

**SHIP SCHEDULING REVIEW**

**Report of Meeting**

**23 June 1998**

**National Science Foundation  
4201 Wilson Boulevard, Room 730  
Arlington, VA 22230**



**BROWN.** MOANA WAVE is expected to be retired at the end of 1999. The NAVO Shallow Water Test Range request is withdrawn.

**NEW HORIZON** - Scripps - The Collier work has been funded but should be scheduled on WECOMA if possible. Goldfinger is double booked on WECOMA. In an effort to reduce transit time both of these cruise should be on WECOMA unless the Collier work conflicts with FOCl. In that case both should be on NEW HORIZON. An additional consideration is the need for Goldfinger to complete his work before the ALVIN/ATLANTIS program. SeaBeam has not been authorized for the Goldfinger cruise. If it is not possible to move the Collier and Goldfinger work to WECOMA and the two programs remain on the schedule the Chavez and Army Corp/SFSU cruises can be run out of San Francisco. The Goldfinger, Collins, and Torres (ATLANTIS) programs are intertwined. The scheduling of these programs need to be coordinated. The funding of five days for Staudigel has been declined. Twenty three days of CalCOFI work should be added to the schedule. The NAVO OAOA work is flexible but should be scheduled as early as possible in the year. The Worcester/ONR 13 day work has been moved to REVELLE for 11 days.

**POINT SUR** - Moss Landing Marine Laboratory - The Bruland work has been funded. The NPS work remains pending. The spring NAVO cruise should move earlier if possible.

**WECOMA** - Oregon State University - See comments above in regards to Collier and Goldfinger. The ONR Nittrouer and Moum work has been funded, Ruttenberg declined. If possible the Webb recovery cruise should move to EWING for a joint Menke/Webb cruise. The NOAA portion of the Smith work needs to be resolved.

**SPROUL** - Scripps - The Jaffe NSF work has been declined while the Jaffe ONR work remains pending. The number of days for Pineda needs to be checked. The Melville K work remains pending. Pickering is SPAWAR funded not ONR.

**URRACA** - STRI - Glynn work of 15 days NSF time has been funded.

**LAURENTIAN** - University of Michigan - The Cuhel work has been funded and should be added to the schedule. All NSF Coop work is still being worked out.

**GYRE** - TAMU - The schedule remains as presented.

**LONGHORN** - University of Texas - The NOAA ECHOHAB work of Muller-Karger has not been funded.

**PELICAN** - LUMCON - Funding for two Bianchi cruises and two Houde cruises have been declined. The Thorsos cruise should be listed as ONR not Private. Briggs has been funded for 18 days not 20. The Graham OCE number is 9733441. Add 21 days of NOAA work for Vargo (ex ENDEAVOR and CAPE HATTERAS). Add 16 days of NRL work for Erskine (ex CAPE HATTERAS) two ship operations with SEWARD JOHNSON.

**WEATHERBIRD II** - BBSR - The WEATHERBIRD II schedule should stand as submitted.

**CALANUS** - University of Miami - The funding for Milne, McNeill and Saltzman have all been declined. No proposal was received for Szmant. The Zika work is funded. The OCE number for Fell is 984182.

**BLUE FIN** - Skidaway - Check the cruise for Verity. Is this carry-over work? Nelson's NSF work has been declined, the ONR work is still in question. The Paffenhofer 1998 proposal has been declined. NOAA's SEA GRANT cruise for Blanton is still pending.

**SEA DIVER** - HBOI- The ONR Phiney work has been funded. NURP programs could be added to this schedule.

**CAPE HATTERAS** - Duke/UNC - Is the Paffenhofer work carry-over? He has not been funded for 1999. The Matrai work should be transferred to OCEANUS, LINK or ENDEAVOR. Both the NOAA Vargo work and the NRL Erskine work should go to PELICAN to reduce transit time. The NAVO work off Virginia Beach should go to CAPE HENLOPEN. Boyd is still pending, Herbers is funded.

**CAPE HENLOPEN** - University of Delaware - The Wong cruise should be scheduled for May and October. The Boyd cruise is pending. The ONR Blough cruise is funded.

**EDWIN LINK** - HBOI - The funding for the Youngbluth cruise has been declined. See notes for CAPE HATTERAS above concerning Matrai. The OCE number for Cook is

9619707. There are two cruises for Gilligan the first has been funded and the second is pending.

**ENDEAVOR - University of Rhode Island** - The Muller-Karger NOAA work has been declined. Vargo should go to PELICAN and Sanford to SEWARD JOHNSON. Both Jones and Patterson have been declined. See note for CAPE HATTERAS above concerning Matrai. The GLOBEC work still needs to be sorted out.

**OCEANUS - WHOI** - The Moffett work needs to go later. Erskine is funded but should be listed as ONR not NRL. The Houghton, and Beardsley work is still pending. Madin, Collins, Chave and Ravizza have been declined. See note for CAPE HATTERAS above concerning Matrai. The GLOBEC work still needs to be sorted out. The Zafiriou program is funded.

