EXPLANATION OF MAP SYMBOLS

All names of language isolates are written on the map. Otherwise the colors and their associated Arabic numbers on the map are cross-referenced to the phylum boxes and to the marginal lists.

Three kinds of information are introduced in the marginal lists—the agreed upon labels for the nine phyla; the language names (in caps and lower case) under the language family names (in caps); and the language isolates which have the paradoxical status of being at the same time separate languages (hence, in caps and lower case) and linguistic coordinates of language families (hence, indexed like language families—by the Roman numeral for the phylum in which they occur, followed by a lower case letter). Hyphenated names for separate languages give tribal and dialect identifications.

National boundaries are shown by line-dash-dash (— — — — —); state boundaries by line-dash-line (— — — —); numbers surrounded by circles or three, four, or six sided enclosures, or both circle and triangle, or nothing, distinguish members of the same family from members of other language families in the same phylum. A few names possibly not separate languages are included in the marginal lists with following asterisk, but not located on the map. The languages of the long uncolored area, running as a corridor through central Mexico, remain unclassified; tribal names in this uncolored area and in lower Baja California are given by Driver *et al.* but the languages of these areas are not mapped because language barriers have not yet been identified.

The colored boxes surrounding the map have colors corresponding to the distribution of phyla on the map, but the information within each box is restricted to Roman numeral index for the phylum and to names of language families in each phylum, and to Arabic numeral index for cross reference to location of languages in each family where language barriers within the family are fairly well known (and where they are not, the language family name is followed by Roman numeral and lower case letter for cross-reference to the location of the family in question). The maximum number of families (thirteen) is found in phylum VI, but these are shown in two boxes—nine families north of Mexico in box VI to the left of the map, and four families located in Latin America in box VI placed to the right of the map, opposite Mexico. Single boxes serve for the remaining phyla—ten families in phylum box V, six families in phylum box IX, four families in uncolored box VIII (uncolored because these four families have their phylum affiliations still undetermined), three families in phylum box IV, two families in each of the boxes cross-referencing to phyla I, III, and VII, not to mention phylum X (because the two families included in box X are those located in North America; the many other families belonging to phylum X are distributed in South America), and finally one family in phylum box II (but this single language family is related to two language isolates).

AMERICAN ARCTIC-PALEOSIBERIAN PHYLUM I

- Ia ESKIMO-ALEUT FAMILY
  - 1 Central-Greenlandic Eskimo (Trans-arctic Eskimo)
  - 2 Alaskan Eskimo (Kuskokwim Eskimo)
  - 3 Eastern Aleut (Unalaskan)
  - 4 Western Aleut (Atkan, Attuan)
- Ib CHUKCHI-KAMCHATKAN FAMILY (in Siberia)

NA-DENE PHYLUM II

- IIa ATHAPASCAN FAMILY
  - 1 Dogrib-Bear Lake-Hare
  - 2 Chipewyan-Slave-Yellowknife
  - 3 Kutchin
  - 4 Tanana-Koyukon-Han-Tutchone
  - 5 Sekani-Beaver-Sarsi
  - 6 Carrier-Chilcotin
  - 7 Tahltan-Kaska
  - 8 Tanaina-Ingalik-Nabesna-Ahtena
  - 9 Eyak
  - 10 Chasta Costa-Galice-Tututni
  - 11 Hupa
  - 12 Kato-Wailaki
  - 13 Mattole
  - 14 Tolowa
  - 15 Navaho
  - 16 San Carlos Apache
  - 17 Chiricahua-Mescalero Apache
  - 18 Jicarilla
  - 19 Lipan
  - 20 Kiowa Apache
- IIb Tlingit Language Isolate
- IIc Haida Language Isolate

MACRO-ALGONQUIAN PHYLUM III

- IIIa ALGONQUIAN FAMILY
  - 1 Cree-Montagnais-Naskapi
  - 2 Menominii
  - 3 Fox-Sauk-Kickapoo
  - 4 Shawnee
  - 5 Potawatomi
  - 6 Ojibwa-Ottawa-Algonquin-Salteaux
  - 7 Delaware
  - 8 Penobscot-Abnaki
  - 9 Malecite-Passamaquoddy
  - 10 Micmac
  - 11 Blackfoot-Piegan-Blood
  - 12 Cheyenne
  - 13 Arapaho-Atsina-Nawathinehena
- IIIb Yurok Language Isolate
- IIIc Wiyot Language Isolate
- IIId MUSKOGEAN FAMILY
  - 1 Choctaw-Chickasaw
  - 2 Alabama-Koasati
  - 3 Mikasuki-Hitchiti
  - 4 Muskogee (Creek)-Seminole
- IIIe Natchez Language Isolate
- IIIf Atakapa Language Isolate
- IIIg Chitimacha Language Isolate
- IIIh Tunica Language Isolate
- IIIi Tonkawa Language Isolate

