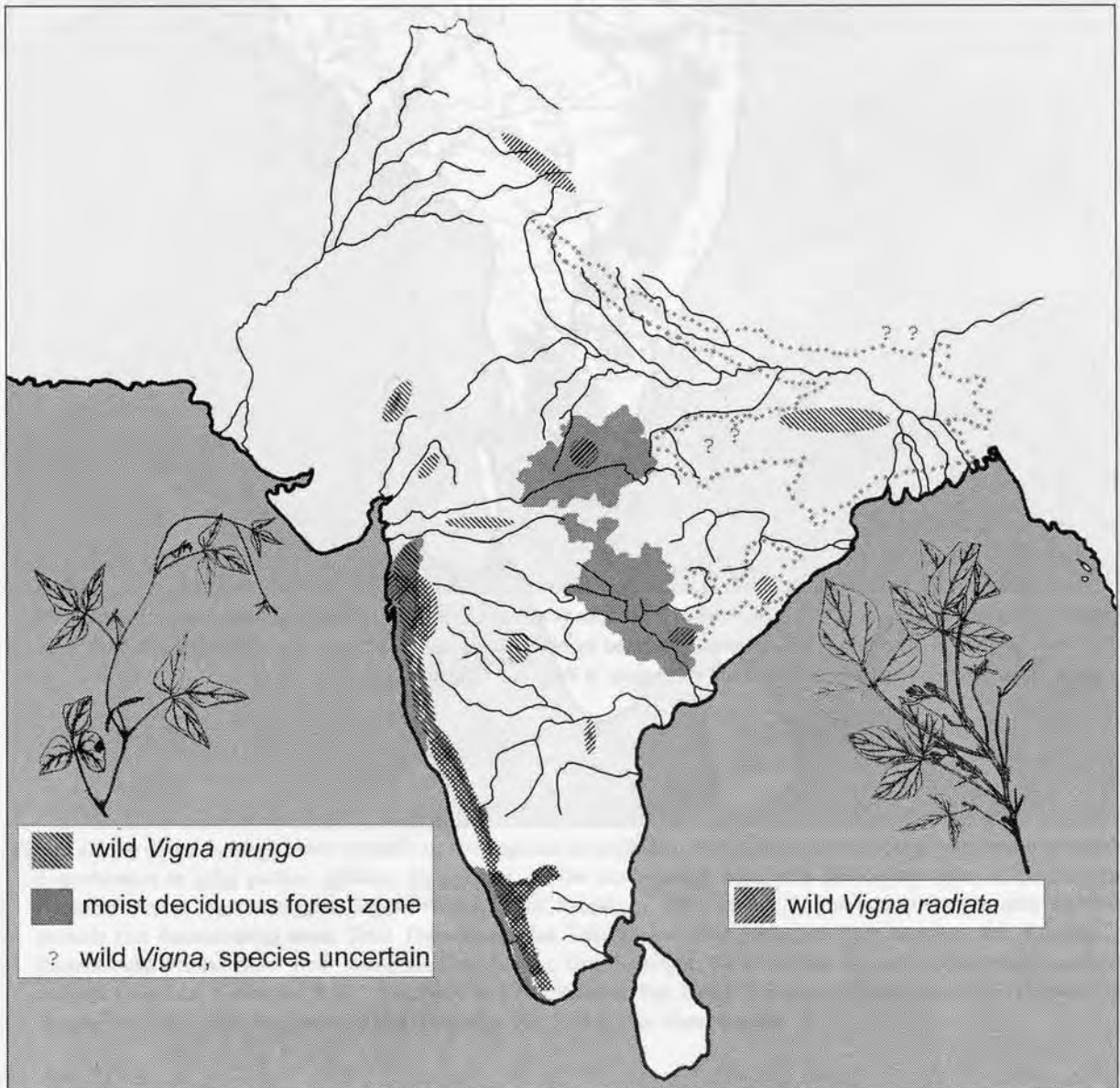


Figure 2. Map of current best guess on distribution of wild progenitors of mung and urd, based on the author's study of herbarium collections in Pune and Calcutta (December 2004).

