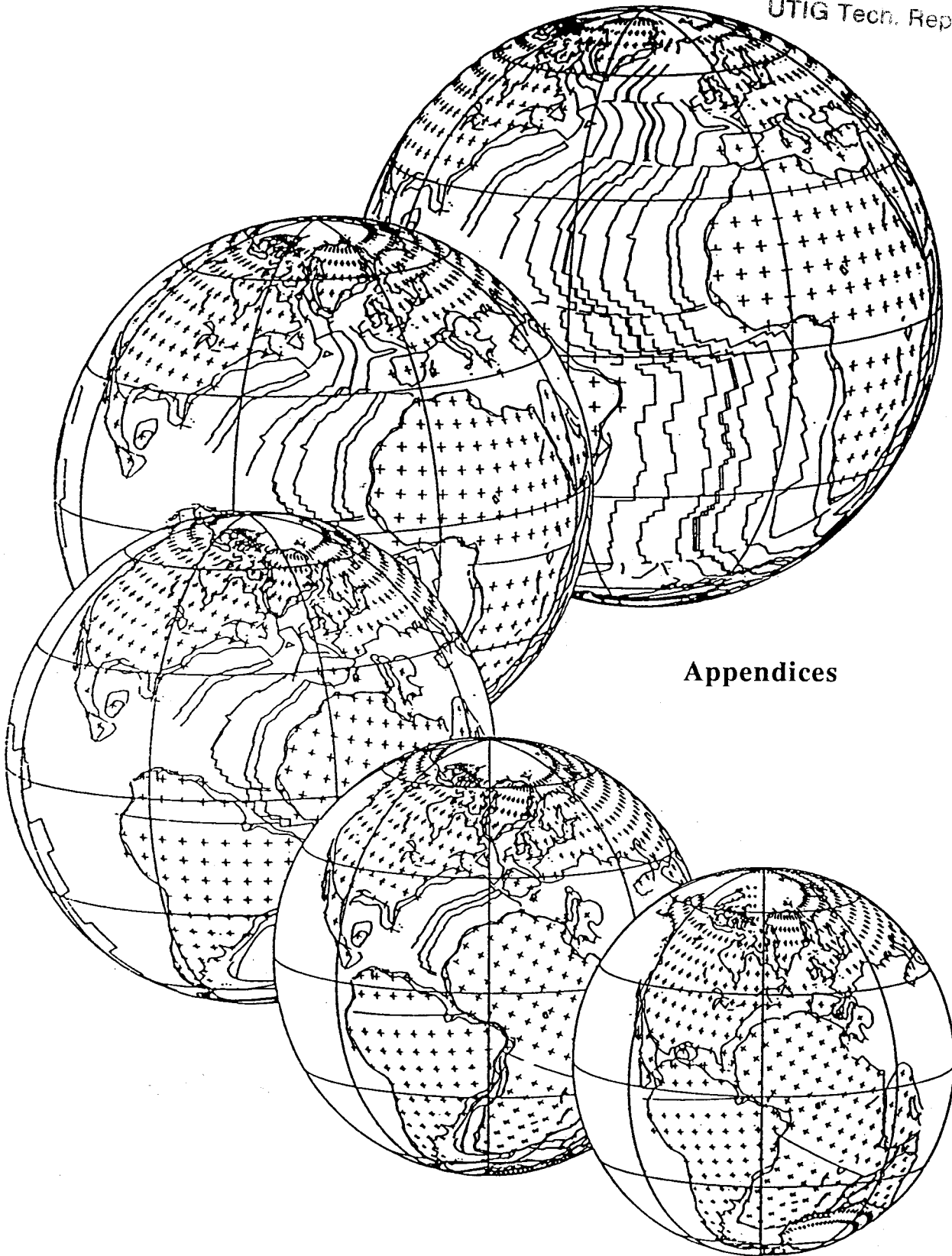


**PALEOCEANOGRAPHIC MAPPING PROJECT
PROGRESS REPORT NO. 35-1287**

Library
UTIG Tech. Report # 86



Appendices

Appendix A: Region Numbers

00 Global

1* North America

10	Greenland
11	E. Canada
12	W. Canada
13	Alaska
14	N.E. USA
15	S.E. USA
16	S. Central USA
17	N. Central USA
18	Rocky Mountains
19	Western States

2* Middle and South America

20	Mexico
21	Caribbean
22	N. South America
23	Central South America
24	S. South America
25	Scotia Sea

3* Europe

30	Scandinavia
31	British Isles
32	W. Europe
33	E. Europe
34	W. Mediterranean
35	E. Mediterranean

4* USSR and Mongolia

40	W. USSR
41	S. Central USSR
42	N. Central USSR
43	E. USSR
44	Mongolia

5* Mideast

- 50 Near East
- 51 "Persia"
- 52 Arabia
- 53 Indian subcontinent

6* Far East

- 60 Japan and Korea
- 61 NE.E. China
- 62 E. Central China
- 63 S.E. China
- 64 S.W. China
- 65 Indochina
- 66 Philippines
- 67 Indonesia
- 68 W. Pacific Marginal Basins

7* Africa

- 70 N.W. Africa
- 71 N.E. Africa
- 72 E. Africa
- 73 S. Africa
- 74 S. Central Africa
- 75 Central Africa
- 76 W. Central Africa

8* Australia and Antarctica

- 80 W. Australia
- 81 E. Australia
- 82 Melanesia
- 83 Tonga-Kermadec
- 84 New Zealand
- 85 W. Antarctica
- 86 E. Antarctica

9* World Oceans

- 90 Arctic Ocean
- 91 N. Atlantic Ocean
- 92 Central Atlantic Ocean
- 93 S. Atlantic Ocean
- 94 W. Indian Ocean
- 95 E. Indian Ocean
- 96 Central Pacific
- 97 S. Pacific Ocean
- 98 N. Pacific Ocean
- 99 Circum-Antarctic Ocean

Appendix B: Tectonic Element Numbers

Number Abbreviation Description

100 North America

101	NAM	N. American craton
102	GRN	Greenland
103	NSL	N. Slope Alaska
104	MEX	Mexico
105	BAJ	Baja California
106	ARC	Arctic Islands
108	AVA	Avalon-Acadia
109	PDM	Piedmont-Florida
110	ALR	Alpha Ridge
111	MNR	Mendeleev Ridge
112	CHP	Chukchi Plateau
113	NWR	Northwind Ridge
114	LMN	Lomonosov Ridge
116	MVR	Marvin Ridge
119	BRE	Brendon plate (NE Greenland)
120	CAI	Canadian Arctic Islands
199	PNA	Paleozoic N. America

200 South America and Caribbean

201	SAM	S. American Craton
202	PRB	Parana Plate S. America
203	NWS	Northwest South America
204	HON	Honduras-Chortis
205	YUC	Yucatan
206	CUB	Cuba
208	CHI	Chiapas
209	CUC	Cuchumantanes
210	POM	Polochic-Motahua
211	SCR	Santa Cruz
212	GYP	Guayape
213	MGJ	Motagua-Jocotan
214	GDL	Golden Lane
215	GUE	Guerrero
216	CYR	Cayman Ridge
217	WCT	West Cayman Trough
218	ECT	East Cayman Trough
219	THK	Thunder Knoll
220	RSB	Rosiland Bank
221	PDB	Pedro Bank
222	JMC	Jamaica
223	QSN	Quinto Sueno
224	COF	Caribbean Ocean Floor
225	MRB	Maricaibo
226	RML	Romeral
227	STM	Santa Marta

228	PRJ	Perija
229	EPN	Eastern Panama
230	CPN	Central Panama
231	WPN	Western Panama
232	HSB	Hess Block
233	FLS	Florida Strait Block
234	LAA	Lesser Antilles Arc
235	AVR	Aves Ridge
236	SCB	Saint Christopher Block
237	PTR	Puerto Rico
238	EPR	E. Puerto Rican Trough
239	WPR	W. Puerto Rican Trough
240	MUT	Muertos Trough
241	GOT	Gulf of Tehuantepec
242	GOG	Gulf of Gonave
243	ACC	Accreted Chortis
244	ACP	Accreted Chiapas
245	ACG	Accreted Guayape
246	AAB	Accreted Lesser Antilles Barbados
247	TGU	Transitional Guerrero
248	TLA	Transitional Lesser Antilles
249	TNA	Transition N. America
250	TMX	Transitional Mexico (Yaqui)
251	TYU	Transitional Yucatan
252	SHI	Southern Hispaniola
253	SJH	San Juan/Hispaniola
254	HCO	Hispaniola Cordillera
255	NHI	Northern Hispaniola
256	PDR	Pinar del Rio
257	YCB	Yucatan Basin
258	SEB	Southeastern Cuba
259	SMC	Sierra Maestre de Cuba
260	TCB	Transitional Cuba
261	TSC	Transitional Southeastern Cuba
262	TSM	Transitional Sierra Maestre de Cuba
264	B2N	Beta=2, Northern Gulf of Mexico
265	B2S	Beta=2, Southern Gulf of Mexico
266	B3N	Beta=3, Northern Gulf of Mexico
267	B3C	Beta=3, Central Gulf of Mexico
268	B3S	Beta=3, Southern Gulf of Mexico
269	B4N	Beta=4, Northern Gulf of Mexico
270	B4S	Beta=4, Southern Gulf of Mexico
271	SIB	Sigsbee Block
272	B4C	Beta=4, Central Gulf of Mexico
273	PRT	Puerto Rico Trench
274	NCT	N. Cuban Thrust Sheet
275	SCT	S. Cuban Thrust Sheet
277	WSS	Western Scotia Sea
280	BDW	Burdwood
281	NSW	N. Scotia Ridge West
282	NSE	N. Scotia Ridge East
283	SRW	Shag Rock West
284	SRE	Shag Rock East
285	SGR	S. Georgia

286	SPW	Sandwich Plate West
287	SSI	S. Sandwich Islands
290	SSS	Salado subplate on S. America
291	CSS	Colorado subplate on S. America
299	SAS	S. American subplate

300 Europe

301	EUR	N European Craton
302	BAL	Baltic Shield
303	NHL	Northern Highlands (Scotland)
304	SPN	Iberia
305	CEU	Central (Hercynian) Europe
306	CSD	Corsica/Sardinia
307	ITL	Apulia
308	GRC	Greece
309	WSV	Western Svalbard
310	CSV	Central Svalbard
311	BAR	Barentsia
312	GRM	Grampian Highlands
313	MDV	Midland Valley
314	SUP	Southern Uplands
315	ENG	England-Brabant
317	ERK	East Rockall
318	WRK	West Rockall
319	MOS	Moesia
320	BLE	Balearics
321	ALB	Alboran Plate
322	CAL	Calabria
323	SIC	Sicily
324	VPT	Vöring Plateau
330	TOB	Tornquist Block on Eurasia
331	UKB	United Kingdom Block on Eurasia

400 Soviet Union

401	SIB	Siberian Craton
402	KAZ	Kazakhstan
403	KOL	Kolyma
404	SAK	Sakhalin
405	VRK	Verkhoyansk
406	KAM	Kamchatka

500 India and the Middle East

501	IND	India
502	CEY	Ceylon-Sri Lanka
503	ARB	Arabia
504	TRK	Turkey
505	IRN	Iran
506	AFF	Afghanistan (Fara)

507	AFS	Afghanistan (Sistan)
508	SIN	Sinai
509	LEB	Lebanon

600 Southeast Asia

601	NCH	N. China Platform
602	SCH	S. China Platform
603	SEA	Malaya-Burma
604	ICH	Indochina
605	JAP	Japan
606	TIB	Tibet
607	MCH	Manchuria
608	NPS	N. Phillipine Sea
609	SPS	S. Phillipine Sea
610	EPV	E. Parece Vela
611	WPV	W. Parece Vela
612	NCS	Northside South China Sea
613	SCS	Southside South China Sea
614	KLM	Kalimantan
615	PNG	Papua-New Guinea
616	NTB	North Tibet
617	RDB	Reed Bank
618	MAC	Macclesfield Bank
619	SIK	Sikhate Alin
620	VLA	Vladivostok sliver
621	CSA	N. C. Sikhate Alin sliver
622	NSA	N. Sikhate Alin sliver
623	NMS	N-most Sikhate Alin sliver
624	SAK	Sakhalin
625	CHK	C. Hokkaido
626	WHK	W. Hokkaido
627	NEH	N. E. Honshu
628	CHN	C. Honshu
629	KAN	Kanto Region
630	SWH	S. W. Honshu
631	NWK	N. W. Kyushu
632	TSO	Tsushima-Strati Block
633	NKO	N. Korean Plate
634	SKO	S. Korean Plate
635	KYR	Kita-Tamato Ridge
636	YAM	Yamato Ridge
637	OKI	Oki Ridge
638	SAD	Sado Ridge
639	NKM	N. Korean Margin Banks
640	NEM	N. E. Margin-Japan Basin
641	JBS	Japan Basin Spreading Center
642	YBS	Yamato Basin Spreading Center
643	LSM	Laptev Sea Margin
666	SUL	Sulu Basin
667	SES	Southeast Sulawesi
668	WSW	West Sulawesi
669	NES	Northeast Sulawesi