MACRO-SIOUAN PHYLUM IV

- IVa SIOUAN FAMILY
  - 1 Crow
  - 2 Hidatsa
  - 3 Winnebago
  - 4 Mandan
  - 5 Iowa-Oto
  - 6 Omaha-Osage-Ponca-Quapaw-Kansa
  - 7 Dakota
- IVb Catawba Language Isolate
- IVc IROQUOIAN FAMILY
  - 1 Seneca-Cayuga-Onondaga
  - 2 Mohawk
  - 3 Oneida
  - 4 Wyandot (Huron)
  - 5 Tuscarora
  - 6 Cherokee
- IVd CADDOAN FAMILY
  - 1 Caddo
  - 2 Wichita
  - 3 Pawnee-Arikara
- IVe Yuchi Language Isolate

HOKAN PHYLUM V

- Va YUMAN FAMILY
  - 1 Upland Yuman (Walapai-Havasupai-Yavapai)
  - 2 Up River Yuman (Mohave-Maricopa-Kavelchadom-Halchidom)-Yuma)
  - 3 Delta River Yuman (Cocopa-Kohuana-Halyikwamai)
  - 4 Southern and Baja California Yuman (Diegueño-Kamia-Akiwa'ala-Kiliwa-Nyakipa)
- Vb Seri Language Isolate
- Vc POMO FAMILY
  - 1 Coast Pomo
  - 2 Northern Pomo
  - 3 Western Clear Lake
  - 4 Southeast Clear Lake
- Vd PALAIHNIHAN FAMILY
  - 1 Achomawi
  - 2 Atsugewi
- Ve SHASTAN FAMILY
- Vf YANAN FAMILY
- Vg Chimariko Language Isolate
- Vh Washo Language Isolate
- Vi SALINAN FAMILY
- Vj Karok Language Isolate
- Vk CHUMASHAN FAMILY
- Vl COMECRUDAN FAMILY
- Vm Coahuiltecan Language Isolate
- Vn Esselen Language Isolate
- Vo Jicaque Language Isolate
- Vp TLAPANECAN FAMILY
  - 1 Tlapanec
  - 2 Subtiaba
  - 3 Maribichicoa
- Vq TEQUISTLATECAN FAMILY
  - 1 Tlaxmelula
  - 2 Mountain Tlequistlateco

PENUTIAN PHYLUM VI

- VIa YOKUTS FAMILY
  - 1 Yokuts, Foothill North
  - 2 Yokuts, Foothill South
  - 3 Yokuts, Valley
- VIb MAIDU FAMILY
  - 1 Southern Maidu
  - 2 Northwest Maidu
  - 3 Mountain Maidu
  - 4 Valley Maidu
- VIc WINTUN FAMILY
  - 1 Patwin
  - 2 Wintun
- VId MIWOK-COSTANOAN FAMILY
  - 1 Sierra Miwok
  - 2 Coast-Lake Miwok
  - 3 Costanoan
- VIe Klamath-Modoc Language Isolate
- VIf SAHAPTIN-NEZ PERCE FAMILY
  - 1 Nez Perce
  - 2 Sahaptin
- VIg Cayuse Language Isolate
- VIh Molale Language Isolate
- VII COOS FAMILY
- VIj YAKONAN FAMILY
  - 1 Alsea
  - 2 Siuslaw-Lower Umpqua
- VIk Takelma Language Isolate
- VII KALAPUYA FAMILY
  - 1 Santiam-Mackenzie
  - 2 Yoncalla
- VIm CHINOOKAN FAMILY
  - 1 Upper Chinook
  - 2 Lower Chinook
- VIn Tsimshian Language Isolate
- VIo Zuni Language Isolate
- VIp MIXE-ZOQUE (ZOQUEAN) FAMILY
  - 1 Mixe
  - 2 Zoque
  - 3 Sierra Popoluca
  - 4 Texistepec
  - 5 Sayula
  - 6 Oluta
- VIq MAYAN FAMILY
  - 1 Huastaco
  - 2 Chontal of Tabasco
  - 3 Chol
  - 4 Chorti
  - 5 Pantchuiq*
  - 6 Moiamo*
  - 7 Tzeltal
  - 8 Tzotzil
  - 9 Tojolabal
  - 10 Chuh
  - 11 Jacaltec
  - 12 Kanjobal*
  - 13 Solomec
  - 14 Motozintleco
  - 15 Mam
  - 16 Aquacateo
  - 17 Ixil
  - 18 Tacaneco*
  - 19 Tlaliman*
  - 20 Tarquil*
  - 21 Teqenqal*
  - 22 Tuhuaca*
  - 23 Coyotin*
  - 24 Quiche
  - 25 Cakchiquel
  - 26 Tzutujil
  - 27 Rabinal
  - 28 Kekchi
  - 29 Pokonchi (Pocomchi)
  - 30 Pokomam
  - 31 Maya
- VIr CHIPAYA-URU FAMILY (in Bolivia)
- VIs TOTONACAN FAMILY
  - 1 Totonac
  - 2 Tepehua
- VIt Huave Language Isolate

