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NIMS Obstab (Data Returned)
Columns      Comments
-----
OAPEL       1 - 12      .Oapel Name from SEF
EXT         14 - 14      .Extension (allow for split OAPELs)
PSID        16 - 17      .2 Letter ID for the OAPEL
SCLK1       19 - 29      .Start time of OBS in SCLK
SCLK2       31 - 41      .STOP time of OBS in SCLK
MODE        43 - 44      .NIMS Instrument MODE
GAIN        46 - 47      .Gain State (true value)
CHOP        49 - 50      .Chopper State (1=Ref,2=63Hz,3=FreeRun,4=Off)
GRAT_OFF    52 - 53      .Grating Offset
PTAB_A(6)   55 - 71      .First PTAB (repeat count,mirror op,autobias...
PTAB_B(6)   73 - 89      .Second PTAB (...grating start, grating delta...
              (...number of grating postions)
ECAL        92 - 92      .Electronics Calibration Active (1=yes)
OPCAL       94 - 94      .Optics Calibration active (1=yes)
UTC1        96 - 112     .Start time of OBS in UTC (from SEF - ISO STANDARD)
REAL_TIME   115 - 115    .NIMS in Real-Time Telemetry (1=yes)
RECORD      117 - 117    .NIMS in Record Telemetry(1=yes)
TARGET      120 - 127    .Primary Target of OBS
              GASPRA
              - P - Gaspra
              CALIBRATION - N - Non-Science
              (the single letter abbreviation appears as the third character in the OBSNAME (OAPEL Name) ).
INPUT SEF FILE: EE11_921118.SEF
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OAPEL, EXT, PSID, SCLK1, SCLK2, MODE, GAIN, CHOP, GRAT_OFF, PTAB_A(6), PTAB_B(6), ECAL, OPCAL, UTC1, REAL_TIME, RECORD, TARGET
-----
OAPEL  EXT PSID SCLK1  SCLK2  M G C O | PTAB A | | PTAB B | E O | R T TARGET
-----
GAPSLTRVC01 A IG 01072716:00 01072716:13 1 4 2 4 1 1 0 0 2 12 1 1 0 0 2 12 0 0 1991-302TT14:33:45 0 1 GASPRA
GAPNGASPEC01 A JA 01072720:00 01072723:22 1 4 2 4 1 1 0 0 2 12 1 1 0 0 2 12 0 0 1991-302TT14:37:48 0 1 GASPRA
GAPNGASPER01 A JB 01072734:05 01072734:21 7 4 2 4 1 1 0 6 0 12 1 1 0 6 0 12 0 0 1991-302TT14:52:01 0 1 GASPRA
GAPNGASCUR01 A EA 01072751:04 01072751:45 5 4 2 4 1 1 0 2 4 6 1 1 0 2 4 6 0 0 1991-302TT15:09:12 0 1 GASPRA
GAPNGASCUR01 B EA 01072751:57 01072752:28 5 4 2 4 1 1 0 2 4 6 1 1 0 2 4 6 0 0 1991-302TT15:09:47 0 1 GASPRA
GAPNGASPER02 A JC 01072769:05 01072769:21 7 4 2 4 1 1 0 6 0 12 1 1 0 6 0 12 0 0 1991-302TT15:27:24 0 1 GASPRA
GAPNGASCUR02 A EB 01072786:04 01072786:45 5 4 2 4 1 1 0 2 4 6 1 1 0 2 4 6 0 0 1991-302TT15:44:35 0 1 GASPRA
GAPNGASCUR02 B EB 01072786:57 01072787:35 5 4 2 4 1 1 0 2 4 6 1 1 0 2 4 6 0 0 1991-302TT15:45:10 0 1 GASPRA
GAPNGASPER03 A JD 01072804:05 01072804:13 7 4 2 4 1 1 0 6 0 12 1 1 0 6 0 12 0 0 1991-302TT16:02:48 0 1 GASPRA
GAPSLTRVC02 A IF 01072821:00 01072821:13 1 4 2 4 1 1 0 0 2 12 1 1 0 0 2 12 0 0 1991-302TT16:19:55 0 1 GASPRA
GAPNGASPEC02 A JE 01072825:05 01072828:46 1 4 2 4 1 1 0 0 2 12 1 1 0 0 2 12 0 0 1991-302TT16:24:02 0 1 GASPRA
GAPNGASPER04 A JF 01072839:05 01072839:23 7 4 2 4 1 1 0 6 0 12 1 1 0 6 0 12 0 0 1991-302TT16:38:11 0 1 GASPRA
GAPNGASCUR03 A EC 01072856:04 01072856:45 5 4 2 4 1 1 0 2 4 6 1 1 0 2 4 6 0 0 1991-302TT16:55:22 0 1 GASPRA
GAPNGASCUR03 B EC 01072856:57 01072857:34 5 4 2 4 1 1 0 2 4 6 1 1 0 2 4 6 0 0 1991-302TT16:55:57 0 1 GASPRA
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OAPEL	EXT	PSID	SCLK1	SCLK2	M	G	C	O	PTAB A	PTAB B	E	O	UTCI	R	T	TARGET										
GAPNGASPER05	A	JG	01072874:05	01072874:23	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T17:13:34	0	1	GASPPRA
GAPNGASCUR04	A	ED	01072891:04	01072891:45	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T17:30:45	0	1	GASPPRA
GAPNGASCUR04	B	ED	01072891:57	01072892:34	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T17:31:20	0	1	GASPPRA
GAPNGASPER06	A	JH	01072909:05	01072909:23	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T17:48:58	0	1	GASPPRA
GAPSLTRVC03	A	IE	01072926:04	01072927:90	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T18:06:08	0	1	GASPPRA
