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Processing Notes: Image Data

First leg logged: Leg 126 Last leg logged: Leg 209

Tools Used

Three wireline tools were used to collect image data in the Ocean Drilling Program: Azimuthal Resistivity Imager (ARI), Formation MicroScanner (FMS), Ultrasonic Borehole Imager (UBI), and Resistivity-at-the-Bit Tool (RAB). The Summary Table shows which tool was run at each hole.

Data Processing History

Legs processed on the Vax (Logos): Legs 133-186 Legs processed on Unix (GeoFrame): Legs 188-209 plus selected earlier legs (i.e. Legs 126 through 130, Leg 140, and selected holes from Leg 133).

a) GIF Files

In November 2000, processed FMS images from Leg 126 to Leg 190 became available online as 20m and 100m intervals. Up until Leg 175, FMS images were available in Bitmap format. In 1998, it was decided to provide processed FMS images as GIF files, as this format would make them easily viewable on any Internet browser. All images prior to Leg 176 were therefore converted into GIF format. The project was completed in the spring of 1999.

For all the data previously processed on the Vax system using LOGOS software the conversion to GIF format from LIS format (samdi files) was performed using a program called "fmax." For all the data processed on Unix using GeoFrame software, the conversion to GIF format was performed with a program called fmaxgif2.0.

In December 2000, there were 18 holes not available in GIF format due to the lack of LIS format (samdi) files:

Leg 127: Holes 794B, 796B, and 797C. No notes available. Should be re-processed.

Leg 128: Holes 794D, 799A, 798B, and 799B. No notes available. Should be re-processed.

Leg 129: Holes 800A and 802A. No notes available. Should be re-processed.

Leg 130: Hole 803D, 807C. Unix files available.

Leg 134: Hole 831B. See below.

Leg 135: Holes 834B, 839B, and 841C. See below.

Leg 140: Hole 504B. See below.

Leg 141: Holes 859B and 863B. Very poor data quality. Processing cannot be performed.

In January 2001, C. Broglia was able to create GIF files for the following holes by first re-running GEOLIS to create samdi files:

Leg 134: Hole 831B Leg 135: Holes 834B, 839B, 841C

In January 2001, Hole 504B, Leg 140 was re-processed by C. Philippot at LDEO. This left the 11 holes to be re-processed:

Leg 127: Holes 794B, 796B, and 797C. Leg 128: Holes 794D, 799A, 798B, and 799B. Leg 129: Holes 800A and 802A. Leg 130: Hole 803D and 807C.

All the above holes were re-processed in June-July, 2003 by T. Williams.

In addition, the FMS data from Leg 126 and Leg 133 (Holes 816C and 817D) had not been properly depth-matched to the reference run. These holes were re-processed in the summer of 2003 by T. Williams (see section e).

b) Vax to Unix files (.sun files)

These files have been created on the Vax for easy transfer to Unix machines. They are currently stored in the directory /data/web_brg0/WWW_BRG/online2/fms_sunfiles, along with .log files (processing documentation) corresponding to the different processing steps. Starting with Leg 151, the creation of .sun files was part of the processing routine and therefore they were included in the VMS backup. Before Leg 151, the .sun files had to be created from the appropriate files ("ecx, cali, and incf" files). "Ecx" files, however, were included in the VMS backup only for the following legs:

Leg 144: Holes 873A, 874B, 801C, and 878A Leg 145: Holes 883F, 884E, and 887D Leg 146: Holes 889A and 889B Leg 149: Hole 900A Leg 150: Holes 902A, 904A, and 906A

For the following leg, the .sun files were created from the "ecs" files by the LDEO-BRG processor:

Leg 126: Holes 792E and 793B

For the remaining legs, the .sun files were created from the "sce" files, which correspond to the "static processing" files used as input in Geolis (Geolis is the program used to create LIS format files on the Vax). The files were renamed "ecx".

Leg 130: Hole 807C Leg 133: Hole 814A, 816B, 820B, 821A, 822A, and 823C Leg 134: Hole 829A, 831B, 832B, and 833B Leg 135: Hole 834B, 838B, 839B, 840B, and 841C Leg 136: Hole 843B Leg 138: Holes 844B, 845A, 846B, Leg 139: Holes 856H, 857D, 858F Leg 143: Holes 865A, 866A, 867B, and 869B Leg 146: Hole 892C Leg 148: Holes 896A and 504B

No conversion was performed for the following 14 holes:

Leg 127: Holes 794B, 796B, and 797C. No notes are available about the processing. Leg 128: Holes 798B, 794D, 799A, and 799B. The original 9-track tapes could not be completely loaded. Also, no notes are available about the processing. Leg 129: Holes 800A and 802A. No notes are available about the processing. Leg 129: Hole 801B. Leg 133: Holes 812B and 817D. Offset of up to 5 m between passes (Hole 812B). No depth matching applied except block shift in Hole 817D. Leg 146: Hole 891C. Lack of backup of final processing. Leg 147: Hole 894G. Very bad quality data made it impossible to correlate the two passes to assess any depth offset.

The depth unit system of all sun files is English (ft below sea floor).

Important note: The holes or FMS passes that needed re-processing due to depth offset (see sections c and d) do not have .Unix files, as the re-processing was performed using GeoFrame. Also, whenever it became clear that a hole needed re-processing, the GeoFrame-processed data completely replaced any previous version, and any existing Unix file was deleted (see section e).

c) Depth-offset

In 1999, it was noted that even after depth shifting to a reference run some of the FMS passes showed varying offset amounts when compared with other FMS passes or with the standard logs. The LMF group in France undertook the task of checking all of the FMS images from Leg 151 to Leg 186. The checking was performed by comparing the images with the FMS calipers and GR or PIAZ channels.

The amount of offset ranged from < Im to about 19m. It was decided to re-process all of the holes that displayed an offset > 3m. The re-processing was performed on Unix using GeoFrame software.

