

COLOSSUS 3
COAST AND ALIGN

1.	77777		51.	+4	101.	TIME2	24	151.	MGC	2763
2.	77340		52.	+5	102.	TIME1		152.	+1	
3.	RN	1027	53.	+6	103.	R-OTHER	1717	153.	FLAGWRD10	106
4.	+1		54.		104.	+1		154.	11	
5.	+2		55.	HAPOX	2342	105.	+2	155.	TEVENT	1021
6.	+3		56.	+1		106.	+3	156.	+1	
7.	+4		57.	HPERX	2344	107.	+4	157.	LAUNCHAZ	2633
8.	+5		58.	+1		108.	+5	158.	+1	
9.	VN	1035	59.	PACTOFF	3023	109.	V-OTHER	1725	159.	OPTMODES
10.	+1		60.	YACTOFF		110.	+1	160.	HOLDFLAG	
11.	+2		61.	VGITIG	3720	111.	+2	161.	LEMMASS	3072
12.	+3		62.	+1		112.	+3	162.	CSMMASS	
13.	+4		63.	+2		113.	+4	163.	DAPDATR1	3065
14.	+5		64.	+3		114.	+5	164.	DAPDATR2	
15.	PIPTIME	1043	65.	+4		115.	T-OTHER	1642	165.	ERRORX
16.	+1		66.	+5		116.	+1	166.	ERRORY	3167
17.	CDUX	32	67.	REFSMMAT	1733	117.	CDUX	32	167.	ERRORZ
18.	CDUY		68.	+1		118.	CDUY		168.	
19.	CDUZ		69.	+2		119.	CDUZ		169.	WBODY
20.	CDUT		70.	+3		120.	CDUT		170.	+1
21.	ADOT	3133	71.	+4		121.	ADOT	3133	171.	+2
22.	+1		72.	+5		122.	+1		172.	+3
23.	+2		73.	+6		123.	+2		173.	+4
24.	+3		74.	+7		124.	+3		174.	+5
25.	+4		75.	+8		125.	+4		175.	REDOCTR
26.	+5		76.	+9		126.	+5		176.	THETAD
27.	AK	3076	77.	+10		127.	OPTION1	775	177.	+1
28.	AK1		78.	+11		128.	OPTION2		178.	+2
29.	AK2		79.	FLAGWRD0	74	129.	TET	1516	179.	IMODES30
30.	RCSFLAGS	3101	80.	1		130.	+1		180.	IMODES33
31.	THETADX	3172	81.	2		131.	THETADX	3172	181.	CHANNEL
32.	THETADY		82.	3		132.	THETADY		182.	12
33.	THETADZ		83.	4		133.	THETADZ		183.	13
34.			84.	5		134.			184.	14
35.	TIG	3412	85.	6		135.	RSBBQ	1432	185.	30
36.	+1		86.	7		136.	+1		186.	31
37.	BESTI	302	87.	8		137.	CHAN76		187.	32
38.	BESTJ		88.	9		138.	CHAN77		188.	33
39.	MARKDOWN	3674	89.	DSPTAB	1226	139.	C31FLWRD	374	189.	DSPTAB
40.	+1		90.	+1		140.	FAILREG	375	190.	+1
41.	+2		91.	+2		141.	+1		191.	+2
42.	+3		92.	+3		142.	+2		192.	+3
43.	+4		93.	+4		143.	CDUS	36	193.	+4
44.	+5		94.	+5		144.	PIPAX		194.	+5
45.	+6		95.	+6		145.	PIPAY	40	195.	+6
46.			96.	+7		146.	PIPAZ		196.	+7
47.	MARK2DWN	3460	97.	+8		147.	OGC	2757	197.	+8
48.	+1		98.	+9		148.	+1		198.	+9
49.	+2		99.	+10		149.	IGC	2761	199.	+10
50.	+3		100.	+11		150.	+1		200.	+11