GAPNGASPEC03	A	JI	01072930:05	01072934:10	1	4	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T18:10:12	0	1	GASPPRA
GAPNGASPER07	A	JJ	01072944:05	01072944:25	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T18:24:21	0	1	GASPPRA
GAPNGASCUR05	A	EE	01072961:04	01072961:45	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T18:41:32	0	1	GASPPRA
GAPNGASCUR05	B	EE	01072961:57	01072962:31	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T18:42:07	0	1	GASPPRA
GAPNGASPER08	A	JK	01072979:05	01072979:25	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T18:59:44	0	1	GASPPRA
GAPNGASCUR06	A	EF	01072996:04	01072996:45	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T19:16:55	0	1	GASPPRA
GAPNGASCUR06	B	EF	01072996:57	01072997:34	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T19:17:30	0	1	GASPPRA
GAPSLTRVC04	A	ID	01073031:04	01073032:90	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T19:52:18	0	1	GASPPRA
GAPNGASPEC04	A	JM	01073035:05	01073039:25	1	4	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T19:56:22	0	1	GASPPRA
GAPNGASPER10	A	JN	01073049:05	01073049:29	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T20:10:31	0	1	GASPPRA
GAPNGASCUR07	A	EG	01073066:04	01073066:45	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T20:27:42	0	1	GASPPRA
GAPNGASCUR07	B	EG	01073066:57	01073067:62	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T20:28:17	0	1	GASPPRA
GAPNGASPER11	A	JO	01073083:90	01073084:29	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T20:45:50	0	1	GASPPRA
GAPNGASCUR08	A	EH	01073101:04	01073101:45	5	3	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T21:03:05	0	1	GASPPRA
GAPNGASCUR08	B	EH	01073101:57	01073102:82	5	3	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T21:03:40	0	1	GASPPRA
GAPNGASPER12	A	JP	01073113:05	01073113:31	7	3	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T21:15:14	0	1	GASPPRA
GAPNGASPEC05	A	JQ	01073129:05	01073133:88	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T21:31:24	0	1	GASPPRA
GAPNGASVIS01	A	IA	01073135:40	01073138:77	12	1	2	4	6	1	0	6	0	12	3	1	0	0	1	24	0	0	1991-302T21:37:52	0	1	GASPPRA
GAPNGASPEC06	A	JR	01073141:61	01073144:46	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T21:44:10	0	1	GASPPRA
GAPNGASPEC06	B	JR	01073144:55	01073148:48	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T21:46:37	0	1	GASPPRA
GAPNGASVIS02	A	IB	01073149:01	01073150:90	7	1	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T21:51:35	0	1	GASPPRA
GAPNGSCHEM02	A	JS	01073151:00	01073151:12	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T21:53:30	0	1	GASPPRA
GAPNGSCHEM02	B	JS	01073151:79	01073157:70	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T21:54:28	0	1	GASPPRA
GAPNGASNAP01	A	IC	01073158:40	01073163:51	13	1	2	4	2	1	0	0	1	24	4	1	0	6	0	12	0	0	1991-302T22:01:07	0	1	GASPPRA
GAPNGSCHEM04	A	JT	01073164:41	01073172:70	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T22:07:12	0	1	GASPPRA
GAPNGASMAP01	A	JU	01073173:59	01073177:35	7	1	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T22:16:30	0	1	GASPPRA
GAPNGASMAP01	A	EI	01073178:01	01073178:43	7	1	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T22:20:55	0	1	GASPPRA
GAPNGASMAP01	B	EI	01073178:52	01073185:25	7	1	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T22:21:26	0	1	GASPPRA
GANNPCTCAL01	A	JV	01073398:90	01073399:89	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1991-303T02:04:20	0	1	PCT
GANNPCTCAL01	B	JV	01073401:90	01073402:89	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1991-303T02:07:22	0	1	PCT
GANNRCTCAL01	A	JW	01073792:90	01073793:89	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1991-303T08:42:43	0	1	RCT
GANNRCTCAL01	B	JW	01073796:00	01073796:89	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1991-303T08:45:45	0	1	RCT

