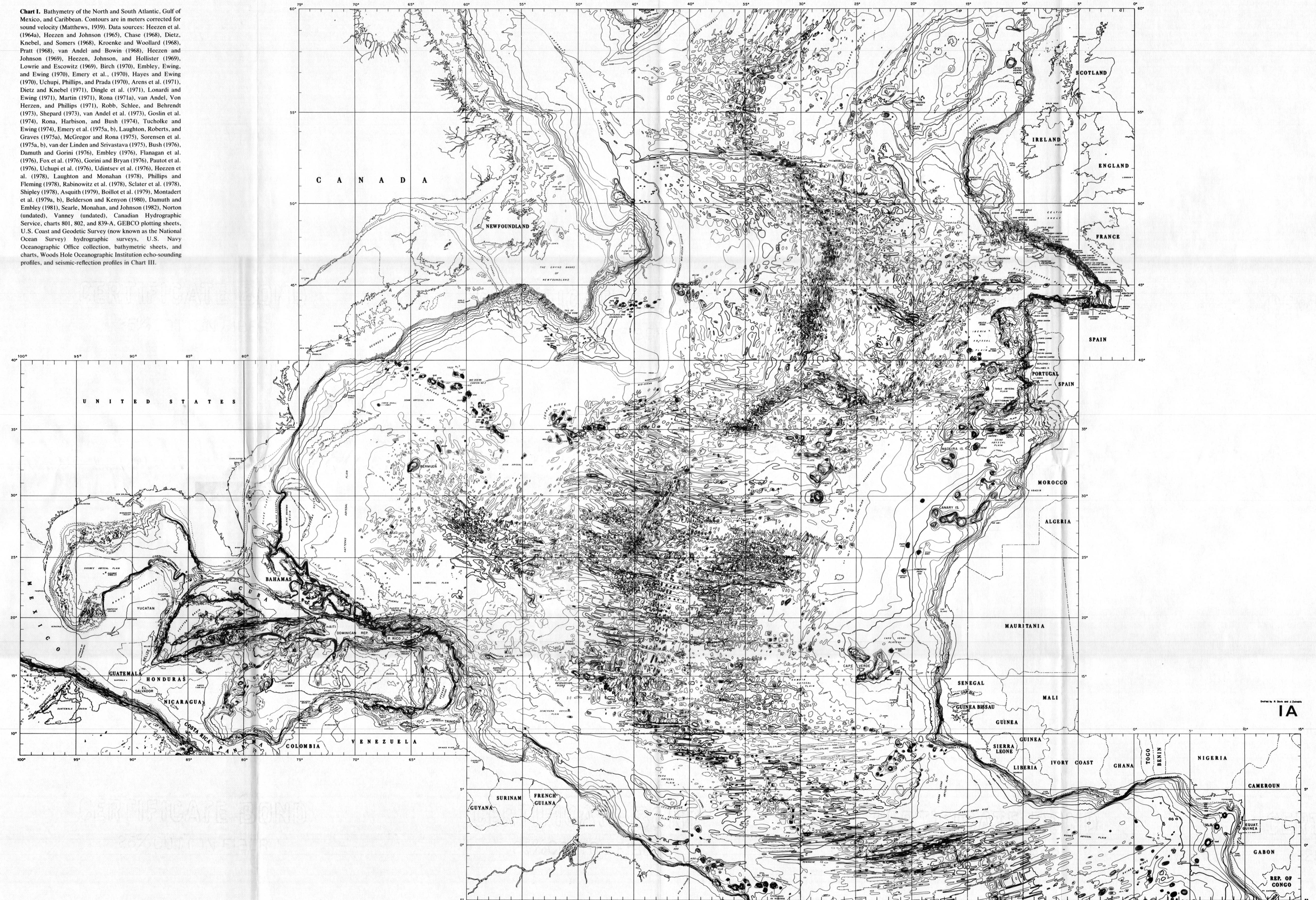
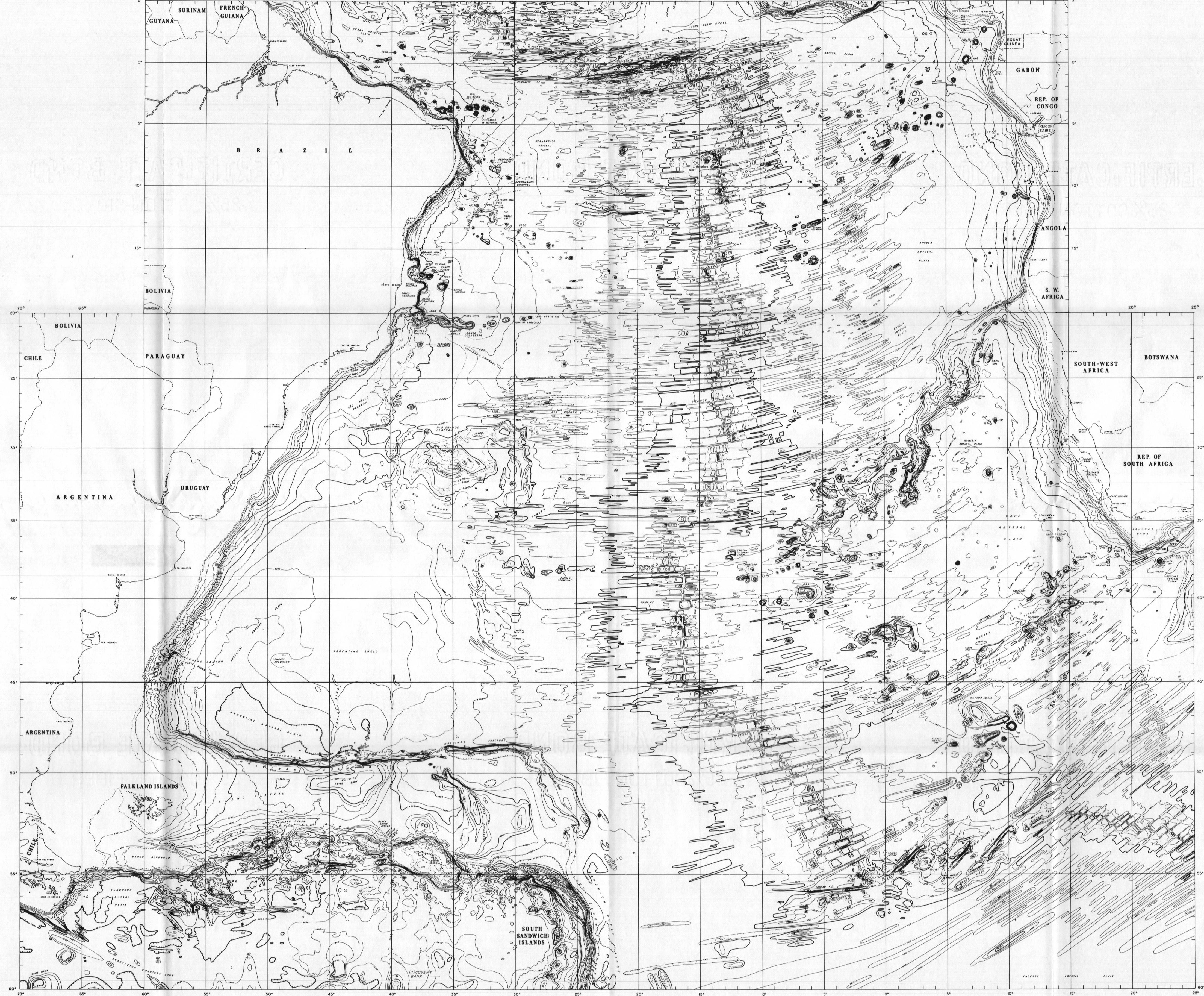
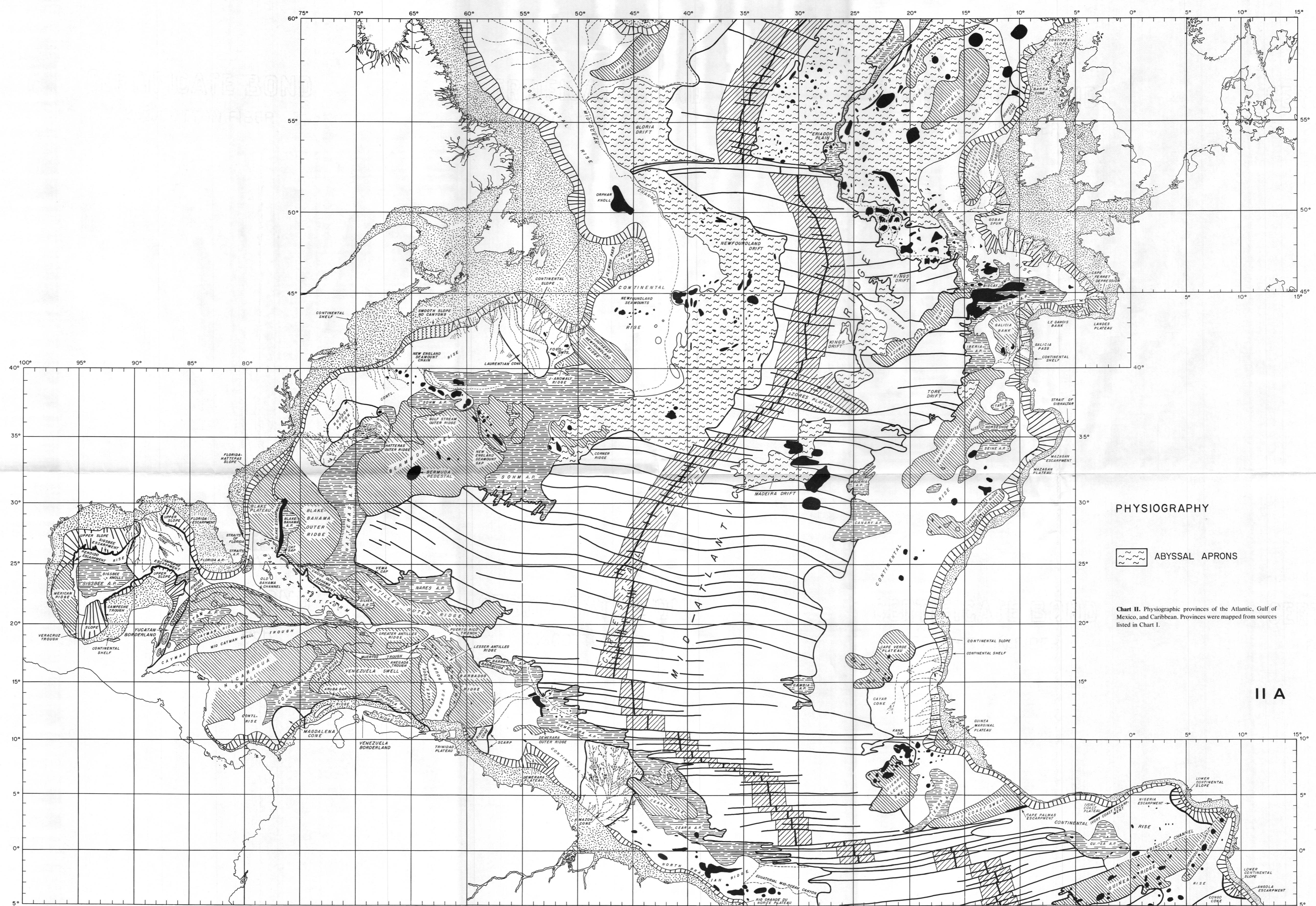