**SEWARD JOHNSON - HBOI** - The work of Limeburner, Wilson, Pawlik, Erskine and Thorsos are all funded. The Sanford work may be scheduled later than desired. NRL has a project for Richardson and ONR has an acoustics proposal for possible additional work in the AUTECH area.

**ATLANTIS - WHOI** - All scheduled cruises have an ALVIN component. The schedule as published needs to be paired down by about 30 days. It may be possible to shift Carson and Cowen to JASON and relieve pressure on ALVIN. These cruises are to be run on THOMPSON or REVELLE. Seyfried could possibly move to another vent site to save time on the Juan de Fuca. Garcia and Blackman will be delayed until 2000.

**KNORR - WHOI** - The funding for all programs on KNORR have been declined except for Smith and the NAVO GOMEX program. If Smith can use Hydro-sweep this cruise could go on EWING early in the year. NAVO will reevaluate the GOMEX work to determine if the SeaBeam component can be removed from this program thus opening it up for a smaller vessel. The Fairbanks/LDEO cruise is not on any schedule and may not be appropriate for any UNOLS vessel.

**BROWN - NOAA** - The NSF Weller cruise has not been funded. BROWN will sail with only NOAA programs. The ship expects to be able to do the TAO work in the fall of 1999.

EWING/MELVILLE/REVELLE and THOMPSON were considered as a group. Below is a listing by PI as assigned to each ship. The decisions were made to reduce transits where possible. The cruises are not necessarily listed in the appropriate sequence. The following programs were declined from this grouping of ships: Hart/Kurz (EWING), Coale (EWING), Weller (REVELLE), Fisher (THOMPSON).

EWING - Smith NSF 30; Webb NSF 3/ Menke NSF 15; Bangs NSF 43; Mutter NSF 19; Martinez NSF 41; Staudigal NSF 48; Harding NSF 19; Capone NSF 30; (Mutter NSF 10; Fulthorpe ODP 35 in 2000)

MELVILLE - Wilkes HITS NAVO 34; Wilkes Gravity NAVO 75; Talley ONR 58, Wilkes Gravity NAVO 75; Perkins NRL 11; Worcester ONR 17. (the gravity programs to be split as necessary for running ONR/NRL programs in acceptable time slots). Decision made to designate lead PI as Riser not Talley. (The Howe cruise on MELVILLE's schedule is the one listed as Worcester ONR 17. This is a separate cruise from the Worcester cruise that was originally on NEW HORIZON and was moved to REVELLE.)

REVELLE - Pinkel UC 5; Kastner UC 9; Spiess NSF 12; Goldfinger NSF 30; Van Geen NSF 34; Fornari NSF 41; Lonsdale NSF 28; Worcester ONR 11; Trehu NSF 14.

THOMPSON - Wilkes Columbia River NAVO 20; Bullock SE Bering Sea 26; UW 45; Stratoform NSF 19; Bullock Vents NOAA #1, 24; Bullock Vents NOAA #2, 23; Bullock Multi-Moorings NOAA, 32, Chadwick NSF, 5; Cowen/Carson NSF 20; Wilkes Columbia River NAVO 20; Bullock Bering Sea NOAA 36.

# **APPENDIX I**

5/15/98

Hello schedulers:

The first of the two annual scheduling meetings is nearly upon us. The first meeting will be at NSF on 23 June. This will be a review of the preliminary 1999 schedules filed by the UNOLS operators. The Ship Scheduling Committee Chair and the co-Chair, the UNOLS Chairman, the UNOLS Executive Sectry, and representatives from the funding agencies (NSF, NOAA, ONR plus interested Science Program Managers) will be in attendance. It is anticipated that results of the NSF May panel will be available in preliminary form. These will provide a realistic idea of the number of science programs, their geographic location and the number of days we need to support in 1999. Schedules will be reviewed with the aim of assuring the overall science requirements are met consistent with the most cost effective operation of the fleet. A report of the meeting and its recommendations will be provided by email.

It is time to get our proposed/tentative 1999 schedules published and into the system so they are available for review and discussion. The agencies feel it is important that the schedules be available to them relatively soon. Please email the schedules to "unols@gsosun1.gso.uri.edu". The UNOLS Office is prepared to post them on the OCEANIC BBS as soon as received. Multiple schedules are discouraged although options could be imbedded in the first cut. Jack Bash will post only one schedule on OCEANIC.

Other information is also required. We request the following: 1) All 831 ship time requests you hold that do not appear on the UNOLS Office summary should be sent to the UNOLS Office so that there is a single complete file for all 1999 programs.

2) Please submit your 1999 cost estimates, based on the proposed schedules, to the UNOLS office.  
3) FAX (401) 874-6167 or mail a copy of your proposed 1999 cruise tracks to the UNOLS Office. (Not necessary for R/Vs that will operate locally or regionally.)

4) Update your 1998 schedules and post them to the UNOLS Office.

