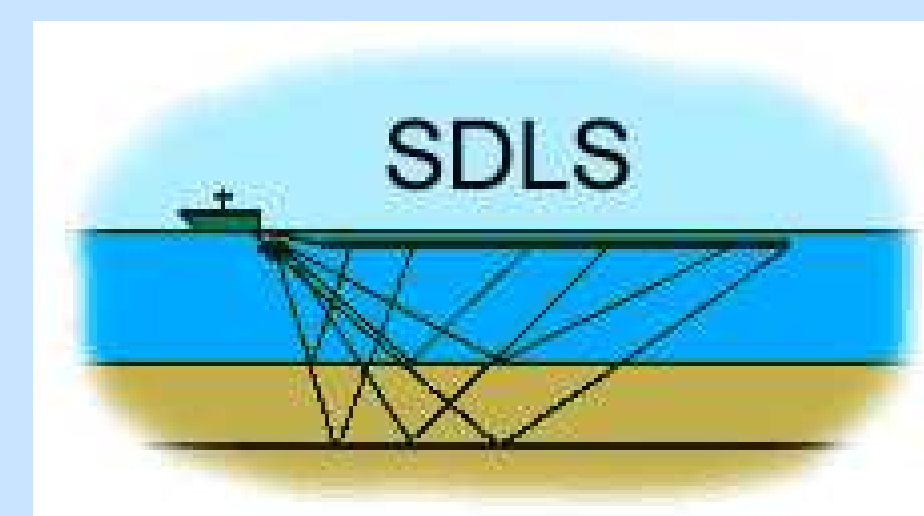


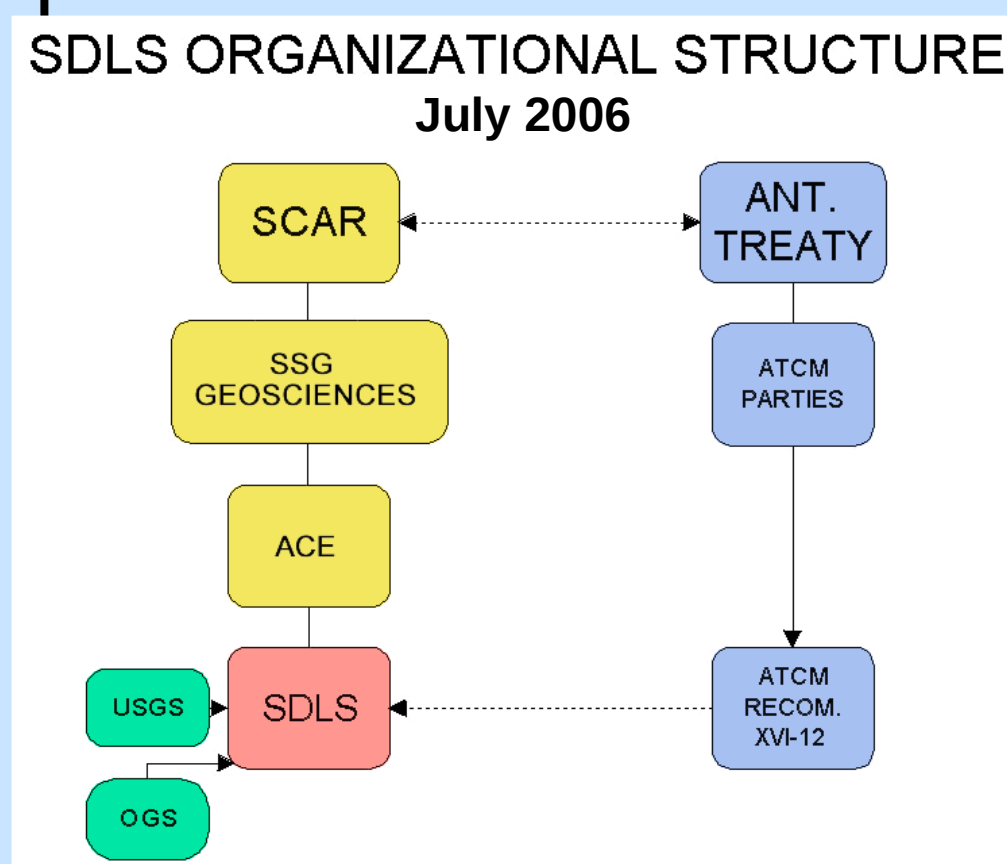


The Antarctic Seismic Data Library System for Cooperative Research (SDLS)

Nigel Wardell, Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Trieste, Italy;
Jonathan R. Childs, U.S. Geological Survey, Menlo Park, CA, USA;
Alan K. Cooper, U.S. Geological Survey and Stanford University, Stanford, California, USA;
Paolo DiViaco, Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Trieste, Italy.