The following holes were re-processed (the amount of offset is shown in brackets):

Leg 154, Hole 925A (>6m) Leg 155, Hole 935A, upper repeat (6m throughout the hole) Leg 171B, 1050C, repeat pass (4m at top) Leg 171B, 1051A, main and repeat passes (1-7m, 3-4m) Leg 171B, 1052E, main and repeat passes (5-10m at top, 2-6m) Leg 172, Hole 1063A, passes 1 and 2 (0-10 m) Leg 176, Hole 735B, passes 1 and 2 (7m, 3m) Leg 178, Hole 1103A, passes 1 and 2 (10m throughout the hole) Leg 179, Hole 1105A, passes 1 and 2 (2-3m, 3-4m) Leg 180, Hole 1118A, main pass (9m at top of hole) Leg 182, Hole 1128D, main pass (5m at 250 mbsf) Leg 183, Hole 1140A, passes 1 and 2 (>4m) Leg 184, Hole 1143A (19 m in the middle of the interval) Leg 185, Hole 801C, pass 2 (4-7m) Leg 186, Hole 1150B, upper section (6m at bottom of hole) Leg 186, Hole 1151D, pass 1 (4m around 410-420 mbsf).

All the holes before Leg 151 were not checked in France as these data had not been processed by the LMF group. The holes from Leg 134 through Leg 150 were checked only for major offsets between runs, simply looking at the available GIF images. The great majority of the holes from Leg 134 to Leg 150 did not display any offset >3 m. In fact, most of the offset was less than 1 m. Legs 126 through part of Leg 133 (Holes 816C and 817D) were re-processed in 2003 (see section e).

d) Re-processing of selected holes (depth-offset problem, see section c)

In the spring of 2002 it was noted that in most of the holes reprocessed at LMF (see previous section) the amount of differential depth shift had not been applied correctly. The problem has been fixed by Trevor Williams for the following holes:

Leg 154, Hole 925A Leg 155, Hole 935A, upper repeat Leg 171B, 1051A, main and repeat passes Leg 171B, 1052E, main and repeat passes Leg 172, Hole 1063A, passes 1 and 2 Leg 176, Hole 735B, passes 1 and 2 Leg 178, Hole 1103A, passes 1 and 2 Leg 184, Hole 1143A Leg 185, Hole 801C, pass 2 Leg 186, Hole 1150B, upper section Leg 186, Hole 1151D, pass 1 Leg 188, Hole 1166A, passes 1 and 2 Leg 189, Hole 1170D, passes 1, 2, and 4.

The revision was completed in November 2002.

e) Depth-matching to a reference run

All FMS data are routinely depth-matched to a reference run, which might be one of the FMS passes or a different tool string. This procedure has been used starting with Leg 134. Documentation of the depth shifts applied was included either in the standard data processing or FMS processing notes.

In the summer of 2003, the following early legs were re-processed (see section a) because no depth-match or an incorrect depth-match had been originally applied:

Leg 126, Hole 792E, and 793B Leg 127, Holes 794B, 796B, and 797C Leg 128, Holes 794D, 798B, 799A, and 799B Leg 129, Holes 800A and 802A Leg 130, Holes 803D and 807C.

During the processing of Leg 133 data, no differential depth shifts were applied. An average of the differential depth shifts applied during the processing of conventional logs has been used to block-shift the FMS data. All of the data was checked by T. Williams in the summer of 2003:

Hole 812B shows a negative offset of 5 m in Pass 1, but could not be re-processed due to the lack of proprietary tape and Unix files. Hole 816B and 817D were re-processed.

All other holes show a good match between runs and with the reference run.

Data storage

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

The .sun files are available as Tar backups on 4-mm DAT tapes.

IMAGE DATA SUMMARY TABLE

Logging Date	LEG	HOLE	LOGOS Processing	GeoFrame Processing	Unix files	.gif	Tool Type	Remarks
1989	126	792E		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	126	793B		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	127	794B		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	127	796B		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	127	797C		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	128	794D		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	128	798B		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	128	799A		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	128	799B		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	129	800A		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	129	801B	Х			Х	FMS	
1989	129	802A		Х		Х	FMS	Re-processed by T.Williams in 2003
1989	130	803D		Х		Х	FMS	Re-processed by T.Williams in 2003
1990	130	807C		Х		Х	FMS	Re-processed by T.Williams in 2003
1990	133	812B	Х			Х	FMS	
1990	133	814A	Х		Х	Х	FMS	
1990	133	816C		Х		Х	FMS	Re-processed by T.Williams in 2003
1990	133	817D		Х		Х	FMS	Re-processed by T.Williams in 2003
1990	133	820B	Х		Х	Х	FMS	
1990	133	821A	Х		Х	Х	FMS	
1990	133	822A	Х		Х	Х	FMS	
1990	133	823C	Х		Х	Х	FMS	
1990	134	829A	Х		Х	Х	FMS	
1990	134	831B	Х		Х	Х	FMS	
1990	134	832B	Х		Х	Х	FMS	
1990	134	833B	Х		Х	X	FMS	
1990	135	834B	Х		Х	Х	FMS	
1990	135	835B	Х		Х	Х	FMS	
1991	135	838B	Х		Х	Х	FMS	
1991	135	839B	Х		Х	Х	FMS	
1991	135	840B	Х		Х	Х	FMS	
1991	135	84IC	Х		Х	Х	FMS	
1991	136	843B	X		X	Х	FMS	