We, as a community, have been very responsive to NavOceano and NOAA agency shiptime requests in the past 2 years. The performance of the UNOLS ships/techs in collecting the required data has been superb and efficient. The UNOLS operators will once again be requested to run NavOceano and NOAA programs during 1999. Collectively we should factor these into our schedules. NOAA's requests have been submitted electronically (most under the name Bullock). NavOceano is now in the process of developing their requirements.

NOAA's RON BROWN (AGOR-26) will now be incorporated into the UNOLS scheduling process for 1999 following the signing of the formal cooperative agreement between UNOLS and NOAA last fall.

Finally, as you should all be aware, Robert Hinton has left his position at U.Washington and hence resigned his seat as co-Chair of SSC. Ken Johnson has polled the schedulers for selection a replacement. Ken will announce his appointment very soon.

I will attempt to talk to each of you before the June 23 meeting .

Regards,  
Don Moller

# **APPENDIX II**



**Attendees - June 23, 1998**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>	<u>EMAIL</u>
John Bash	UNOLS	401-874-6825	unols@gso.uri.edu
Michelle Bullock	NOAA/PMEL	206-526-4485	bullock@pmel.noaa.gov
Norm Cherkis	NRL	202-404-1103	cherkis@qur.nrl.navy.mil
Mary D'Andrea	UNOLS	401-874-6825	unols@gso.uri.edu
Dolly Dieter	NSF	703-306-1577	edieter@nsf.gov
Eric Itsweire	NSF	703-306-1583	eistweir@nsf.gov
Scott McKellar	NOAA	301-713-3435 x135	Scott.McKellar@noaa.gov
Sujata Millick	ONR	703-696-4530	millics@onr.navy.mil
Don Moller	WHOI	508-289-2277	dmoller@whoi.edu
Julia Neander	NOAA	301-713-3338 xc140	julia.neander@noaa.gov
Mike Prince	MLML	408-633-3534	prince@mlml.calstate.edu
Connie Sancetta	NSF	703-306-1586	csancetta@nsf.gov
Alexander Shor	NSF	703-306-1585 x7239	ashor@nsf.gov
Andrew Silver	ONR	703-696-6999	silvera@onr.navy.mil
David Thurston	ONR	703-696-4251	thursto@onr.navy.mil
Beth White	NOAA	301-713-2465 x184	Elizabeth.White@noaa.gov
Gordon Wilkes	NAVO	228-688-4376	wilkesg@navo.navy.mil