Presented at the SCAR Open Science Conference, SCAR XXIX/COMNAP XVIII 2006, Hobart, Tasmania, 12-14th July 2006



A SCAR COLLABORATIVE
(under ATCM recommendation)

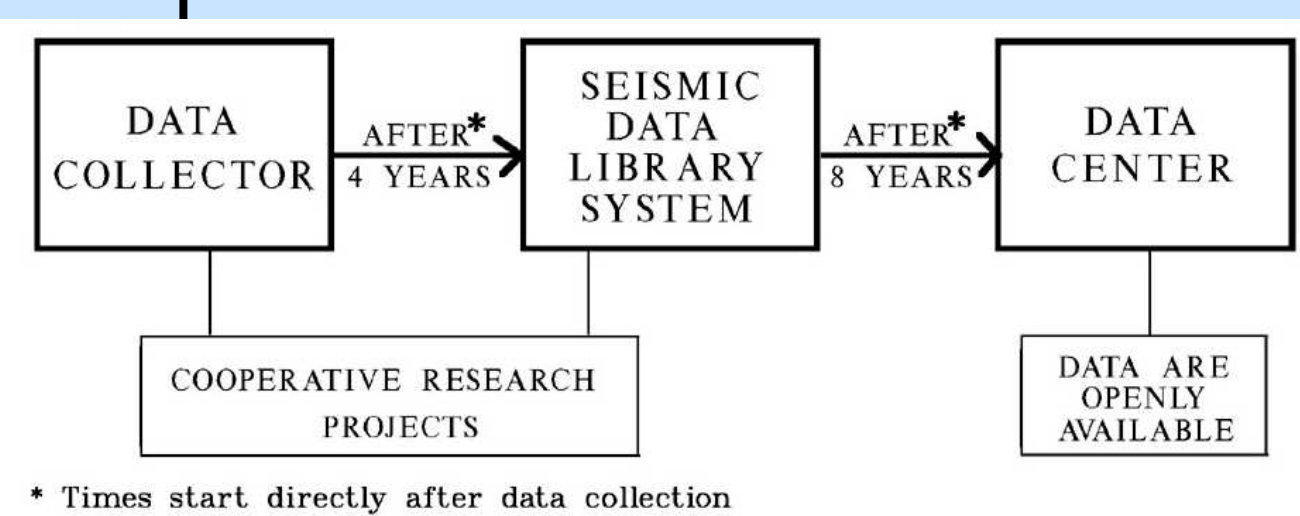
OPEN ACCESS TO MULTICHANNEL SEISMIC DATA

FACILITATE COOPERATIVE RESEARCH

SDLS GUIDELINES (from SCAR Report #9)

During the period of 4 to 8 years following data collection

1. Data can only be used for cooperative research projects with the data collector and not for commerce.
2. Copies of data can only be made and/or removed from the SDLS branches with the consent of the data collector.
3. Data collectors must be offered authorship on papers based on their data, and the source of the data must be properly cited.
4. Data collectors must be given a copy of all research products based on their data, including copies of reprocessed data.
5. Data collectors must not abuse their preferential "rights" to data.