Logging Date	LEG	HOLE	LOGOS Processing	GeoFrame Processing	Unix files	.gif	Tool Type	Remarks
1991	138	844B	Х		Х	Х	FMS	
1991	138	845A	Х		Х	Х	FMS	
1991	138	846B	Х		Х	Х	FMS	
1991	138	847B	Х		Х	Х	FMS	
1991	138	849B	Х		Х	Х	FMS	
1991	138	850B	Х		Х	Х	FMS	
1991	138	851B	Х		Х	Х	FMS	
1991	139	856H	Х		Х	Х	FMS	
1991	139	857D	Х		Х	Х	FMS	
1991	139	858F	Х		Х	Х	FMS	
1991	140	504B		Х		Х	FMS	Re-processed by C. Philippot in 2001
1991	141	859B						Poor quality data. No processing performed.
1992	141	863B						Poor quality data. No processing performed.
1992	143	865A	Х		Х	Х	FMS	
1992	143	866A	Х		Х	Х	FMS	
1992	143	867B	Х		Х	Х	FMS	
1992	143	869B	Х		Х	Х	FMS	
1992	144	801C	Х		Х	Х	FMS	
1992	144	871C	Х		Х	Х	FMS	
1992	144	873A	Х		Х	Х	FMS	
1992	144	874B	Х		Х	Х	FMS	
1992	144	878A	Х		Х	Х	FMS	
1992	144	879A	Х		Х	Х	FMS	
1992	145	883F	Х		Х	Х	FMS	
1992	145	884E	Х		Х	Х	FMS	
1992	145	887D	Х		Х	Х	FMS	
1992	146	889A	Х		Х	Х	FMS	
1992	146	889B	Х		Х	Х	FMS	
1992	146	891C	Х			Х	FMS	
1992	146	892C	Х		Х	Х	FMS	
1993	147	894G	Х			Х	FMS	
1993	148	504B	Х			Х	FMS	
1993	148	896A	Х			Х	FMS	
1993	149	900A	Х			Х	FMS	
1993	150	902D	Х			Х	FMS	
1993	150	904A	Х			Х	FMS	
1993	150	905A	X			X	FMS	

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1995 159 960C X X X FMS 1995 159 962D X X X FMS 1995 160 965A X X X FMS 1995 160 966F X X X FMS 1995 160 966F X X X FMS 1995 160 966F X X X FMS 1995 160 967E X X X FMS 1995 160 968A X X X FMS 1995 160 970A X X X FMS 1995 160 971B X X X FMS 1995 161 974C X X X FMS 1995 161 974C X X X FMS 1995 161 976B X X X FMS 1995 161 977A X X <t< td=""><td>1995</td><td>159</td><td>959D</td><td>Х</td><td></td><td>Х</td><td>Х</td><td>FMS</td><td></td></t<>	1995	159	959D	Х		Х	Х	FMS	
1995 159 962D X X X FMS 1995 160 965A X X X FMS 1995 160 966F X X X FMS 1995 160 967E X X X FMS 1995 160 967E X X X FMS 1995 160 968A X X X FMS 1995 160 970A X X X FMS 1995 160 970A X X X FMS 1995 160 971B X X X FMS 1995 161 974C X X FMS 1995 161 974C X X FMS 1995 161 974C X X FMS 1995 161 976B X X FMS 1995 162 982B X X FMS 1995 162	1995	159	960C	Х		Х	Х	FMS	
1995 160 965A X X X FMS 1995 160 966F X X X FMS 1995 160 967E X X X FMS 1995 160 967A X X X FMS 1995 160 968A X X X FMS 1995 160 970A X X X FMS 1995 160 970A X X X FMS 1995 160 971B X X X FMS 1995 161 974C X X X FMS 1995 161 977A X X X FMS 1995 162 984B X X <t< td=""><td>1995</td><td>159</td><td>962D</td><td>Х</td><td></td><td>Х</td><td>Х</td><td>FMS</td><td></td></t<>	1995	159	962D	Х		Х	Х	FMS	
1995 160 966F X X X FMS 1995 160 967E X X X FMS 1995 160 968A X X X FMS 1995 160 970A X X X FMS 1995 160 970A X X X FMS 1995 160 971B X X X FMS 1995 161 974C X X X FMS 1995 161 975C X X X FMS 1995 161 977A X X X FMS 1995 162 982B X X X FMS 1995 162 987E X X <t< td=""><td>1995</td><td>160</td><td>965A</td><td>Х</td><td></td><td>Х</td><td>Х</td><td>FMS</td><td></td></t<>	1995	160	965A	Х		Х	Х	FMS	
1995 160 967E X X X FMS 1995 160 968A X X X FMS 1995 160 970A X X X FMS 1995 160 970A X X X FMS 1995 160 971B X X X FMS 1995 161 974C X X X FMS 1995 161 974C X X X FMS 1995 161 974C X X X FMS 1995 161 977C X X X FMS 1995 161 977A X X X FMS 1995 162 982B X X X FMS 1995 162 984B X X X FMS 1995 162 987E X X X FMS 1995 162 987E X X <t< td=""><td>1995</td><td>160</td><td>966F</td><td>Х</td><td></td><td>Х</td><td>Х</td><td>FMS</td><td></td></t<>	1995	160	966F	Х		Х	Х	FMS	
1995 160 968A X X X FMS 1995 160 970A X X X FMS 1995 160 971B X X X FMS 1995 161 974C X X X FMS 1995 161 976B X X X FMS 1995 161 976B X X X FMS 1995 161 977A X X X FMS 1995 162 982B X X X FMS 1995 162 984B X X X FMS 1995 162 987E X X X FMS 1995 162 987E X X <t< td=""><td>1995</td><td>160</td><td>967E</td><td>Х</td><td></td><td>Х</td><td>Х</td><td>FMS</td><td></td></t<>	1995	160	967E	Х		Х	Х	FMS	
1995 160 970A X X X FMS 1995 160 971B X X X FMS 1995 161 974C X X X FMS 1995 161 976B X X X FMS 1995 161 977A X X X FMS 1995 162 982B X X X FMS 1995 162 984B X X X FMS 1995 162 986C X X X FMS 1995 162 987E X X X FMS 1995 164 995B X X <t< td=""><td>1995</td><td>160</td><td>968A</td><td>Х</td><td></td><td>Х</td><td>X</td><td>FMS</td><td></td></t<>	1995	160	968A	Х		Х	X	FMS	
1995 160 971B X X X FMS 1995 161 974C X X X FMS 1995 161 974C X X X FMS 1995 161 974C X X X FMS 1995 161 975C X X X FMS 1995 161 976B X X X FMS 1995 161 976B X X X FMS 1995 161 977A X X X FMS 1995 162 982B X X X FMS 1995 162 984B X X X FMS 1995 162 986C X X X FMS 1995 162 987E X X X FMS 1995 164 995B X X X FMS 1995 164 997B X X <t< td=""><td>1995</td><td>160</td><td>970A</td><td>Х</td><td></td><td>Х</td><td>Х</td><td>FMS</td><td></td></t<>	1995	160	970A	Х		Х	Х	FMS	
1995 161 974C X X X FMS 1995 161 975C X X X FMS 1995 161 976B X X X FMS 1995 161 976B X X X FMS 1995 161 976B X X X FMS 1995 161 977A X X X FMS 1995 161 977A X X X FMS 1995 162 982B X X X FMS 1995 162 984B X X X FMS 1995 162 986C X X X FMS 1995 162 987E X X X FMS 1995 164 995B X X X FMS 1995 164 997B X X X FMS 1995 164 997B X X <t< td=""><td>1995</td><td>160</td><td>971B</td><td>Х</td><td></td><td>Х</td><td>Х</td><td>FMS</td><td></td></t<>	1995	160	971B	Х		Х	Х	FMS	
1995 161 975C X X X FMS 1995 161 976B X X X FMS 1995 161 976B X X X FMS 1995 161 977A X X X FMS 1995 162 982B X X X FMS 1995 162 984B X X X FMS 1995 162 984B X X X FMS 1995 162 986C X X X FMS 1995 162 987E X X X FMS 1995 164 995B X X X FMS 1995 164 997B X X X FMS 1995 164 997B X X X FMS	1995	161	974C	Х		Х	Х	FMS	
1995 161 976B X X X FMS 1995 161 977A X X X FMS 1995 161 977A X X X FMS 1995 162 982B X X X FMS 1995 162 984B X X X FMS 1995 162 984B X X X FMS 1995 162 984C X X X FMS 1995 162 986C X X X FMS 1995 162 987E X X X FMS 1995 164 995B X X X FMS 1995 164 997B X X X FMS	1995	161	975C	Х		Х	Х	FMS	
1995 161 977A X X X FMS 1995 162 982B X X X FMS 1995 162 984B X X X FMS 1995 162 984B X X X FMS 1995 162 986C X X X FMS 1995 162 987E X X X FMS 1995 162 987E X X X FMS 1995 164 995B X X X FMS 1995 164 997B X X X FMS	1995	161	976B	Х		Х	Х	FMS	
1995 162 982B X X X FMS 1995 162 984B X X X FMS 1995 162 986C X X X FMS 1995 162 986C X X X FMS 1995 162 987E X X X FMS 1995 164 995B X X X FMS 1995 164 997B X X X FMS 1995 164 997B X X X FMS	1995	161	977A	Х		Х	Х	FMS	
1995 162 984B X X X FMS 1995 162 986C X X X FMS 1995 162 987E X X X FMS 1995 162 987E X X X FMS 1995 164 995B X X X FMS 1995 164 997B X X X FMS	1995	162	982B	Х		Х	Х	FMS	
1995 162 986C X X X FMS 1995 162 987E X X X FMS 1995 164 995B X X X FMS 1995 164 997B X X X FMS 1995 164 997B X X X FMS	1995	162	984B	Х		Х	Х	FMS	
1995 162 987E X X X FMS 1995 164 995B X X X FMS 1995 164 997B X X X FMS 1995 164 997B X X X FMS	1995	162	986C	Х		Х	Х	FMS	
1995 164 995B X X X FMS 1995 164 997B X X X FMS	1995	162	987E	Х		Х	Х	FMS	
1995 164 997B X X X FMS	1995	164	995B	Х		Х	Х	FMS	
	1995	164	997B	Х		Х	Х	FMS	