670	SLA	Sula
671	OKT	Okinawa Trough
672	BGB	Bangka-Belitung
673	NSM	North Sumatra
674	WPH	W. Philippines
675	SMB	Sumba
676	BLA	Bali-Alor
677	PAL	Palawan Block
678	EPH	E. Philippines
679	HAL	Halmahera
680	BUR	Buru
681	SER	Seram
682	KTB	Kep Tanimbar
683	WET	Wetar
684	TIM	Timor
685	GNA	General Asia
686	BSS	Barisan - S. Sumatra
687	AND	Andaman-Nicobar Ridge
688	WCB	S. West Caroline Basin
689	SEC	Southeast Caroline Basin
690	NEC	Northeast Caroline Basin
691	EAU	Eauripii Ridge
692	WCR	W. Caroline Ridge
693	CAR	Caroline Ridge
694	MAP	Mapia Ridge
695	AMM	Amami Plateau
696	BON	Bonin Ridge
697	NNG	North New Guinea
699	MAR	Mariana Ridge

700 Africa

701	AFR	African Craton
702	MAD	Madagascar
703	AGL	Agulhas
704	SEY	Seychelles
705	MAS	Saya de Maya-Mascarene
706	ORA	Oran Meseta
707	MOR	Moroccan Meseta
708	KAL	Kalbylies
709	SOM	Somalia plate
710	DAN	Danakil plate
711	PEP	Prince Edward plate
712	LVB	Lake Victoria block
713	NMZ	N. Mozambique
714	NWA	Northwest Africa
715	NEA	Northeast Africa
750	MAL	Malvinas Plate

800 Australia and Antarctica

801	AUS	Australian craton
802	ANT	E. Antarctic craton
803	WAP	W. Antarctic Peninsula
804	MBL	Marie Byrdland
805	ELL	Ellsworth Mts.
806	NNZ	N. New Zealand
807	SNZ	S. New Zealand
808	THR	Thurston Island
809	WHT	Whitmore Mts.
810	BRK	Berkner Island
811	STI	S. Shetland Islands
812	SOB	South Orkney Islands Block
813	CHT	Chatham Rise
814	BEL	Bellinghausen
815	BBK	Bruce Bank
816	DBW	Discovery Bank West
817	DBE	Discovery Bank East
818	HDB	Herdman Bank
819	OBW	Orkney Bank West
820	WSE	Western Scotia southeast
822	NLB	North Lau Basin
823	LAU	Lau Ridge
824	VIT	Vityaz
825	FIJ	Fiji
826	MNF	Mid-North Fiji (Basin)
827	NHB	New Hebrides
828	SLI	Solomon Islands
829	SSO	Woodlark Basin
830	BMK	South Bismark
831	NKG	North Kerguelen
832	BPT	Bellona Plateau
833	LHR	Lord Howe Rise
834	NFR	Norfolk Ridge
835	TKR	Three Kings Rise
836	NCS	North Coral Sea
837	STN	South Tonga (Ridge)
838	WST	West South Fiji
839	ESF	East South Fiji
840	ETS	East Tasman Sea
841	SLH	South Lord Howe Rise
842	MNF	Mid (piece) Norfolk (Ridge)
843	ENF	East Norfolk (Ridge)
844	NNF	North Norfolk (Ridge)
875	NAT	Naturaliste Plateau
880	WSC	West Scotia East (Central Scotia Sea)

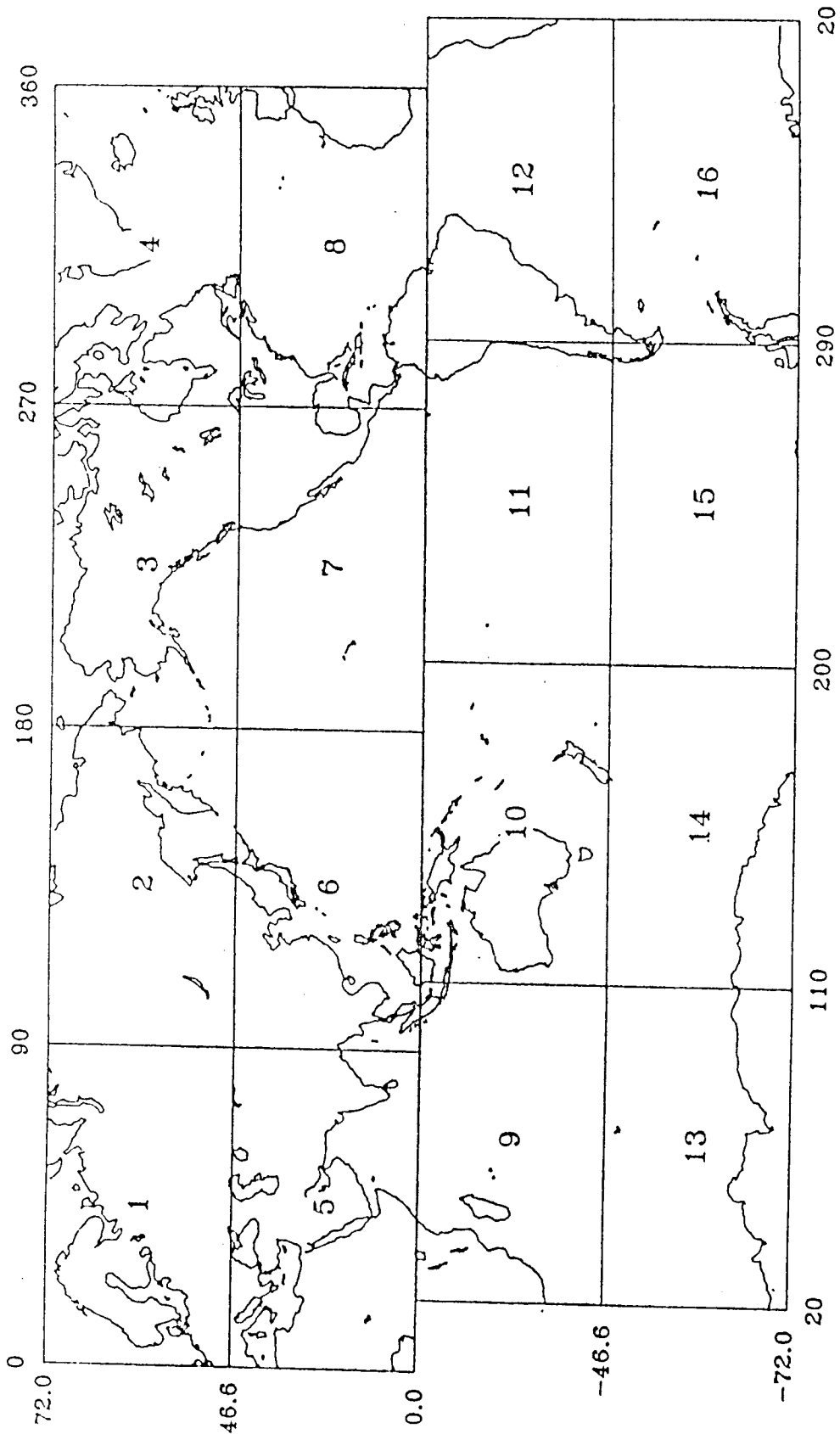
900 World Oceans

901	PAC	Pacific plate
902	NAZ	Nazca plate
903	FAR	Farallon plate

904	ALU	Aluk
906	HHS	Henry Hudson
907	JMN	Jan Mayen
908	JNN	Jan Mayen North
909	COC	Cocos
910	JFC	Juan de Fuca
911	WHR	Wharton
912	NMG	North Magellan
913	SMG	South Magellan
914	CHK	Chinook
915	RIV	Rivera
916	MTH	Mathematician
917	GLP	Guadelupe
918	KUL	Kula
919	PHX	Phoenix
920	NIC	Nicobar
921	IDM	Indiaman
922	EAS	Easter
925	LEF	Leif plate

Appendix C: List of Files Sent with 1987 Update

<u>File Name</u>	<u>Description</u>	<u>Progress Report No.</u>
PALEOMAP.FOR	updated PALEOMAP.FOR for creating reconstruction plotfiles	38
MEGAPOLY.FOR	for database management	36
Digitizing programs	for digitizing data in POMP format	37
DIGMER.FOR	for a map with mercator projection	
DIGMERE.FOR	for a map with elliptical mercator projection	
DIGMERT.FOR	for a map with transverse mercator projection	
DIGSTER.FOR	for a map with polar stereographic projection	
MASTER87.ROT	most current rotation file	
<hr/>		
Global data files	combined regional files, plus coastlines, continental margins, sutures, and bathymetry from SUTURE.DAT	
COASTS.DAT	contains coastlines, continental margins, and 5-degree grid on continents	
FAULTS.DAT	contains faults, sutures, ophiolites, basins, and volcanics	
SEAFLOOR.DAT	contains magnetic anomaly data, fracture zones, and bathymetry	
ISOCHRON.S.DAT	contains the isochrons from the North and Central Atlantic, the South Atlantic, the Southwest Indian Ocean, and the South Pacific	24, 25, 26, 27, 29
<hr/>		
Tectonic Fabric Files	from satellite altimetry data (correspond to GEBCO windows on next page)	32
SS01_SCAND.DAT		
SS02_KAMCHATKA.DAT		
SS03_ALASKA.DAT		
SS04_NATL.DAT		
SS05_NIND.DAT		
SS06_SWPAC.DAT		
SS07_SEPAC.DAT		
SS08_CARB.DAT		
SS08_CATL.DAT		
SS09_SWIND.DAT		
SS10_AUS.DAT		
SS11_SCPAC.DAT		
SS12_SATL.DAT		
SSGS13_SWIND.DAT		
SSGS14_SEIND.DAT		
SSGS15_SSPAC.DAT		
GS16_SSATL.DAT		



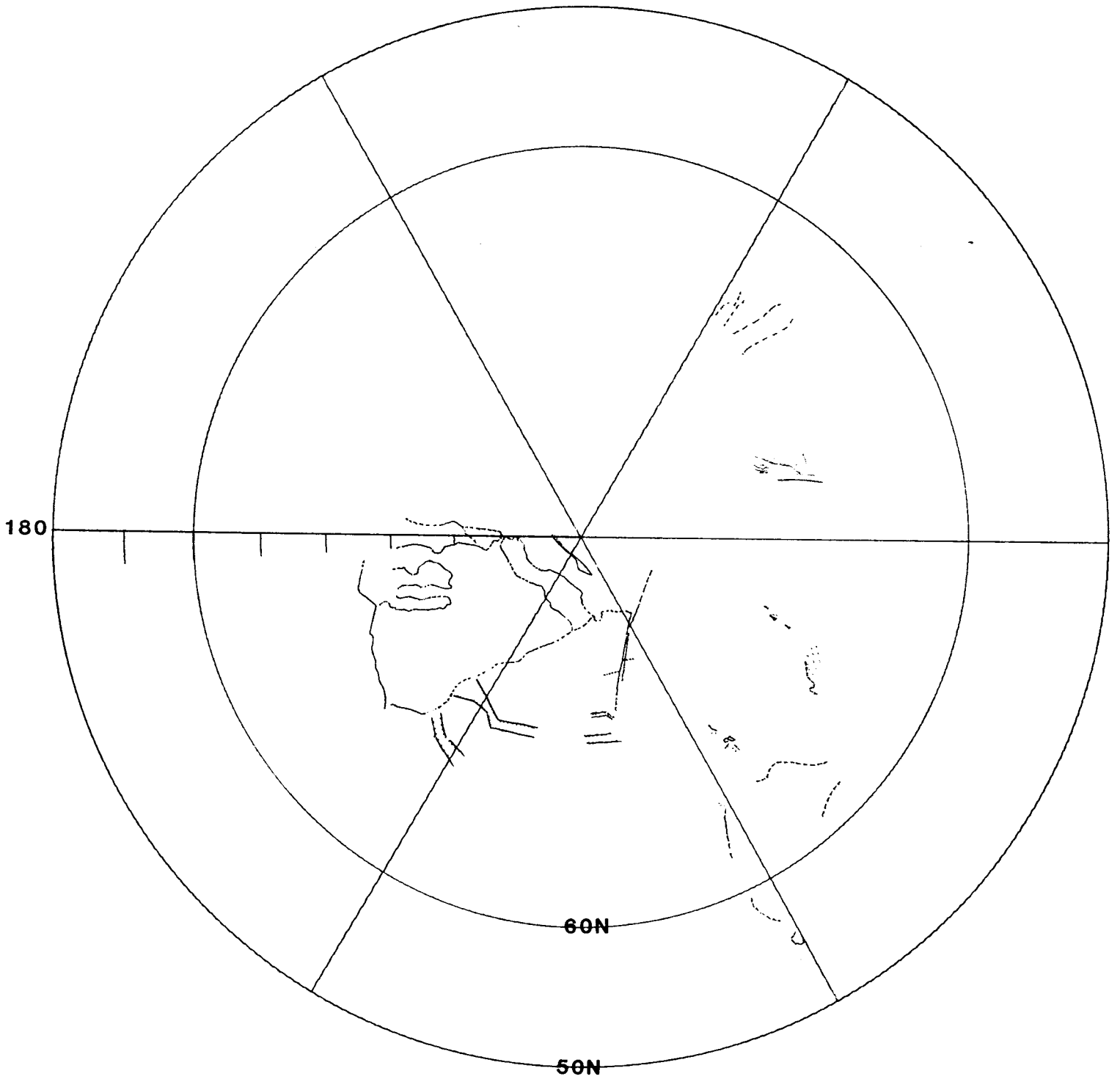
The tectonic fabric map data files (Progress Report No. 32) from satellite altimetry data are divided into 16 regional files according to the GEBCO sheets as shown above.