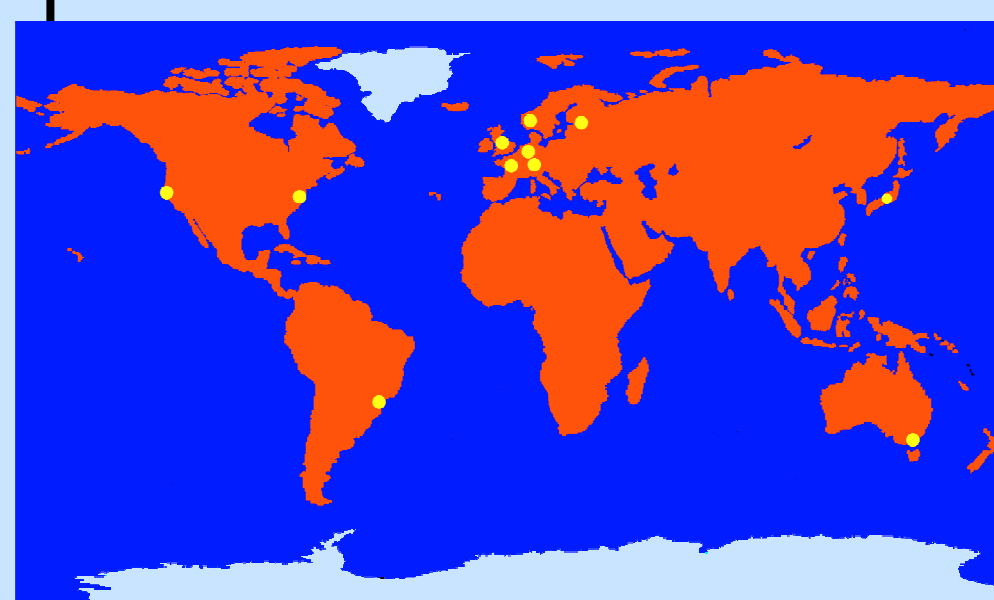


DATA ARE SUBMITTED TO THE SDLS WITHIN 4 YEARS OF DATA COLLECTION

TO DATE, MORE THAN 310,000 KM OF MCS DATA HAVE BEEN ACQUIRED

83 CD-ROMS AND DVDs CONTAINING 143,000 KM HAVE BEEN PRODUCED BY OGS AND USGS

AND SENT TO SDLS AT LIBRARY BRANCHES WORLDWIDE

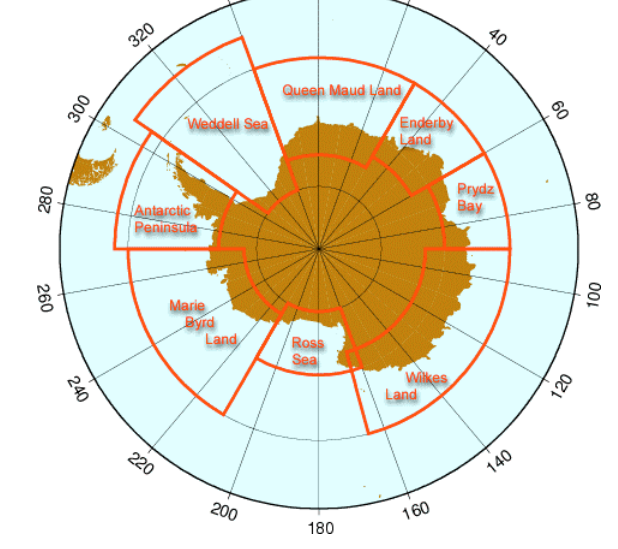


SDLS Library Branch Locations

Listing of SCAR Seismic Data Library System (SDLS)

Country	Research Institution	City
Australia	Australian Geological Survey Organisation	Canberra
Brazil	Universidade Federal do Rio de Janeiro	Rio de Janeiro
France	Universite Louis Pasteur	Strasbourg
Germany (2)	Bundesanstalt für Geowissenschaften und Rohstoffe	Hannover
	Alfred Wegener-Institute für Polar und Meeresforschung	Bremerhaven
Italy	Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)	Trieste
Japan	Geological Survey of Japan	Fukushima
Norway	University of Bergen	Bergen
Russia	VNIIOkeanologiya	St. Petersburg
UK	British Antarctic Survey	Cambridge
USA (2)	U.S. Geological Survey	Menlo Park, California
	U.S. Geological Survey (SCAR Library)	Reston, Virginia

Antarctic Multichannel Seismic Reflection(MCS) cruises (Reported up to July 2006)