NIMS GASGRA DATA

NIMS\_EDR NIMS EDR filename.  
 SCLK1 NIMS EDR Start SCLK (RIM:MF).  
 SCLK2 NIMS EDR End SCLK (RIM:MF).  
 NR Number of Data Records (MFs).  
 NF Number of 0-Fill Records (MFs).  
 OAPEL Observation Name.  
 GAS GASGRA Seen in Data: X = Yes, 0 = No  
 MODE NIMS Mode.  
 DATA\_RANGE SCLK Range (RIM:MF - RIM:MF) of Data Segment.  
 GAS\_RANGE SCLK Range (RIM:MF - RIM:MF) Where GASGRA Is Seen By NIMS Within the Data Segment.  
 COMMENTS Mirror Position where Gaspra seen in NIMS FOV. (Chopper Mode for Calibrations)

NOTES: 1) Any NIMS EDR may contain data from multiple Observations (OAPeLs).

FEL 21jul95

NIMS_EDR	SCLK 1	SCLK2	( NR, NF)	OAPEL	GAS	MODE	DATA_RANGE	GAS_RANGE	COMMENTS
N10107271600.2	1072716.00	1072716.13	( 14, 0)	GAPSLTCRVC01	0	FM	(16.00 - 16.13)		
N10107272000.2	1072720.00	1072723.22	( 296, 0)	GAPNGASPEC01	X	FM	(20.00 - 23.22)	(21.45 - 21.66)	MP 9
N10107273405.2	1072734.05	1072734.21	( 17, 0)	GAPNGASPER01	X	XM	(34.05 - 34.21)	(34.15 - 34.16)	MP 9
N10107275104.2	1072751.04	1072752.28	( 116, 11)	GAPNGASCUR01	X	SM	(51.04 - 52.28)	(51.81 - 51.85)	MP 9,10
N10107276905.2	1072769.05	1072769.21	( 17, 0)	GAPNGASPER02	X	XM	(69.05 - 69.21)	(69.15 - 69.15)	MP 9
N10107278604.2	1072786.04	1072787.35	( 123, 11)	GAPNGASCUR02	X	SM	(86.04 - 87.35)	(86.84 - 86.89)	MP 9,10
N10107280405.2	1072804.05	1072804.21	( 17, 0)	GAPNGASPER03	X	XM	(04.05 - 04.21)	(04.15 - 04.15)	MP 9,10
N10107282100.2	1072821.00	1072821.13	( 14, 0)	GAPSLTCRVC02	X	FM	(21.00 - 21.13)	(21.05 - 21.06)	MP 9
N10107282505.2	1072825.05	1072828.46	( 315, 0)	GAPNGASPEC02	X	FM	(25.05 - 28.46)	(26.78 - 27.09)	MP 9,10
N10107283905.2	1072839.05	1072839.23	( 19, 0)	GAPNGASPER04	X	XM	(39.05 - 39.23)	(39.16 - 39.16)	MP 9,10
N10107285604.2	1072856.04	1072857.34	( 122, 11)	GAPNGASCUR03	X	SM	(56.04 - 57.34)	(56.86 - 57.01)	MP 9,10

NIMS GASPRG DATA

NIMS_EDR	SCLK 1	SCLK2	( NR,	NF)	OAPL	GAS	MODE	DATA_RANGE	GAS_RANGE	COMMENTS