**Chart I.** Bathymetry of the North and South Atlantic, Gulf of Mexico, and Caribbean. Contours are in meters corrected for sound velocity (Matthews, 1939). Data sources: Heezen et al. (1964a), Heezen and Johnson (1965), Chase (1968), Dietz, Knebel, and Somers (1968), Kroenke and Wooldard (1968), Pratt (1968), van Andel and Bowin (1968), Heezen and Johnson (1969), Heezen, Johnson, and Hollister (1969), Lowrie and Escowitz (1969), Birch (1970), Embley, Ewing, and Ewing (1970), Emery et al. (1970), Hayes and Ewing (1970), Uchupi, Phillips, and Prada (1970), Arens et al. (1971), Dietz and Knebel (1971), Dingl et al. (1971), Lonardi and Ewing (1971), Martin (1971), Rona (1971a), van Andel, Von Herzen, and Phillips (1971), Robb, Schlee, and Behrendt (1973), Shepard (1973), van Andel et al. (1973), Goslin et al. (1974), Rona, Harbison, and Bush (1974), Tucholke and Ewing (1974), Emery et al. (1975a, b), Laughton, Roberts, and Graves (1975a), McGregor and Rona (1975), Sorenson et al. (1975a, b), van der Linden and Srivastava (1975), Bush (1976), Damuth and Gorini (1976), Embley (1976), Flanagan et al. (1976), Fox et al. (1976), Gorini and Bryan (1976), Pautot et al. (1976), Uchupi et al. (1976), Uditsev et al. (1976), Heezen et al. (1978), Laughton and Monahan (1978), Phillips and Fleming (1978), Rabinowitz et al. (1978), Sclater et al. (1978), Shipley (1978), Asquith (1979), Boillot et al. (1979), Montadert et al. (1979a, b), Belderson and Kenyon (1980), Damuth and Embley (1981), Searle, Monahan, and Johnson (1982), Norton (undated), Vanney (undated), Canadian Hydrographic Service, charts 801, 802, and 839-A, GEBCO plotting sheets, U.S. Coast and Geodetic Survey (now known as the National Ocean Survey) hydrographic surveys, U.S. Navy Oceanographic Office collection, bathymetric sheets, and charts, Woods Hole Oceanographic Institution echo-sounding profiles, and seismic-reflection profiles in Chart III.





**Chart I.** Bathymetry of the North and South Atlantic, Gulf of Mexico, and Caribbean. Contours are in meters corrected for sound velocity (Matthews, 1939). Data sources: Heezen et al. (1964a), Heezen and Johnson (1965), Chase (1968), Dietz, Knebel, and Somers (1968), Kroenke and Woillard (1968), Pratt (1968), van Andel and Bowin (1968), Heezen and Johnson (1969), Heezen, Johnson, and Hollister (1969), Lowrie and Escowitz (1969), Birch (1970), Embly, Ewing, and Ewing (1970), Emery et al. (1970), Hayes and Ewing (1970), Uchupi, Phillips, and Prada (1970), Arens et al. (1971), Dietz and Knebel (1971), Dingle et al. (1971), Lonardi and Ewing (1971), Martin (1971), Rona (1971a), van Andel, Von Herzen, and Phillips (1971), Robb, Schlee, and Behrendt (1973), Shepard (1973), van Andel et al. (1973), Goslin et al. (1974), Rona, Harbison, and Bush (1974), Tucholke and Ewing (1974), Emery et al. (1975a, b), Laughton, Roberts, and Graves (1975a), McGregor and Rona (1975), Sorensen et al. (1975a, b), van der Linden and Srivastava (1975), Bush (1976), Damuth and Gorini (1976), Embly (1976), Flanagan et al. (1976), Fox et al. (1976), Gorini and Bryan (1976), Pautot et al. (1976), Uchupi et al. (1976), Udintsev et al. (1976), Heezen et al. (1978), Laughton and Monahan (1978), Phillips and Fleming (1978), Rabinowitz et al. (1978), Schater et al. (1978), Shipley (1978), Asquith (1979), Boillot et al. (1979), Montadert et al. (1979a, b), Belderson and Kenyon (1980), Damuth and Embly (1981), Searle, Monahan, and Johnson (1982), Norton (undated), Vanney (undated), Canadian Hydrographic Service, charts 801, 802, and 839-A, GEBCO plotting sheets, U.S. Coast and Geodetic Survey (now known as the National Ocean Survey) hydrographic surveys, U.S. Navy Oceanographic Office collection, bathymetric sheets, and charts, Woods Hole Oceanographic Institution echo-sounding profiles, and seismic-reflection profiles in Chart III.



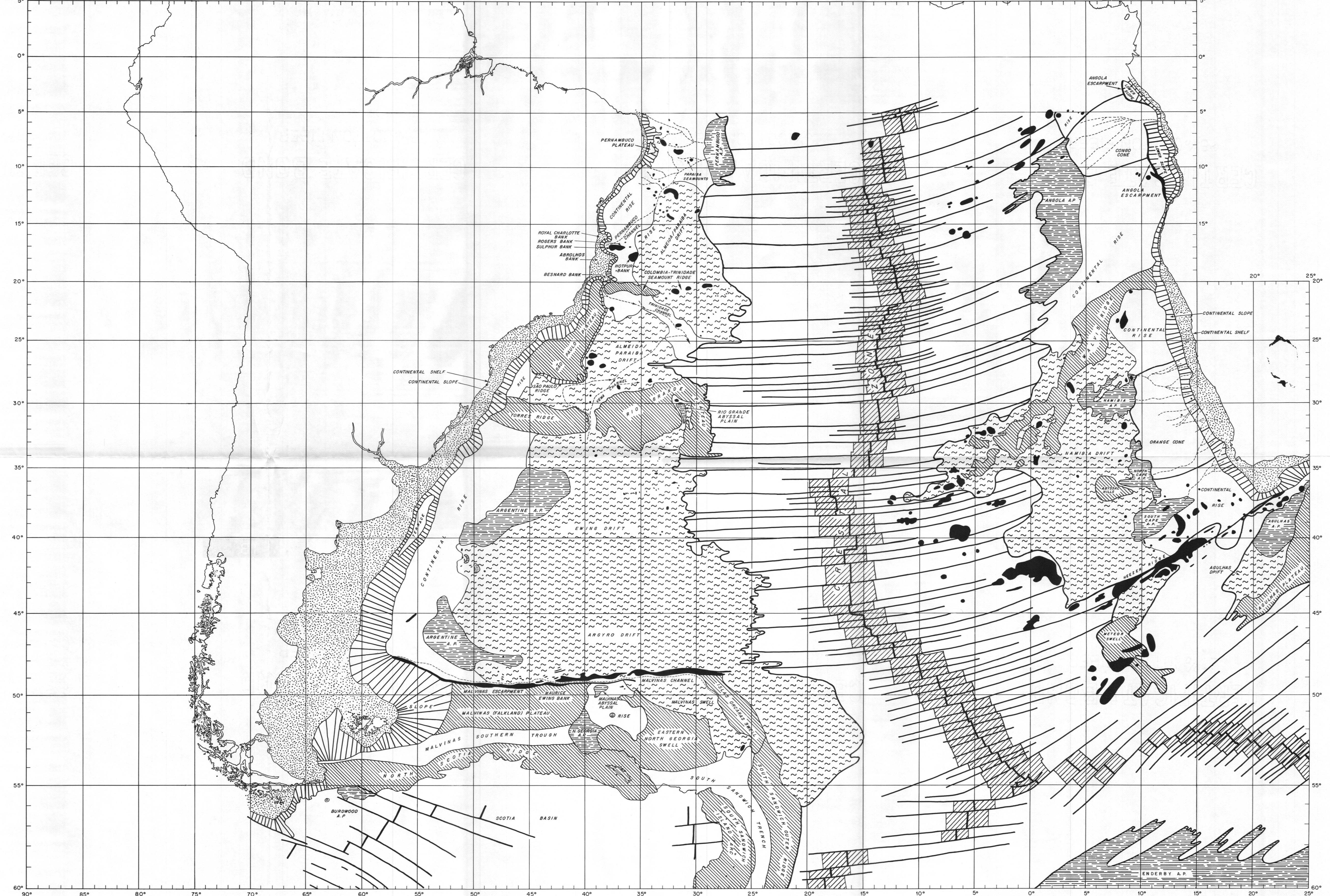
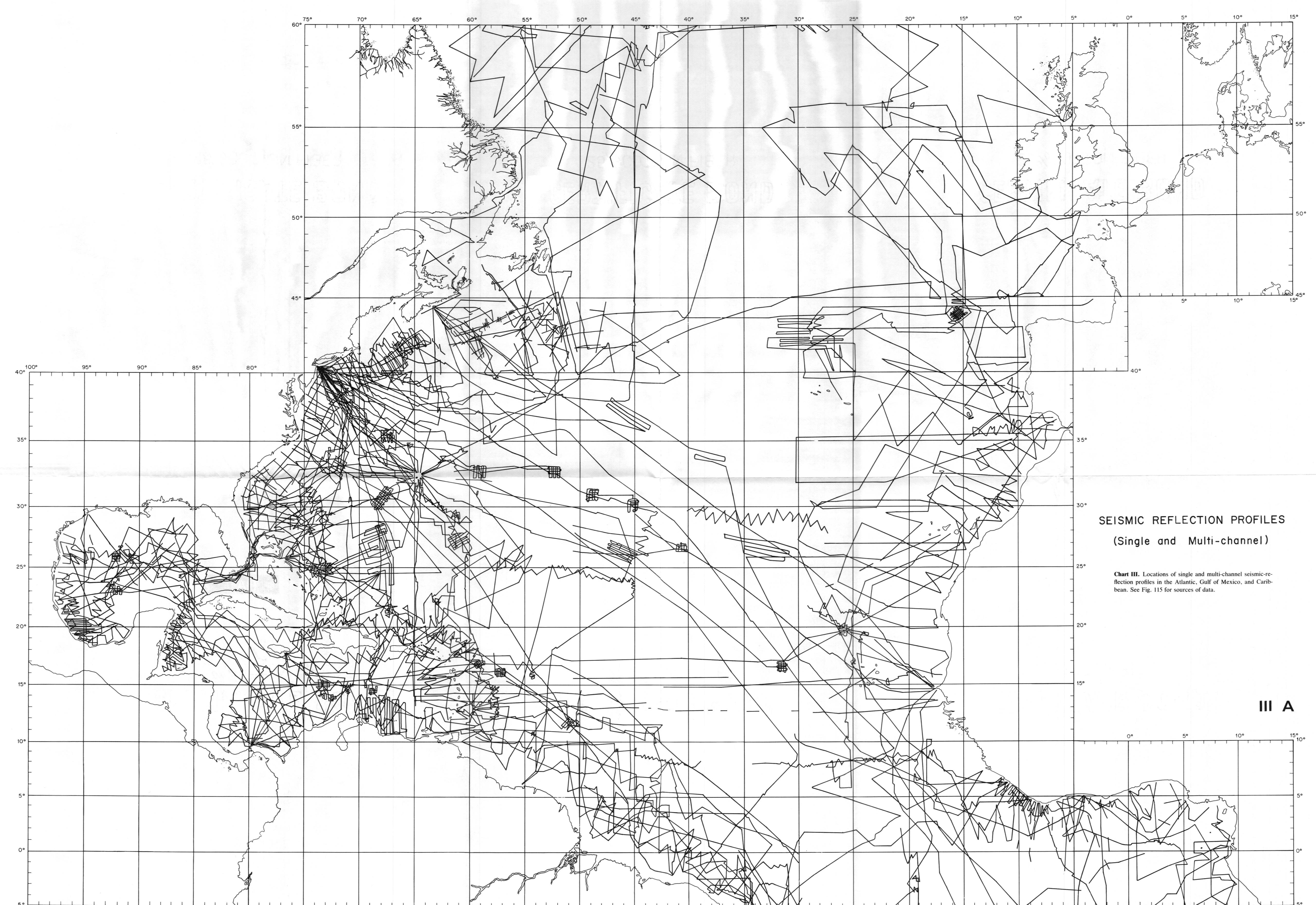
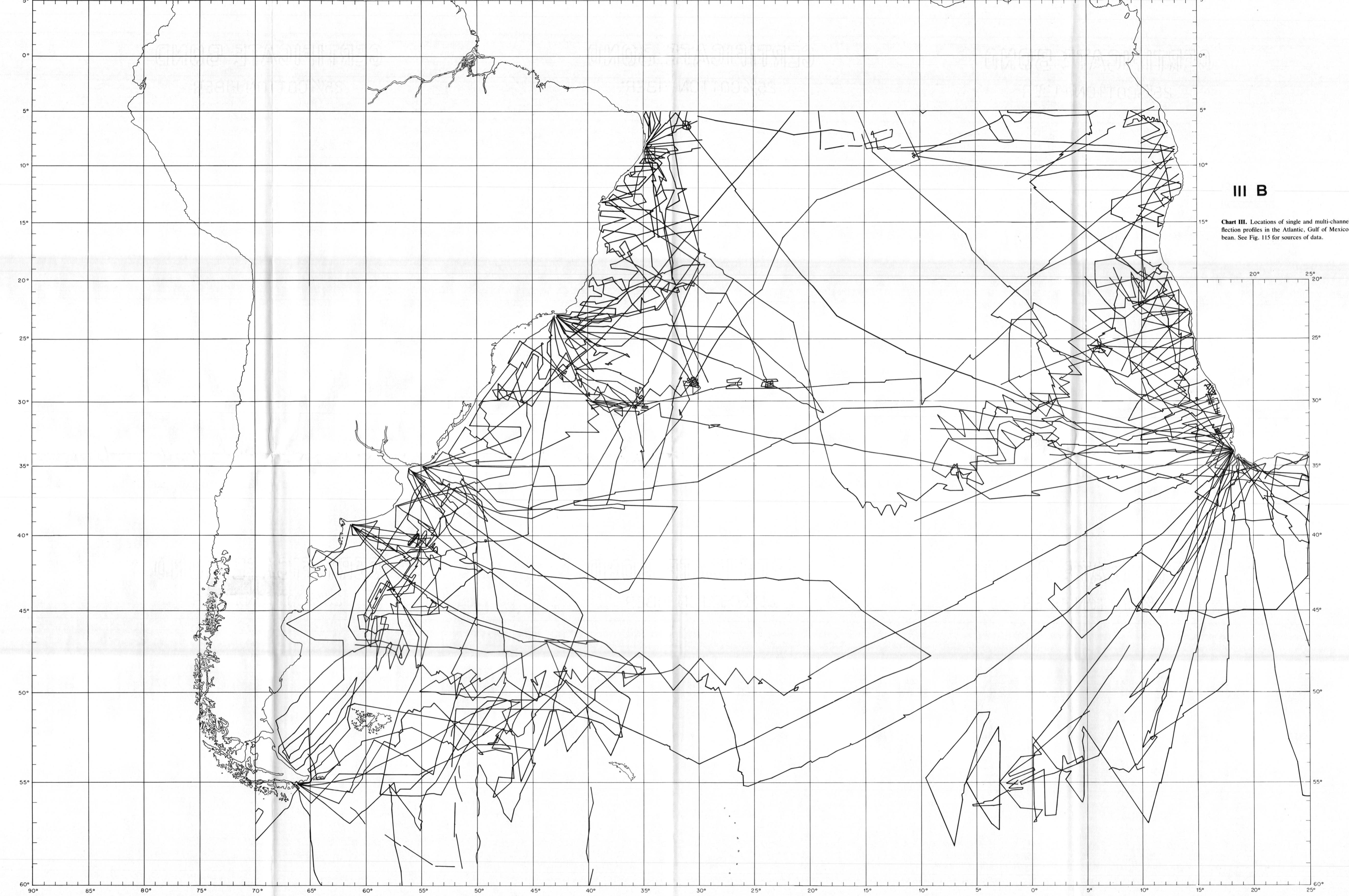