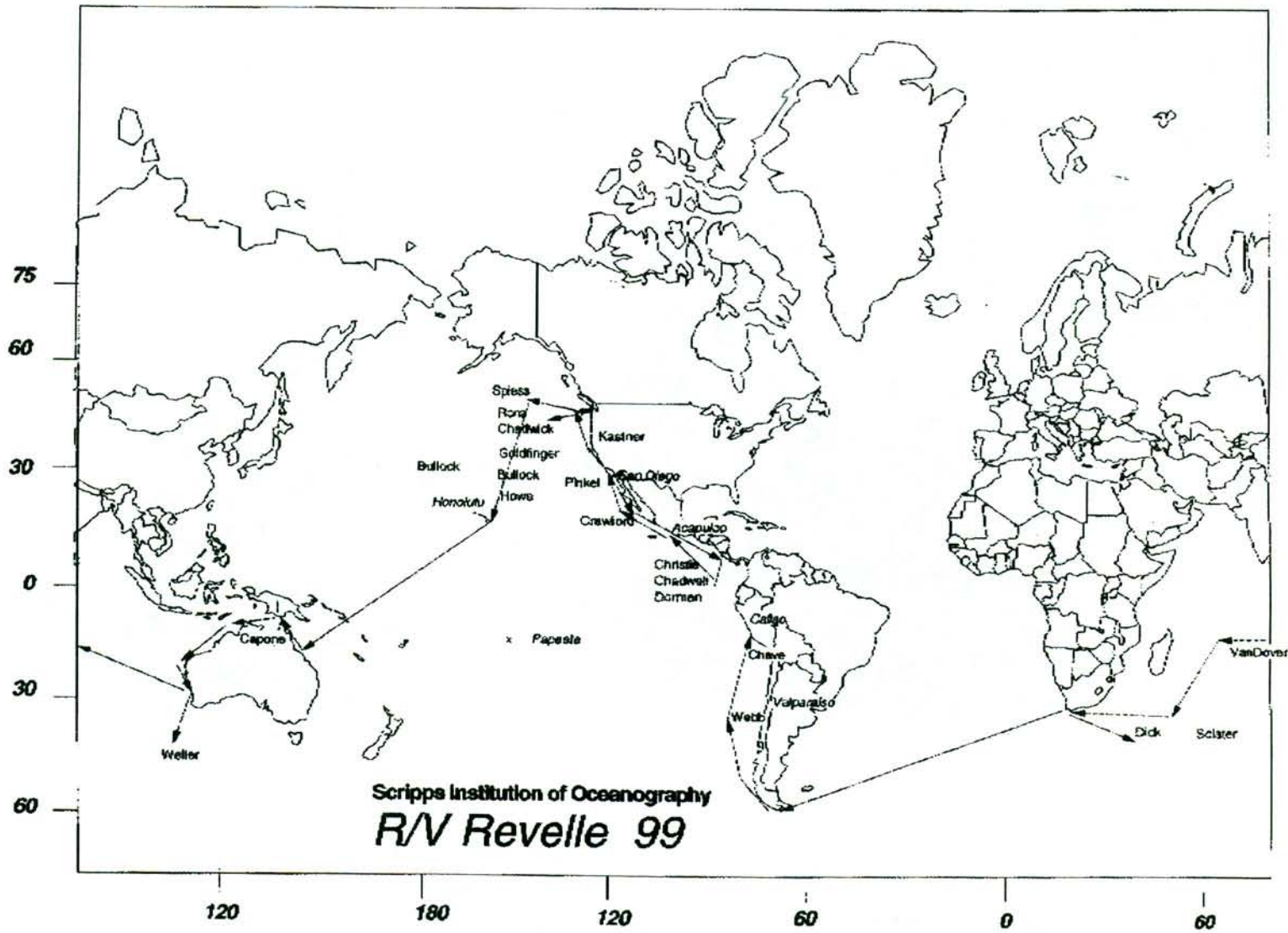
# **APPENDIX III**

		YEAR: 1998														
As of: 6/22/98																
SHIP/CLASS	DAY	NSF	DAY	NAVY	DAY	NOAA	DAY	OTHER	DAY	TOTAL	DAILY					
		\$		\$		\$		\$		\$	\$	RATE				
R. REVELLE	128	2,163	134	2,266	0	0	64	913	316	5,341	16,902					
MELVILLE	173	2,816	12	195	23	374	7	114	215	3,498	16,270					
KNORR	191	3,163	72	1,189	0	0	0	0	263	4,342	16,510					
ATLANTIS	202	3,192	10	158	26	411	34	537	272	4,298	15,801					
EWING	96	1,330	0	0	0	0	120	1,680	215	3,010	14,000					
T.G. THOMPSON	131	2,071	60	849	0	0	86	1,360	277	4,380	15,812					
MOANA WAVE	111	1,443	17	221	23	299	18	234	169	2,197	13,000					
CLASS I/II	1,031	16,167	305	4,977	72	1,084	319	4,838	1,727	27,066	15,672					
AVE: (7)	147	2,310	44	711	10	155	46	691	247	3,867	15,471					
EDWIN LINK	37	333	22	198	32	288	91	819	182	1,638	9,000					
ENDEAVOR	0	0	0	0	158	1,673	0	0	158	1,673	9,856					
OCEANUS	163	1,581	48	466	22	213	0	0	233	2,260	9,700					
GYRE	31	223	43	310	0	0	76	544	150	1,077	7,180					
NEW HORIZON	60	682	96	931	0	0	62	602	218	2,115	9,702					
SEWARD JOHNSON	124	1,178	32	304	47	447	78	741	281	2,670	9,602					
WECOMA	70	696	65	647	91	905	0	0	226	2,248	9,947					
CLASS III	485	4,593	306	2,856	350	3,426	307	2,706	1,448	13,581	9,379					
AVE: (7)	69	656	44	408	50	489	44	387	207	1,940	9,284					
PELICAN	62	233	37	139	23	86	122	458	244	916	3,754					
LONGHORN	6	24	6	24	2	8	44	178	58	232	4,000					
POINT SUR	121	788	30	191	0	0	41	260	192	1,219	6,349					
CAPE HATTERAS	111	823	66	489	17	126	11	82	205	1,520	7,416					
ALPHA HELIX	139	1,522	0	0	21	230	12	131	172	1,883	10,948					
R. SPROUL	66	373	17	98	7	40	76	436	166	947	5,739					
CAPE HENLOPEN	106	556	67	351	0	0	22	115	195	1,022	5,241					
WEATHERBIRD II	134	1,074	0	0	0	0	1	8	136	1,082	8,016					
SEA DIVER	18	86	71	337	36	171	8	38	133	632	4,752					
CLASS IV - TOTAL	762	5,459	294	1,629	106	661	337	1,704	1,499	9,453	6,306					
AVE: (9)	85	607	33	181	12	73	37	189	167	1,050	6,246					
BLUE FIN (b)	76	213	0	0	13	36	6	17	95	266	2,800					
LAURENTIAN	140	616	0	0	0	0	10	44	150	660	4,400					
BARNES	73	109	17	26	6	9	24	36	120	180	1,500					
CALANUS	0	0	0	0	0	0	0	0	166	400	2,410					
URRACA	16	70	0	0	0	0	0	0	112	528	4,693					
< CLASS IV TOTAL	304	1,008	17	26	19	45	152	623	492	1,702	3,459					
AVE: (5)	61	202	3	5	4	9	30	125	132	420	3,161					
Fleet Total	2,582	27,227	922	9,488	547	5,216	1,115	9,871	5,166	51,802	10,027					
AVE: (28)																