Logging Date	LEG	HOLE	LOGOS Processing	GeoFrame Processing	Unix files	.gif	Tool Type	Remarks
1996	165	1000B	Х		Х	Х	FMS	
1996	165	1001A	X		X	X	FMS	
1996	165	998B	Х		Х	Х	FMS	
1996	165	999B	Х		Х	Х	FMS	
1996	166	1003D	Х		Х	Х	FMS	
1996	166	1005C	Х		Х	Х	FMS	
1996	166	1006A	Х		Х	Х	FMS	
1996	167	1011B	Х		Х	Х	FMS	
1996	167	1014A	Х		Х	Х	FMS	
1996	167	1016A	Х		Х	Х	FMS	
1996	167	1019C	Х		Х	Х	FMS	
1996	167	1020B	Х		Х	Х	FMS	
1996	167	1022C	Х		Х	Х	FMS	
1996	168	1032A	Х		Х	Х	FMS	
1996	169	856H	Х		Х	Х	FMS	
1997	171B	1050C	Х	Х	Х	Х	FMS	Repeat Re-processed by LMF in 2000
1997	171B	1051A		Х		Х	FMS	Re-processed by T. Williams in 2002
1997	171B	1052E		Х		Х	FMS	Re-processed by T.Williams in 2002
1997	172	1061A	Х		Х	Х	FMS	
1997	172	1063A		Х		Х	FMS	Re-processed by T. Williams in 2002
1997	173	1065A	Х		Х	Х	FMS	
1997	174A	1072B	Х		Х	Х	FMS	
1997	174B	395A	Х		Х	Х	FMS	
1997	175	1081A	Х		Х	Х	FMS	
1997	175	1082A	Х		Х	Х	FMS	
1997	175	1084A	Х		Х	Х	FMS	
1997	175	1085A	Х		Х	Х	FMS	
1997	176	735B		Х		Х	FMS	Re-processed by T. Williams in 2002
1998	178	1103A		Х		Х	FMS	Re-processed by T. Williams in 2002
1998	179	1105A		Х		Х	FMS	Re-processed by T.Williams in 2002
1998	180	1109D	Х		Х	Х	FMS	
1998	180	1114A	Х		Х	Х	FMS	
1998	180	1115C	Х		Х	Х	FMS	
1998	180	1118A	Х	Х		Х	FMS	Main Re-processed by T.Williams in 2002
1998	181	1119C	Х		Х	Х	FMS	
1998	181	1123B	Х			Х	FMS	
1998	181	1124C	Х		Х	Х	FMS	