N10107287405.2	1072874.05	1072874.23	( 19,	0)	GAPNGASPER05	X	XM	(74.05 - 74.23)	(74.16 - 74.16)	MP 9,10
N10107289104.2	1072891.04	1072892.34	( 122,	11)	GAPNGASCUR04	X	SM	(91.04 - 92.34)	(91.84 - 92.00)	MP 9,10
N10107290905.2	1072909.05	1072909.23	( 19,	0)	GAPNGASPER06	X	XM	(09.05 - 09.23)	(09.16 - 09.17)	MP 9,10
N10107292604.2	1072926.04	1072927.90	( 178,	0)	GAPSLTCRVC03	X	XM	(26.04 - 27.90)	(27.48 - 27.55)	MP 9,10
N10107293005.2	1072930.05	1072934.10	( 370,	0)	GAPNGASPEC03	X	FM	(30.05 - 34.10)	(32.06 - 32.30)	MP 9,10
N10107294405.2	1072944.05	1072944.25	( 21,	0)	GAPNGASPER07	X	XM	(44.05 - 44.25)	(44.17 - 44.17)	MP 9,10
N10107296104.2	1072961.04	1072962.31	( 119,	11)	GAPNGASCUR05	X	SM	(61.04 - 62.31)	(61.79 - 61.85)	MP 9,10
N10107297905.2	1072979.05	1072979.25	( 21,	0)	GAPNGASPER08	X	XM	(79.05 - 79.25)	(79.16 - 79.16)	MP 9,10
N10107299604.2	1072996.04	1072997.34	( 122,	11)	GAPNGASCUR06	X	SM	(96.04 - 97.34)	(96.09 - 96.09)	MP 9
						X	SM	(96.04 - 97.34)	(96.84 - 97.00)	MP 9,10
N10107303104.2	1073031.04	1073032.90	( 178,	0)	GAPSLTCRVC04	X	SM	(31.04 - 32.90)	(31.28 - 32.90)	MP 9,10
N10107303505.2	1073035.05	1073039.25	( 385,	0)	GAPNGASPEC04	X	FM	(35.05 - 39.25)	(37.02 - 37.41)	MP 9,10
N10107304905.2	1073049.05	1073049.29	( 25,	0)	GAPNGASPER10	X	XM	(49.05 - 49.29)	(49.17 - 49.18)	MP 9,10
N10107306604.2	1073066.04	1073067.62	( 150,	11)	GAPNGASCUR07	X	SM	(66.04 - 67.62)	(67.03 - 67.11)	MP 9,10
N10107308390.2	1073083.90	1073084.29	( 31,	0)	GAPNGASPER11	X	XM	(83.90 - 84.29)	(84.19 - 84.19)	MP 9,10
N10107310104.2	1073101.04	1073102.82	( 170,	11)	GAPNGASCUR08	X	SM	(01.04 - 02.82)	(01.08 - 01.09)	MP 9,10
						X	SM	(01.04 - 02.82)	(02.10 - 02.20)	MP 9,10
N10107311305.2	1073113.05	1073113.31	( 27,	0)	GAPNGASPER12	X	XM	(13.05 - 13.31)	(13.19 - 13.20)	MP 9,10
N10107312905.2	1073129.05	1073138.77	( 892,	133)	GAPNGASPEC05	X	FM	(29.05 - 33.88)	(31.19 - 31.46)	MP 4-6
						X	XM	(35.40 - 38.77)	(36.22 - 36.23)	MP 2-4
						X	XM	(35.40 - 38.77)	(37.87 - 37.87)	MP 2-4