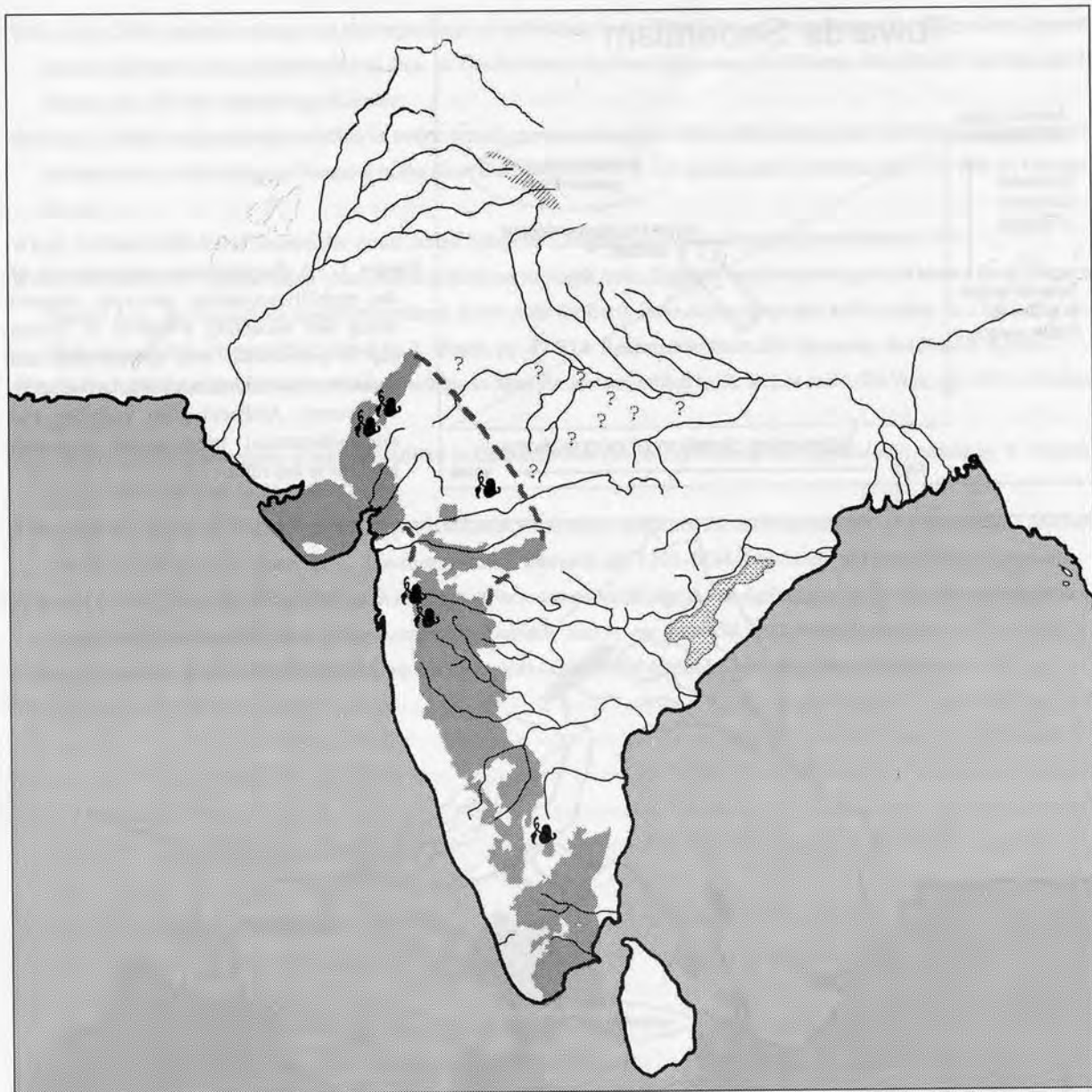


Figure 3. Map of distribution of wild progenitor of pigeonpea (*Cajanus cajanifolia*) spotted area (after van der Maeson 1986), and best guess wild distribution of horsegram, indicated by black leaves and inferred to extend through savannah zone (in grey), based on the author's study of herbarium collections in Pune and Calcutta (December 2004).