Logging DateLogging BLog							-		
19881821126DXXXXFMS19981821127BXXXFMSMain Re-processed by LMF in 200019981821128DXXXFMSMain Re-processed by LMF in 200019981821130CXXXFMSFMS19981821131AXXXFMSFMS19981821134AXXXFMSFMS19981821134AXXXFMSFMS19981831134AXXXFMSFMS19981831134AXXXFMSFMS19991841144AXXXFMSRe-processed by LMF in 200019991841146AXXXFMSFMS19991841146AXXXFMSFMS19991851105BXXXFMSFMS19991851105BXXXFMSP2 Re-processed by T.Williams in 200219991861150BXXXFMSP1 Re-processed by T.Williams in 200219991861164BXXXFMSFMS19991861164BXXXFMSFMS19991861164BXXXFMSFMS19991861164BX<	Logging Date	LEG	HOLE	LOGOS Processing	GeoFrame Processing	Unix files	.gif	Tool Type	Remarks
1998 182 1127B X X X FMS Main Re-processed by LMF in 2000 1998 182 1129D X X X FMS Main Re-processed by LMF in 2000 1998 182 1130C X X X FMS Main Re-processed by LMF in 2000 1998 182 1131A X X X FMS Interpretain Interpretain Interpretain Interpretain X X FMS Interpretain Interpretain Interpretain X X FMS Interpretain Interpretain Interpretain Interpretain Interpretain X X FMS Re-processed by LMF in 2000 Interpretain Interpretain <t< td=""><td>1998</td><td>182</td><td>1126D</td><td>Х</td><td></td><td>Х</td><td>Х</td><td>FMS</td><td></td></t<>	1998	182	1126D	Х		Х	Х	FMS	
1998 182 1128D X X X X FMS Main Re-processed by LMF in 2000 1998 182 1130C X V X FMS 1998 182 1131A X V X FMS 1999 183 1140A X V X FMS Re-processed by LMF in 2000 1999 184 1140A X V X FMS Re-processed by LMF in 2002 1999 184 1144A X V X FMS Re-processed by LMF in 2000 1999 184 1144A X V X FMS Perocessed by T.Williams in 2002 1999 184 1148A X X X FMS Perocessed by T.Williams in 2002 1999 </td <td>1998</td> <td>182</td> <td>1127B</td> <td>Х</td> <td></td> <td>Х</td> <td>Х</td> <td>FMS</td> <td></td>	1998	182	1127B	Х		Х	Х	FMS	
1998 182 1129D X X X FMS 1998 182 1130C X X X FMS 1998 182 1131A X X X FMS 1998 182 1134A X X X FMS 1998 182 1134A X X X FMS 1999 183 1140A X X X FMS 1999 183 1140A X X X FMS 1999 184 1144A X X X FMS 1999 185 801C X X X FMS 1999 185 11498 X X X FMS 1999 186 1150B X X<	1998	182	1128D	Х	Х	Х	Х	FMS	Main Re-processed by LMF in 2000
1998 182 1130C X X X FMS 1998 182 1131A X X X FMS 1998 182 1132C X X X FMS 1998 182 1134A X X X FMS 1999 183 1140A X X X FMS 1999 184 1143A X X X FMS 1999 184 1144A X X X FMS 1999 184 1144A X X X FMS 1999 184 1144A X X X FMS 1999 185 1149B X X X FMS 1999 185 1149B X X X FMS 1999 186 1150B X X X FMS 1999 186 1166B X	1998	182	1129D	Х		Х	Х	FMS	
1998 182 1131A X X X FMS 1998 182 1132C X X X FMS 1998 182 1134A X X X FMS 1999 183 1137A X X X FMS 1999 183 1140A X X FMS Re-processed by LMF in 2000 1999 184 1143A X X X FMS Re-processed by T.Williams in 2002 1999 184 1144A X X X FMS 1999 184 1148A X X X FMS 1999 184 1148A X X X FMS P2 Re-processed by T.Williams in 2002 1999 185 1149B X X X FMS URe-processed by T.Williams in 2002 1999 186 115D X X FMS Re-processed by T.Williams in 2002 <td>1998</td> <td>182</td> <td>1130C</td> <td>Х</td> <td></td> <td>Х</td> <td>Х</td> <td>FMS</td> <td></td>	1998	182	1130C	Х		Х	Х	FMS	
19981821132XXXFMS19981821134AXVXXFMS19991831137AXVXFMSRe-processed by LMF in 200019991841143AXXXFMSRe-processed by LMF in 200019991841144AXXXFMSRe-processed by T.Williams in 200219991841144AXXXFMSRe-processed by T.Williams in 200219991841144AXXXFMSInterpret State19991841144AXXXFMSInterpret State19991841144AXXXFMSInterpret State1999185801CXXXFMSP2 Re-processed by T.Williams in 200219991861150BXXXFMSInterpret State19991861151DXXXFMSP1 Re-processed by T.Williams in 200219991861151DXXYFMSP1 Re-processed by T.Williams in 200219991861166XXYFMS19991861164XXYFMS19991861164XXYFMS19991861164XXYFMS19991861164XXYFMS199918	1998	182	1131A	Х		Х	Х	FMS	
1998 182 1134A X X X FMS 1999 183 1137A X X X FMS 1999 183 1140A X X FMS Re-processed by LMF in 2000 1999 184 1144A X X X FMS Re-processed by T.Williams in 2002 1999 184 1144A X X X FMS Re-processed by T.Williams in 2002 1999 184 1148A X X X FMS 1999 185 1149B X X X FMS 1999 185 1149B X X X FMS U Re-processed by T.Williams in 2002 1999 186 1151D X X X FMS PI Re-processed by T.Williams in 2002 1999 186 1166A X X FMS PI -2-4 Re-processed by T.Williams in 2002 1900 1170D X	1998	182	1132C	Х		Х	Х	FMS	
1999 183 1137A X X X FMS Re-processed by LMF in 2000 1999 184 1143A X X X FMS Re-processed by T.Williams in 2002 1999 184 1144A X X X FMS Re-processed by T.Williams in 2002 1999 184 1144A X X X FMS 1999 184 1144A X X X FMS 1999 184 1144A X X X FMS 1999 185 801C X X X FMS P2 Re-processed by T.Williams in 2002 1999 185 1149B X X X FMS U Re-processed by T.Williams in 2002 1999 186 1150 X X X FMS P1 Re-processed by T.Williams in 2002 1900 188 1166A X X X FMS Re-processed by T.Williams in 2002 2000 189 1170D X X X F	1998	182	1134A	Х		Х	Х	FMS	
19991831140AXXKFMSRe-processed by LMF in 200019991841143AXXXFMSRe-processed by T.Williams in 200219991841144AXXXXFMS19991841146AXXXFMSFMS19991841148AXXXFMSFMS1999185801CXXXFMSP2 Re-processed by T.Williams in 200219991851149BXXXFMSP2 Re-processed by T.Williams in 200219991861150BXXXFMSU Re-processed by T.Williams in 200219991861151DXXXFMSP1 Re-processed by T.Williams in 200220001881166AXXXFMSP1 Re-processed by T.Williams in 200220001881166BXXXFMSP1 Re-processed by T.Williams in 200220001881166AXXXFMS20001891170DXXFMSP1 - 24 Re-processed by T.Williams in 200220001931188BXIXFMS20001931188BXIXFMS20001931189BXIXFMS20011931189CXIXFMS20011931189BXIXFMS	1999	183	1137A	Х		Х	Х	FMS	