LARSON.DAT	isochrons from The Bedrock Geology of the World Map by Larson et al. (1985)	34
LARSON.ROT	rotation file used to rotate LARSON.DAT	34
<hr/>		
PZMZ_FAST.DAT	low resolution geographic data file containing present day coastlines and continental margins	33
PGEOG.ROT	special rotation file for paleogeography files and PZMZ_FAST.DAT	33
Paleogeography Files	each file has outline of shallow seas/continental margins, landmasses, and mountains for their respective times	33
PG_VIN.DAT	for 16 Ma	
PG_LUT.DAT	for 48 Ma	
PG_MAE.DAT	for 70 Ma	
PG_CEN.DAT	for 95 Ma	
PG_VOL.DAT	for 148 Ma	
PG_PLI.DAT	for 195 Ma	
PG_IND.DAT	for 242 Ma	
PG_KAZ.DAT	for 255 Ma	
PG_WEST.DAT	for 306 Ma	
PG_VIS.DAT	for 342 Ma	
PG_EMS.DAT	for 390 Ma	
PG_WEN.DAT	for 425 Ma	
PG_CL.DAT	for 458 Ma	
PG_FRAN.DAT	for 547 Ma	
<hr/>		
Regional Files	individual files for regional areas	
ARCT04.DAT	Arctic area	26
NCATL07.DAT	North and Central Atlantic data including isochrons	26
CARB04.DAT	Caribbean Sea	(17)
EAFR03.DAT	East African data	
SATL06.DAT	South Atlantic data with isochrons	27
SCOTIA01.DAT	Scotia Sea	28
CIND01.DAT	updated Indian Ocean data including isochrons	25,29
WIND06.DAT	West Indian Ocean data (same as WIND05.DAT sent out in 1986 update minus the updated sections in CIND01.DAT)	
EIND06.DAT	East Indian Ocean data (same as EIND03.DAT sent out in 1986 update minus the updated sections in CIND01.DAT)	
SPAC07.DAT	South Pacific	24
CPAC03.DAT	Central Pacific	24
SPACISO.DAT	South and Central Pacific isochrons	24
NPAC03.DAT	North Pacific data files	
SEASIA01.DAT	Southeast Asia	
SWPMB01.DAT	Southwest Pacific Marginal Basins	

FILE 1 ARCTIC OCEAN [ARCT04.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
9001	Canadian Hydrographic Service, 1981, General Bathymetric Map of the Oceans (GEBCO), scale 1:10,000,000.
9002	Crane,R.C., 1987, in Tailleir, I.L. and Weimer, P. eds., <u>Alaskan North Slope Geology</u> , Society of Economic Paleontologists and Mineralogists, Pacific Section, Los Angeles.
9003	Smith, D.G., 1987, in Tailleir, I.L. and Weimer, P. eds., <u>Alaskan North Slope Geology</u> , Society of Economic Paleontologists and Mineralogists, Pacific Section, Los Angeles.
9004	Perry, R.K., Fleming, H.S., Weber, J.R., Kristoffersenn, Y., Hall, J.K., Grantz, A., and Johnson, G.L., 1985, Bathymetry of the Arctic Ocean, Naval Research Laboratory - Acoustics Division, scale 1:4,704,075 at 78°N.

ARCT04.DAT



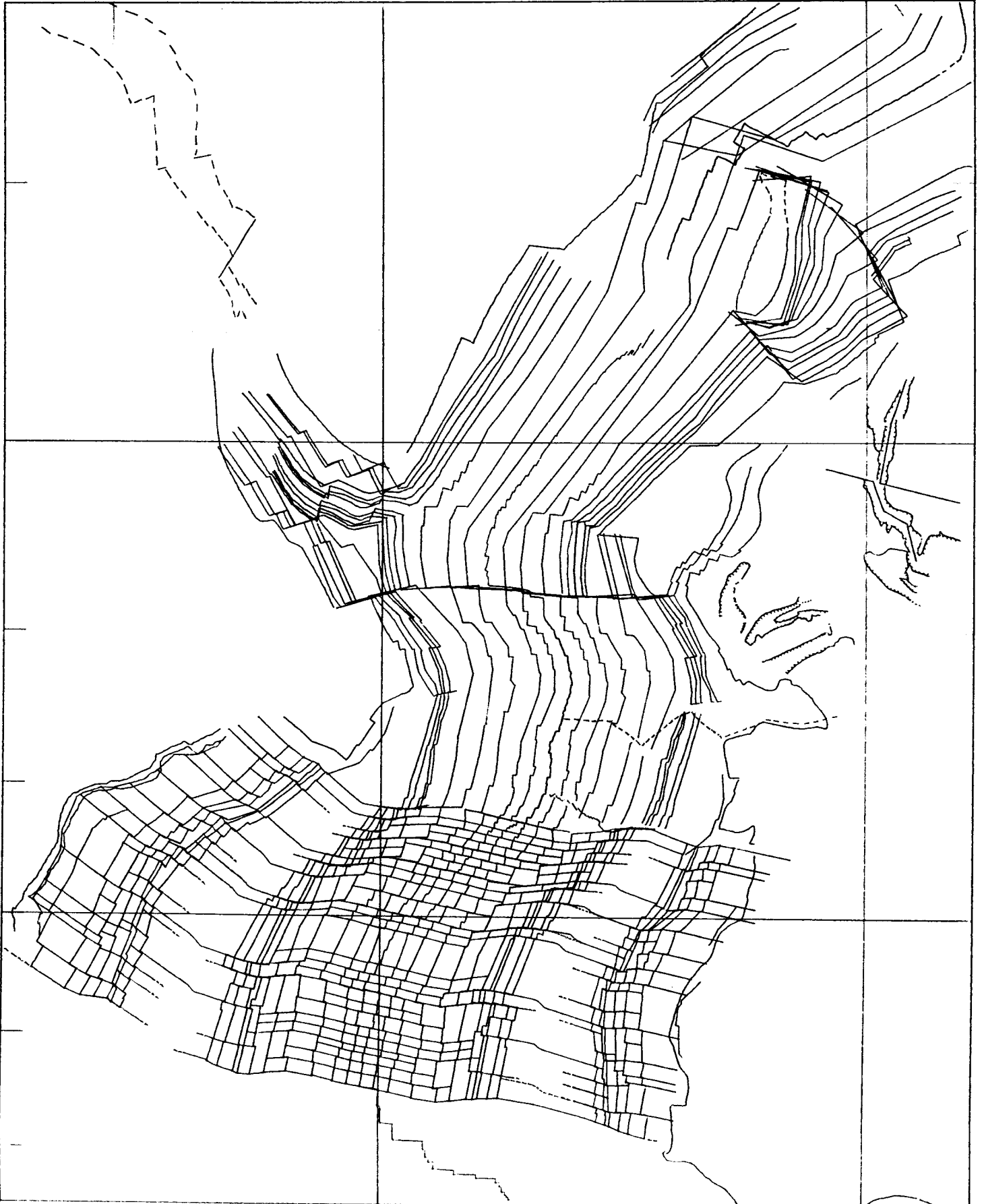
FILE 2 NORTH AND CENTRAL ATLANTIC [NCATL07.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
9005	Zonenshayn, L.P., Natapov, L.M., Savostin, L.A. and Stausuii, A.P., 1978, Recent plate tectonics of northeastern Asia in connection with the opening of the North Atlantic and Arctic Ocean Basins, <u>Oceanology</u> , 18(5): 550-555.
9101	Klitgord, K.D. and Schouten, H. 1986, in Vogt, P.R. and Tucholke, B.E., eds., <u>The Western North Atlantic Region</u> , <u>GSA DNAG</u> vol. M, pp. 351-378.
9102	Nunns, A.G., 1983, in Bott, M., Saxov, S., Talwani, M. and Thiede, J., eds., <u>Structure and Development of the Greenland - Scotland Ridge</u> , pp. 11-30.
9103	Sandwell, D.T., 1984, Along-track deflection of the vertical from Seasat: GEBCO overlays, NOAA Tech. Memo., NOS NGS-40.
9104	Canadian Hydrographic Service, 1981, General Bathymetric Map of the Oceans (GEBCO), scale 1:10,000,000.
9105	Reksnes, P.A. and Vågnes, E., 1985, Evolution of the Greenland Sea and Eurasia Basin, Cand. Scient. thesis, Univ. of Oslo, 136 pp.
9106	Bott, M.N.P., 1987, The continental margin of central East Greenland in relation to North Atlantic plate tectonic evolution, <u>J. Geol. Soc.</u> , London, 144: 561-568.
9107	Ohta, Y., 1982, Morpho-tectonic studies around Svalbard and the northernmost Atlantic, <u>Can. Soc. Pet. Geol. Mem.</u> 8, pp. 415-429.
9108	Larsen, H.L., 1984, Geology of the East Greenland shelf: in Petroleum Geology of the North European Margin, Norweg. Pet. Soc., Graham & Trotman, pp. 329-339.
9109	Vogt, P.R., 1986, Magnetic anomalies of the North Atlantic Ocean, in: Bogt, P.R. and Tucholke, B.E., eds., <u>The Geology of North America</u> , vol. M, The Western North Atlantic Region, GSA, Plate 3.
9110	Young, U.D., Voight, B. and Orkan, N.I., 1987, The Iceland Prospective: Its role in the development of plate tectonic theory, in 1987 Geodynamics Symposium, Silver Anniversary Celebration of Plate Tectonics, Texas A&M Univ., April 1987, pp. 96-98, abs.
9111	Hirkensson, E. and Pederson, S.A.S., 1982, Late Paleozoic to Tertiary tectonic evolution of the continental margin in North Greenland, in <u>Arctic Geology and Geophysics</u> , Proc. Third Int. Sym. Arctic Geol., Embry, A.F. and Balkwell, H.R., eds., Canad. Soc. Pet. Geol., Calgary, Canada, 1982.
9112	Miall, A.D., 1983, the Neves Strait problem: A re-evaluation of the geological evidence in terms of a diffuse oblique-slip plate boundary between Greenland and the Canadian Arctic Islands, <u>Tectonophysics</u> , 100:227-239.
9113	Emery, K.O. and Uchupi, E., 1984, <u>The Geology of the Atlantic Ocean</u> , Springer, New York, 1050 p.
9114	Hagevang, T., Eldholm, O. and Aalstad, J., 1983, Pre-23 magnetic anomalies between Jan Mayen and Greenland-Senja fracture zones in the Norwegian Sea, <u>Marine Geophys. Res.</u> , 5:

- 345-363.
- 9115 Talwani, M. And Eldholm, O., 1977, Evolution of the Norwegian - Greenland Sea, GSA Bull., 88: 969-999.
- 9116 Ziegler, P.A., 1982, Geological atlas of Western and Central Europe, Shell Int. Petr. Maatschappij B.V. 130 p.
- 9201 Klitgord, K.D. and Schouten, H. 1986, in Vogt, P.R. and Tucholke, B.E., eds., The Western North Atlantic Region, GSA DNAG vol. M, pp. 351-378.
- 9202 Nunns, A.G., 1983, in Bott, M., Saxov, S., Talwani, M. and Thiede, J., eds., Structure and Development of the Greenland - Scotland Ridge, pp. 11-30.
- 9203 Sandwell, D.T., 1984, Along-track deflection of the vertical from Seasat: GEBCO overlays, NOAA Tech. Memo., NOS NGS-40.
- 9204 Canadian Hydrographic Service, 1981, General Bathymetric Map of the Oceans (GEBCO), scale 1:10,000,000.
- 9205 Searle, R., 1980, Tectonic pattern of the Azores spreading centre and triple junction, Earth Planet. Sci. Let., 51: 415-434.