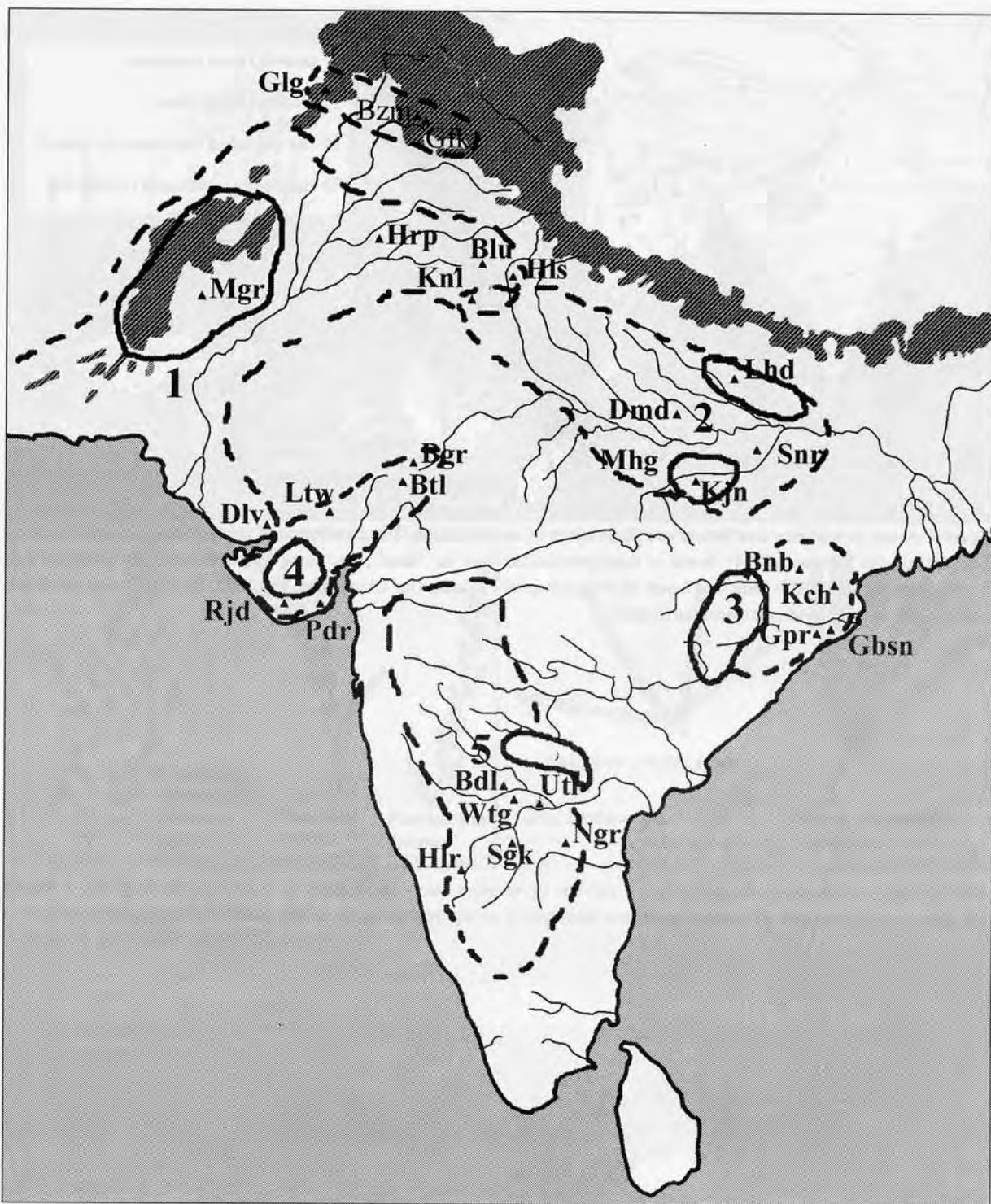


Figure 4. Map of the five major early agricultural development in South Asia dashed zones with probable core areas of plausible domestication in solid outline; selected sites plotted. 1. The northwestern zone, with the disjunct area of the Northern Neolithic shown: Mgr. Mehrgarh, Glg. Ghaleghay, Bzm. Burzahom, Gfk. Gufkral. 2. The middle Ganges zone with two possible rice domestication areas: Dmd. Damadama, Lhd. Lahuradewa, Mhg. Mahagara, Kjn. Kunjhun, Snr. Senuwar. 3. Eastern India/Orissan zone: Bnb. Banabasa, Kch. Kuchai, Gpr. Gopalpur, Gbsn. Golabai Sassan. 