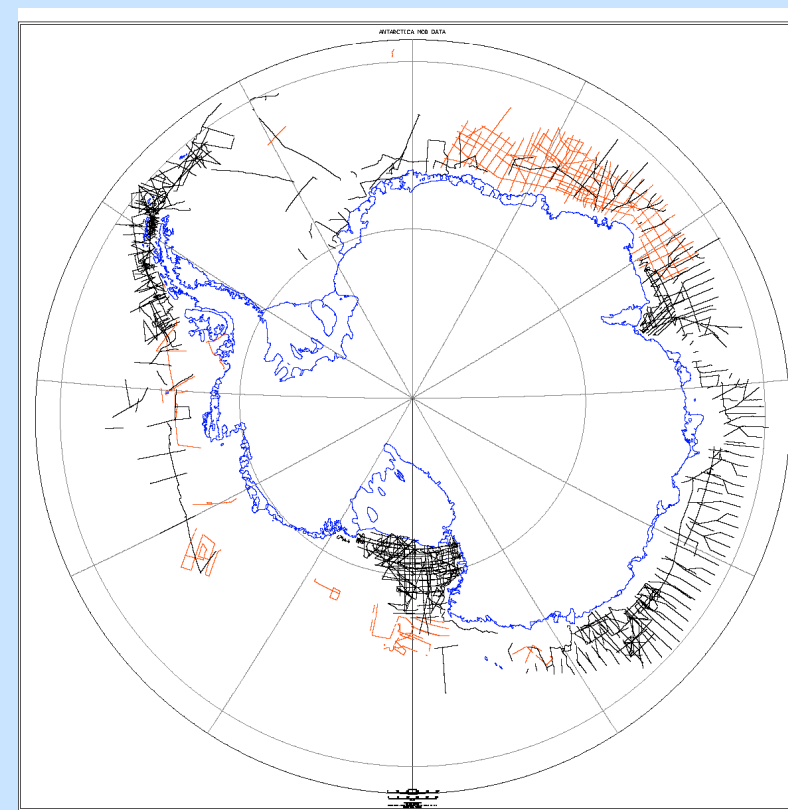
Cruises are listed in chronological order and are subdivided into the principal geographic regions (left) around Antarctica.

Table Notes:
Cruises for which MCS data exist in the library are shown in **GREEN**.
Cruises for which MCS data have already been submitted and are being prepared for inclusion in the library are shown in **BLUE**.
Cruises for which MCS data are due in the library (i.e. over 4 years old) are shown in **RED**.
Cruises for which MCS data are not yet due are shown in **BLACK**.

Antarctic MCS data collected and sent to the SDLS as of July 2006.

Lines in **BLACK** have been distributed to the library branches on CD-ROM or DVD

Lines in **RED** are in preparation for distribution to the library branches.



Antarctic MCS data collected and sent to the SDLS by Country

Country	Total MCS data collected to 2006 (km)	Total MCS data collected prior to 2002 (km)	MCS data in SDLS at 1st July 2006 (km)	MCS data in the preparation at SDLS (km)	% MCS data submitted to SDLS
Australia	28,652	28,652	28,652	0	100%
Brazil	5,466	5,466	5,466	0	100%
China	2,015	2,015	0	0	0%
France	7,706	7,706	4,900	0	0%
Germany	55,202	52,975	11,368	5,009	21%
Italy	29,917	29,917	22,669	0	76%
Japan	48,980	48,980	48,980	0	100%
Korea	6,670	4,040	0	0	0%
New Zealand	3,400	0	0	0	100%
Norway	12,771	7,381	934	11,837	173%
Poland	1,100	1,100	0	0	0%
Russia	69,460	56,896	15,205	25,474	71%
Spain	10,845	10,845	0	0	0%
UK	8,674	8,674	5,034	0	58%
USA	19,433	13,680	8,510	3,000	84%
Totals	310,291	278,327	151,718	45,320	71%