NCATL07.DAT

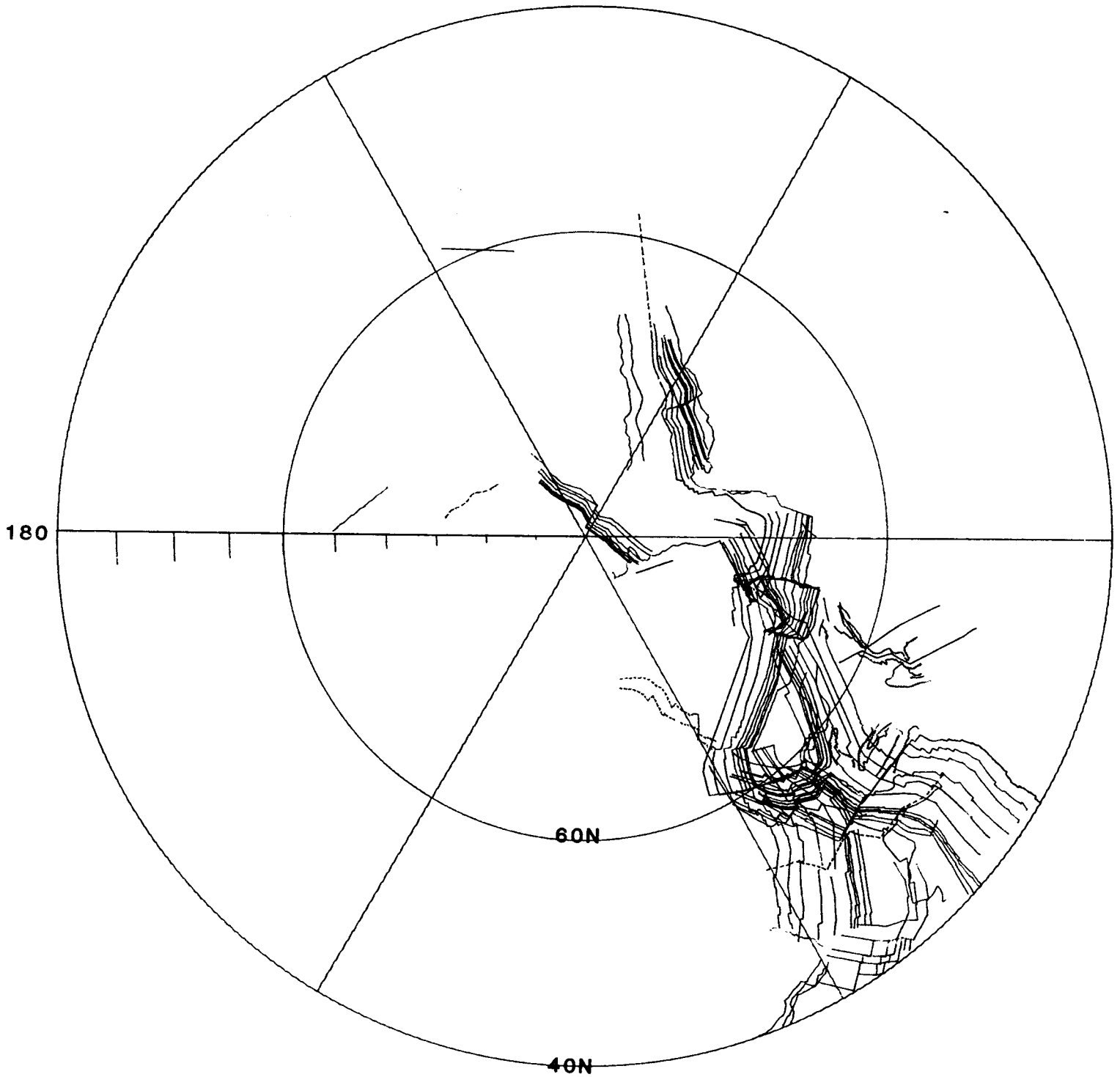
75N



5N

80W

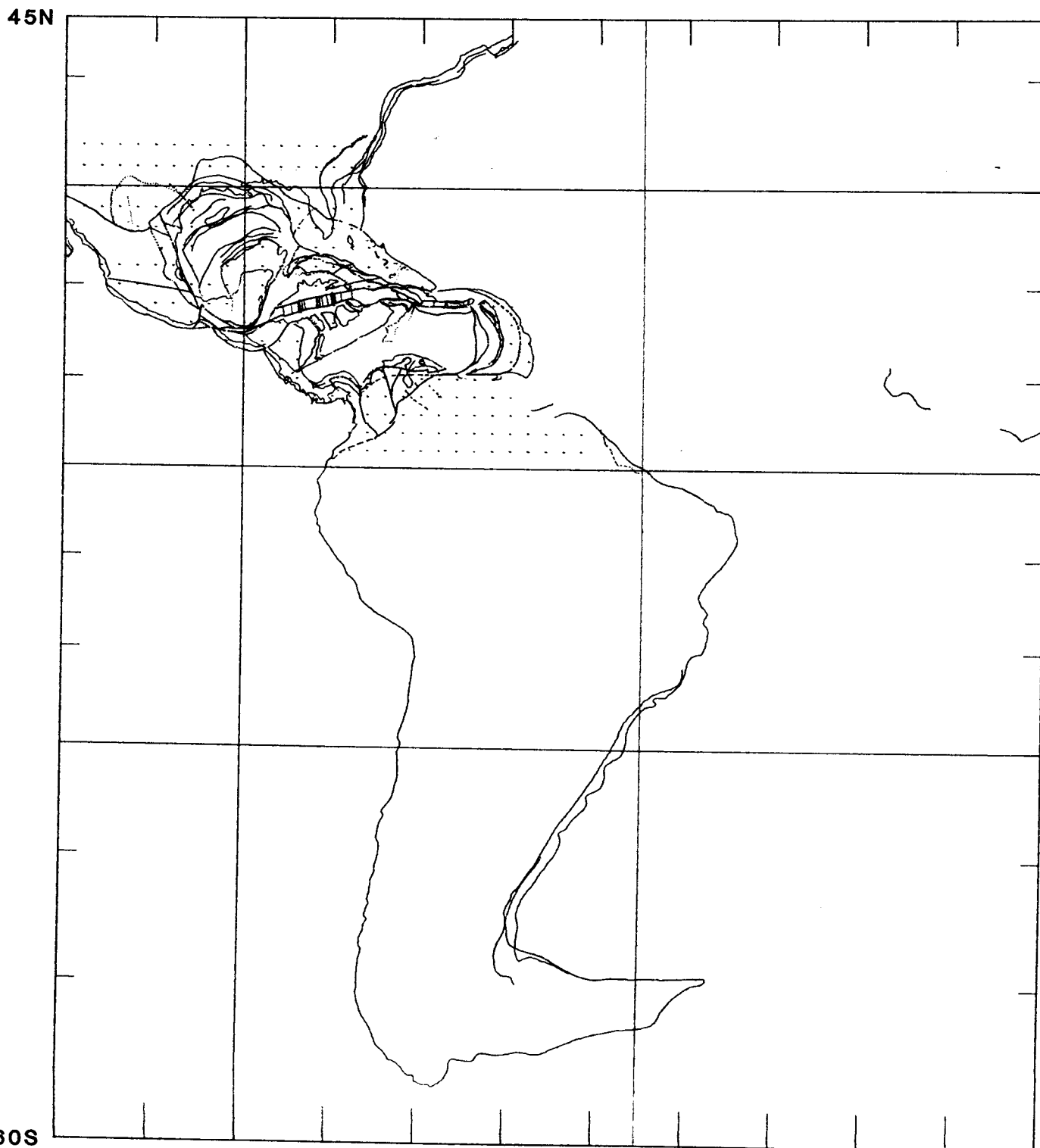
NCATL07.DAT



FILE 3 CARIBBEAN SEA [CARB04.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
2001	Case, J. and Holcombe, T., 1980, Geologic-tectonic map of the Caribbean region, scale 1:2,500,000.
2002	Canadian Hydrographic Service, 1981, General Bathymetric Map of the Oceans (GEBCO), scale 1:10,000,000.
2003	Sawyer, D., 1985, Total tectonic subsidence: A parameter for distinguishing crustal type at the U.S. Atlantic continental margin, <u>J. Geophys. Res.</u> , 90(B9): 7751-7769.
2004	Rosencrantz, E., Ross, M. and Sclater, J.G. (in prep), Age and evolution of the Cayman Trough: New evidence from magnetic anomalies.
2005	Dunbar, J. and Sawyer, D., 1986, Crust extension within the Gulf of Mexico: Implications for the breakup of Western Pangea, abs. from 1986 Geodynamics Symposium.
2006	Klitgord, K.D., Popenoe, P. and Schouten, H., 1984, Florida: A Jurassic transform plate boundary, <u>J. Geophys. Res.</u> , 89(B9) 7753-7772.
2007	Buffler, R., Shaub., J. Huerta, R., Ibrahim, A. and Watkins, D., 1981, A model for the early evolution of the Gulf of Mexico Basin, <u>Oceanol. Acta</u> , C3, pp. 129-136.
2008	Mejorada, P., 1976, Carta geologica del la Republica Mexicana, scale 1:2,000,000.
2009	Masclé, J., Marinho, M. and Wannesson, J., 1986, The structure of the Guinean continental margin: Implications for the connection between the Central and Southern Atlantic ocean, <u>Sond. Geol. Rundschau</u> , 75(1): 57-70.

CARB04.DAT



60S

110W

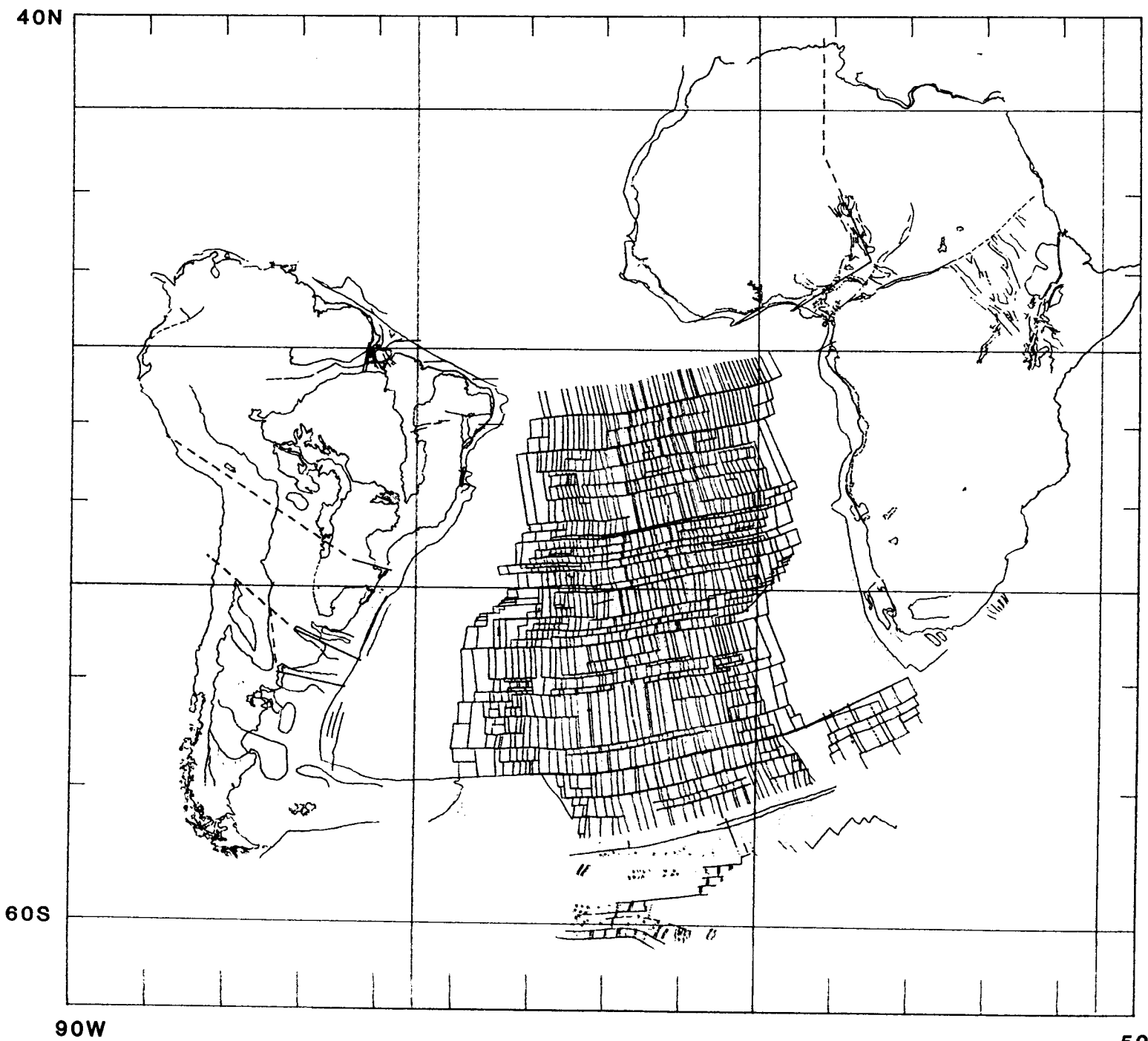
C-11

0

FILE 4 SOUTH ATLANTIC [SATLO6.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
0099	World Data Bank #2 (CIA), Cartigraphic Database - Natural and manmade features of the world (digitized format), NTIS PB 271-874.
9301	Barker, P. and Lawver, L., 1986, unpublished.
9302	Ladd, 1975 (thesis).
9303	Barker, P. and Lawver, L., 1986, unpublished.
9306	GEBCO 5-8, General Bathymetric Chart of the Oceans (GEBCO), 1981, Canadian Hydrographic Service, Ottawa, Canada.
9307	Emery, K.O. and Uchupi, E., 1984, <u>The geology of the Atlantic Ocean</u> , Springer Verlag New York Inc.
9308	Fairhead, J.D., in press, Mesozoic and Cenozoic plate tectonic reconstructions of the Central - South Atlantic Ocean: the role of the West and Central African Rift System (in prep).
9318	Cande, S., LaBrecque, J.L., and Haxby, W.B., in prep., Plate kinematics of the South Atlantic: Chron 34 to present, submitted to <u>J. Geophys. Res.</u>
9319	Rabinowitz, P.D. and LaBrecque, J., 1979, The Mesozoic South Atlantic Ocean and evolution of its continental margins, <u>J. Geophys. Res.</u> , 84(B11): 5973-6002.
9320	Martin, A.K., Goodlad, S.W., Hartnady, C.J.H., and du Plessis, A., 1982, Cretaceous paleopositions of the Falkland Plateau relative to southern Africa using Mesozoic seafloor spreading anomalies, <u>Geophys. J. R. astr. Soc.</u> , 71: 567-579.
9321	LaBrecque, J.L. and Hayes, D.E., 1979, <u>Earth and Planet. Sci. Letters</u> , 45: 411-428.
9322	Nürnberg, D., Müller, R.D., and Scotese, C.R., 1987. The tectonic evolution of the South Atlantic from Late Jurassic to present, Paleooceanographic Mapping Project Progress Report No. 27-1287.