4. Gujarat and southern Aravalli zone: Ltw. Loteshwar, Rjd. Rojdi, Pdr. Padri, Btl. Balathal, Bgr. Bagor. 5. Southern Indian zone: Bdl. Budihal, Wtg. Watgal, Utr. Utnur, Sgk. Sanganakallu and Hiregudda, Hlr. Hallur, Ngr. Nagarajupalle

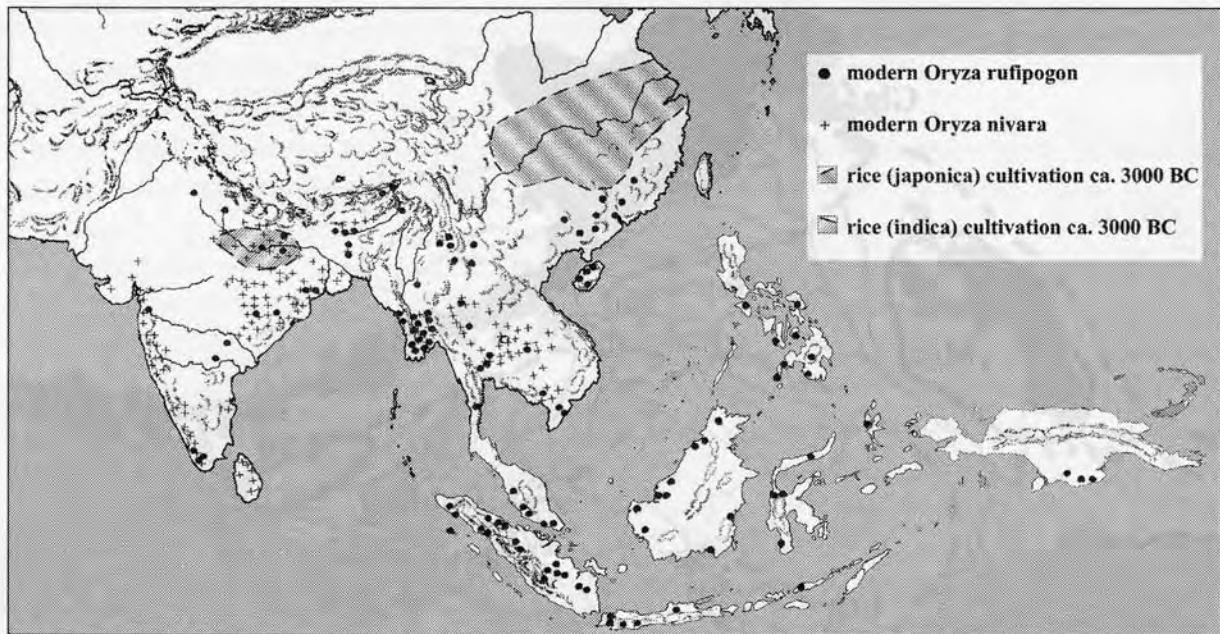


Figure 5. A map of wild rice distribution and likely zones of domestication. The distribution of the two wild progenitors of rice is plotted after Vaughan (1994). Some of these populations may be ‘feral’, e.g. along Malabar coast. The extent of rice cultivation ca. 3000 BC is indicated based on archaeological evidence (for China, after Yan 2002; for India, based on Fuller 2002, with updated evidence discussed in text).