AZTEC-TANOAN PHYLUM VII

- VIIa KIOWA-TANOAN FAMILY
  - 1 Tiwa (Taos-Picuris)-(Isleta-Sandia)
  - 2 Tewa (San Juan-Santa Clara-San Ildefonso-Tesuque-Nambe-Hano)
  - 3 Towa (Jemez)
  - 4 Kiowa
- VIIb UTO-AZTECAN FAMILY
  - 1 Mono
  - 2 Northern Paiute (Paviotso)-Bannock-Snake
  - 3 Shoshone-Gosiute-Wind River-Panamint-Comanche
  - 4 Southern Paiute-Ute-Chemehuevi-Kawaiisu
  - 5 Hopi
  - 6 Tubatulabal
  - 7 Luiseño
  - 8 Cahuilla
  - 9 Cupeño
  - 10 Serrano
  - 11 Pima-Papago
  - 12 Pima Bajo
  - 13 Yaqui-Mayo
  - 14 Tarahumara
  - 15 Cora
  - 16 Huichol
  - 17 Tepehuan
  - 18 Nahuati
  - 19 Nahuat
  - 20 Mecayapan*
  - 21 Pipil
  - 22 Pochutla
  - 23 Temaulipeco

LANGUAGE ISOLATES AND FAMILIES WITH UNDETERMINED PHYLUM AFFILIATIONS VIII

- VIIIa Keres Language Isolate
- VIIIb YUKI FAMILY
  - 1 Yuki
  - 2 Wappo
- VIIIc Beothuk Language Isolate
- VIIId Kutenai Language Isolate
- VIIIe Karankawa Language Isolate
- VIIIf CHIMAKUAN FAMILY
  - 1 Quileute
  - 2 Chimakum
- VIIIg SALISH FAMILY
  - 1 Lillooet
  - 2 Shuswap
  - 3 Thompson
  - 4 Okanagon-Sanpoil-Coville-Lake
  - 5 Flathead-Pend d'Oreille-Kalispel-Spokan
  - 6 Coeur d'Alene
  - 7 Middle Columbia-Wenatchi
  - 8 Tillamook
  - 9 Twana
  - 10 Upper Chehalis-Cowlitz-Lower Chehalis-Quinault
  - 11 Snoqualmi-Duamish-Nisqually
  - 12 Lummi-Songish-Clallam
  - 13 Halkomelem
  - 14 Squamish
  - 15 Comox-Sishiatl
  - 16 Bella Coola
- VIIIh WAKASHAN FAMILY
  - 1 Nootka
  - 2 Nitinat
  - 3 Makah
  - 4 Kwakiutl
  - 5 Bella Bella-Heiltsuk
  - 6 Kitamat-Haisla
- VIIIi Timucua Language Isolate
- VIIIj Taraican Language Isolate

OTO-MANGUEAN PHYLUM IX

- IXa MANGUEAN (CHOROTEGAN) FAMILY
  - 1 Mangue
  - 2 Chiapaneco
- IXb OTOMIAN (OTOMI-PAME) FAMILY
  - 1 Otomi
  - 2 Matzahua
  - 3 Ocuiltec
  - 4 Mattalzinca
  - 5 Chichimeca-Jonaz
  - 6 Pame
- IXc POPOLOCAN FAMILY
  - 1 Popoloc
  - 2 Chocho
  - 3 Ixcatteco
  - 4 Mazatteco
- IXd MIXTECAN FAMILY
  - 1 Mixtec
  - 2 Trique
  - 3 Cuicatteco
  - 4 Amuzgo
- IXe CHINANTECAN FAMILY
- IXf ZAPOTECAN FAMILY
  - 1 Zapotec
  - 2 Chatino

MACRO-CHIBCHAN PHYLUM X

- Xa CHIBCHAN FAMILY
  - 1 Rama
  - 2 Guatuso
  - 3 Cuna
  - 4 Bribri
  - 5 Terraba
  - 6 Boruca
  - 7 Cabecar (Chiripo)-Conhua
  - 8 Tucurrike-Orisa
  - 9 Sueira
  - 10 Giustar
  - 11 Voto
  - 12 Guaymi
  - 13 Dorasque
- Xb MISUMALPAN FAMILY
  - 1 Miskito
  - 2 Sumo
  - 3 Matagalpa
- Xc Paya Language Isolate
- Xd Xinca Language Isolate
- Xe Lenca Language Isolate

(N.B. Additional language families in the Macro-Chibchan phylum, and additional languages in the Chibchan family, are distributed in South America.)