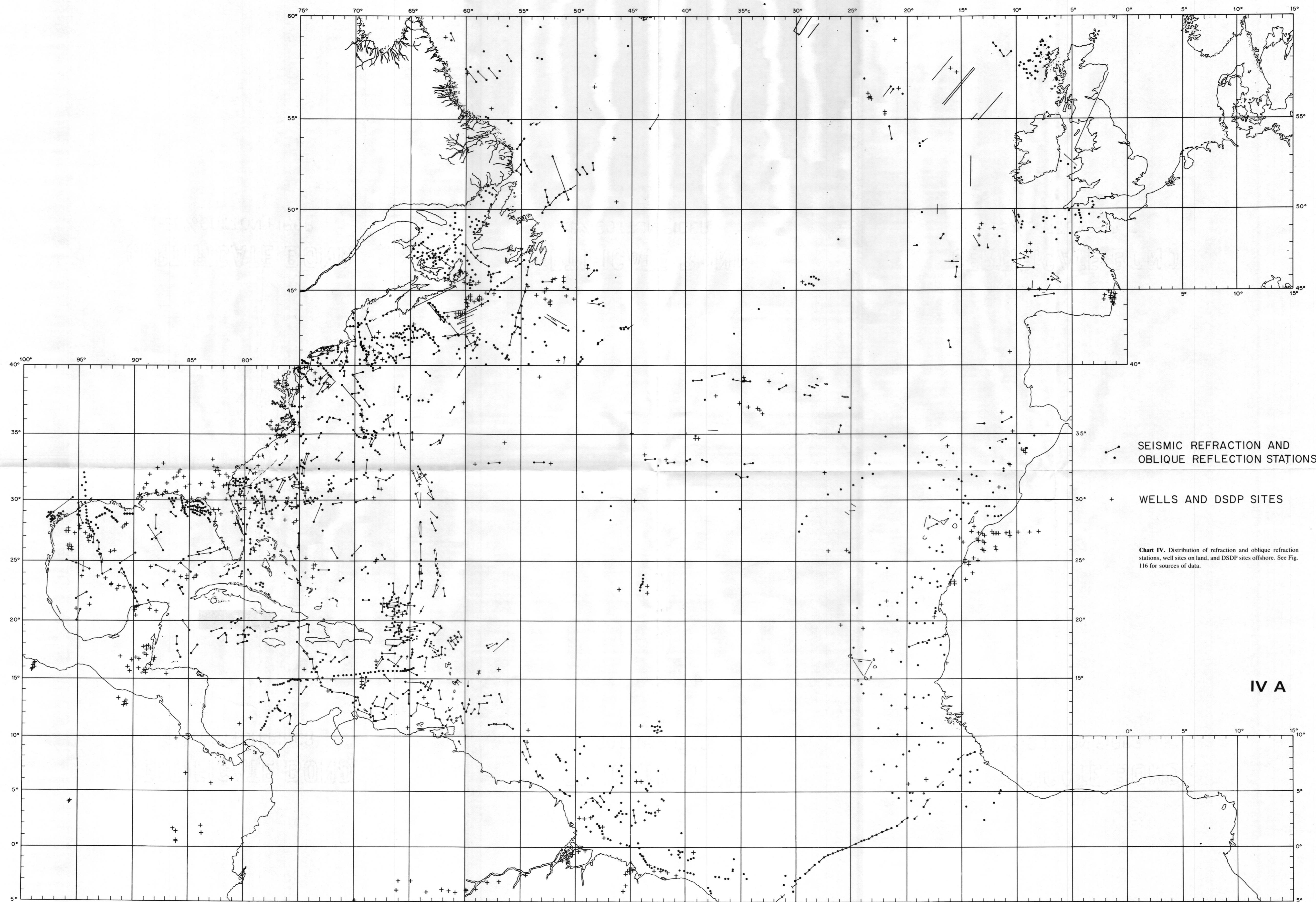
Chart II. Physiographic provinces of the Atlantic, Gulf of Mexico, and Caribbean. Provinces were mapped from sources listed in Chart I.



### III B

Chart III. Locations of single and multi-channel seismic-reflection profiles in the Atlantic, Gulf of Mexico, and Caribbean. See Fig. 115 for sources of data.