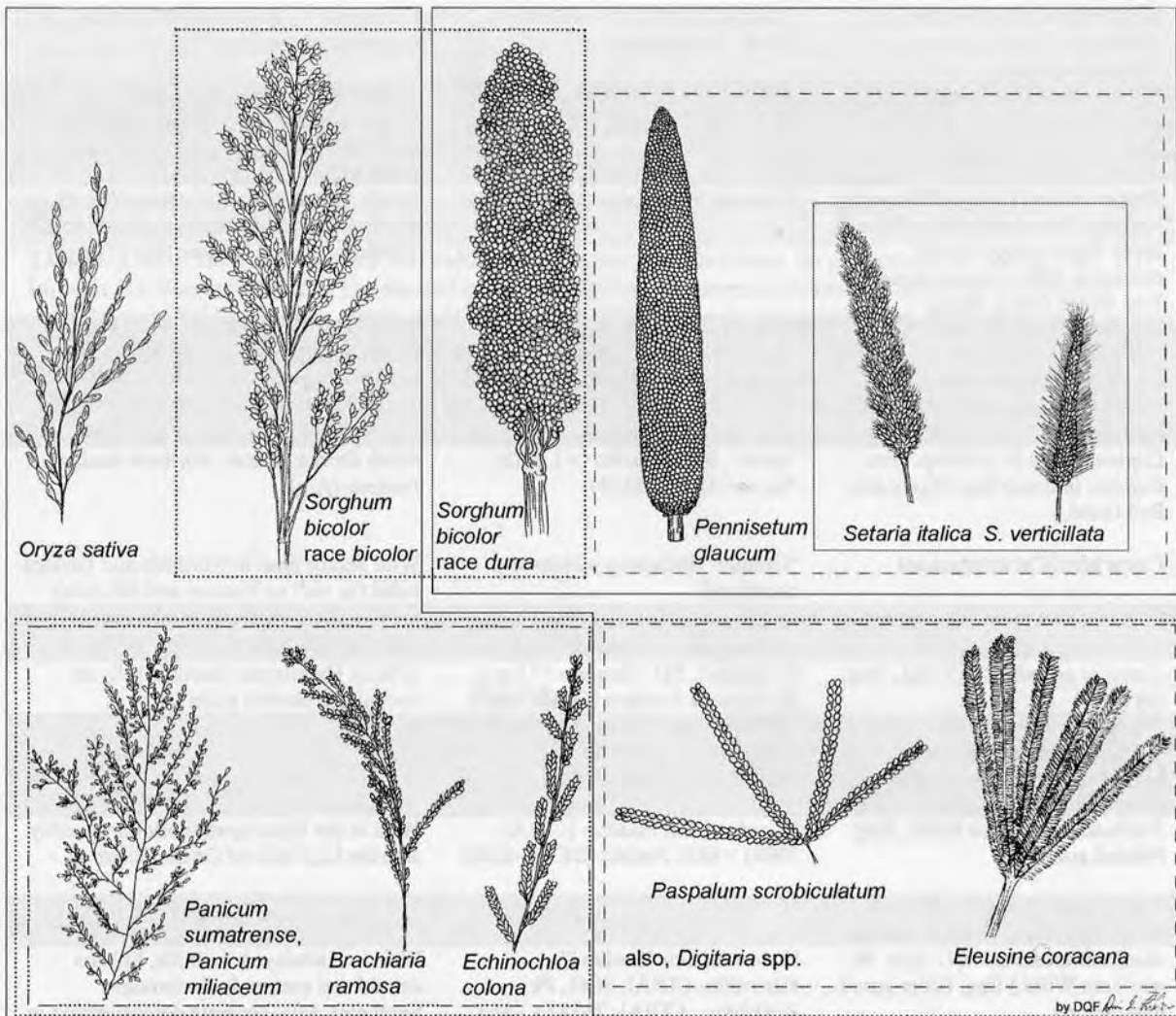


Figure 6. An 'isomorphism' chart for major South Asian millet crops and rice. Lines of various types group cereals that have similar morphological attributes that might make them prone to linguistic confusion, association (semantic broadening) and semantic shift. Drawings by the author.