SATL06.DAT

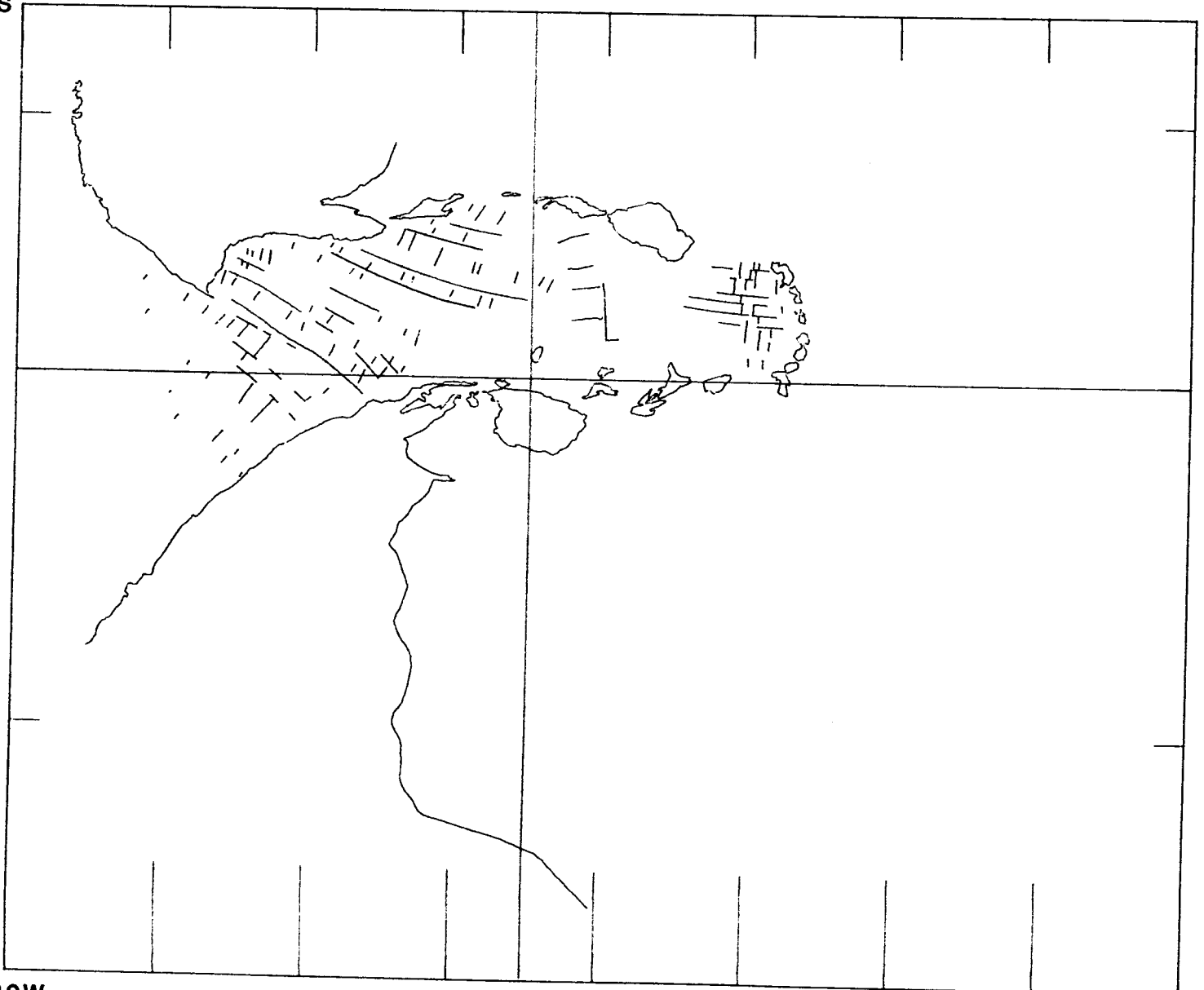


FILE 5 SCOTIA SEA [SCOTIA01.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
2401	British Antarctic Survey, 1985, Tectonic Map of the Scotia Arc, Scale 1:3,000,000. BAS (Misc.) 3. Cambridge, British Antarctic Survey.
2501	British Antarctic Survey, 1985, Tectonic Map of the Scotia Arc, Scale 1:3,000,000. BAS (Misc.) 3. Cambridge, British Antarctic Survey.
8501	British Antarctic Survey, 1985, Tectonic Map of the Scotia Arc, Scale 1:3,000,000. BAS (Misc.) 3. Cambridge, British Antarctic Survey.

SCOTIA01.DAT

45S



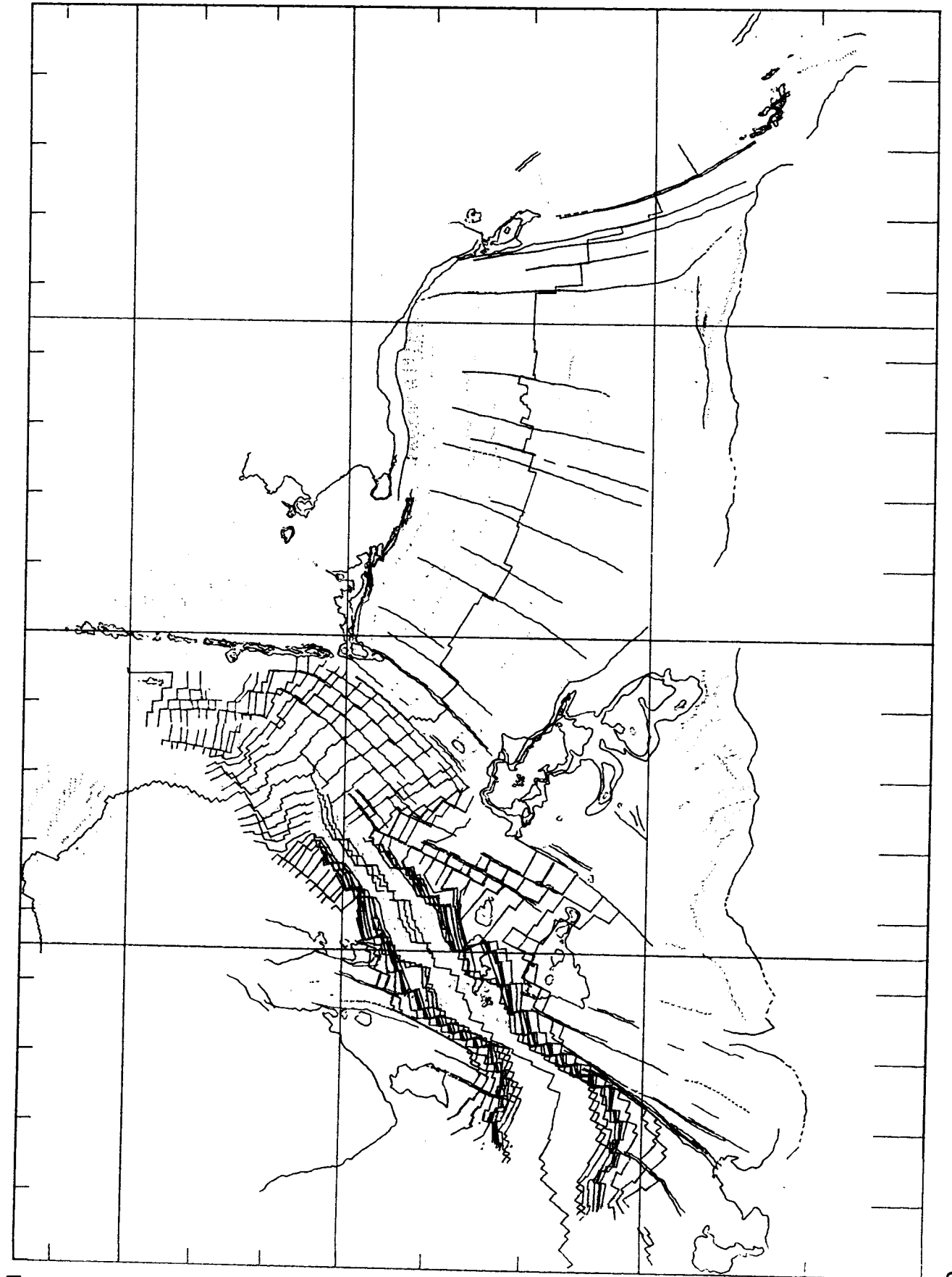
75S

80W

FILE 6 INDIAN OCEAN [CIND01.DAT]
(new compilation in process)

<u>Ref.ID#</u>	<u>Reference</u>
0987	HMAP Coastlines Data Base
9399	GEBCO 5-16: General Bathymetric Chart of the Oceans (GEBCO), 1981, Canadian Hydrographic Service, Ottawa, Canada.
9408	Patriat, P., PhD Thesis, Université de Paris VI, France. [Central Indian Ridge]
9409	Patriat, P., PhD Thesis, Université de Paris VI, France. [Southeast Indian Ridge]
9410	Patriat, P., PhD Thesis, Université de Paris VI, France. [Southwest Indian Ridge]
9408	Patriat, P., PhD Thesis, Université de Paris VI, France. [Central Indian Basin]
9426	GEBCO 5-9: General Bathymetric Chart of the Oceans (GEBCO), 1981, Canadian Hydrographic Service, Ottawa, Canada.
9431	Royer, J.-Y., Patriat, P., Bergh, H.W., and Scotese, C. R., 1988, <u>Tectonophysics</u> (in press). [See POMP Progress Report #25-0987.
9440	Karasik, A. M., Mercuryev, S. A., Mitin, L. I., Sochenova, N. A., and Yanovsky, V. N., 1986, <u>Izv. Acad. Sci. USSR</u> , 286: 933-938.
9441	Schlich, R., Munsch, M. and Coffin, M. F., 1988, Bathymetric Chart of the Kerguelen Plateau, Institut de Physique du Globe de Strasbourg, Strasbourg, France, (in press).
9444	Royer, J.-Y., and Schlich, R., <u>J. Geophys. Res.</u> , (in press)
9450	Royer, J.-Y., 1987, new compilation, POMP Progress Report #29-1287
9516	Stock, J., 1981, Master Thesis, M.I.T., Cambridge, Massachusetts.
9526	GEBCO 5-14: General Bathymetric Chart of the Oceans (GEBCO), 1981, Canadian Hydrographic Service, Ottawa, Canada.
9531	<u>Initial Reports of the Deep Sea Drilling Project</u> , Washindton (US Govn't Printing Office), v. 22 & 25.
9538	Royer, J.-Y., 1987, new compilation, POMP Progress Report #29-1287
9550	Royer, J.-Y., 1987, new compilation, POMP Progress Report #29-1287
9599	Multiple References from EIND03.DAT reference list
7001	Cochran, J. R., 1981, <u>J. Geophys. Res.</u> , 86: 263-287.