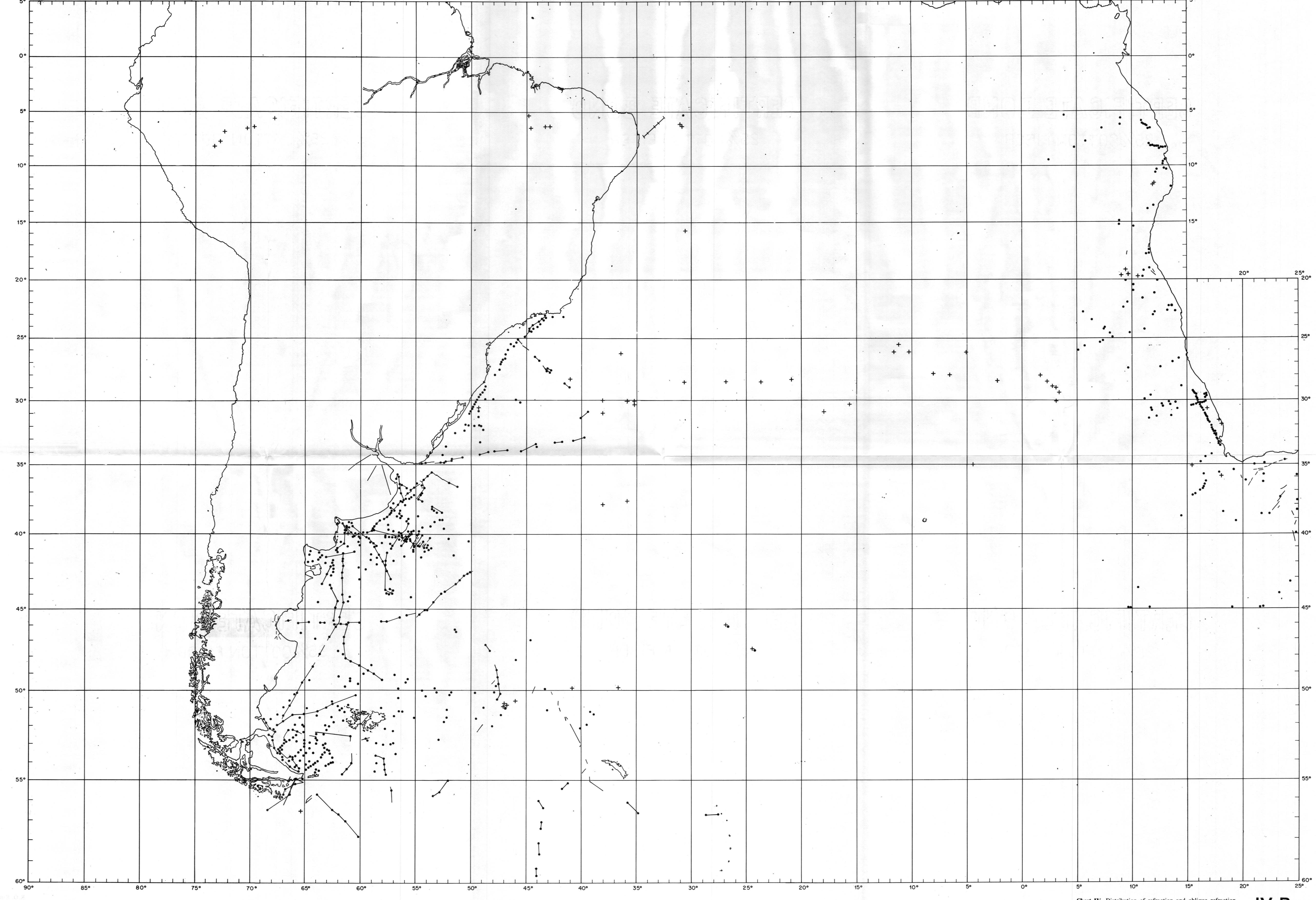
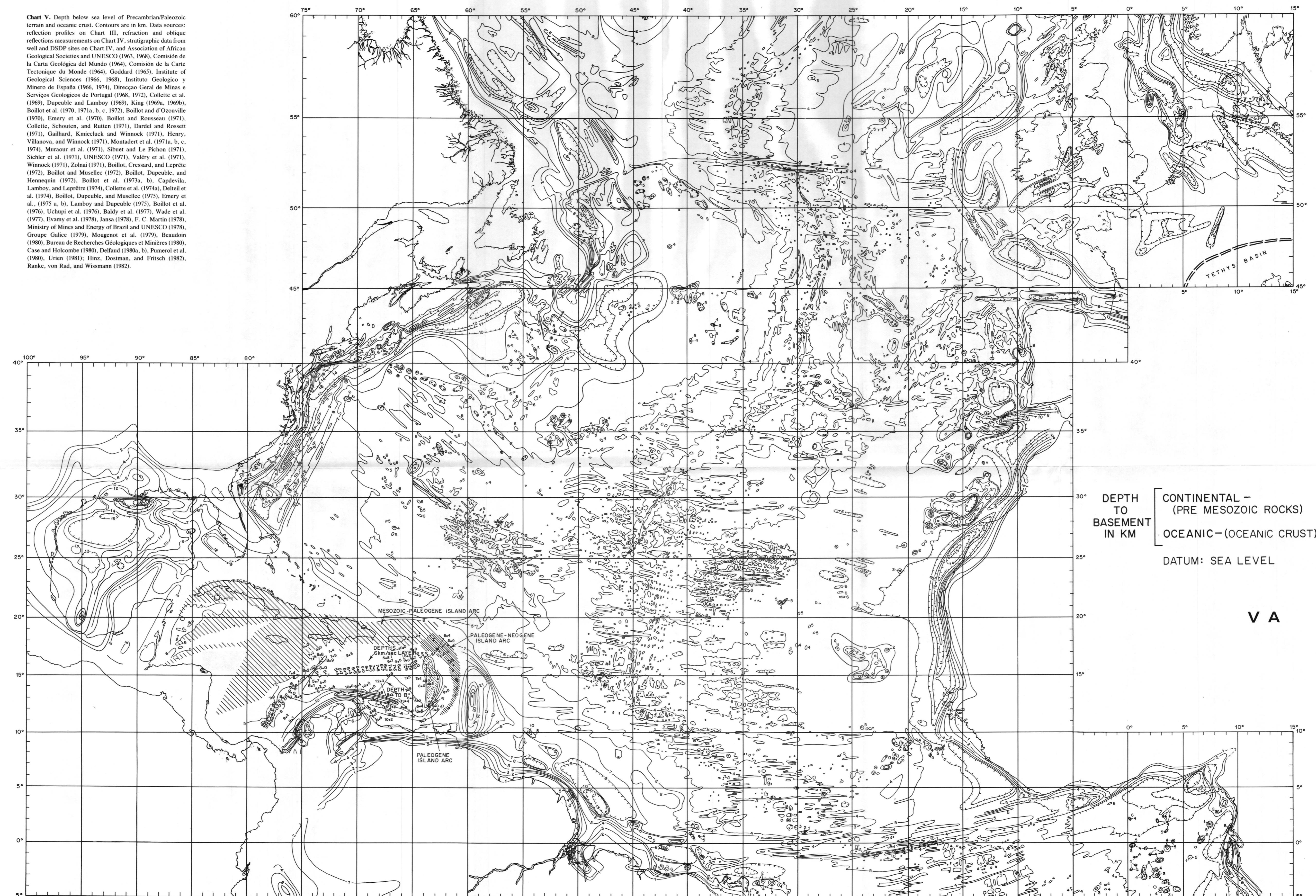


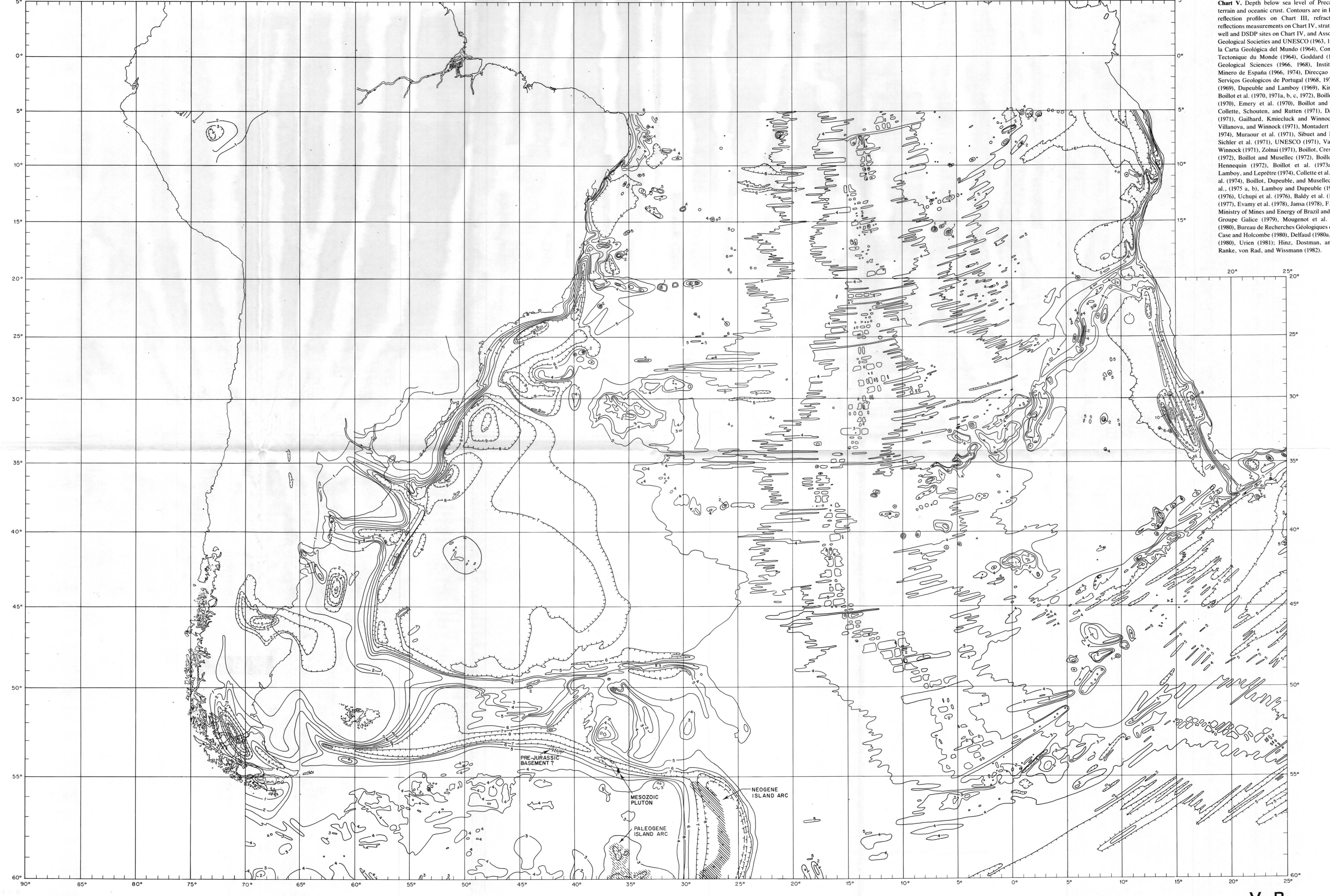
Chart IV. Distribution of refraction and oblique refraction stations, well sites on land, and DSDP sites offshore. See Fig. 116 for sources of data.