YEAR:		1999													
As of: 8/22/98															
SHIP/CLASS	DAY	NSF	DAY	NAVY	DAY	NOAA	DAY	OTHER	DAY	TOTAL	DAILY	DAY	DAY	DAY	DAILY
		\$		\$		\$		\$		\$		\$	\$	\$	RATE
R. REVELLE	181	2,987	0	0	0	0	0	14	231	195	3,218	16,503			
MELVILLE	91	1,502	234	3,881	0	0	0	0	0	325	5,363	16,502			
KNORR	185	3,034	53	869	0	0	0	18	312	257	4,215	16,401			
ATLANTIS	283	4,103	0	0	70	1,015	0	0	0	353	5,118	14,499			
EWING	287	4,477	78	1,217	0	0	0	0	0	365	5,694	16,800			
T.G. THOMPSON	31	494	59	941	141	2,249	46	718	278	4,402	16,949				
MOANA WAVE	102	1,173	0	0	66	844	70	228	228	2,045	8,969				
CLASS I/II	1,160	17,770	424	8,887	267	3,908	148	1,489	1,999	32,054	16,035				
AVE: (7)	166	2,539	61	984	38	558	21	213	286	4,294	14,917				
EDWIN LINK	82	738	0	0	0	0	136	1,224	218	1,962	9,000				
ENDEAVOR	179	1,593	0	0	72	841	19	169	270	2,403	8,900				
OCEANUS	204	2,142	8	63	12	128	0	0	222	2,331	10,500				
GYRE	0	0	0	0	0	0	55	*	55	0	0				
NEW HORIZON	74	638	73	828	0	0	54	465	201	1,729	8,802				
SEWARD JOHNSON	COST 1999	1,150	52	494	22	209	0	0	195	1,853	9,500				
WECOMA	71	748	44	462	85	892	0	0	200	2,100	10,500				
CLASS III	731	7,005	175	1,647	191	1,868	264	1,858	1,361	12,378	9,094				
AVE: (7)	104	1,001	25	235	27	267	38	310	194	1,768	8,143				
PELICAN	111	444	80	320	22	88	9	36	222	888	4,000				
LONGHORN	0	0	0	0	22	88	45	180	67	268	4,000				
POINT SUR	64	418	85	553	0	0	44	286	193	1,255	6,503				
CAPE HATTERAS	65	476	143	1,047	21	154	11	81	240	1,768	7,325				
ALPHA HELIX	96	1,020	0	0	21	223	18	191	135	1,434	10,622				
R. SPROUL	117	674	5	29	0	0	12	69	134	772	5,761				
CAPE HENLOPEN	122	671	63	347	0	0	0	0	185	1,018	5,503				
WEATHERBIRD II	120	960	0	0	0	0	0	0	120	960	8,000				
SEA DIVER	25	119	23	109	0	0	0	0	48	228	4,750				
CLASS IV - TOTAL	720	4,780	399	2,405	86	553	139	843	1,344	8,581	6,385				
AVE: (9)	80	531	44	267	10	61	15	94	149	953	6,274				
BLUE FIN (b)	111	195	35	61	21	37	13	25	180	318	1,767				
LAURENTIAN	200	880	0	0	0	0	10	44	210	924	4,400				
BARNES	78	125	0	0	7	11	25	40	110	176	1,600				
CALANUS	0	0	0	0	0	0	0	0	145	392	2,703				
URRACA	15	68	0	0	0	0	94	491	109	559	5,128				
< CLASS IV TOTAL	404	1,268	35	61	28	48	142	600	609	1,977	3,246				
AVE: (5)	81	254	7	12	6	10	28	120	151	474	3,142				
Fleet Total	3,015	30,823	1,033	13,000	572	6,377	693	4,790	5,313	54,990	10,350				
AVE: (28)															