Antarctic Multichannel Seismic Reflection (MCS) cruises

Cruise	Area	Season	Group	Country	MCS (km)	Nav. data to SDLS	Seismic data to SDLS	CD-ROM No.	Data Bank
NARE-77	WS	76/77	UB	Norway	910	X	06/02/05		
BGR-78	WS	78/79	BGR	Germany	5854	X	81/5/93	SDLS 17,18,19	WDC
NARE-79	WS	78/79	UB	Norway	134	X	31/09/210%	SDLS 20	
NARE-79	WS	78/79	UB	Norway	1095	X	6/2/05 90%		
UK	AP	79/80	PAS	UK	1100	X	Data are due		
BGR-80	RS	80/81	BGR	Germany	6745	X	05/01/92	SDLS 3,4,5	WDC
TH80	AP	80/81	JNOC	Japan	3280	X	01/01/03	SDLS 50	
SAE-26	WS	81/82	PMGRE	USSR	750	X	Data are due		
TH81	WS	81/82	JNOC	Japan	1420	X	01/01/03	SDLS 51	
SAE-27	WS	81/82	PMGRE	USSR	820	X	Tapes unavailable	N/A	N/A
BMR-33	PB	82	BMR	Australia	5006	X	03/01/92	SDLS 6,7,8	DCF
ATC82	WL	82	IFP	France	3100	X	12/01/92	SDLS 11	WDC
ATC82	RS	82	IFP	France	1800	X	12/01/92	SDLS 12	WDC
TH82	RS	82/83	JNOC	Japan	1670	X	10/01/92	SDLS 9	WDC
TH82	WL	82/83	JNOC	Japan	680	X	10/01/92	SDLS 9	WDC
SAE-28	WS	82/83	PMGRE	USSR	800	X	Tapes unavailable	N/A	N/A
L284	RS	83/84	USGS	USA	1850	X	01/01/90	SDLS 1	WDC, DCF
TH83	WL	83/84	JNOC	Japan	3700	X	10/01/92	SDLS 10	WDC
L184	WL	83/84	USGS	USA	1800	X	01/01/90	SDLS 15	WDC, DCF
TH84	PB	84/85	JNOC	Japan	2350	X	9/30/93	SDLS 21	WDC
SAE-30	WS	84/85	SMG/PMGRE	USSR	734	X	Data are due		
BAS-84S	AP	85	BAS	UK	1750	X	01/01/93 50%	SDLS 16	WDC
BAS-84S	AP	85	BAS	UK	1754	X	03/13/98 50%	SDLS 30	WDC
NARE-85	WS	85	UB	Norway	800	X	9/15/93 30%	SDLS 20	
NARE-85	WS	85	UB	Norway	1842	X	6/2/05 70%		
SAE-31	PB	85/86	SMG/PMGRE	USSR	930	X	12/01/92	SDLS MF1 *	USGS
TH85	QML	85/86	JNOC	Japan	2430	X	9/30/93	SDLS 22	WDC
ANT-IV3	WS	85/86	BGR	Germany	6263	X	Data are due		
MD47	PB	86	EOST	France	1612	X	Data are due		
TH86	AP	86/87	JNOC	Japan	2655	X	04/01/92	SDLS 23	WDC
SAE-32	PB	86/87	SMG/PMGRE	USSR	3070	X	12/01/92	SDLS MF1 *	USGS
SAE-32	RS	86/87	SMG/PMGRE	USSR	4320	X	12/01/92	SDLS 13	WDC
ANT-VI4	WS	86/87	AWI	Germany	2800	X	Data are due		
A5	AP	87/88	PB	Brazil	4914	X	9/20/93	SDLS 26,27	
TH87	AP	87/88	JNOC	Japan	2265	X	9/30/93	SDLS 24	WDC
SAE-33	PB	87/88	SMG/PMGRE	USSR	3710	X	12/01/92	SDLS MF1 *	USGS
TH88	RS	87/88	JNOC	Japan	2322	X	04/01/92	SDLS 2	WDC
DI72	AP	87/88	BAS	UK	3640	X	Data are due		
ANT-VI2	AP	87/88	AWI/G K&I	Germany	1400	X	Data are due		
SA500	AP	88	PB	Brazil	552	X	9/20/93	SDLS 26,27	
SAE-34	WS	88/89	SMG/PMGRE	USSR	1224	X	Data are due		
TH89	RS	88/89	SMG/MAGE	USSR	3175	X	12/01/92	SDLS 14	WDC
TH89S	RS	88/89	OGS	Italy	4202	X	11/15/95	SDLS 28,29	
TH89	AP	88/89	JNOC	Japan	2200	X	9/30/93	SDLS 25	WDC
ANT-VIII5	WS	89/90	AWI	Germany	4100	X	Data are due		
IT90AP	AP	89/90	OGS	Italy	3406	X	11/15/95	SDLS 31,32,33	
TH89	BP	89/90	JNOC	Japan	1835	X	01/01/03	SDLS 52	
SAE-35	AP	89/90	SMG/PMGRE	USSR	3010	X	Data are due		
TH89S	RS	89/90	OGS	Italy	2583	X	11/15/95	SDLS 34	
ANT-VIII6	WS	90/91	BGR	Germany	3213	X	Data are due		