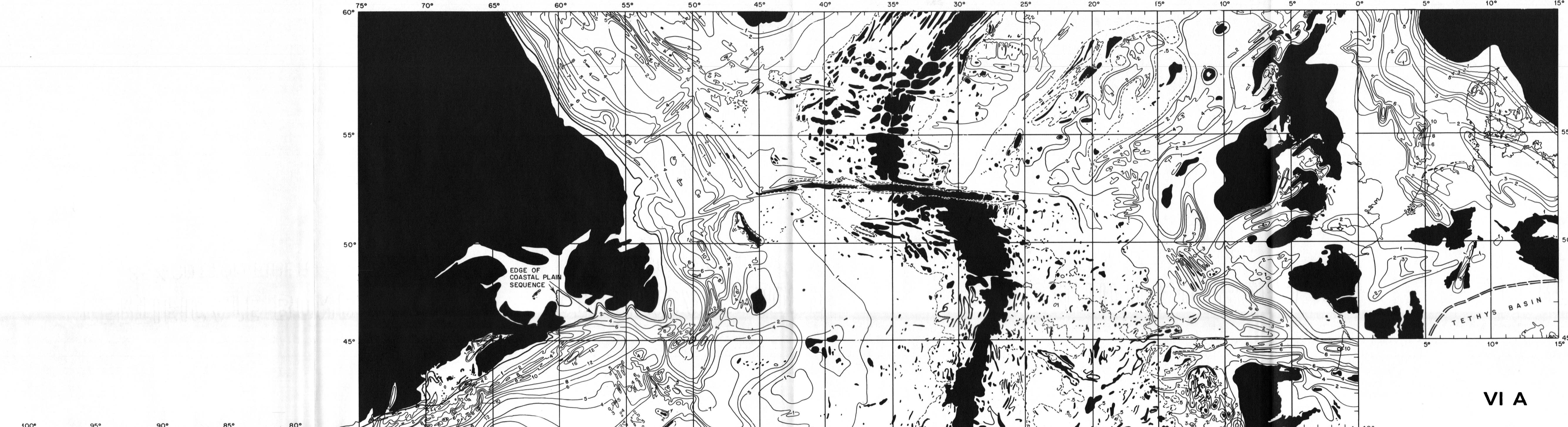
IV B

**Chart V.** Depth below sea level of Precambrian/Paleozoic terrain and oceanic crust. Contours are in km. Data sources: reflection profiles on Chart III, refraction and oblique reflections measurements on Chart IV, stratigraphic data from well and DSDP sites on Chart IV, and Association of African Geological Societies and UNESCO (1963, 1968), Comisión de la Carta Geológica del Mundo (1964), Comisión de la Carta Tectónica del Mundo (1964), Goddard (1965), Institute of Geological Sciences (1966, 1968), Instituto Geológico y Minero de España (1966, 1974), Dirección General de Minas e Servicios Geológicos de Portugal (1968, 1972), Collette et al. (1969), Dupeuble and Lamboy (1969), King (1969a, 1969b), Boillot et al. (1970, 1971a, b, c, 1972), Boillot and d'Ozouville (1970), Emery et al. (1970), Boillot and Rousseau (1971), Collette, Schouten, and Rutten (1971), Dardel and Rosett (1971), Gailhard, Kmiecluk and Winnock (1971), Henry, Villanova, and Winnock (1971), Montadert et al. (1971a, b, c, 1974), Muraour et al. (1971), Sibuet and Le Pichon (1971), Sichler et al. (1971), UNESCO (1971), Valéry et al. (1971), Winnock (1971), Zolnai (1971), Boillot, Cressard, and Lepréte (1972), Boillot and Musellec (1972), Boillot, Dupeuble, and Hennequin (1972), Boillot et al. (1973a, b), Capdevila, Lamboy, and Lepréte (1974), Collette et al. (1974a), Delteil et al. (1974), Boillot, Dupeuble, and Musellec (1975), Emery et al. (1975 a, b), Lamboy and Dupeuble (1975), Boillot et al. (1976), Uchupi et al. (1976), Baldy et al. (1977), Wade et al. (1977), Évamy et al. (1978), Jansa (1978), F. C. Martin (1978), Ministry of Mines and Energy of Brazil and UNESCO (1978), Groupe Galice (1979), Mougenot et al. (1979), Beaudoin (1980), Bureau de Recherches Géologiques et Minières (1980), Case and Holcombe (1980), Delfaud (1980a, b), Pumerol et al. (1980), Urien (1981); Hinz, Dostman, and Fritsch (1982), Ranke, von Rad, and Wissmann (1982).



**Chart V.** Depth below sea level of Precambrian/Paleozoic terrain and oceanic crust. Contours are in km. Data sources: reflection profiles on Chart III, refraction and oblique reflections measurements on Chart IV, stratigraphic data from well and DSDP sites on Chart IV, and Association of African Geological Societies and UNESCO (1963, 1968), Comisión de la Carta Geológica del Mundo (1964), Comisión de la Carte Tectonique du Monde (1964), Goddard (1965), Institute of Geological Sciences (1966, 1968), Instituto Geológico y Minero de España (1966, 1974), Direcção Geral de Minas e Serviços Geológicos de Portugal (1968, 1972), Collette et al. (1969), Dupeuble and Lamboy (1969), King (1969a, 1969b), Boillot et al. (1970, 1971a, b, c, 1972), Boillot and d'Ozouville (1970), Emery et al. (1970), Boillot and Rousseau (1971), Collette, Schouten, and Rutten (1971), Dardel and Rosset (1971), Gaillard, Kmiecicki and Winnock (1971), Henry, Villanova, and Winnock (1971), Montadert et al. (1971a, b, c, 1974), Muraour et al. (1971), Sibuet and Le Pichon (1971), Sichtler et al. (1971), UNESCO (1971), Valéry et al. (1971), Winnock (1971), Zolnai (1971), Boillot, Cressard, and Lepréte (1972), Boillot and Musellec (1972), Boillot, Dupeuble, and Hennequin (1972), Boillot et al. (1973a, b), Capdevila, Lamboy, and Lepréte (1974), Collette et al. (1974a), Deltell et al. (1974), Boillot, Dupeuble, and Musellec (1975), Emery et al. (1975a, b), Lamboy and Dupeuble (1975), Boillot et al. (1976), Uchupi et al. (1976), Baldy et al. (1977), Wade et al. (1977), Evansy et al. (1978), Jansa (1978), F. C. Martin (1978), Ministry of Mines and Energy of Brazil and UNESCO (1978), Groupe Galice (1979), Mougenot et al. (1979), Beaudoin (1980), Bureau de Recherches Géologiques et Minières (1980), Case and Holcombe (1980), Delfaud (1980a, b), Pumerol et al. (1980), Urien (1981); Hinz, Dostman, and Fritsch (1982), Ranke, von Rad, and Wissmann (1982).

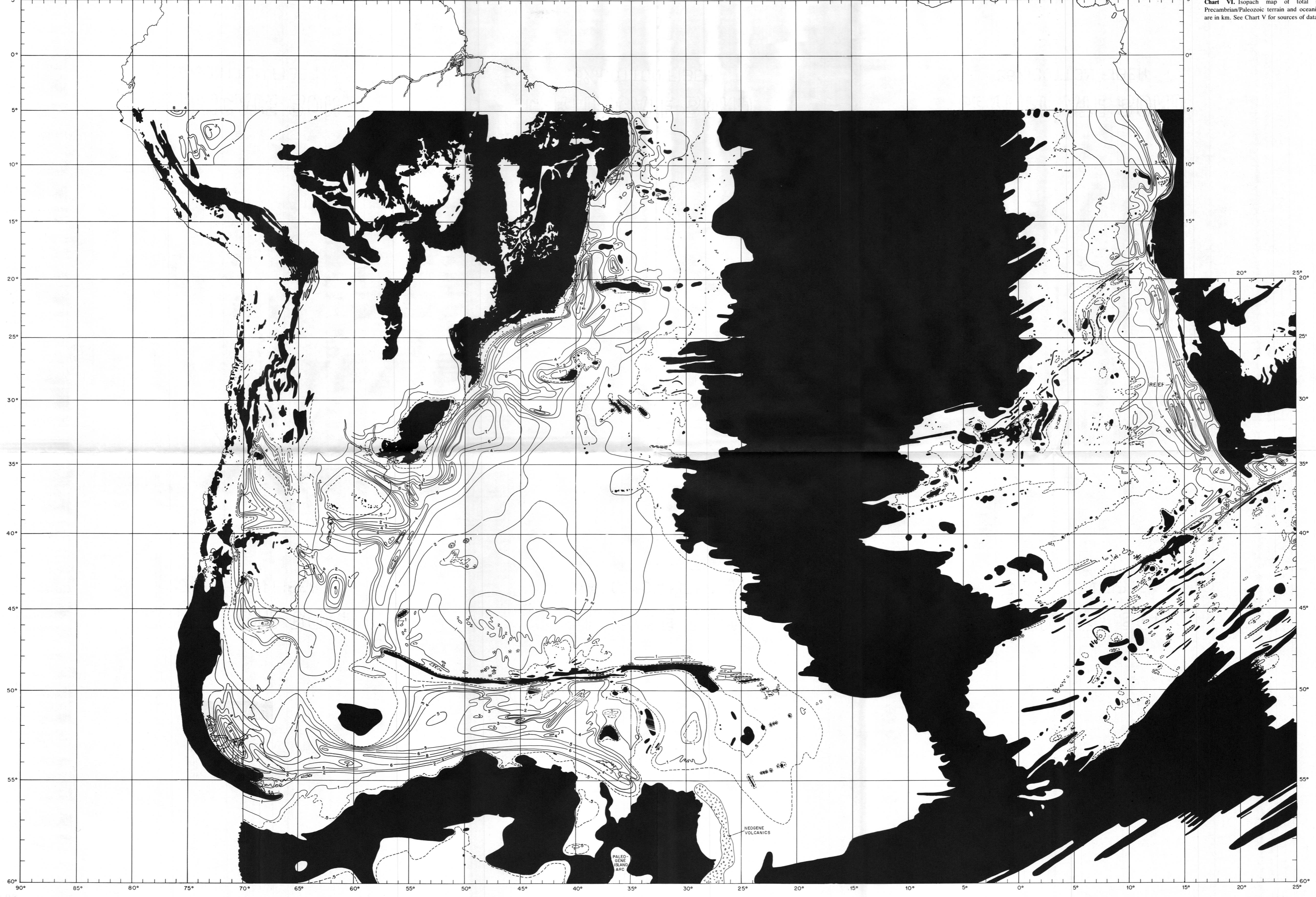




VI A



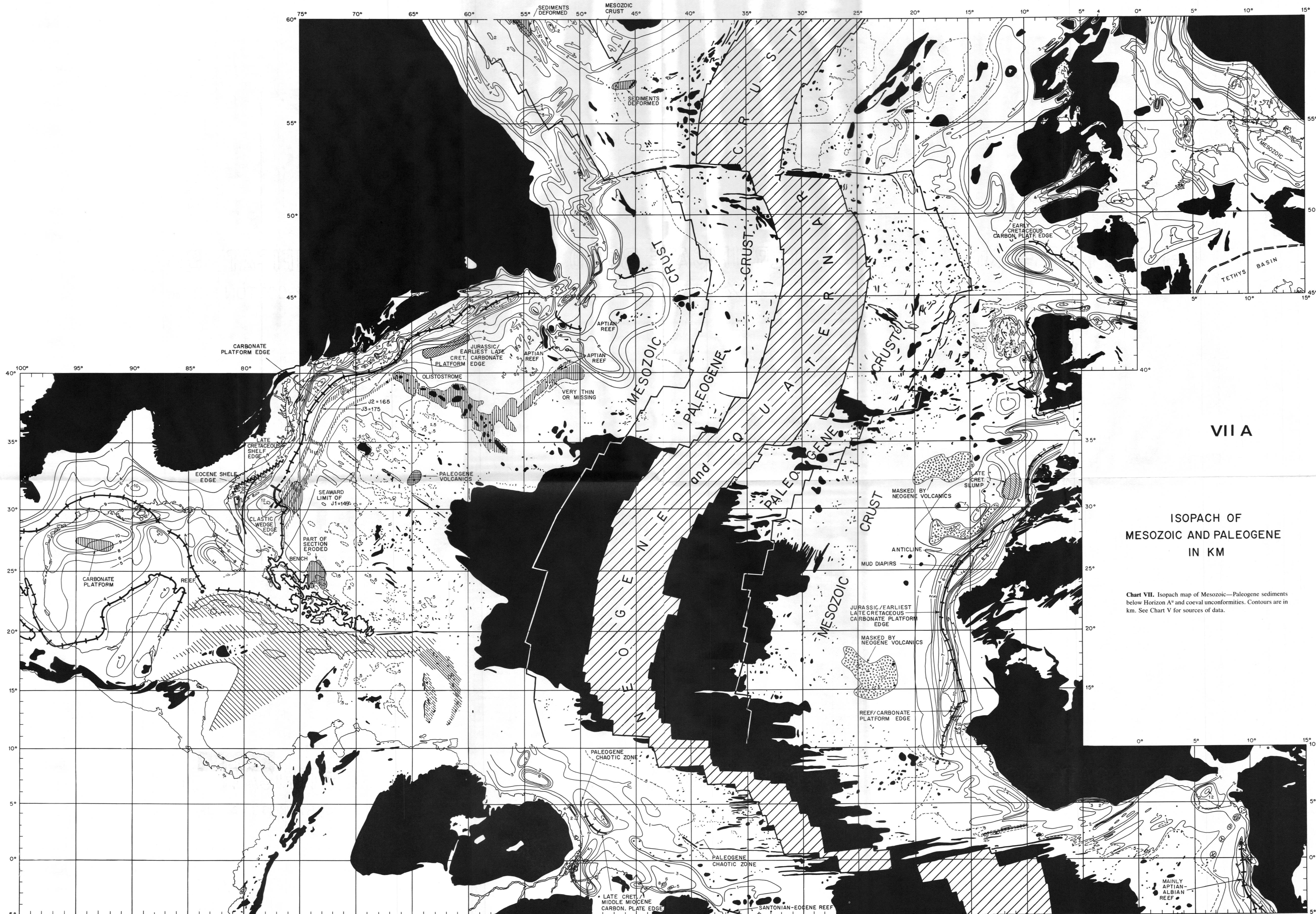
Chart VI. Isopach map of total sediments above  
Precambrian/Paleozoic terrain and oceanic crust. Contours  
are in km. See Chart V for sources of data.