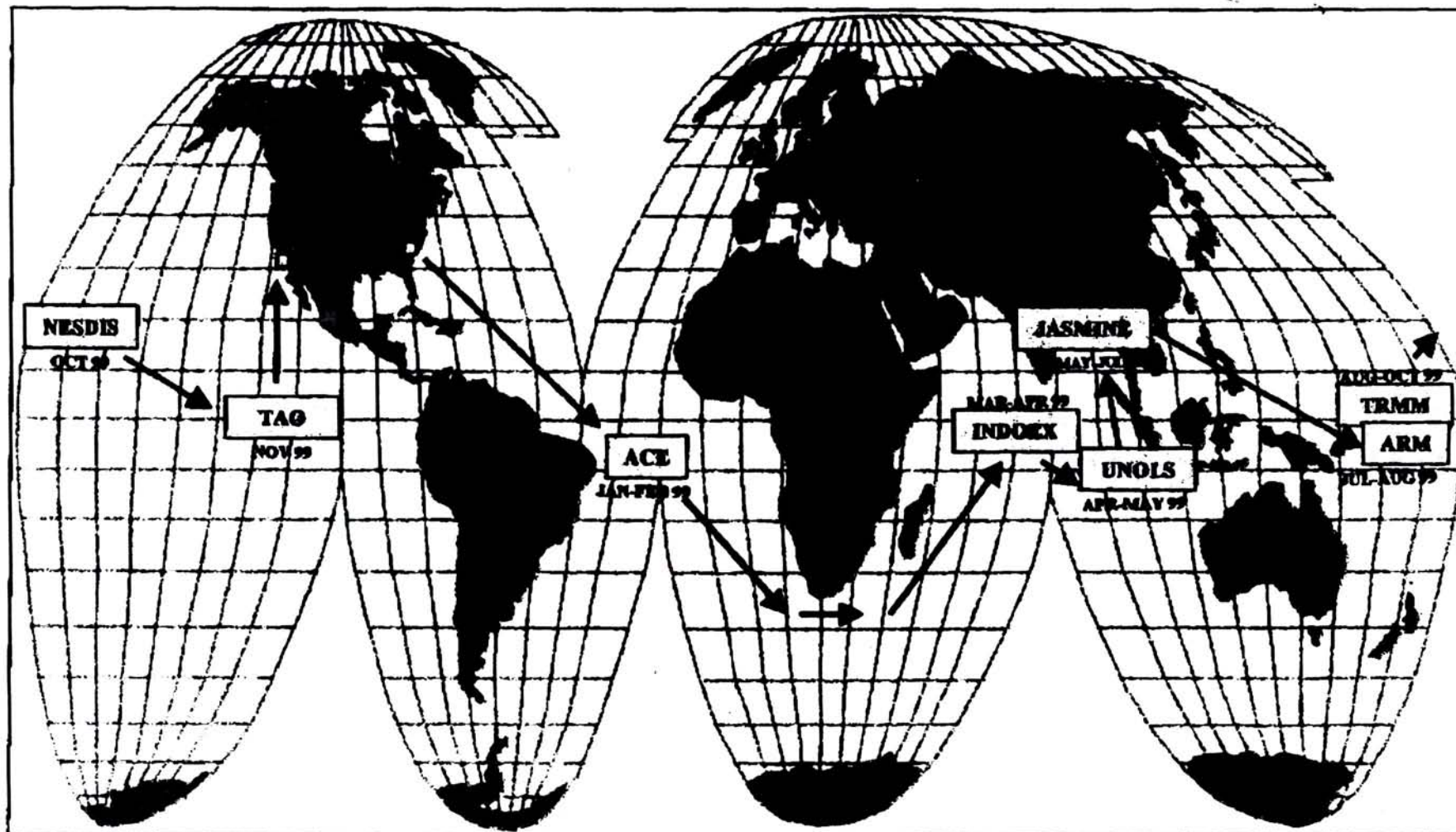
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# **APPENDIX IV**