CIND01.DAT



15N

75S

0

180E

FILE 7 WESTERN INDIAN OCEAN [WINDO6.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
9402	Bergh, H.W. and Norton, I.O., 1976, <u>J. Geophys. Res.</u> , 81: 5221-5239.
9403	Bergh, H.W., pers. comm.
9404	Berth, H.W., and Barrett, D.M., 1980, <u>Nature</u> , 287: 591-595.
9405	Bergh, H.W. and Barrett, D.M., 1980, <u>Nature</u> , 287: 591-595.
9406	Fisher, R.L., pers. comm.
9407	General Bathymetric Chart of the Oceans (GEBCO), 1981, Canadian Hydrographic Service, Ottawa, Canada.
9408	Patriat, P., 1983, Ph.D. thesis.
9409	Patriat, P., 1983, Ph.D. thesis.
9410	Patriat, P., 1983, Ph.D. thesis.
9411	LaBrecque, J.L. and Hayes, D.E., 1979, <u>Earth and Planet. Sci. Lett.</u> , 45: 411-428.
9413	Norton, I.O. and Sclater, J.G., 1979, <u>J. Geophys. Res.</u> , 84: 6803-6830.
9414	Patriat, P., 1983, Ph.D. thesis.
9415	Schlich, R., 1982, in Nairn, A.E.M., and Stehli, F., <u>The Indian Ocean</u> , 6: 51-147.
9416	Barker, P. and Lawver, L., 1986, unpublished.
9417	General Bathymetric Chart of the Oceans (GEBCO), 1981, Canadian Hydrographic Service, Ottawa, Canada.
9418	Schlich, R., 1982, in Nairn, A.E.M., and Stehli, F., <u>The Indian Ocean</u> , 6: 51-147.
9419	Masson, D.P., Kidd, R.B., and Roberts, D.G., 1982, <u>Geology</u> , 10: 264-266.
9420	Segoufin, J. and Patriat, P., 1981, <u>Bull. Soc. Geol. France</u> , 23: 603-607.
9421	Whitmarsh, R.B., 1974, <u>Init. Rep. D.S.D.P.</u> , 23: 527-535.
9422	Liu, C.S., Curray, J., and McDonald, J.M., 1982, <u>Earth and Planet. Sci. Letters</u> , 331-342.
9423	Schlich, R., 1982, in Nairn, A.E.M., and Stehli, F., <u>The Indian Ocean</u> , 6: 51-147.
9424	Schlich, R., 1982, in Nairn, A.E.M., and Stehli, F., <u>The Indian Ocean</u> , 6: 51-147.
9425	Goodlad, S.W., Martin, A.K., and Hartnady, C., 1982, <u>Nature</u> , 295: 686-688.
9426	(GEBCO maps)
9430	Rabinowitz, P.D. and LaBrecque, J.L., 1979, <u>J. Geophys. Res.</u> , 84: 5973-6002.
9431	Royer, J.-Y., Patriat, P., Bergh, H.W., and Scotese, C. R., 1988, <u>Tectonophysics</u> (in press). [POMP Progress Report #25-0987].
9432	Segoufin, J., 1981, Ph.D. thesis; Somali Basin magnetics
9433	Segoufin, J., 1981, Ph.D. thesis; Mozambique Basin magnetics
9434	Fisher, R.L., Sclater, J.G. and McKenzie, D., 1971, <u>GSA Bull.</u> 82: 553-562.
9435	Tapscott, C., Patriat, P., Fisher, R.L., Sclater, J.G., Hoskins, H., and Parsons, B., 1980, <u>J. Geophys. Res.</u> , 85: 4723-4739.

- 9436 Whitmarsh, R.B., Wese, O.E., Ross, D.A., et al., 1974, Initial Reports of the DSDP, 23: 527-535, Washington, (U.S. Government Print. Office).
- 9437 Rabinowitz, Coffin and Falvey, 1985, Science 220, (4592) 67-69.

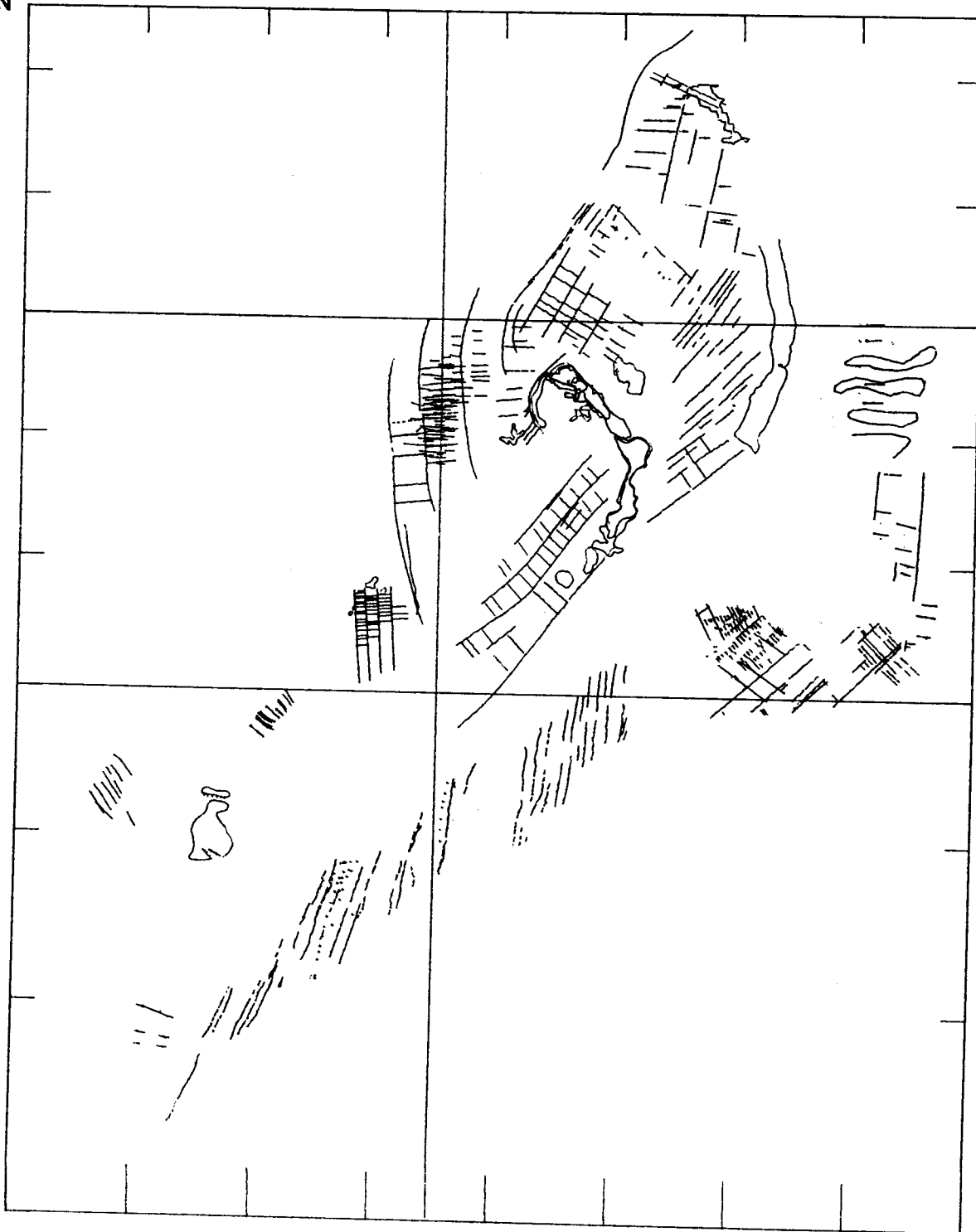
WIND06.DAT

25N

60S

10E

90E

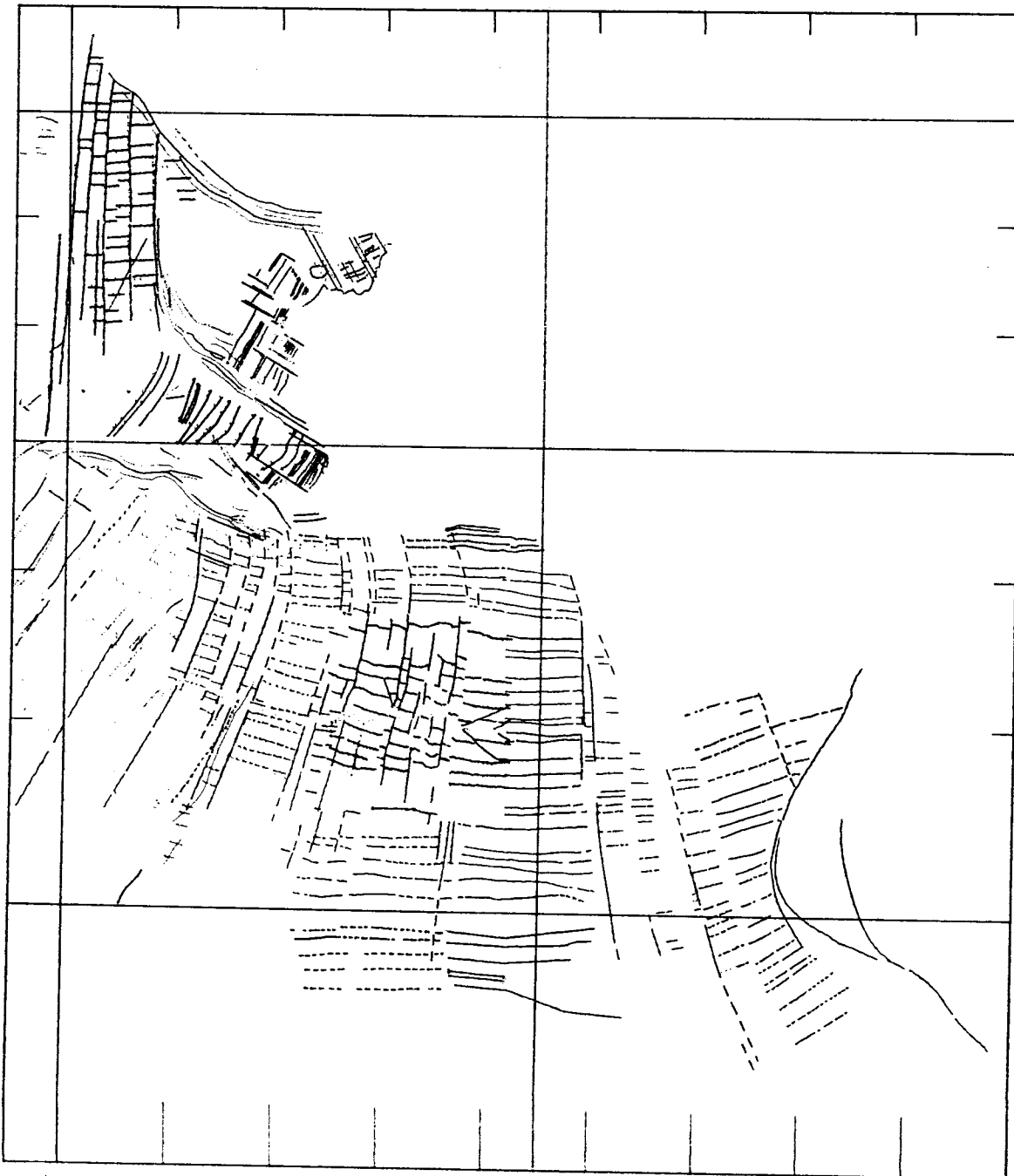


FILE 8 EASTERN INDIAN OCEAN [EINDO6.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
9501	Larson, R.L., 1975, <u>Geology</u> , 3:69-71.
9502	Larson, R.L., Mutter, J.C., Diebold, J.B., Carpenter, G.B., and, Symonds, D., 1979, <u>Earth and Planet. Sci. Letters</u> , 45: 105-114.
9503	Markl, R.G., 1974, <u>Nature</u> , 251: 196-199.
9504	Markl, R.G., 1978, <u>Earth and Planet. Sci. Letters</u> , 39: 211-225.
9505	Vogt, P.R., Cherkis, N.Z., Morgan, G.A., 1983, <u>Antarctic Earth Science</u> , 608-613.
9506	Weissel, J.K. and Hayes, D.E., 1972, <u>Antarctic Oceanology II - The Antarctic - New Zealand Sector</u> , 165-196.
9507	Larson et al., 1978, <u>J. Geophys. Res.</u> , 83(B2): 773-782.
9508	Sclater, J.G., Luyendyk, B.P., and Meinke, L., 1976, <u>GSA Bull.</u> , 87: 371-378.
9509	McKenzie, D. and Slater, J.G., 1971, <u>Geophys J. Roy. Ast. Soc.</u> , 25: 437-528.
9511	Norton, I.O. and Slater, J.G., 1979, <u>J. Geophys. Res.</u> , 84: 6803-6830.
9512	Veevers, J.J., 1986, <u>Earth Planet. Sci. Lett.</u> , 77: 91-99.
9513	Veevers, J.J., Tayton, J.W., Johnson, B.D., and Hansen, L., 1985, <u>J. Geophys.</u> , 56: 106-120.