VIIA

ISOPACH OF  
MESOZOIC AND PALEOGENE  
IN KM

Chart VII. Isopach map of Mesozoic—Paleogene sediments below Horizon A<sup>a</sup> and coeval unconformities. Contours are in km. See Chart V for sources of data.



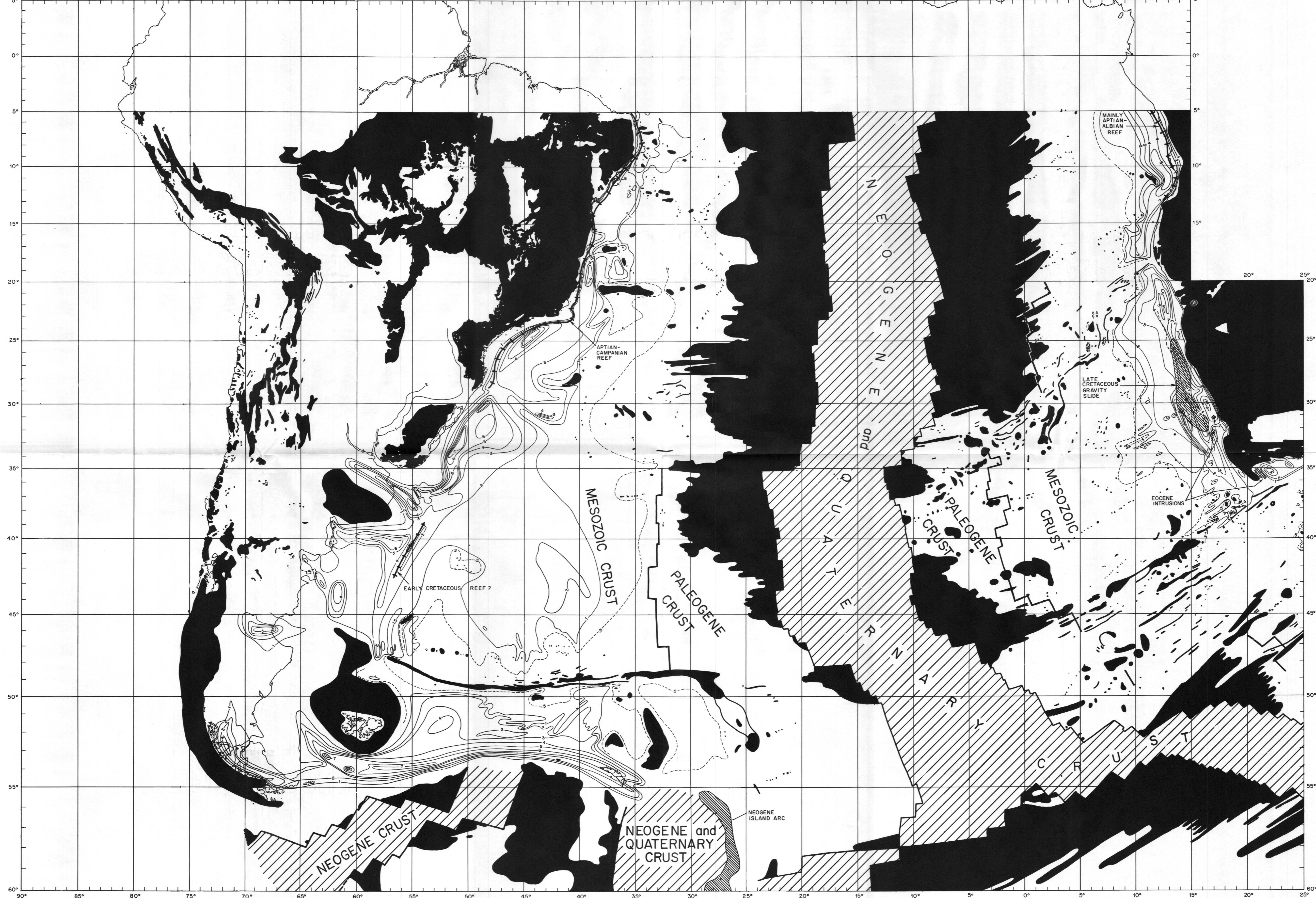
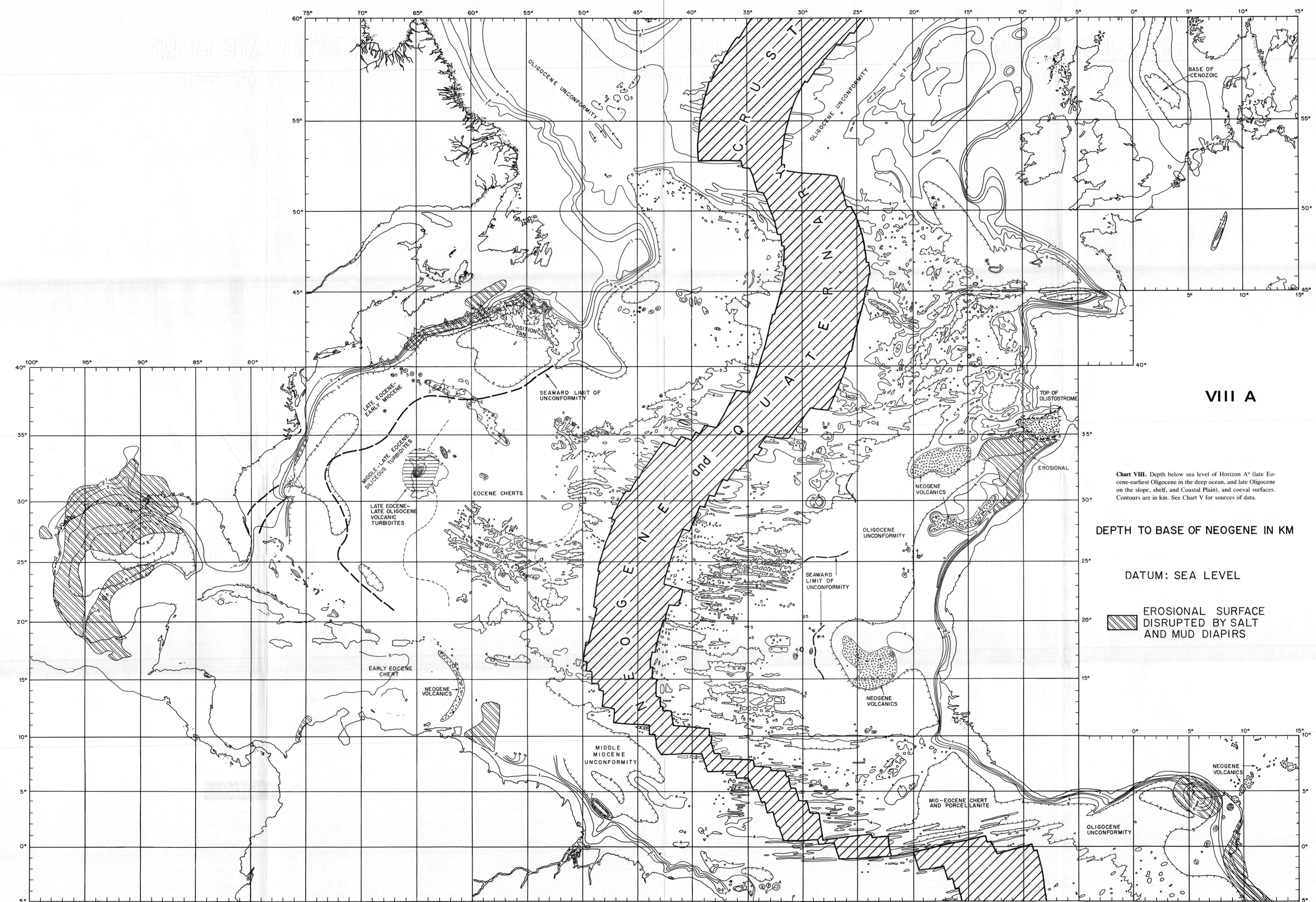
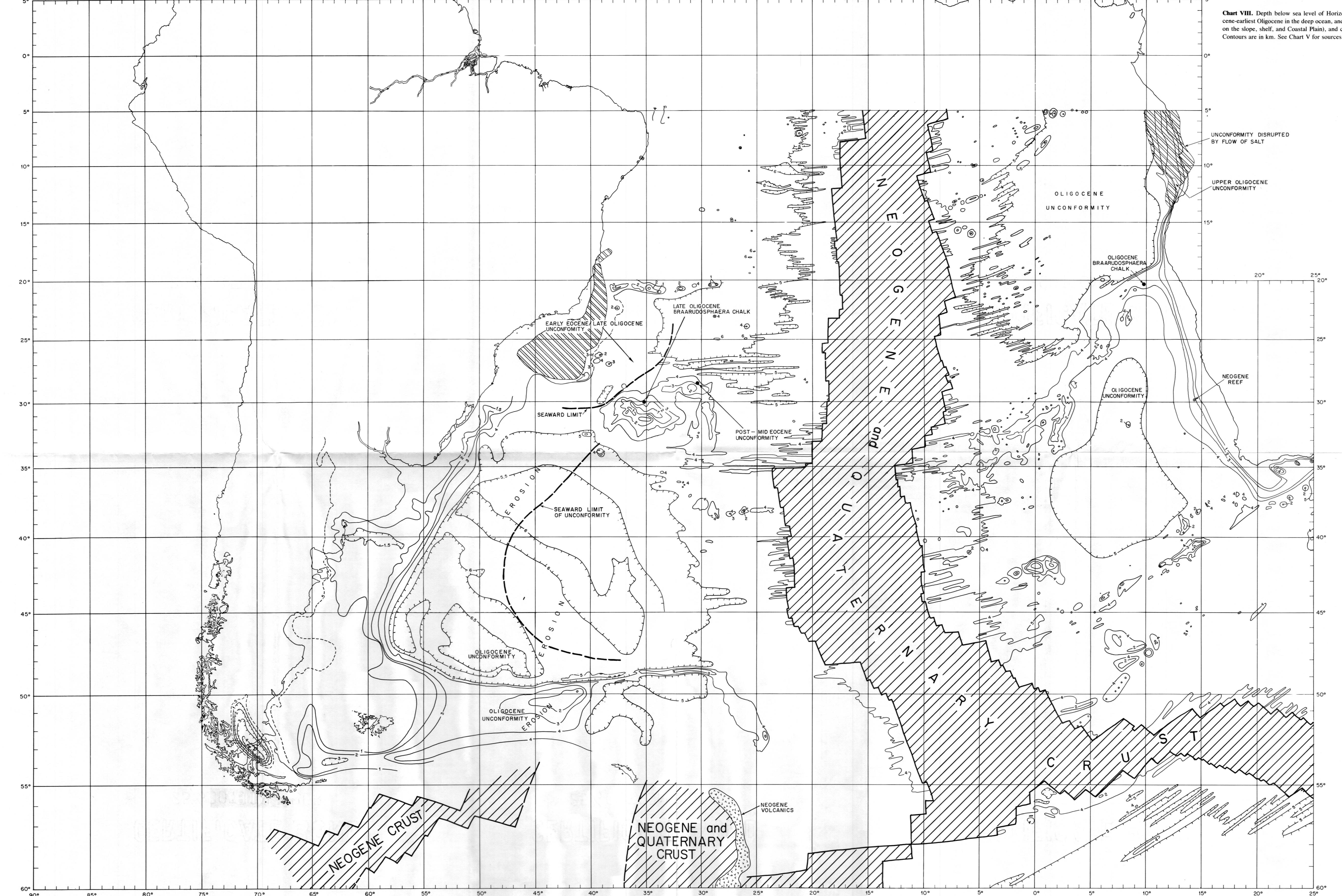
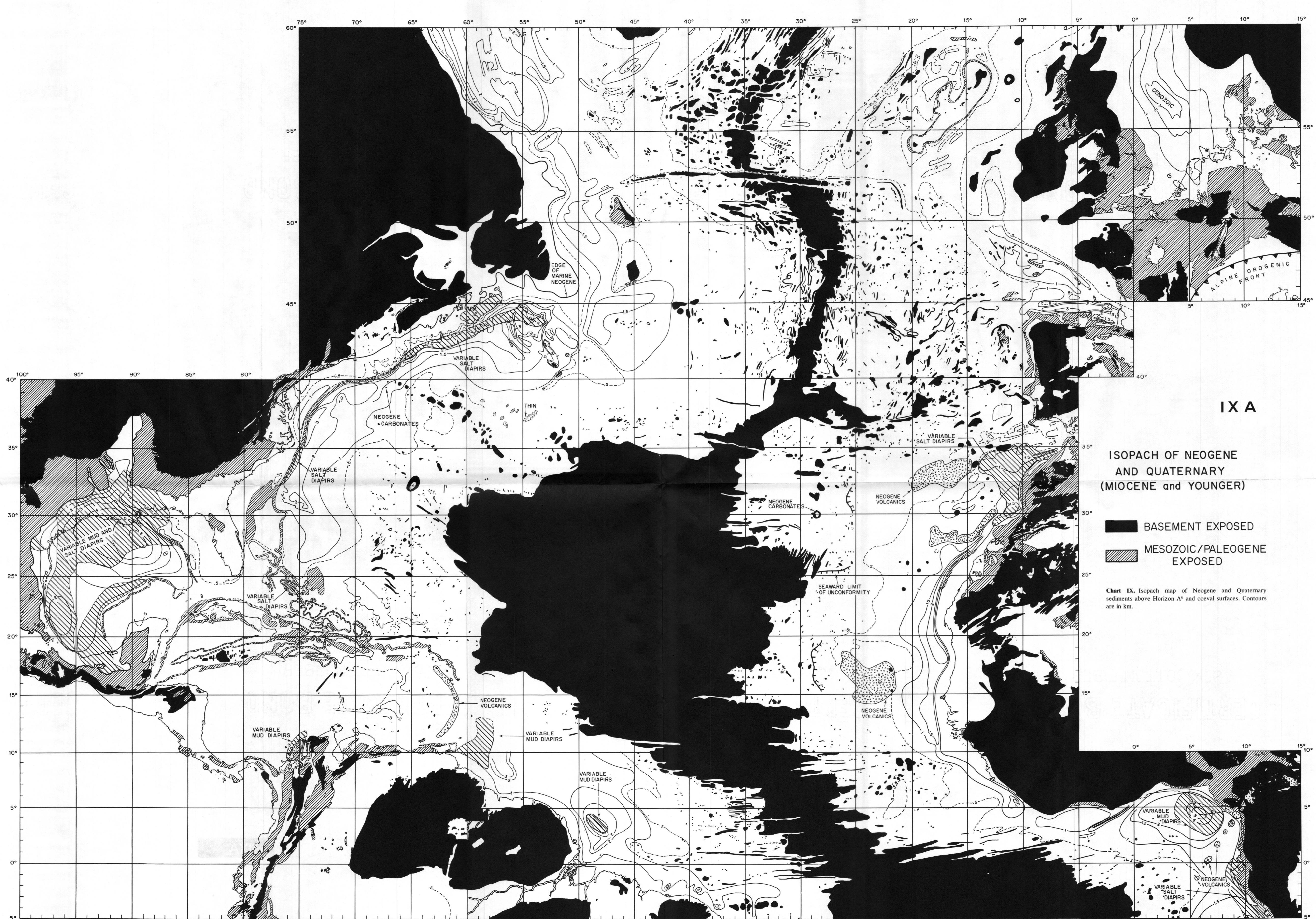