COLOSSUS 3
ENTRY AND UPDATE

1.	77776		51.	+10	101.	TIME2	24	151.	+10		
2.	77340		52.	+11	102.	TIME1		152.	+11		
3.	RN	1027	53.	+12	103.	PIPTIME1	1104	153.	+12		
4.	+1		54.	+13	104.	+1		154.	+13		
5.	+2		55.	+14	105.	DELV	1314	155.	+14		
6.	+3		56.	+15	106.	+1		156.	+15		
7.	+4		57.	+16	107.	+2		157.	+16		
8.	+5		58.	+17	108.	+3		158.	+17		
9.	VN	1035	59.	+18	109.	+4		159.	+18		
10.	+1		60.	+19	110.	+5		160.	+19		
11.	+2		61.	COMPNUMB	300	111.	TTE	3726	161.	LEMMASS	3072
12.	+3		62.	UPOLDMOD		112.	+1		162.	CSMMASS	
13.	+4		63.	UPVERB		113.	V10	3724	163.	DAPDATR1	3065
14.	+5		64.	UPCOUNT		114.	+1		164.	DAPDATR2	
15.	PIPTIME	1043	65.	PAXERR1	3313	115.	VPRED	3756	165.	ROLLTM	3314
16.	+1		66.	ROLLTM		116.	+1		166.	ROLLC	
17.	CDUX	32	67.	LATANG	3675	117.	CDUX	32	167.	OPTMODES	1337
18.	CDUY		68.	+1		118.	CDUY		168.	HOLDFLAG	
19.	CDUZ		69.	RDOT	3677	119.	CDUZ		169.	WBODY	3125
20.	CDUT		70.	+1		120.	CDUT		170.	+1	
21.	ADOT	3133	71.	THETAH	3701	121.	ADOT	3133	171.	+2	
22.	+1		72.	+1		122.	+1		172.	+3	
23.	+2		73.	LAT(SPL)	3400	123.	+2		173.	+4	
24.	+3		74.	+1		124.	+3		174.	+5	
25.	+4		75.	LNG(SPL)		125.	+4		175.	REDOCTR	1306
26.	+5		76.	+1		126.	+5		176.	THETAH	
27.	AK	3076	77.	ALFA/180	3265	127.	OPTION1	775	177.	+1	
28.	AK1		78.	BETA/180		128.	OPTION2		178.	+2	
29.	AK2		79.	FLAGWRDO	74	129.	TET	1516	179.	IMODES30	1333
30.	RCSFLAGS	3101	80.	1		130.	+1		180.	IMODES33	
31.	THETAHX	3172	81.	2		131.	ERRORX	3167	181.	CHANNEL	11
32.	THETADY		82.	3		132.	ERRORY		182.		12
33.	THETAHZ		83.	4		133.	ERRORZ		183.		13
34.			84.	5		134.	THETAHX		184.		14
35.	CMDAPMOD	3300	85.	6		135.	THETADY		185.		30
36.	PREL		86.	7		136.	THETAHZ		186.		31
37.	QREL		87.	8		137.	CMDAPMOD	3300	187.		32
38.	RREL		88.	9		138.	PREL		188.		33
39.	L/DI	3635	89.	DSPTAB	1226	139.	QREL		189.	RSBBQ	1432
40.	+1		90.	+1		140.	RREL		190.	+1	
41.	UPBUFF	304	91.	+2		141.	UPBUFF	304	191.	CHANNEL	76
42.	+1		92.	+3		142.	+1		192.	CHANNEL	77
43.	+2		93.	+4		143.	+2		193.	C3LFLWRD	374
44.	+3		94.	+5		144.	+3		194.	FAILREG	
45.	+4		95.	+6		145.	+4		195.	+1	
46.	+5		96.	+7		146.	+5		196.	+2	
47.	+6		97.	+8		147.	+6		197.	FLAGWRD10	
48.	+7		98.	+9		148.	+7		198.	11	
49.	+8		99.	+10		149.	+8		199.	GAMMAEI	3760
50.	+9		100.	+11		150.	+9		200.	+1	