EIND06.DAT

10N



70S

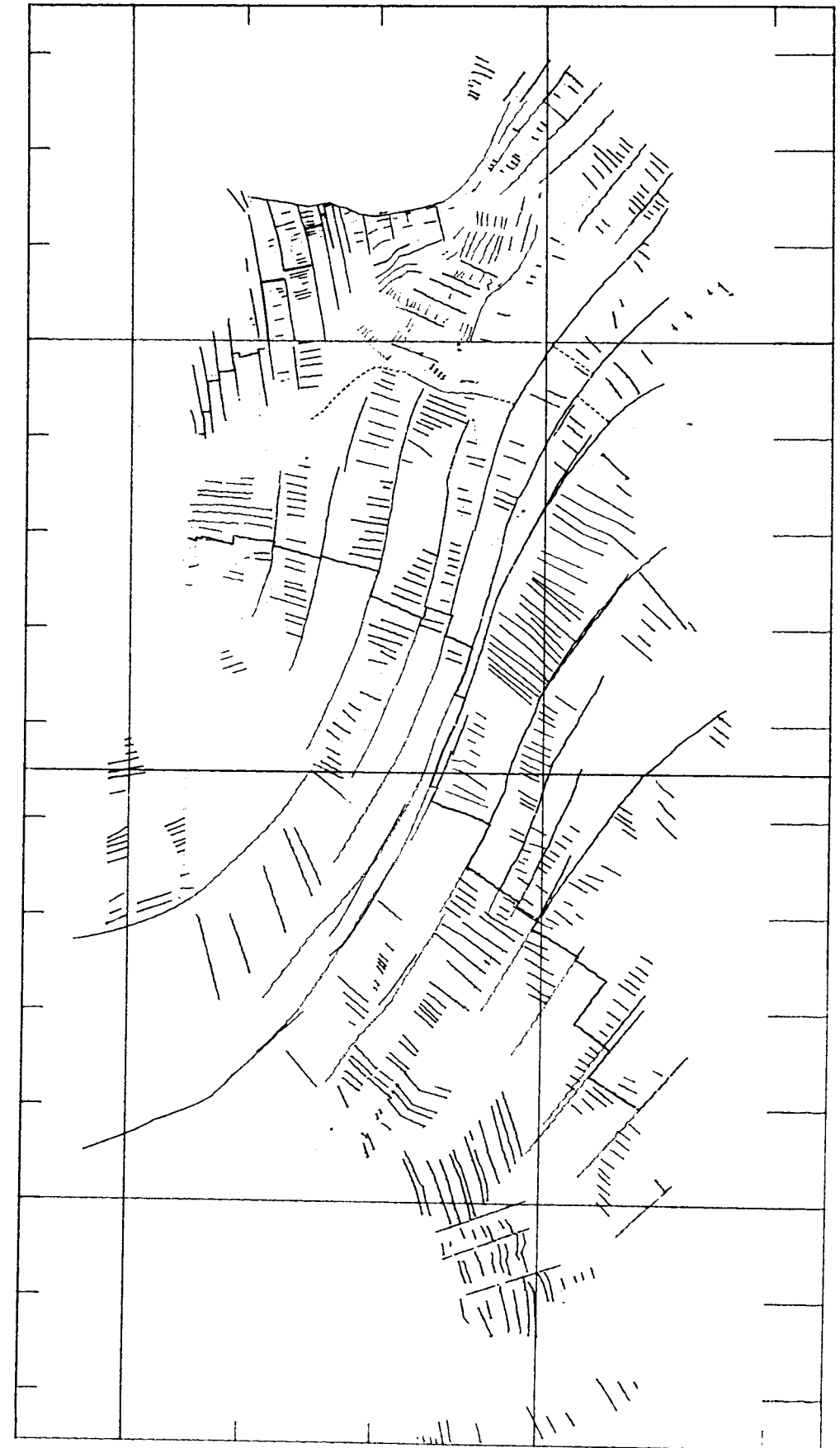
90E

180E

FILE 9 SOUTH PACIFIC [SPACO7.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
9700	Barker, P.F., 1982, <u>J. Geol. Soc. London</u> , 139: 787-801.
9701	Candé, S.C., Herron, E.M., and Hall, B.R., 1982, <u>Earth Planet. Sci. Letters</u> , 57: 47-62.
9702	Christofel, D.A. and Falconer, R.F., 1972, <u>Antarctic Oceanology II - The Antarctic - New Zealand Sector</u> .
9703	Molnar, P., Atwater, T., Mammerickx, J., and Smith, S.M., 1975, <u>Geophys. J.R. Astr. Soc.</u> , 40: 383-420.
9704	Weissel, J.K., Hayes, D.E., and Herron, E.M., 1977, <u>Marine Geology</u> , 25: 231-277.
9799	Stock, J. and Molner, P., 1987, <u>Nature</u> , 325: 495-499.

SPAC07.DAT



20S

70S

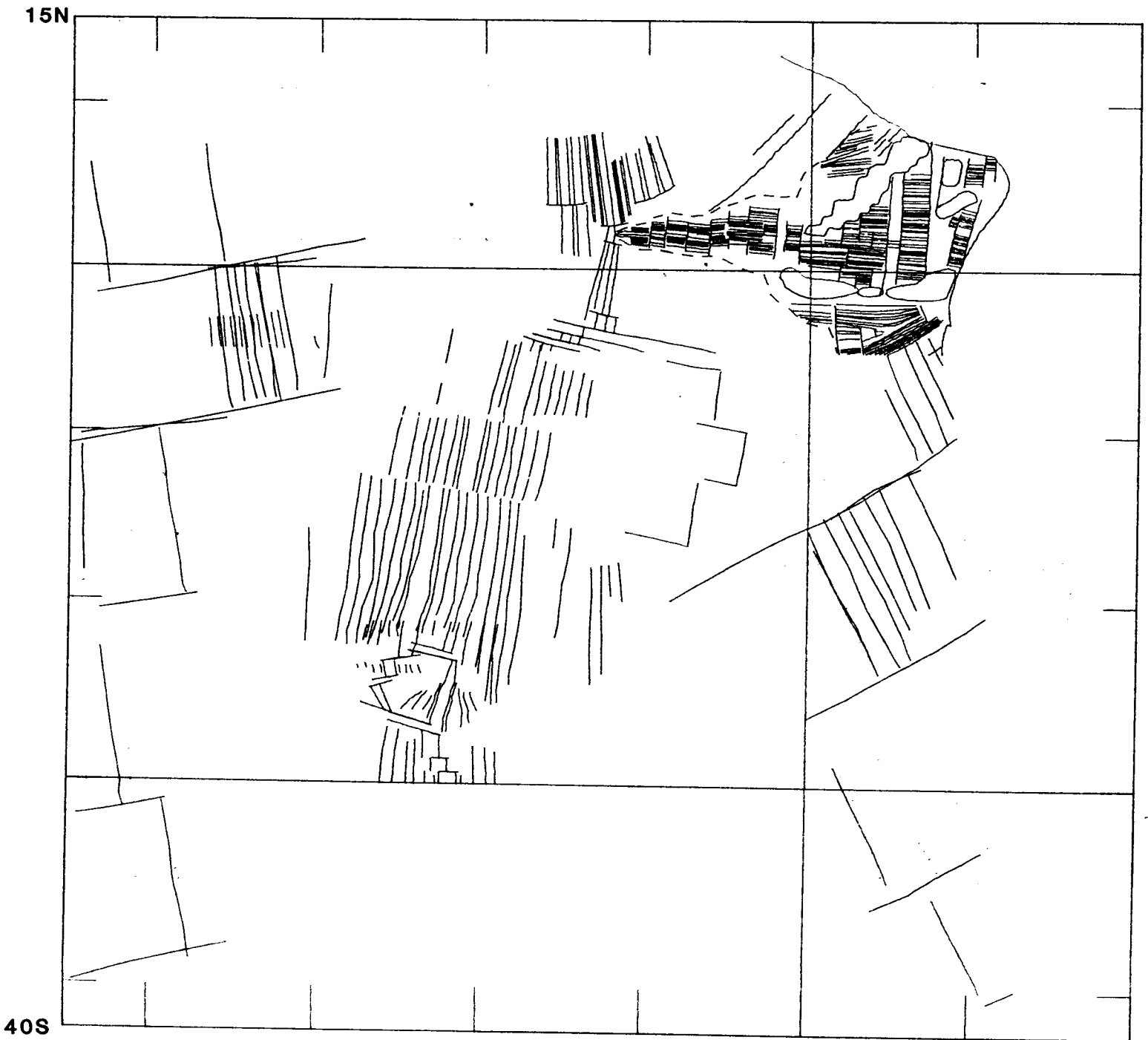
155E

55W

FILE 10 CENTRAL PACIFIC [CPAC03.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
9605	Handschumacher, D.W., 1976, in <u>The Geophysics of the Pacific Ocean Basin and its Margins</u> , AGU Monograph 19, ed. G.H.Sutton, et al., Washington: AGU, pp. 177-202.
9607	Herron, E.M., 1972, <u>GSA Bull.</u> , 83: 1671-1692.
9608	Klitgord, K.D. and Mammerickx, J., 1983, <u>J. Geophys. Res.</u> , 6725-6750.
9609	Handschumacher, D.W., Pilger, R.H. Jr., Foreman, J.A., and Campbell, J.F., 1981, <u>GSA Memoir 154</u> , pp. 63-76.
9611	Mammerickx, J., Herron, E.M., and Dorman, L., 1980, <u>GSA Bull.</u> , 91: 263-271.
9610	Pardo-Casas, F. and Molnar, P., 1987, <u>Tectonics</u> , 6(3): 215-232.

CPAC03 .DAT



FILE 11 NORTH PACIFIC [NPACO4.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
9801	Klitgord, K.D. and Mammerickx, J., 1982, <u>J. Geophys. Res.</u> , 87:6725-6750.
9802	Tamaki, K., Toshima, M. and Larson, R.L., 1979, <u>J. Geophys. Res.</u> , 84: 4501-4510.
9803	Tamaki, K., Toshima, M. and Larson, R.L., 1979, <u>J. Geophys. Res.</u> , 84: 4501-4510.
9804	Candé, S.C., Larson, R.L., and LaBrecque, J.L., 1978, <u>Earth Planet. Sci. Letters</u> , 41: 434-440.
9805	Hilde, T.W.C., Isezki, Nobuhiro, and Wageman, J.M., 1976, in <u>The Geophysics of the Pacific Ocean Basin and its Margins</u> , p. 205-226 (Geophys. Mono. 19).
9806	Renkin, M., Master's thesis, The Univ. of TX at Austin, 1986. -