IT91AP	AP	90/91	OGS	Italy	3560	X	11/15/95	SDLS 35,36,37	
TH90	WL	90/91	JNOC	Japan	2095	X	01/01/03	SDLS 53,54	
SAE-36	PB	90/91	SMG/PMGRE	USSR	700	X	Data are due		
IT91RS	RS	90/91	OGS	Italy	554	X	21/5/96	SDLS 42	
U99	AP	91	NSF	China	2015	X	Data are due		
EW9101	AP	91	UTLDEO	USA	2880	X	10/15/99	SDLS 43,44	
EW9101	AP	91	UTLDEO	USA	1320	X	Data are due		
MD67	PB	91	EOST	France	1194	X	Data are due		
ANT92	AP	91/92	IGAMC/SCICUG	Spain	1525	X	Data are due		
HE903	AP	91/92	EDU/UB/WHOI	Spain	1500	X	Data are due		
IT92AP	AP	91/92	OGS	Italy	3423	X	21/5/96	SDLS 39,40,41	
TH91	RS	91/92	JNOC	Japan	3290	X	01/01/03	SDLS 55,56	
ANT-X2	WS	91/92	AWI	Germany	2000	X	Data are due		
SAE-37	AP	91/92	PMGRE	Russia	2900	X	Data are due		
KS193	AP	92/93	KORDI	Korea	900	X	81/5/99	SDLS 57,58	
TH92	RS	92/93	JNOC	Japan	2765	X	01/01/03	SDLS 57,58	
HE908	AP	92/93	IGAMC/SCICUG	Spain	3560	X	Data are due		
JCR04	AP	92/93	BAS	UK	1520	X	12/01/01	SDLS 38	
ANT-XI3	APMBL	93/94	AWI	Germany	3448	X	07/09/06	SDLS 42	
IT94RS	RS	93/94	OGS	Italy	851	X	21/5/98	SDLS 42	
TH93	WL	93/94	JNOC	Japan	3040	X	01/01/03	SDLS 59,60,61	
NBP94-7	RS	93/94	NSF/IA	USA	100	X	08/01/99		
RAE-39	PB	93/94	PMGRE	Russia	2500	X	Data are due		
U67	AP	93/94	IGAMC/SCICUG	Spain	?	X	Data are due		
TH94	WL	94/95	JNOC	Japan	2375	X	01/01/03	SDLS 62,63	
ANT-XII3	WS	94/95	AWI	Germany	2000	X	Data are due		
ANT-XII4	APMBL	94/95	AWI	Germany	989	X	07/09/06		
IT95AP	AP	94/95	OGS	Italy	1847	X	21/5/99	SDLS 47,48,49	
IT95AP	AP	94/95	OGS	Italy	2622	X	21/5/99		
NBP95-7	AP	94/95	NSF/UT	USA	350	X	Data are due		
RAE-40	PB	94/95	PMGRE	Russia	3429	X	Data are due		
RAE-41	QML	95/96	PMGRE	Russia	3451	X	21/4/06		
TH95	RS	95/96	JNOC	Japan	1980	X	01/01/03	SDLS 64,65,66,67	
BGR-96	WS	95/96	BGR	Germany	3262	X	Data are due		
ANT-XII5	WS	95/96	AWI	Germany	500	X	Data are due		
NBP96-1	RS	95/96	NSF/UC	USA	1980	X	21/5/00	SDLS 45,46	
NBP96-1	RS	95/96	NSF/UC	USA	500	X	Data are due		
NBP96-2	RS	95/96	NSF/SCIP	USA	1400	X	10/06/04		
TH96	WL	95/96	JNOC	Japan	1600	X	81/5/04		
TH96	AP	96/97	JNOC	Japan	2475	X	01/01/03	SDLS 68,69	
ANT-XIV3	WS	96/97	AWI	Germany	4418	X	Data are due		
ANT-XIII	AP	96/97	IGAMC/SCICUG	Spain	1837	X	Data are due		
IT96AP	AP	96/97	OGS	Italy	2799	X	21/5/01		
TH97	AP	97/98	JNOC	Japan	1790	X	01/01/03	SDLS 70,71	
RAE-43	QML	97/98	PMGRE	Russia	4396	X	21/4/06		
TH98	PB	98/99	JNOC	Japan	2490	X	01/01/03	SDLS 72,73,74	
KS198	AP	98/99	KORDI	Korea	980	X	Data are due		
RAE-44	QML	98/99	PMGRE	Russia	4492	X	21/4/06		
TH99	PB	99/00	JNOC	Japan	2195	X	01/01/03	SDLS 75,76	
KS199	AP	99/00	KORDI	Korea	830	X	Data are due		
RAE-45	EL	99/00	PMGRE	Russia	4390	X	21/4/06		
WGA	WL	99/00	GADGCS	Australia	1827	X	4/3/00/91		
GA227	WL	00/01	Geoscience Australia	Australia	3427	X	03/10/06	SDLS 77	
GA228	WL	00/01	Geoscience						