COLOSSUS 3
RENDEZVOUS AND PRETHRUST

1.	77775		51.	+4	101.	TIME2	24	151.		
2.	77340		52.	+5	102.	TIME1		152.		
3.	RN	1207	53.	+6	103.	R-OTHER	1717	153.	DELVEET3	3645
4.	+1		54.	RM	104.	+1		154.	+1	
5.	+2		55.	VHFCNT	771	+2		155.	+2	
6.	+3		56.	TRKMKCNT		+3		156.	+3	
7.	+4		57.	TTPI	3662	+4		157.	+4	
8.	+5		58.	+1		+5		158.	+5	
9.	VN	1035	59.	ECSTEER	3424	V-OTHER	1725	159.	OPTMODES	1337
10.	+1		60.	+1		+1		160.	HOLDFLAG	
11.	+2		61.	DELVTPF	2636	+2		161.	LEMMASS	3072
12.	+3		62.	+1		+3		162.	CSMASS	
13.	+4		63.	TCDH	2460	+4		163.	DAPDATR1	3065
14.	+5		64.	+1		+5		164.	DAPDATR2	
15.	PIPTIME	1043	65.	TCSI	2462	T-OTHER	1642	165.	ERRORX	3167
16.	+1		66.	+1		+1		166.	ERRORY	
17.	CDUX	32	67.	TPASS4	3655	CDUX	32	167.	ERRORZ	
18.	CDUY		68.	+1		CDUY		168.		
19.	CDUZ		69.	DELVSLV	3404	CDUZ		169.	WBODY	3125
20.	CDUT		70.	+1		CDUT		170.	+1	
21.	ADOT	3133	71.	+2		ADOT	3133	171.	+2	
22.	+1		72.	+3		+1		172.	+3	
23.	+2		73.	+4		+2		173.	+4	
24.	+3		74.	+5		+3		174.	+5	
25.	+4		75.	RANGE	2311	+4		175.	REDOCTR	1306
26.	+5		76.	+1		+5		176.	THETAD	
27.	AK	3076	77.	RRATE	2313	OPTION1	775	177.	+1	
28.	AK1		78.	+1		OPTION2		178.	+2	
29.	AK2		79.	FLAGWRDO	74	TET	1516	179.	IMODES30	1333
30.	RCSFLAGS	3101	80.	1		+1		180.	IMODES33	
31.	THETADX	3172	81.	2		THETADX	3172	181.	CHANNEL	11
32.	THETADY		82.	3		THETADY		182.	12	
33.	THETADZ		83.	4		THETADZ		183.	13	
34.			84.	5				184.	14	
35.	TIG	3412	85.	6		RSBBQ	1432	185.	30	
36.	+1		86.	7		+1		186.	31	
37.	DELLT4	3422	87.	8		CHAN76		187.	32	
38.	+1		88.	9		CHAN77		188.	33	
39.	RTARG	3414	89.	DSPTAB	1226	C31FLWRD	374	189.	RTHETA	2315
40.	+1		90.	+1		FAILREG		190.	+1	
41.	+2		91.	+2		+1		191.	LAT(SPL)	3400
42.	+3		92.	+3		+2		192.	+1	
43.	+4		93.	+4		CDUS	36	193.	LNG(SPL)	
44.	+5		94.	+5		PIPAX		194.	+1	
45.	VHFTIME	1007	95.	+6		PIPAY	40	195.	VPRED	3756
46.	+1		96.	+7		PIPAZ		196.	+1	
47.	MARKDOWN	3674	97.	+8		DIFFALT	2632	197.	GAMMAEI	3760
48.	+1		98.	+9		+1		198.	+1	
49.	+2		99.	+10		CENTANG	3753	199.	FLAGWRD10	
	+3		100.	+11		+1		200.	11	