Scientific name (with common synonyms), English name	Selected linguistics, especially Hindi, Indo-Aryan	Comments on geography of origins (reported archaeology?)
Pulses (Fabaceae)		
<i>Vigna mungo</i> (L.) Hepper Eng. Black Gram	H. Urd, * <i>udidda</i> (< Lang. X?; also cf. L. PDr, * <i>uz-untu</i> , DEDR 690)	South Asia – northern extent of wild progenitor at Mt. Abu (Rajasthan), but could include South Vindhya(?) and Bihar hills (?) (Arc)
<i>Vigna radiata</i> (L.) (syn. <i>Phaseolus radiatus</i>) [some authors mistakenly apply <i>Vigna mungo</i> due to confusion with common name] Eng. Green Gram, Mung	H. <i>mung</i> , Skt. <i>mudga</i> (< Lang. X)	South Asia – especially peninsula and western Himalaya foothills, could include Vindhya (?) and Orissan hills (?) (Arc)
<i>Macrotyloma uniflorum</i> (Lam.) Verdecourt. (syn. <i>Dolichos uniflorus</i> Lam., more often, mistakenly, <i>Dolichos biflorus</i> auct. pl.) Eng. Horsegram	<i>Kulthi</i> , OIA <i>kulathika</i> , (<L. PDR * <i>kol</i> DEDR 2153, >Pmunda * <i>kodaXj</i>)	South Asia: savannahs or dry deciduous woodlands (more towards Western India?) (Arc)
<i>Cajanus cajan</i> (L.) Millsp. (syn. <i>Cajanus indicus</i>) Eng. Pigeonpea, Red Gram,	" <i>tuvar</i> ", Skt. <i>tubarika</i> (< L. PDr. * <i>tu-var</i> - DEDR 3353)	South Orissa, Bastar, Northern Andhra Pradesh (Arc)
Cucurbits (Cucurbitaceae)	"Gourds" (including melons and cucumbers)	Wild and/or feral in Northern and Eastern India (as well as Yunnan and SE Asia)
<i>Cucumis sativus</i> L. Eng. cucumber	H. <i>khīrā</i> (CDIAL 3697) (< Lang. X). Munda <i>tayar</i> (Osada 1995)	Wild in the Himalayan foothills, possibly also the high hills of Orissa, Bihar
<i>Coccinia grandis</i> (L.) Voigt., Eng. Ivy gourd	H. <i>kunduri</i> , Skt. <i>Kunduru</i> (< Lang. X) >Munda <i>kunduru</i> (Osada 1995)	Wild in Himalayan foothills, hills on central and eastern India (Arc)
<i>Trichosanthes anguina</i> L., syn. <i>Trichosanthes cucumerina</i> Linnaeus var. <i>anguina</i> (Linnaeus) Haines, Eng. Snake gourd	H. "chachinda", <i>cicinda</i> (CDIAL 4788), Skt. "chachinda" Munda <i>kaeta</i> (Osada 1995)	"
<i>Trichosanthes dioica</i> Roxb., Eng. Pointed gourd	H. <i>palwal</i> , Pk. <i>Padōla</i> - (CDIAL 7698) > SDr. <i>Padala</i> (DEDR 4250)	Wild in the Himalayan foothills, possibly also the high hills of Orissa, Bihar
<i>Praecitrullus fistulosus</i> (Sticks) Pang., Eng. Indian squash melon	H. "tinda"	"
<i>Momordica charantia</i> L. (syn. <i>M. muricata</i> Willd.) Eng. Bitter gourd, bitter melon	H. <i>karela</i> , Skt. "Sushavi", <i>Kāravēlla</i> - CDIAL 3061, Pk. <i>Kakkōda</i> - CDIAL 2825 (< Lang. X) >Munda <i>karla</i> (Osada 1995) >Tel. <i>Kakara</i> DEDR 1427	Wild in Himalayan foothills, hills on central and eastern India through Southeast Asia, separate domestication in Yunnan, China (Marr et al. 2004)
<i>Momordica dioeca</i> Roxb. Ex Willd., Eng. Small bitter gourd	H. "kaksa, golkandra, jangli karela", Skt. "vahisi"	"
<i>Momordica balsamina</i> L., Eng. Balsam apple	H. "mokha"	"
<i>Luffa cylindrica</i> (L.) M. J. Roem. (syn. <i>Luffa aegyptiaca</i> Mill., <i>Bryonia cheirophylla</i> Wall., <i>Momordica luffa</i> L.) Eng. Sponge gourd, loofah	H. "ghiya tori, purula", Skt. "rājakoshātaki, dirgha patolika", see below. Munda <i>doro</i> (Osada 1995) [from cf. * <i>tori</i> , below]	Domesticated in Yunnan, also plausibly wild/domesticated in Himalayas(?) (Marr et al. 2005a)
<i>Luffa acutangula</i> (L.) Roxb. (syn. <i>Cucumis acutangulus</i> Wall., <i>Momordica tubiflora</i> Wall.) Eng. Ridged gourd, angled loofah	H. "torai, kali tori, jhinga tori", Skt. "Jhongaka, koshataki", OIA * <i>tori</i> (< Lang. X). Munda <i>jinga</i> (Osada 1995)	Wild in Himalayan foothills, hills on central and eastern India, in South India by 1500 BC (Arc) (Marr et al. 2005b; Fuller et al. 2004)
<i>Melothria heterophylla</i> (Lour.) Cogn (syn. <i>Zehneria umbellata</i> Thw., <i>Momordica umbellata</i> Roxb.,) Eng. mouse cucumber, little cucumber	H. "tarali" (Ambasta et al. 1986), H. "Amantimul, kundri" (Maheshwari and Singh 1965), Beng. "kudari" (Watt); Santal "at" (Watt); Tel. "tid-danda" (Watt); Mah. "gametta, gometti" (Watt);	Wild throughout India and Southeast Asia. Not cultivated(?), but eaten.

