

ODP **Processing Notes:** **Geochemical Data**



Any opinions, findings, and conclusions or recommendations expressed in this document are those of the author(s) and do not necessarily reflect the views of the National Science Foundation, Joint Oceanographic Institutions, Inc., or ODP member countries.

3/2004

Processing Notes: Geochemical Tool String

First leg logged: Leg 101

Last leg logged: Leg 185

Tools Used

The following summarizes the major changes that took place in the history of the geochemical tool string in the ODP.

Leg 101

The GST tool was run for the first time. No boron sleeve was used due to drill pipe and BHA constraints (narrow diameter).

Leg 109

The ACT tool was run for the first time as part of the geochemical tool string. Again, no boron sleeve was used due to drill pipe and BHA constraints (narrow diameter).

Leg 126

The boron sleeve was modified by Schlumberger to fit into drill pipe and BHA. From this leg on the geochemical tool string was always run with the boron sleeve.

Leg 185

Hole 1149B was the last hole where the geochemical tool string was run.

Data Processing

The geochemical data were all processed on a Vax machine using Logos software. Processing was performed at the LDEO-BRG log analysis center. A detailed description of the technique used is included in each of the geochemical data reports available online, which are largely based on the data reports published in the IR or SR volumes of the ODP Proceedings. All these reports were thoroughly revised in the spring of 2003 before they were put online.

Processing History

Due to the absence of the ACT tool and boron sleeve, most of the geochemical data collected before Leg 126 are of questionable quality. Some of them however, were included in the online database. They are:

Leg 118, Hole 735B

Leg 121, Hole 758A
Leg 122, Holes 761C, 762C, and 764B
Leg 123, Hole 765D
Leg 125, Holes 782B and 786B

Some of the pre-Leg 126 data are available in analog form only (ODP Scientific Results publication).
They are:

Leg 112, Hole 679E
Leg 117, Holes 723B, 728A, and 731C
Leg 123, Hole 766A
Leg 124, Holes 767B, 770C

In a few holes no processing was performed, due to malfunction of one or more of the components of the geochemical tool. These are:

Leg 130, Holes 803D, 805B, 807A, and 807C
Leg 143, Holes 865A and 866A
Leg 149, Hole 899B

Data storage

The geochemical proprietary data in LIS format are saved on CD-ROM, along with other logging data recorded during each leg, and in the archive directory on the LDEO-BRG file server. Processed geochemical data are available through the online database, along with any related documentation. They are also saved on 4-mm DAT tapes.

GEOCHEMICAL DATA SUMMARY TABLE

Logging Date	LEG	HOLE	Data online	Documentation	Documentation online	Remarks	Processor
1985	101	634A				NO ACT. Data recorded through drill pipe and BHA. No processing performed.	
1985	105	646B				NO ACT. Original yields. No processing performed.	
1986	107	652A				NO ACT. Original yields. No processing performed.	
1986	109	395A				Poor quality data. No data in data base.	Greenberg
1986	111	504B				see Leg 140 for better quality data.	Dove
1986	112	679E		SR		Processing geoch. data not backed up. Raw data in data base.	Greenberg
1986	112	685A				Processing geoch. data not backed up. Raw data in data base.	Greenberg
1987	114	704B				Proprietary tapes missing.	
1987	115	715A				Processing geoch. data not backed up. Raw data in data base.	Dove
1987	116	718C				Poor quality data. Raw data in data base.	Dove
1987	116	719B				Poor quality data. Raw data in data base.	Dove
1987	117	723B	*	SR		NO ACT. No standard processing performed. See paper.	Jarrard/Lyle
1987	117	728A	*	SR		NO ACT. No standard processing performed. See paper.	Jarrard/Lyle
1987	117	731C	*	SR		NO ACT. No standard processing performed. See paper.	Jarrard/Lyle
1987	118	735B	X	X	X	general processing document	Dove
1988	121	752B		X		Proprietary tape damaged. Partial data.	Pratson
1988	121	754B		X		Data not revised.	Pratson
1988	121	758A	X	X	X		Pratson
1988	122	761C	X	X	X		Pratson
1988	122	762C	X	X	X		Pratson
1988	122	764B	X	X	X		Pratson
1988	123	765D	X	X	X	Data recorded through drill pipe and casing.	Pratson
1988	123	766A		X		Data recorded through drill pipe and casing. No raw data in data base.	Pratson