19991841143AVAXXFMSRe-processed by T.Williams in 200219991841144AXXXXFMS19991841146AXXXFMS19991841148AXXXFMS1999185801CXXXFMS19991851149BXXXFMSP2 Re-processed by T.Williams in 200219991861150BXXXFMSU Re-processed by T.Williams in 200219991861150BXXXFMSP1 Re-processed by T.Williams in 200219991861151DXXXFMSP1 Re-processed by T.Williams in 200220001881166AXXXFMSRe-processed by T.Williams in 20022000188116BXXXFMSP1 Re-processed by T.Williams in 20022000188116BXXXFMSRe-processed by T.Williams in 20022000188116BXXXFMSP1-2-4 Re-processed by T.Williams in 200220001891170BXXXFMSP1-2-4 Re-processed by T.Williams in 200220001901173AXXXFMSP1-2-4 Re-processed by T.Williams in 200220001931188FXXXFMSP1-2-4 Re-processed by T.Williams in 20022000193	1999	183	1140A		Х		Х	FMS	Re-processed by LMF in 2000
19991841144AXXXXFMSIndext19991841146AXXXXFMSIndext1999185801CXXXFMSP2 Re-processed by T.Williams in 200219991851149BXXXFMSP2 Re-processed by T.Williams in 200219991851149BXXXFMSU Re-processed by T.Williams in 200219991861150BXXXFMSP1 Re-processed by T.Williams in 200220001881166AXXXFMSRe-processed by T.Williams in 200220001881166BXXXFMSP1 Re-processed by T.Williams in 200220001881166BXXXFMSP1-2-4 Re-processed by T.Williams in 200220001881166BXXXFMSP1-2-4 Re-processed by T.Williams in 200220001891170DXXXFMS20001901173AXXXFMS20001911186AXXXFMS20001931188FXXXFMS20001931188FXXXFMS20011931189CXXKFMS20011931189CXXKFMS20011941194BXXKFMS </td <td>1999</td> <td>184</td> <td>1143A</td> <td></td> <td>Х</td> <td></td> <td>Х</td> <td>FMS</td> <td>Re-processed by T.Williams in 2002</td>	1999	184	1143A		Х		Х	FMS	Re-processed by T.Williams in 2002
19991841146AXXXFMSIndexe1999185801CXXXFMSP2 Re-processed by T.Williams in 200219991851149BXXXFMSP2 Re-processed by T.Williams in 200219991861150BXXXFMSU Re-processed by T.Williams in 200219991861151DXXXFMSU Re-processed by T.Williams in 200220001881166AIXXXFMSP1 Re-processed by T.Williams in 200220001881166BIXXXFMSP1 Re-processed by T.Williams in 200220001881166BIXXXFMSP1 Re-processed by T.Williams in 200220001881166BIXXYFMSP1 Re-processed by T.Williams in 200220001891170DIXXYFMSP1 Re-processed by T.Williams in 200220001891170DIXXYFMS20001901173AIXYFMSP1 Re-processed by T.Williams in 200220001911188FIXXYFMS20001921188FIXXFMSP1 Re-processed by T.Williams in 200220011931189FIXXYFMS20011941189FXXXFMS	1999	184	1144A	Х		Х	Х	FMS	
19991841148AXXXXFMSP2 Re-processed by T.Williams in 200219991851149BXXXFMSP2 Re-processed by T.Williams in 200219991861150BXXXFMSU Re-processed by T.Williams in 200219991861151DXXXFMSU Re-processed by T.Williams in 200220001881166ACXXFMSP1 Re-processed by T.Williams in 200220001881166BCXXFMSRe-processed by T.Williams in 200220001881166BCXXFMSP1 Re-processed by T.Williams in 200220001881166BCXVFMSP1-2-4 Re-processed by T.Williams in 200220001891170DCXVFMSP1-2-4 Re-processed by T.Williams in 200220001901173ACXVFMSP1-2-4 Re-processed by T.Williams in 200220001901173ACXVFMSP1-2-4 Re-processed by T.Williams in 200220001911188BCXVFMSP1-2-4 Re-processed by T.Williams in 200220001921186ACXVFMSP1-2-4 Re-processed by T.Williams in 200220001931188BCXVFMSP1-2-4 Re-processed by T.Williams in 200220011931188BCXVFMSP1-2-4 Re-pr	1999	184	1146A	Х		Х	Х	FMS	
1999185801CXXXXFMSP2 Re-processed by T.Williams in 2002199918611498XXXFMSU Re-processed by T.Williams in 200219991861151DXXXFMSU Re-processed by T.Williams in 200219991861151DXXXFMSP1 Re-processed by T.Williams in 200220001881166AXXXFMSRe-processed by T.Williams in 200220001881166BXXXFMSRe-processed by T.Williams in 200220001891170DXXXFMSP1-2-4 Re-processed by T.Williams in 200220001901173AXXXFMSP1-2-4 Re-processed by T.Williams in 200220001901173AXXXFMSP1-2-4 Re-processed by T.Williams in 200220001911184BXXXFMSP1-2-4 Re-processed by T.Williams in 200220001921184BXXXFMS20001931188BXXXFMS20001931188BXXXFMS20011931188FXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS2001194 <t< td=""><td>1999</td><td>184</td><td>1148A</td><td>Х</td><td></td><td>Х</td><td>Х</td><td>FMS</td><td></td></t<>	1999	184	1148A	Х		Х	Х	FMS	
19991851149BXXXXFMSImage: constraint of the system of	1999	185	801C	Х	Х	Х	Х	FMS	P2 Re-processed by T.Williams in 2002
19991861150BXXXXFMSU Re-processed by T.Williams in 200219991861151DXXXXFMSP1 Re-processed by T.Williams in 200220001881166AXXXFMSRe-processed by T.Williams in 200220001891166BXXFMSP1-2-4 Re-processed by T.Williams in 200220001891170DXXFMSP1-2-4 Re-processed by T.Williams in 200220001901173AXXXFMS20001921186AXXXFMS20001931188BXXXFMS20001931188BXXXFMS20011931189BXXXFMS20011931189CXXXFMS20011931189CXXXFMS20011941194BXXXFMS20011941194AXXXFMS20011941194AXXXFMS20011941194AXXXFMS20011941194AXXXFMS20011941194AXXXFMS20011941194BXXXFMS20011941194AXXXRAB	1999	185	1149B	Х		Х	Х	FMS	
19991861151DXXXXFMSP1 Re-processed by T.Williams in 200220001881166AXXKFMSRe-processed by T.Williams in 200220001891170DXXFMSP1-2-4 Re-processed by T.Williams in 200220001891170DXXFMSP1-2-4 Re-processed by T.Williams in 200220001901173AXXKFMS20001921186AXXKFMS20001931188BXXXFMS20001931188BXXKFMS20001931188FXXKFMS20001931189BXVXFMS20011931189CXIXFMS20011931189CXIXFMS20011931189CXIXFMS20011941194BXIXFMS20011941195BXIXFMS20011941199AXIXFMS20011941193AXIXFMS20011941193AXIXFMS20011941193AXIXFMS20011941193AXIXRAB20011961173BXI<	1999	186	1150B	Х	Х	Х	Х	FMS	U Re-processed by T.Williams in 2002