Other

<i>Abelmoschus tuberculatus</i> Pal and Singh. Eng. Wild okra	? Skt. <i>Bhinda</i> , H. <i>bhinī</i> (CDIAL 9492)	One of the likely genome donors of domestic okra (<i>Abelmoschus esculentus</i>). Wild in Uttar Pradesh
<i>Abelmoschus ficulneus</i> (L.) Wight & Arnot. Eng. Wild okra	H. "ran bhendi, jangli bhendi", ? Skt. <i>Bhinda</i>	One of the likely genome donors of domestic okra (<i>Abelmoschus esculentus</i>). Wild in northwest through Deccan
<i>Abelmoschus moschatus</i> Moench.. Eng. Musk mallow	H. "muskdana", Skt. "latakasturikam"	Eastern India through Burma

Table 1. List of field crop species, excluding cereals, that are candidates for domestication in Gangetic India or Himilayan foothills. The second column includes comments on historical linguistics, including entries from CDIAL (Turner 1966), and if available Old Indo-Aryan reconstructions (*) from Masica (1979), which in most cases can be suggested to derive from Masica's 'Language X' (cf. Fuller 2003d), or Witzel's Para-Munda (Witzel 1999; 2005); additional names reported from botanical sources (Watt 1889-1893; Maheshwari and Singh 1965; Ambasta et al 1986) Third column includes comments on the geography of origins. Those species with archaeological records are indicated by Arc.

<i>Oryza sativa</i> (rice)	大米 (Da Mi)	'big <i>mi</i> '. The basic <i>mi</i> = rice.
<i>Setaria italica</i> (common foxtail millet)	小米(Xiao mi)	'little <i>mi</i> '
<i>Panicum miliaceum</i> (broomcorn millet, hog millet)	黄米 (Huang mi)	'yellow <i>mi</i> ' [sticky varieties]
<i>Zea mays</i> (maize)	玉米 (Yu mi) [Northern China, standard]	'jade <i>mi</i> '
<i>Sorghum bicolor</i> (Sorghum)	高粱 (Gao liang)	'tall <i>liang</i> ' original <i>liang</i> prob. <i>Setaria</i> , known from Oracle bone (Chang 1983)
<i>Triticum aestivum</i> (bread wheat)	小麦 (Xiao mai)	'small <i>mai</i> ' Original <i>mai</i> probably wheat
<i>Hordeum vulgare</i> (barley)	大麦 (Da mai)	'large <i>mai</i> '
<i>Secale cereale</i> (rye)	黑麦(Hei mai)	'black <i>mai</i> '
<i>Avena sativa</i> (oats)	燕麦 (Yan mai)	'swallow [bird] <i>mai</i> '
<i>Fagopyrum esculentum</i> (buckwheat)	荞麦 (Qiao mai)	<i>Qiao</i> specific to this crop, loanword?