Chart VII. Isopach map of Mesozoic—Paleogene sediments below Horizon A' and coeval unconformities. Contours are in km. See Chart V for sources of data.



**VIII.** Depth below sea level of Horizon A<sup>u</sup> (late Eo-earliest Oligocene in the deep ocean, and late Oligocene slope, shelf, and Coastal Plain), and coeval surfaces. Figures are in km. See Chart V for sources of data.





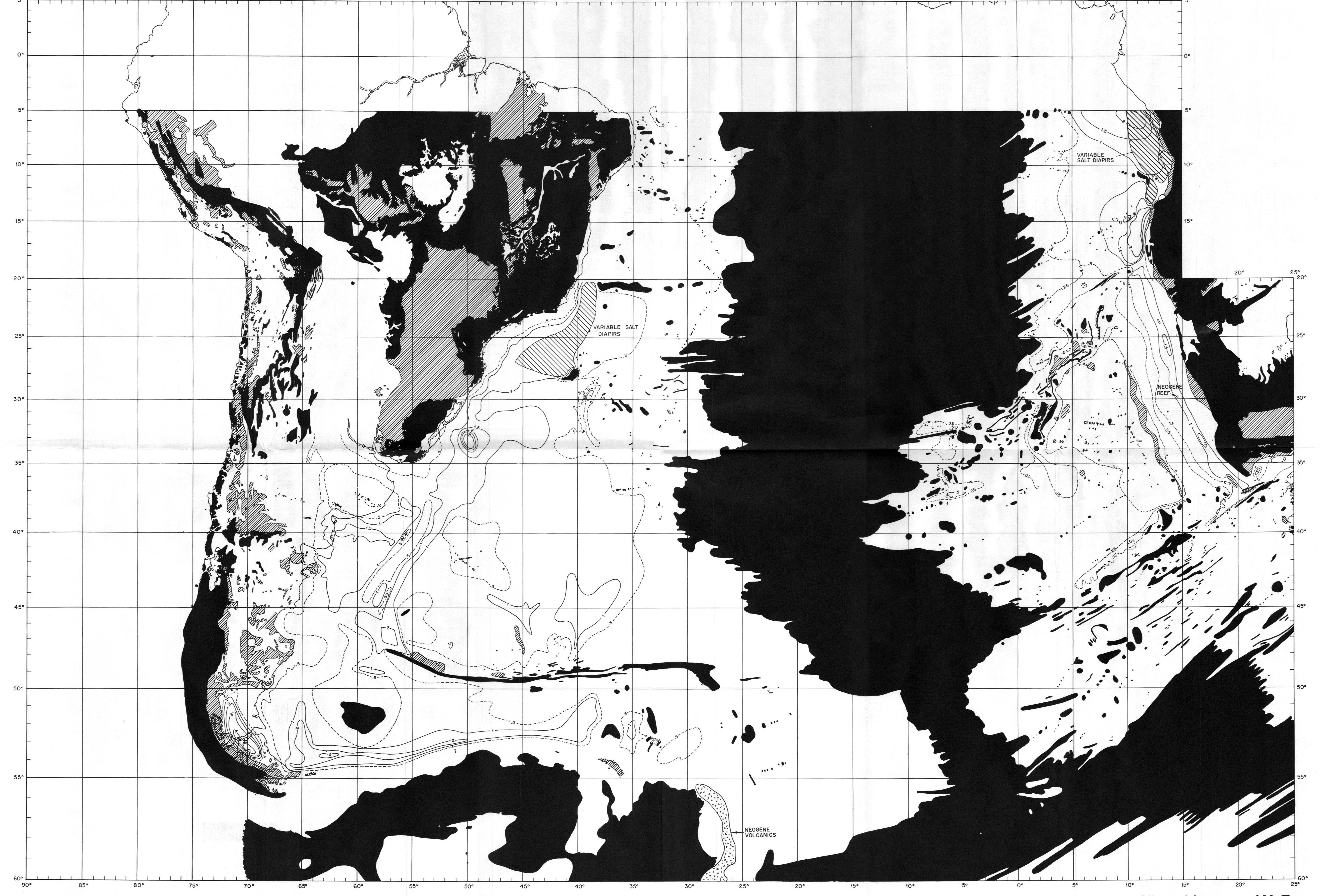
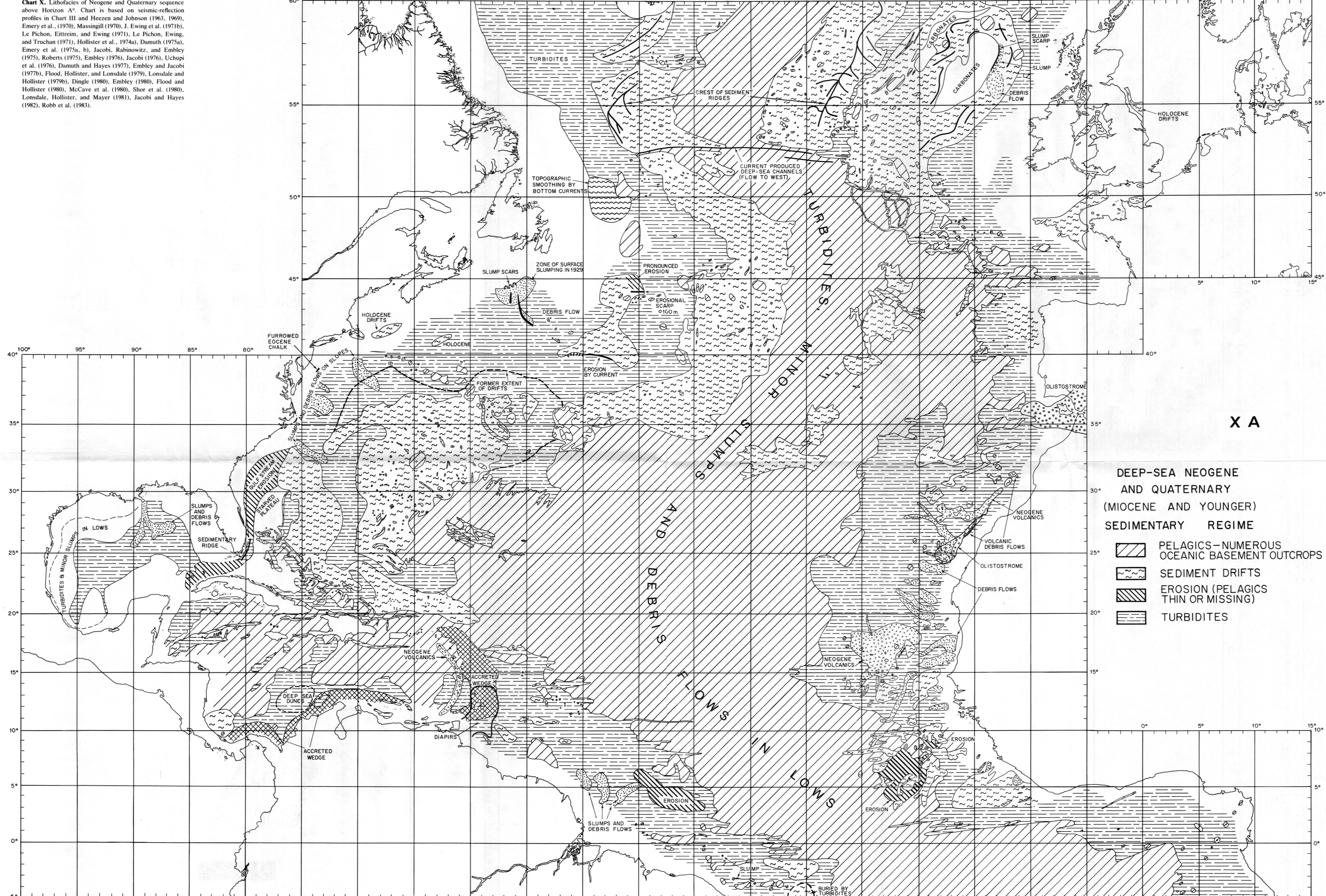