20001881166AXXFMSRe-processed by T.Williams in 200220001881166BXXXFMS20001891170DXXXFMSP1-2-4 Re-processed by T.Williams in 200220001901173AXXFMSP1-2-4 Re-processed by T.Williams in 200220001921186AXXFMS20001931188BXXXFMS20001931188BXXXFMS20001931188FXXXFMS20001931189BXXXFMS20001931189BXXXFMS20011931189CXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011961173BXXXRAB2001	1999	186	1151D	Х	Х	Х	Х	FMS	PI Re-processed by T.Williams in 2002
20001881166BAXIXFMSPH2-4 Re-processed by T.Williams in 200220001901173AAXXFMSP1-2-4 Re-processed by T.Williams in 200220001901173AAXXFMS20001921186AAXXFMS20001931188BAXXFMS20001931188FAXXFMS20001931189BAXMFMS20011931189BAXMFMS20011931189CAXMFMS20011931194BAXMFMS20011941194BAXMFMS20011941194BAXMFMS20011941194BAXMFMS20011941194BAXMFMS20011941194BAXMFMS20011941194BAXMFMS20011941194BAXMFMS20011941193BAXMFMS20011941173BAXKRAB20011961173BAX <td< td=""><td>2000</td><td>188</td><td>1166A</td><td></td><td>Х</td><td></td><td>Х</td><td>FMS</td><td>Re-processed by T.Williams in 2002</td></td<>	2000	188	1166A		Х		Х	FMS	Re-processed by T.Williams in 2002
20001891170DXXFMSP1-2-4 Re-processed by T.Williams in 200220001901173AXXFMS20001921186AXXFMS20001931188BXXXRAB20001931188FXXXFMS20001931189BXXXFMS20011931189BXXXFMS20011931189BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941194BXXXFMS20011941173BXXXRAB20011961173BXXXRAB20011961173CXXXRAB20011961173CXXXRAB20011961173BXXXRAB20011961173CXXXRAB2001 <td< td=""><td>2000</td><td>188</td><td>1166B</td><td></td><td>Х</td><td></td><td>Х</td><td>FMS</td><td></td></td<>	2000	188	1166B		Х		Х	FMS	
20001901173AXXFMS20001921186AXXFMS20001931188BXXRAB20001931188FXXFMS20001931189BXXFMS20011931189BXXFMS20011931189CXMXFMS20011941194BXXFMS20011941195BXXFMS20011941199AXXFMS20011941193BXXFMS20011941193AXXFMS20011941193AXXFMS20011941193AXXFMS20011941193AXXFMS20011941193AXXFMS20011941173BXXFMS20011961173BXXRAB20011961173CXXRAB20011971203AXXRAB20011981207BXXFMS	2000	189	1170D		Х		Х	FMS	PI-2-4 Re-processed by T.Williams in 2002
20001921186AXXFMS20001931188BXXRAB20001931188FXXFMS20001931189BXXFMS20011931189BXXFMS20011931189BXXFMS20011941194BXXFMS20011941195BXXFMS20011941199AXXFMS20011941199AXXFMS20011941193BXXFMS20011941193AXXFMS2001196101DXXRAB20011961173BXXRAB20011961173CXXRAB20011961173CXXFMS20011961173CXXRAB20011971203AXXFMS20011981207BXXFMS	2000	190	1173A		Х		Х	FMS	
20001931188BXXRAB20001931188FXXFMS20001931189BXXFMS20011931189CXXFMS20011941194BXXFMS20011941194BXXFMS20011941199AXXFMS20011941199AXXFMS20011941199AXXFMS20011941199AXXFMS20011941199AXXFMS20011941173CXXFMS20011961173CXXRAB20011961173CXXRAB20011971203AXXFMS20011981207BXXFMS	2000	192	1186A		Х		Х	FMS	
20001931188FXXFMS20001931189BXXFMS20011931189CXXFMS/ RAB20011941194BXXFMS20011941195BXXFMS20011941195BXXFMS20011941199AXXFMS20011941199AXXFMS20011941193AXXFMS20011951201DXXFMS2001196808IXXFMS20011961173BXXRAB20011961173CXXFMS20011971203AXXFMS20011981207BXXFMS20011981207BXXFMS	2000	193	1188B		Х		Х	RAB	
20001931189BXXFMS20011931189CXXSS20011941194BXXFMS20011941195BXXFMS20011941199AXXFMS20011941199AXXFMS20011941199AXXFMS20011941201DXXFMS2001196808IXXFMS20011961173BXXRAB20011961173CXXFMS20011971203AXXFMS20011981207BXXFMS20011981207BXXFMS	2000	193	1188F		Х		Х	FMS	
20011931189CXXKFMS/ RAB20011941194BXXFMS20011941195BXXFMS20011941199AXXFMS20011941201DXXFMS20011951201DXXFMS2001196808IXXFMS20011961173BXXX20011961173CXXRAB20011961173CXXFMS20011971203AXXFMS20011981207BXXFMS	2000	193	1189B		Х		Х	FMS	
2001 194 1194B X X FMS 2001 194 1195B X X FMS 2001 194 1199A X X FMS 2001 194 1199A X X FMS 2001 194 1199A X X FMS 2001 195 1201D X X FMS 2001 196 808I X X RAB 2001 196 1173B X X RAB 2001 196 1173C X X RAB 2001 196 1173C X X RAB 2001 196 1173C X X RAB 2001 196 1203A X X FMS 2001 197 1203A X X FMS 2001 198 1207B X X FMS	2001	193	1189C		х		х	FMS/ RAB	
2001 194 1195B X X FMS 2001 194 1199A X X FMS 2001 194 1199A X X FMS 2001 195 1201D X X FMS 2001 196 808I X X RAB 2001 196 1173B X X RAB 2001 196 1173C X X RAB 2001 196 1173C X X RAB 2001 196 1203A X X RAB 2001 196 1203A X X RAB 2001 197 1203A X X RAB 2001 198 1207B X X FMS	2001	194	1194B		Х		Х	FMS	
2001 194 1199A X X FMS 2001 195 1201D X X FMS 2001 196 808I X X RAB 2001 196 1173B X X RAB 2001 196 1173C X X RAB 2001 196 1173C X X RAB 2001 196 1173C X X RAB 2001 196 1203A X X RAB 2001 197 1203A X X FMS 2001 198 1207B X X FMS	2001	194	1195B		Х		Х	FMS	
2001 195 1201D X X FMS 2001 196 8081 X X RAB 2001 196 1173B X X RAB 2001 196 1173C X X RAB 2001 196 1173C X X RAB 2001 196 1203A X X RAB 2001 197 1203A X X FMS 2001 198 1207B X X FMS	2001	194	1199A		Х		Х	FMS	
2001 196 8081 X X RAB 2001 196 1173B X X RAB 2001 196 1173C X X RAB 2001 196 1173C X X RAB 2001 197 1203A X X FMS 2001 198 1207B X X FMS	2001	195	1201D		Х		Х	FMS	
2001 196 1173B X X RAB 2001 196 1173C X X RAB 2001 196 1173C X X RAB 2001 197 1203A X X FMS 2001 198 1207B X X FMS	2001	196	8081		Х		Х	RAB	
2001 196 1173C X X RAB 2001 197 1203A X X FMS 2001 198 1207B X X FMS	2001	196	1173B		Х		Х	RAB	
2001 197 1203A X X FMS 2001 198 1207B X X FMS	2001	196	1173C		Х		Х	RAB	
2001 198 1207B X X FMS	2001	197	1203A		Х		Х	FMS	
	2001	198	1207B		Х		Х	FMS	