Logging Date	LEG	HOLE	Data online	Documentation	Documentation online	Remarks	Processor
1988	124	767B		SR		Processing geoch. data not backed up. No raw data in data base.	Pratson
1988	124	770C		SR		Processing geoch. data not backed up. No raw data in data base.	Pratson
1989	125	782B	X	X	X		Pratson
1989	125	786B	X	X	X		Pratson
BORON SLEEVE INTRODUCED							
1989	126	791B	X	X	X		Pratson
1989	126	792E	X	X	X		Pratson
1989	126	793B	X	X	X		Pratson
1989	127	794B	X	X	X		Pratson
1989	127	796B	X	X	X		Pratson
1989	127	797C	X	X	X		Pratson
1989	128	798B	X	X	X		Pratson
1989	128	799A	X	X	X		Pratson
1989	128	799B	X	X	X		Pratson
1989	129	800A	X	X	X		Pratson
1989	129	801B	X	X	X	Problem in LOGOS. New depth shifts could not be incorporated.	Pratson
1989	129	802A	X	X	X		Pratson
1990	130	803D				Only ACT data recorded due to malfunction. No processing performed.	
1990	130	805C		X		Complete data recorded only in lower section. Data not revised.	Pratson
1990	130	806B	X	X	X		Pratson
1990	130	807A				Only ACT data recorded due to malfunction. No processing performed.	
1990	130	807C				Only ACT data recorded due to malfunction. No processing performed.	
1990	133	815A	X	X	X		Pratson
1990	133	817D	X	X	X		Pratson
1990	133	820B	X	X	X		Pratson
1990	133	822A	X	X	X		Pratson
1990	133	823C	X	X	X		Pratson
1990	134	829A	X	X	X		Pratson
1990	134	830C	X	X	X		Pratson
1990	134	831B	X	X	X		Pratson

Logging Date	LEG	HOLE	Data online	Documentation	Documentation online	Remarks	Processor
1990	134	833B	X	X	X		Pratson
1991	135	834B	X	X	X		Pratson
1991	135	838B	X	X	X		Pratson
1991	135	839B	X	X	X		Pratson
1991	135	840B	X	X	X		Pratson
1991	136	843B	X	X	X		Pratson
1991	138	844B	X	X	X		Pratson
1991	138	845A	X	X	X		Pratson
1991	138	846B	X	X	X		Pratson
1991	138	847B	X	X	X		Pratson
1991	138	848B	X	X	X		Pratson
1991	138	849B	X	X	X		Pratson
1991	138	850B	X	X	X		Pratson
1991	138	851B	X	X	X		Pratson
1991	138	852D	X	X	X		Pratson
1991	140	504B	X	X	X		Pratson
1991	141	859B	X	X	X		Pratson
1992	141	863B	X	X	X		Pratson
1992	143	865A				Only ACT data recorded due to malfunction. No processing performed.	
1992	143	866A				Only ACT data recorded due to malfunction. No processing performed.	
1992	143	869B	X	X	X	general processing document	Pratson
1992	144	801C	X	X	X		Pratson
1992	144	871C	X	X	X		Pratson
1992	144	873A	X	X	X		Pratson
1992	144	874B	X	X	X		Pratson
1992	144	878A	X	X	X		Pratson
1992	145	883F	X	X	X	ACT data only.	Pratson
1992	145	884E	X	X	X	ACT data only.	Pratson
1992	146	891C	X	X	X		Pratson
1993	148	896A	X	X	X		Pratson
1993	149	899B				Only ACT data recorded due to malfunction. No processing performed.	
1993	150	906A	X	X	X		Pratson
1993	151	907A	X	X	X		Pratson

Logging Date	LEG	HOLE	Data online	Documentation	Documentation online	Remarks	Processor
1993	151	911A	X	X	X		Pratson
1994	154	926B	X	X	X		Pratson
1994	154	929E	X	X	X		Pratson
1994	155	931B	X	X	X		Pratson
1994	155	936A	X	X	X		Pratson
1994	157	950A	X	X	X		Pratson
1994	157	955A	X	X	X		Pratson
1994	157	956B	X	X	X		Pratson
1995	159	959D	X	X	X		Pratson
1995	160	967E	X	X	X		Pratson
1995	161	974C	X	X	X		Pratson
1995	161	975C	X	X	X		Pratson
1995	161	976B	X	X	X		Pratson
1995	162	984B	X	X	X		Pratson
1995	164	994C	X	X	X		Pratson
1995	164	995B	X	X	X		Pratson
1995	164	997B	X	X	X		Pratson
1996	165	998B	X	X	X		Pratson
1996	165	999B	X	X	X		Pratson
1996	166	1003D	X	X	X		Pratson
1996	168	1032A	X	X	X		Pratson
1999	185	1149B	X	X	X		Pratson

* processing (non-standard) performed by Jarrard and Lyle.