Table 2. An example of linguistic classification of cereals, in modern Mandarin Chinese, that indicates the semantic overlap between millets and rice, as opposed to other cereals.

Scientific name (with common synonyms), English name	Linguistics	Comments on geography of origins (reported archaeology?)
<i>Colocasia esculenta</i> (L.) Schott. (syn. <i>C. antiquorum</i> Schott., <i>Arum colocasia</i> Willd.), Eng. Taro, cocoyam	H. "arvi, kachalu", H. <i>kaccū</i> <Skt. (CDIAL 2609), ? Pkt. Ālu--(CDIAL 1388) (see below). Oriya "saru". Munda saru (Osada 1995) DEDR 2004 N/C/S (> OIA ?)	SE Asia and probably India as well, wild a Moist Deciduous forest zones along water courses. Wild versus feral distribution poorly understood (Matthews 1995).
<i>Alocasia macrorrhiza</i> Schott (incl. <i>Alocasia indica</i> (Roxb.) Schott), Eng. Giant taro	H. "mankanda", Skt. "manaka", ? Pkt. Ālu--(CDIAL 1388) (see below)	Eastern India and/or SE Asia
<i>Amorphophallus campanulatus</i> Blume (syn. <i>Arum campanulatum</i> Roxb.), Eng. Elephant yam, elephant-ear taro	H. "zamin-kand", Beng. "ol", Pkt. Ālu--(CDIAL 1388) (>modern H. Alu, semantic shift to potato). Skt. "arsaghna, balukand" Mah./Guj. "saran" Tam. Cēnai (SDr. Only, DEDR 2022)	Eastern India and/or SE Asia, including Philippines
<i>Dioscorea alata</i> L. (syn. <i>D. purpurea</i> Roxb., <i>D. artropurpurea</i> Roxb., <i>D. globosa</i> Roxb., <i>D. rubella</i> Roxb.), Eng. Greater yam, Asiatic yam	H. "chupri-alu, khamalu" Pk. <i>Pimdālu</i> (CDIAL 8173), Cf Pkt. Ālu (=Alocasia/ Colocasia ?)	Eastern India and/or SE Asia
<i>Dioscorea bulbifera</i> L. (syn. <i>D. crispata</i> Roxb., <i>D. puchella</i> Roxb., <i>D. sativa</i> Thunb., <i>D. versicolor</i> Buch.-Ham. Ex Wall.) eng. Aerial yam, potato yam	H. "ratalu, suaralu, pitaalu" Skt. <i>raktālu</i> (CDIAL 10543). Cf Pkt. Pkt. Ālu (=Alocasia/ Colocasia ?). Sant. "piska"	S. and SE Asia, wild/ feral throughout moister zones
<i>Dioscorea esculenta</i> Burkill (syn. <i>D. aculeata</i> L., <i>D. fasciculata</i> Roxb.) Eng. Lesser Yam, Karen potato	Beng. "Suthni, su-ni-alu" Tam. Kīraṅku (SDr. Only DEDR 1578)	SE Asia

Table 3. The major tuber crops of South/Southeast Asia. The second column includes comments on historical linguistics, including entries from Turner 1966 (CDIAL), Burrow and Emeneau 1984 (DEDR), and if available; additional names reported from botanical sources included in quotation marks (after Watt 1889-1893; Maheshwari and Singh 1965; Ambasta et al 1986). Third column includes comments on geography of origins.