NPAC04.DAT



60N

0

140E

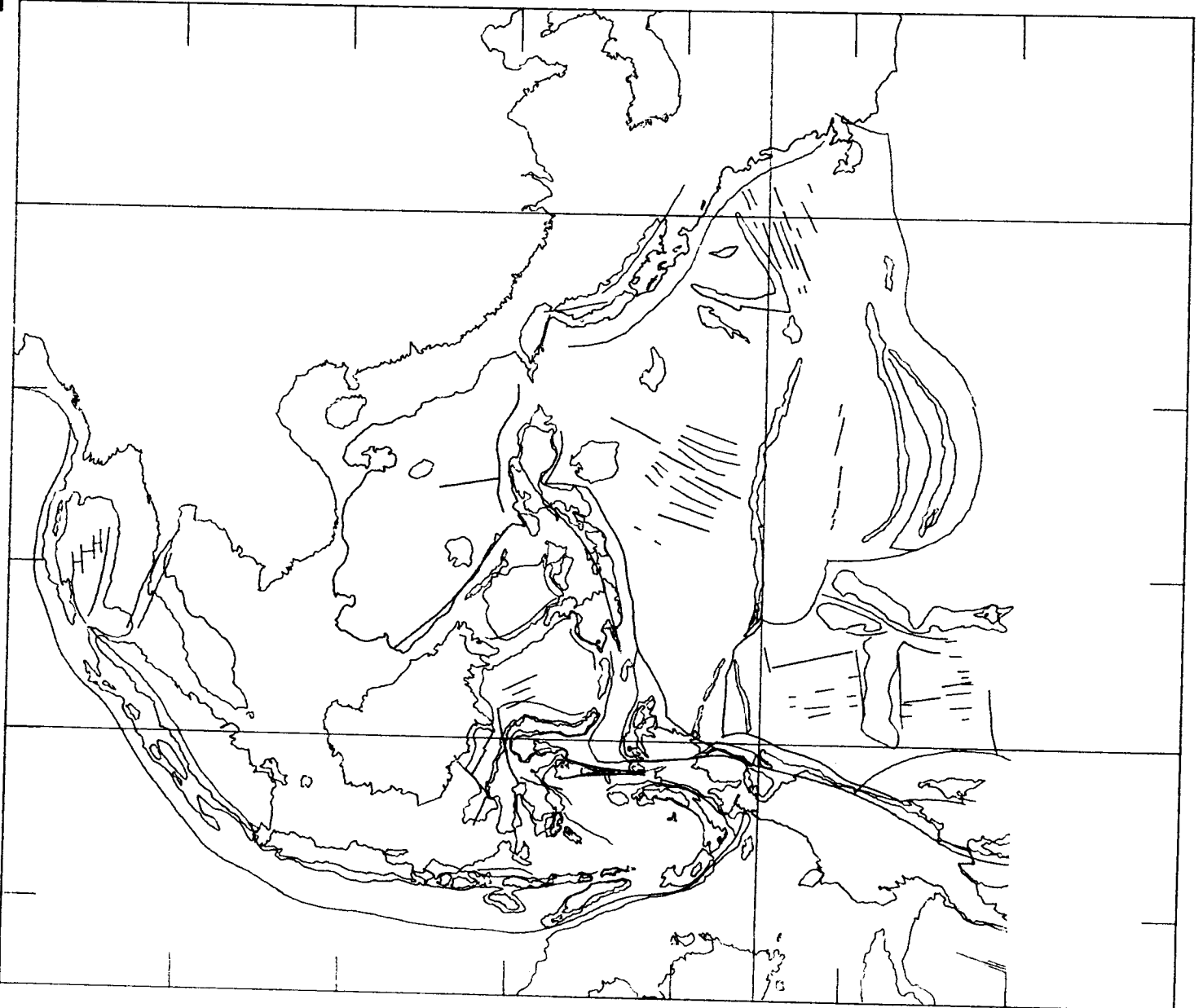
90W

FILE 12 SOUTHEAST ASIA [SEASIA01.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
0099	Australian coastline from global CIA digitized coastline database.
6320	Mammerickx, J., Fisher, R.L., Emmel, K.J., and Smith, S.M., 1976, Bathymetry of the East and Southeast Asian Seas, GSA Map and Chart Series MC-17, Washington, D.C.
6321	Hayes, D.E. and Taylor, B., 1978, A geophysical atlas of the East and Southeast Asian Seas, GSA Map and Chart Series MC-25, Washington, D.C.
6322	Hamilton, Warren, 1978, Tectonic map of the Indonesian region, USGS Survey, Map I-875-D, Reston, Va.
6520	Mammerickx, J., Fisher, R.L., Emmel, K.J., and Smith, S.M., 1976, Bathymetry of the East and Southeast Asian Seas, GSA Map and Chart Series MC-17, Washington, D.C.
6521	Hayes, D.E. and Taylor, B., 1978, A geophysical atlas of the East and Southeast Asian Seas, GSA Map and Chart Series MC-25, Washington, D.C.
6522	Hamilton, Warren, 1978, Tectonic map of the Indonesian region, USGS Survey, Map I-875-D, Reston, Va.
6720	Mammerickx, J., Fisher, R.L., Emmel, K.J., and Smith, S.M., 1976, Bathymetry of the East and Southeast Asian Seas, GSA Map and Chart Series MC-17, Washington, D.C.
6721	Hayes, D.E. and Taylor, B., 1978, A geophysical atlas of the East and Southeast Asian Seas, GSA Map and Chart Series MC-25, Washington, D.C.
6722	Hamilton, Warren, 1978, Tectonic map of the Indonesian region, USGS Survey, Map I-875-D, Reston, Va.
6820	Mammerickx, J., Fisher, R.L., Emmel, K.J., and Smith, S.M., 1976, Bathymetry of the East and Southeast Asian Seas, GSA Map and Chart Series MC-17, Washington, D.C.
6821	Hayes, D.E. and Taylor, B., 1978, A geophysical atlas of the East and Southeast Asian Seas, GSA Map and Chart Series MC-25, Washington, D.C.
6822	Hamilton, Warren, 1978, Tectonic map of the Indonesian region, USGS Survey, Map I-875-D, Reston, Va.
8020	Mammerickx, J., Fisher, R.L., Emmel, K.J., and Smith, S.M., 1976, Bathymetry of the East and Southeast Asian Seas, GSA Map and Chart Series MC-17, Washington, D.C.
8021	Hayes, D.E. and Taylor, B., 1978, A geophysical atlas of the East and Southeast Asian Seas, GSA Map and Chart Series MC-25, Washington, D.C.
8022	Hamilton, Warren, 1978, Tectonic map of the Indonesian region, USGS Survey, Map I-875-D, Reston, Va.

SEASIA01.DAT

40N



15S

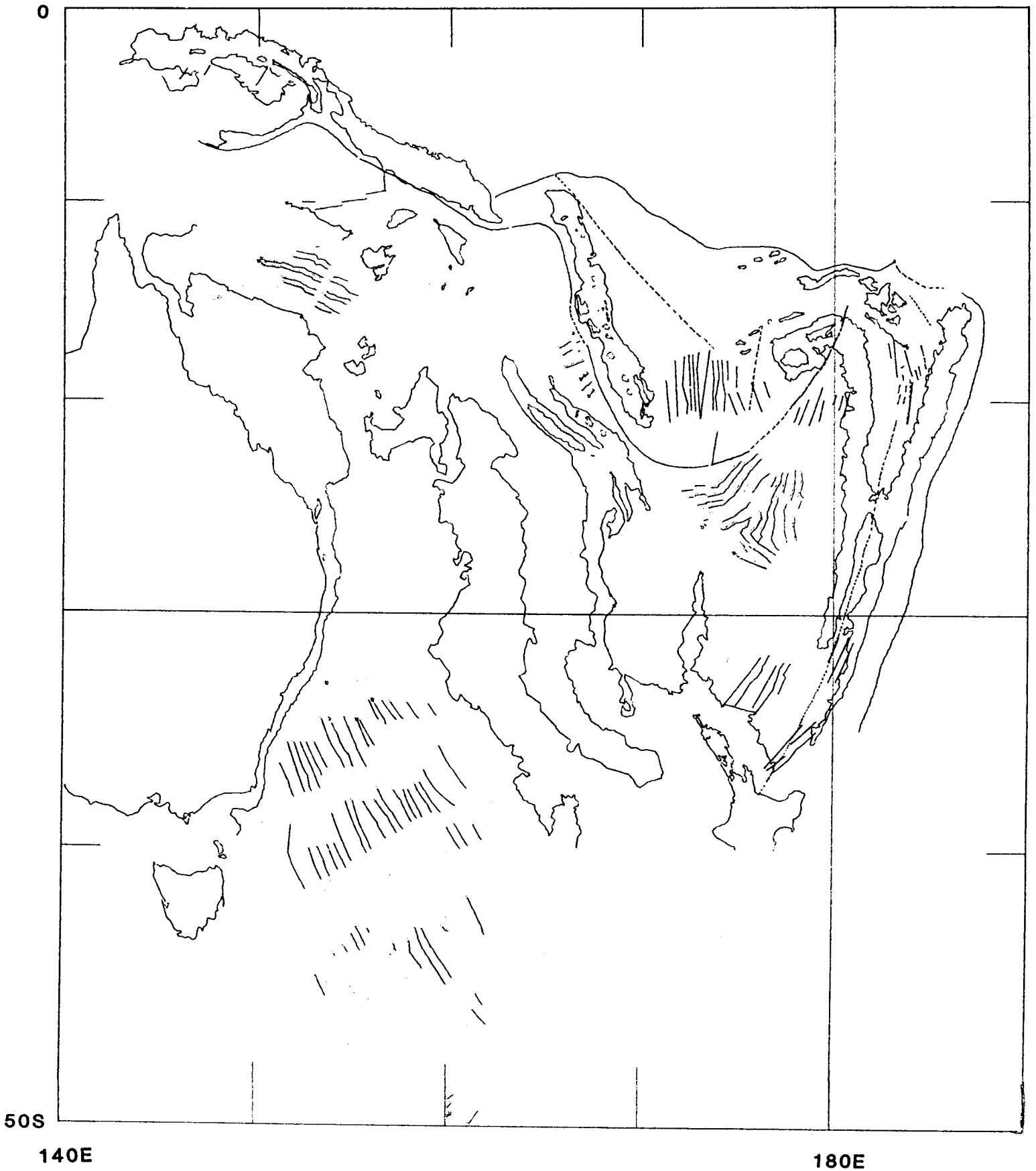
90E

160E

FILE 13 SOUTHWEST PACIFIC MARGINS [SWPM01.DAT]

<u>Ref.ID#</u>	<u>Reference</u>
0099	Australian coastline from global CIA digitized coastline database.
6801	Watts, A.B., Weissen, J.K., and Davey, F.J., 1977, in Talwani, M. and Pittman, W.C., eds., <u>Island Arcs, Deep Sea Trenches and Back-arc Basins</u> , pp. 419-427.
6802	Weissen et al., 1982, <u>Tectonophysics</u> , 87.
6803	Weissen, J.K. and Watts, A.B., 1979, <u>J. Geophys. Res.</u> , 84(B9): 4572-4582.
6804	Malahoff, 1982, <u>J. Geophys. Res.</u> , 87(B9):
6805	Weissen, J.K. and Hayes, D.E., 1977, <u>Earth Planet. Sci. Letters</u> , 36: 77-84.
6806	Kroenke, L.W., Jouannic, C. and Woodward, P., 1983, Bathymetry of the southwest Pacific, Geophysical Atlas of the southwest Pacific, chart 1, UNIGCP 110, United Nations ESCAP, New York.
6807	Packhorn, 1982, <u>Tectonophysics</u> , 87.

SWPMB01.DAT



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Appendix E: Introduction and glossary for MASTER87.ROT

Lawrence A. Lawver
Lisa M. Gahagan

We have attempted to organize the Master.Rot file so that it is easier for a casual user to understand. To that end we have adopted a uniform three letter designation for all plates used in the Paleomap program. A list of the plates containing their numeric designations, their alphabetic designations and their name is included as the tectonic elements file. We refer you to the tectonic element file for the complete listing of plates by number. Below we show seven lines taken from the MASTER87.ROT file. The three numbers in the lefthand column indicate the plate ID. In this case the plate is #201 and is South America, which is abbreviated to SAM. In the rotation file for this example, South America is being rotated with respect to Africa, abbreviated AFR and given the numeric ID of 701. The second column indicates the age which in this example is 118.7 million years or the same as magnetic anomaly M0 (abbreviated AN M0). The third and fourth columns contain the latitudinal and longitudinal coordinates for the pole of rotation that would rotate South America with respect to Africa from South America's present day location. The angle of rotation (the fifth column) uses the "righthand rule". Consequently for the first line below, present-day South America would have to be rotated 52.71° counterclockwise about a pole at 51.66° North, 33.05° West to bring it to its position at 118.7 million years ago with respect to a fixed Africa. The sixth column designates the plate with which South America is being rotated #701 (Africa). The exclamation point indicates the end of the data line for Paleomap and entries after that point are strictly comments. If you have used previous versions of Master.Rot you may notice that the comments have been straightened up a bit. We plan to make more housekeeping changes soon and will send an updated list to all interested parties. SAM-AFR identifies the two plates (#201 and #701), AN M0 gives the magnetic anomaly identification for the time 118.7 million years while DN/RDM are initials that identify the persons who determined this pole of rotation and 12/14/87 simply identifies the date on which this rotation was entered. Following the first line are five lines that begin 999. 999 in the first column causes the Paleomap program to ignore the whole line. The five lines give different poles of rotation for South America with respect to Africa for 118.7 million years before present. The references sighted are listed in the reference list for this note. The last line gives the pole of rotation for South America with respect to Africa for 121 million years ago. Magnetic anomaly M2 is dated as 121.0 million years before present and that is shown in the comment section.

You will notice that not all the entries in MASTER87.ROT are as well organized as these. We are working on the others.

```
201 118.7  51.66  -33.05  52.71  701 !SAM-AFR AN M0 DN/RDM, 12/14/87
999 118.7  55.10  -35.70  50.90  701 !SAM-AFR AN M0 Rabinowitz et al. 1979
999 118.7  51.78  -34.74  52.51  701 !SAM-AFR AN M0 MOD86 Klitgord (Martin et al.1982)
999 118.7  52.08  -34.03  51.39  701 !SAM-AFR AN M0 CANDE-PINDELL MODEL A,C
999 118.7  48.82  -32.90  54.34  701 !SAM-AFR AN M0 Scotese et al. (1988)
999 118.7  47.82  -31.45  52.68  701 !SAM-AFR AN M0 DN-RDM MODEL B
201 121.0  50.09  -31.92  53.36  701 !SAM-AFR AN M2 DN/RDM, 11/25/87
```

Individuals initials found in MASTER87.ROT:

LB	Lila Beckley	DN	Dirk Nürnberg
LMG	Lisa M. Gahagan	MIR	Malcolm I. Ross
CEH	Christoph E. Heubach	JYR	Jean-Yves Royer
LAL	Lawrence A. Lawver	CRS	Christopher R. Scotese
CLM	Catherine L. Mayes	RLT	Robynn L. Tomlins
RDM	R. Dietmar Müller		

Other abbreviations: o-old, y-young (used to distinguish magnetic anomalies that have been picked and which sides of the anomalies were used).

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