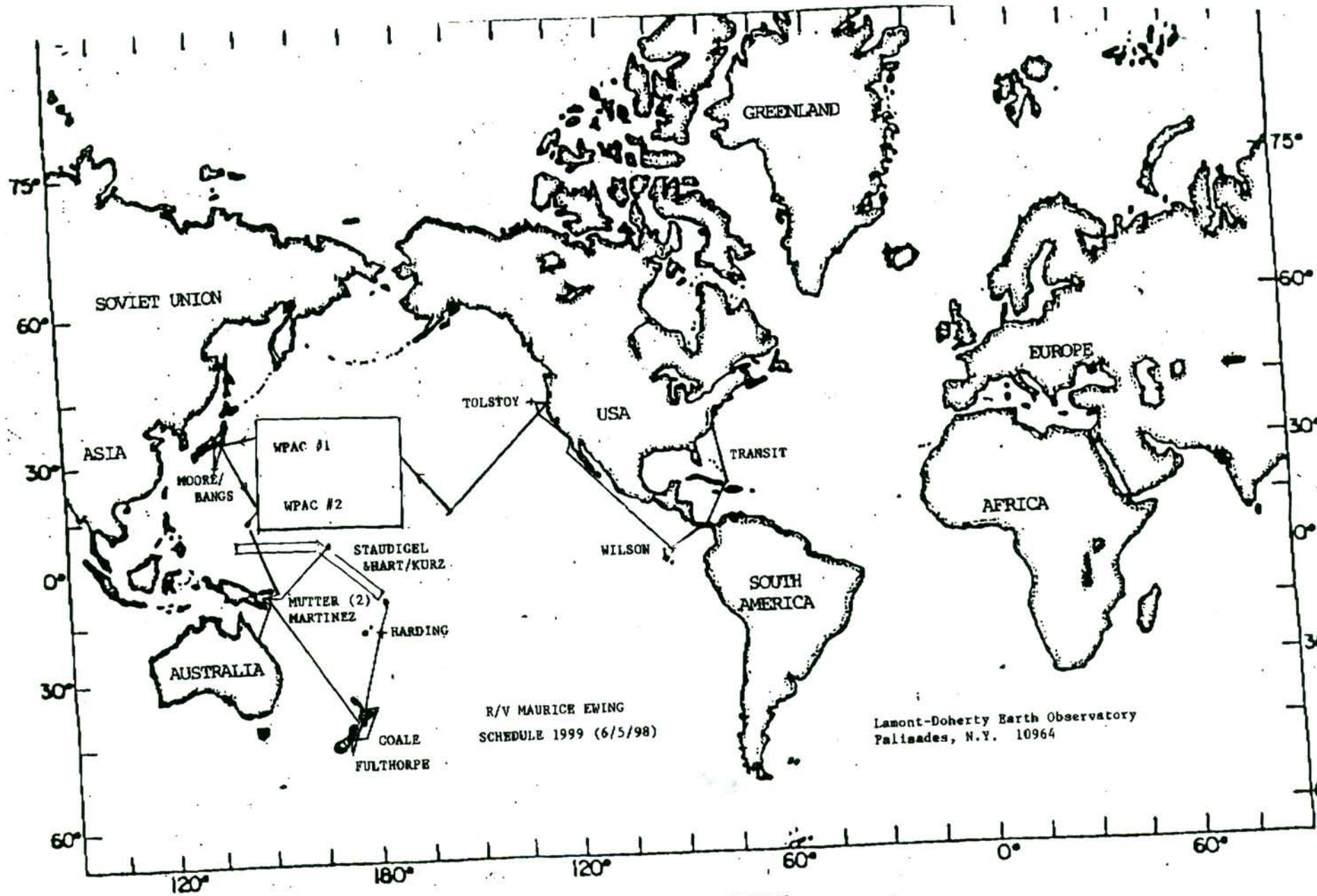


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06/17/98 08:19



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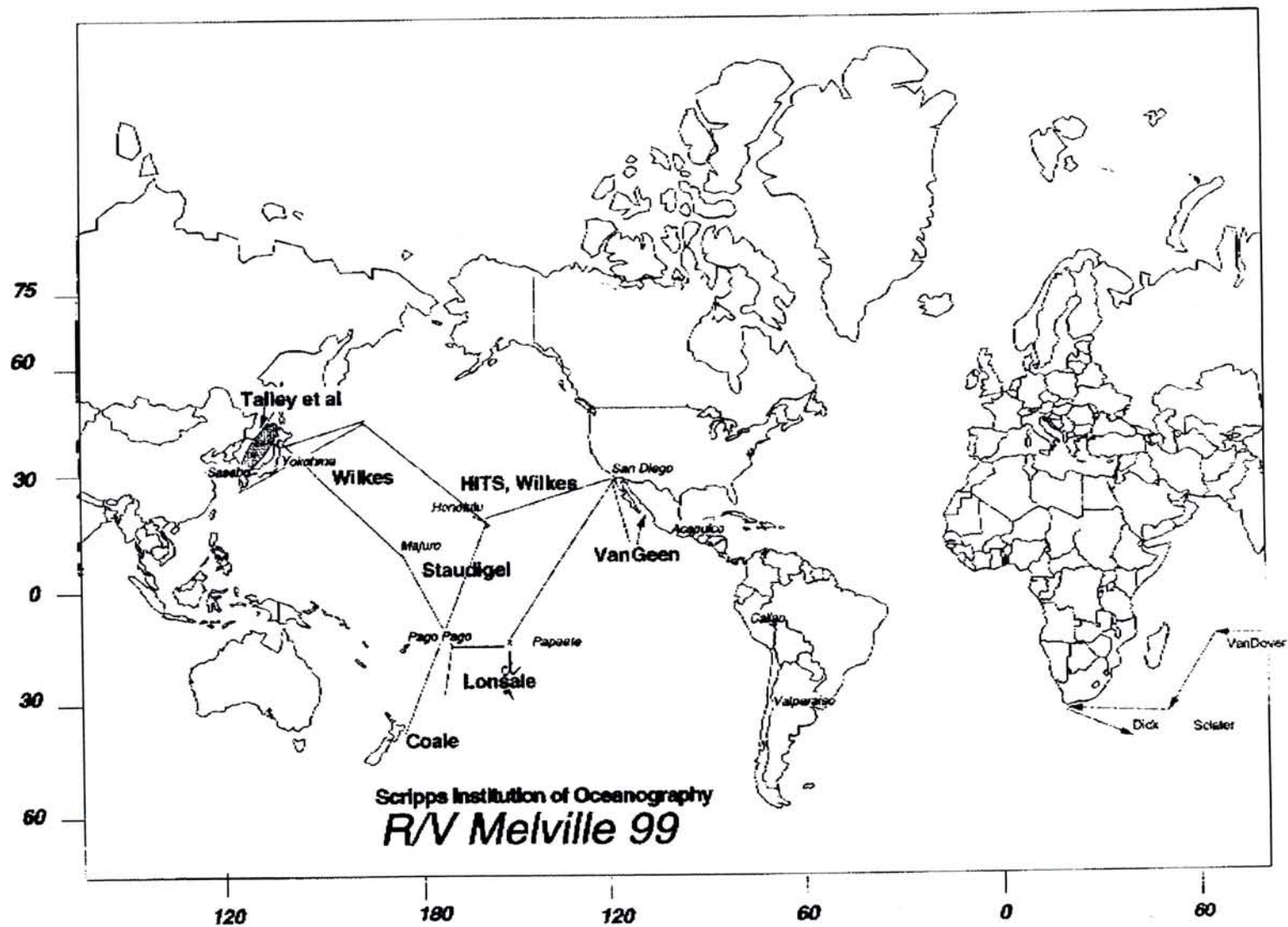
TRACK CHART