NIMS GASGRA DATA

NIMS_EDR	SCLK 1	SCLK2	( NR, NF)	OAPL	GAS	MODE	DATA_RANGE	GAS_RANGE	COMMENTS
N10107314161.2	1073141.61	1073185.25	(3969, 400)	GAPNGASPEC06	X	FM	(41.61 - 48.48)	(43.70 - 44.05)	MP 17-19
				GAPNGASPEC06	X	FM	(41.61 - 48.48)	(45.41 - 45.66)	MP 17-19
				GAPNGASVIS02	X	XM	(49.01 - 51.12)	(49.71 - 49.73)	MP 3-5
				GAPNGASVIS02	X	XM	(49.01 - 51.12)	(50.37 - 50.38)	MP 16-17
				GAPNGSCHEM02	X	SM	(51.78 - 57.70)	(53.02 - 53.17)	MP 1-3
				GAPNGSCHEM02	X	SM	(51.78 - 57.70)	(56.07 - 56.22)	MP 19
				GAPNGASNAP01	X	XM	(58.41 - 63.52)	(60.65 - 60.77)	MP 8-11
				GAPNGASNAP01	X	LM	(58.41 - 63.52)	(60.78 - 61.12)	MP 8-11
				GAPNGASNAP01	X	XM	(58.41 - 63.52)	(61.13 - 61.18)	MP 8-11
				GAPNGSCHEM04	X	SM	(64.42 - 72.71)	(66.15 - 66.36)	MP 2-5
				GAPNGSCHEM04	X	SM	(64.42 - 72.71)	(70.30 - 70.51)	MP 16-19
				GAPNGASMAP01	X	XM	(73.60 - 77.36)	(74.88 - 75.01)	MP 3-8
				GAPNGASPAT01	X	XM	(78.02 - 85.25)	(81.13 - 81.15)	MP 0,1
				GAPNGASPAT01	X	XM	(78.02 - 85.25)	(83.19 - 83.25)	MP 7-13
				GAPNGASPAT01	X	XM	(78.02 - 85.25)	(84.71 - 84.77)	MP 16-19
N10107339890.2	1073398.90	1073399.89	( 91, 0)	GANNPCTCAL01	PCT	LM	(98.90 - 99.89)		Chopper 63 Hz
N10107340190.2	1073401.90	1073402.89	( 91, 0)	GANNPCTCAL01	PCT	LM	(01.90 - 02.89)		Chopper Ref
N10107379290.2	1073792.90	1073793.89	( 91, 0)	GANNRCTCAL01	RCT	LM	(92.90 - 93.89)		Chopper Ref
N10107379600.2	1073796.00	1073796.89	( 90, 0)	GANNRCTCAL01	RCT	LM	(96.00 - 96.89)		Chopper 63 Hz