Logging Date	LEG	HOLE	LOGOS Processing	GeoFrame Processing	Unix files	.gif	Tool Type	Remarks
2001	199	1218A		Х		Х	FMS	
2001	199	1219A		Х		Х	FMS	
2002	200	1224F		Х		Х	FMS	
2002	201	1230A		Х		X	FMS	
2002	202	1238A		Х		Х	FMS	
2002	202	1239A		Х		Х	FMS	
2002	202	1241B		Х		Х	FMS	
2002	203	1243B		Х		Х	FMS	
2002	204	1244D		Х		Х	RAB	
2002	204	1244E		Х		Х	FMS	
2002	204	1245A		Х		Х	RAB	
2002	204	1245E		Х		Х	FMS	
2002	204	1246A		Х		Х	RAB	
2002	204	1247A		Х		Х	RAB	
2002	204	1247B		Х		Х	FMS	
2002	204	1248A		Х		Х	RAB	
2002	204	1249A		Х		Х	RAB	
2002	204	1249B		Х		Х	FMS	
2002	204	1250B		Х		Х	RAB	
2002	204	1250F		Х		Х	FMS	
2002	204	1251A		Х		Х	RAB	
2002	204	1251H		Х		Х	FMS	
2002	204	1252A		Х		Х	FMS	
2002	205	1253A		Х		Х	FMS	
2002	206	1256D		х		х	FMS/ UBI	
2003	207	1257A		Х		Х	FMS	
2003	207	1258C		Х		Х	FMS	
2003	207	1260B		Х		Х	FMS	
2003	207	1261B		Х		Х	FMS	
2003	208	1263A		Х		Х	FMS	
2003	208	1265A		Х		Х	FMS	
2003	209	1272A		Х		Х	FMS	
2003	209	1275D		Х		Х	FMS	