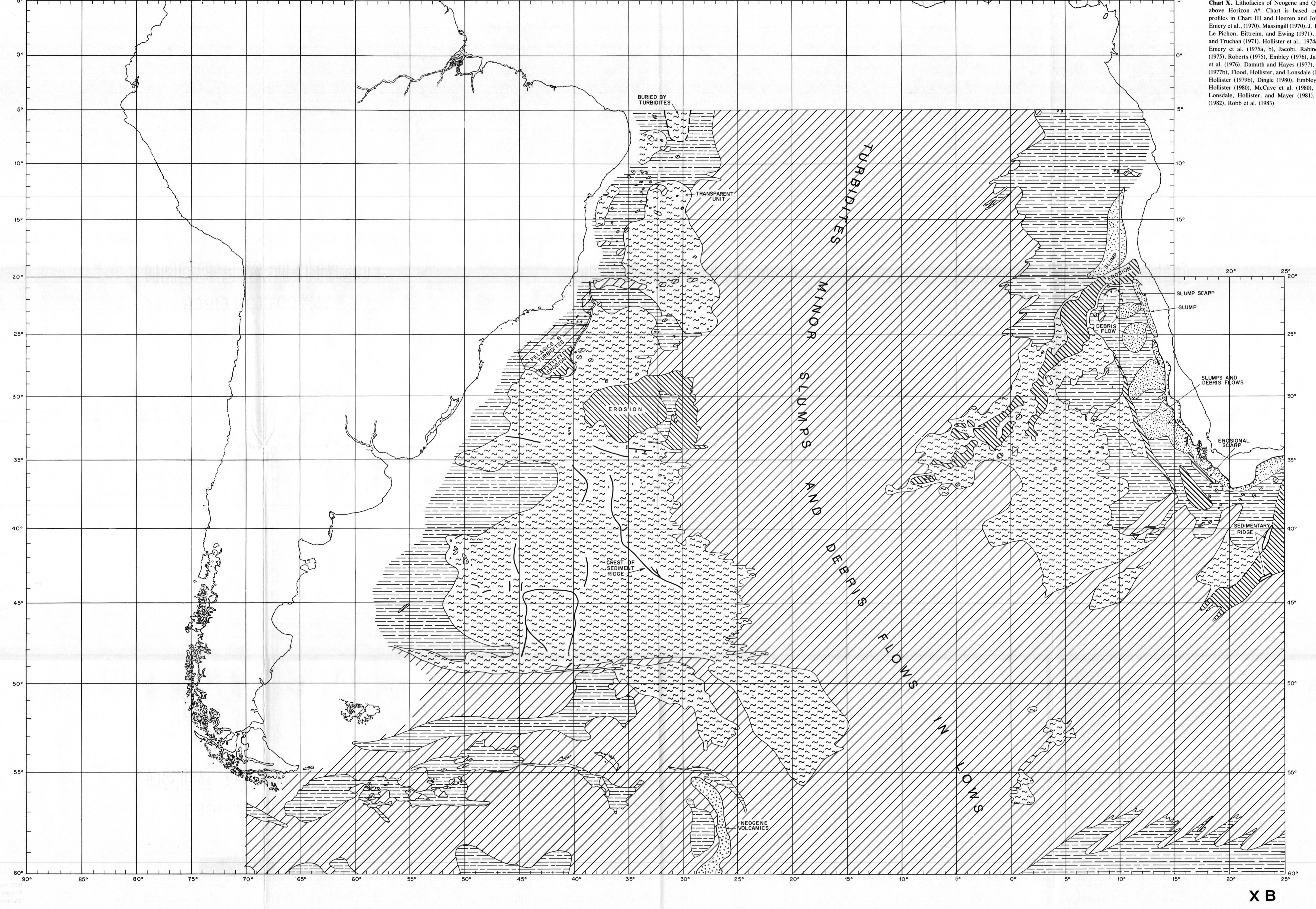
Chart IX. Isopach map of Neogene and Quaternary sediments above Horizon A' and coeval surfaces. Contours are in km.

**IX B**

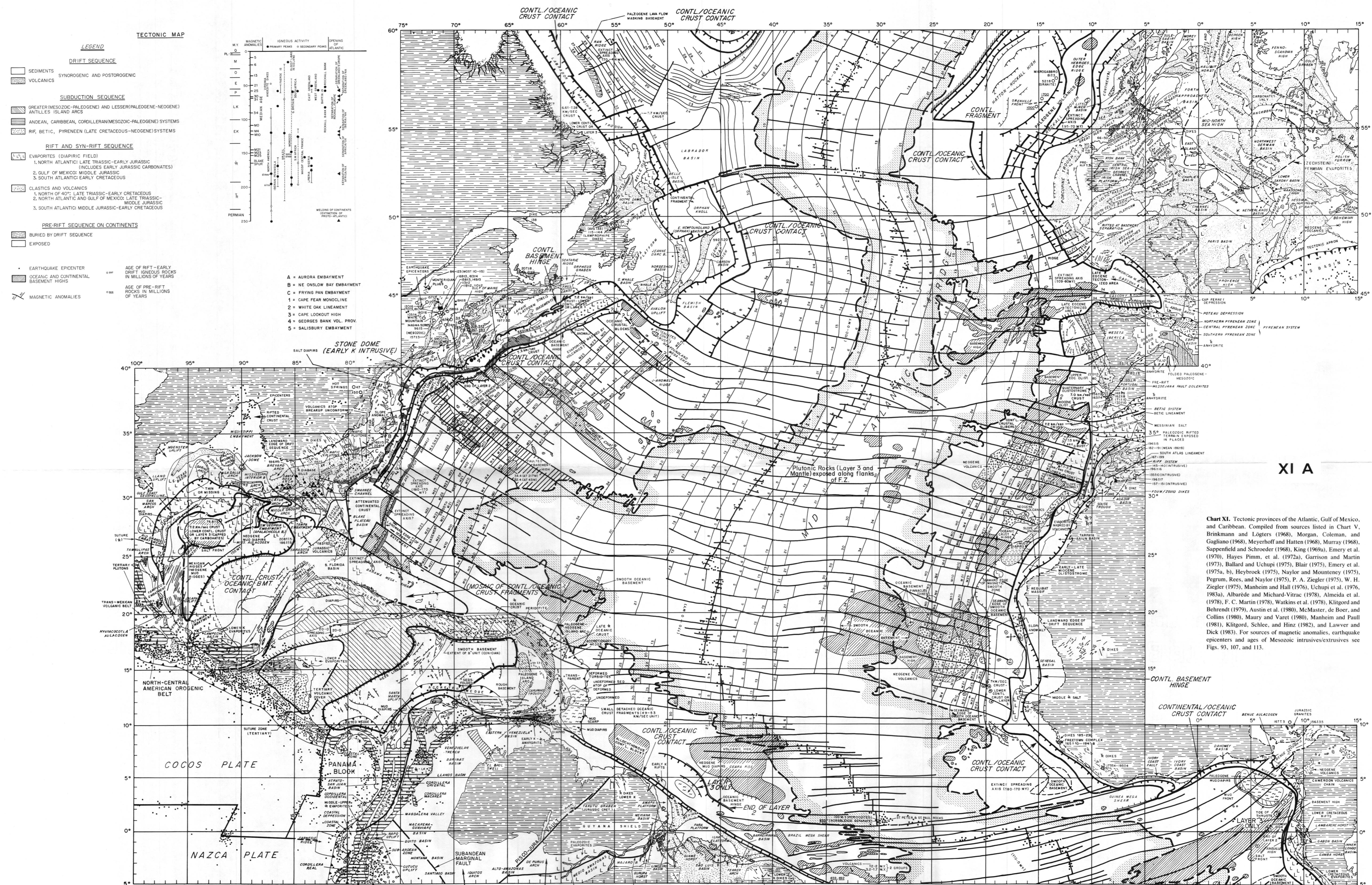
**Chart X.** Lithofacies of Neogene and Quaternary sequence above Horizon A<sup>u</sup>. Chart is based on seismic-reflection profiles in Chart III and Heezen and Johnson (1963, 1969), Emery et al., (1970), Massingill (1970), J. Ewing et al. (1971b), Le Pichon, Eittreim, and Ewing (1971), Le Pichon, Ewing, and Truchan (1971), Hollister et al., 1974a), Damuth (1975a), Emery et al. (1975a, b), Jacobi, Rabinowitz, and Embley (1975), Roberts (1975), Embley (1976), Jacobi (1976), Uchupi et al. (1976), Damuth and Hayes (1977), Embley and Jacobi (1977b), Flood, Hollister, and Lonsdale (1979), Lonsdale and Hollister (1979b), Dingle (1980), Embley (1980), Flood and Hollister (1980), McCave et al. (1980), Shor et al. (1980), Lonsdale, Hollister, and Mayer (1981), Jacobi and Hayes (1982), Robb et al. (1983).



**Chart X.** Lithofacies of Neogene and Quaternary sequence above Horizon A<sup>a</sup>. Chart is based on seismic-reflection profiles in Chart III and Heezen and Johnson (1963, 1969), Emery et al. (1970), Massingill (1970), J. Ewing et al. (1971b), Le Pichon, Ettreim, and Ewing (1971), Le Pichon, Ewing, and Truhan (1971), Hollister et al., 1974a), Damuth (1975a), Emery et al. (1975a, b), Jacobi, Rabinowitz, and Embley (1975), Roberts (1975), Embley (1976), Jacobi (1976), Uchupi et al. (1976), Damuth and Hayes (1977), Embley and Jacobi (1977b), Flood, Hollister, and Lonsdale (1979), Lonsdale and Hollister (1979b), Dingle (1980), Embley (1980), Flood and Hollister (1980), McCave et al. (1980), Shor et al. (1980), Lonsdale, Hollister, and Mayer (1981), Jacobi and Hayes (1982), Robb et al. (1983).



X B



Tectonic provinces of the African. Compiled from sources and Löglers (1968), M. 1968), Meyerhoff and Hattenbach and Schroeder (1968), King and Pimm, et al. (1972a), Lard and Uchupi (1975), Blaauw and Heybroek (1975), Naylor and Naylor (1975), P. A. Manheim and Hall (1975), Manheim and Hall (1975), Barède and Michard-Vitrac (1975), Martin (1978), Watkins et al. (1979), Austin et al. (1980), Maury and Varet (1980), Maury and Varet (1980), Gord, Schlee, and Hinz (1980). For sources of magnetic ages and ages of Mesozoic intrusions, see 7, and 113.