R/V MAURICE EWING  
 SCHEDULE 1999 (6/5/98)

Lamont-Doherty Earth Observatory  
 Palisades, N.Y. 10964

LRU (LINE DEF.) FAX: 914-353-7001 JUN 98 11:24 P.05





ARRAGANSETT

#31, #11 #18 GLOBEC

#12 + #14

#13

#15

TRANSECT (2 lines)

#2 + #18

#1, 16, 17

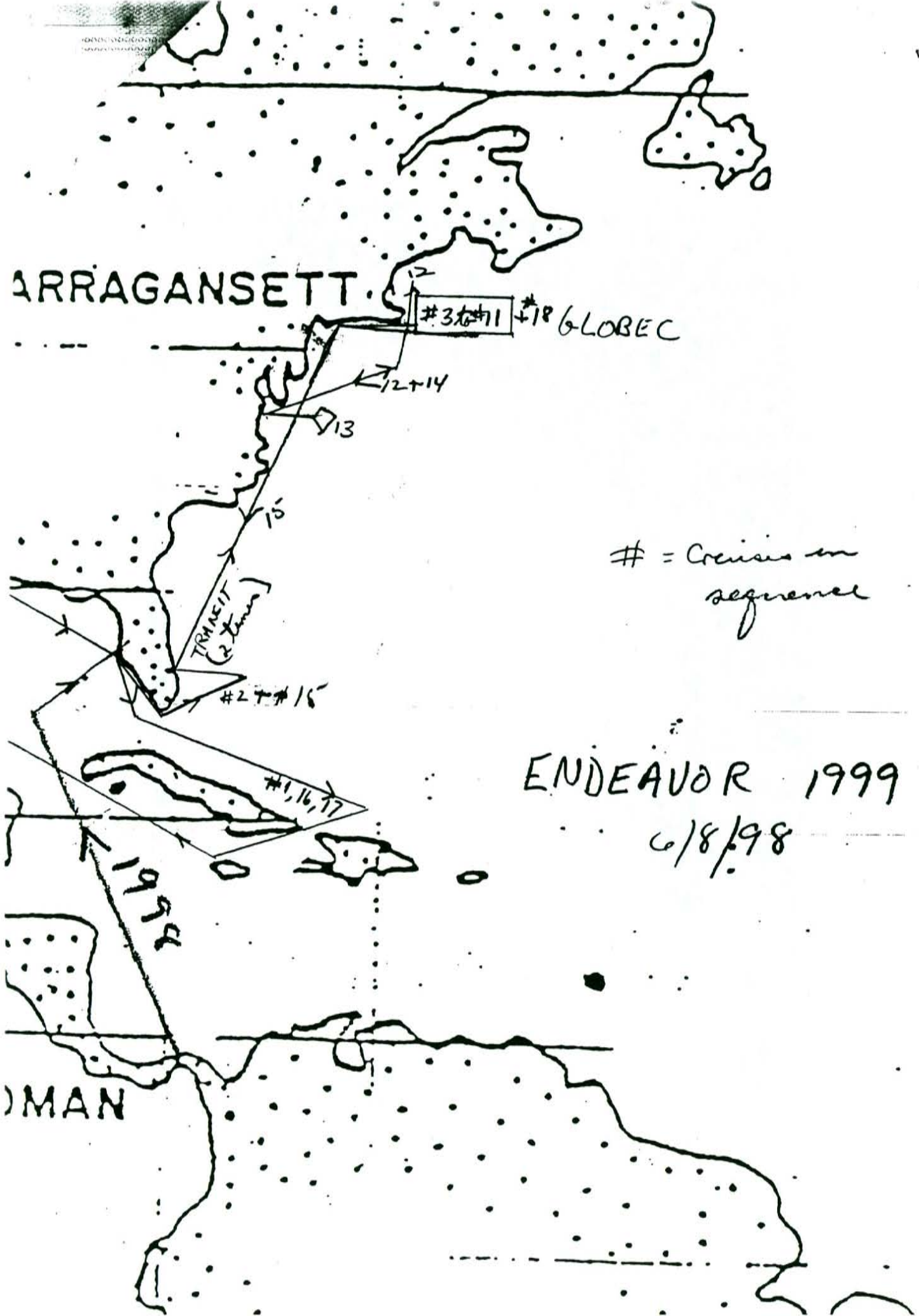
1994

# = Coccolithus in sequence

ENDEAVOR 1999

6/8/98

MAN



Mowpseu 1999  
(proposed 6/16/98)