COLOSSUS 3
POWERED FLIGHT

1.	77774		51.	+2		101.	TIME2	24	151.		
2.	77340		52.	+3		102.	TIMEL		152.		
3.	RN	1027	53.	+4		103.	R-OTHER	1717	153.	FLAGWRD10	106
4.	+1		54.	+5		104.	+1		154.	11	
5.	+2		55.	PACTOFF	3023	105.	+2		155.	TEVENT	1021
6.	+3		56.	YACTOFF		106.	+3		156.	+1	
7.	+4		57.	PCMD	3223	107.	+4		157.	PCMD	3223
8.	+5		58.	YCMD		108.	+5		158.	YCMD	
9.	VN	1035	59.	CSTEER	3702	109.	V-OTHER	1725	159.	OPTMODES	1337
10.	+1		60.	+1		110.	+1		160.	HOLDFLAG	
11.	+2		61.	DELVEET1	2444	111.	+2		161.	LEMMASS	3072
12.	+3		62.	+1		112.	+3		162.	CSMMASS	
13.	+4		63.	+2		113.	+4		163.	DAPDATR1	3065
14.	+5		64.	+3		114.	+5		164.	DAPDATR2	
15.	PIPTIME	1043	65.	+4		115.	T-OTHER	1642	165.	ERRORX	3167
16.	+1		66.	+5		116.	+1		166.	ERRORY	
17.	CDUX	32	67.	REFSMMAT	1733	117.	CDUX	32	167.	ERRORZ	
18.	CDUY		68.	+1		118.	CDUY		168.		
19.	CDUZ		69.	+2		119.	CDUZ		169.	WBODY	3125
20.	CDUT		70.	+3		120.	CDUT		170.	+1	
21.	ADOT	3133	71.	+4		121.	ADOT	3133	171.	+2	
22.	+1		72.	+5		122.	+1		172.	+3	
23.	+2		73.	+6		123.	+2		173.	+4	
24.	+3		74.	+7		124.	+3		174.	+5	
25.	+4		75.	+8		125.	+4		175.	REDOCTR	1306
26.	+5		76.	+9		126.	+5		176.	THETAD	
27.	AK	3076	77.	+10		127.	AK	3076	177.	+1	
28.	1		78.	+11		128.	1		178.	+2	
29.	2		79.	FLAGWRDO	74	129.	2		179.	IMODES30	1333
30.	RCSFLAGS	3101	80.	1		130.	RCSFLAGS	3101	180.	IMODES33	
31.	THETADX	3172	81.	2		131.	THETADX	3172	181.	CHANNEL	11
32.	THETADY		82.	3		132.	THETADY		182.	12	
33.	THETADZ		83.	4		133.	THETADZ		183.	13	
34.			84.	5		134.			184.	14	
35.	TIG	3412	85.	6		135.	RSBBQ	1432	185.	30	
36.	+1		86.	7		136.	+1		186.	31	
37.	DELLT4	3422	87.	8		137.	CHAN76		187.	32	
38.	+1		88.	9		138.	CHAN77		188.	33	
39.	RTARG	3414	89.	DSPTAB	1226	139.	C31FLWRD	374	189.	VGTIG	3720
40.	+1		90.	+1		140.	FAILREG		190.	+1	
41.	+2		91.	+2		141.	+1		191.	+2	
42.	+3		92.	+3		142.	+2		192.	+3	
43.	+4		93.	+4		143.	CDUS	36	193.	+4	
44.	+5		94.	+5		144.	PIPAX		194.	+5	
45.	TGO	3427	95.	+6		145.	PIPAY	40	195.	DELVEET2	3666
46.	+1		96.	+7		146.	PIPAZ		196.	+1	
47.	PIPTIME1	1104	97.	+8		147.	ELEV	3743	197.	+2	
48.	+1		98.	+9		148.	+1		198.	+3	
49.	DELV	1314	99.	+10		149.	CENTANG	3753	199.	+4	
50.	+1		100.	+11		150.	+1		200.	+5	

COLOSSUS 3

P22

1.	77773		51.	+16	101.	TIME2	24	151.	RLS	2025	
2.	77340		52.	+17	102.	TIME1		152.	+1		
3.	RN	1027	53.	+18	103.	LAT	746	153.	+2		
4.	+1		54.	+19	104.	+1		154.	+3		
5.	+2		55.	+20	105.	LONG	750	155.	+4		
6.	+3		56.	+21	106.	+1		156.	+5		
7.	+4		57.	+22	107.	ALT		157.			
8.	+5		58.	+23	108.	+1		158.			
9.	VN	1035	59.	+24	109.			159.	OPTMODES	1337	
10.	+1		60.	+25	110.			160.	HOLDFLAG		
11.	+2		61.	+26	111.			161.	LEMMASS	3072	
12.	+3		62.	+27	112.			162.	CSMMASS		
13.	+4		63.	+28	113.			163.	DAPDATR1	3065	
14.	+5		64.	+29	114.			164.	DAPDATR2		
15.	PIPTIME	1043	65.	+30	115.			165.	ERRORX	3167	
16.	+1		66.	+31	116.			166.	ERRORY		
17.	CDUX	32	67.	+32	117.	CDUX	32	167.	ERRORZ		
18.	CDUY		68.	+33	118.	CDUY		168.			
19.	CDUZ		69.	+34	119.	CDUZ		169.	WBODY	3125	
20.	CDUT		70.	+35	120.	CDUT		170.	+1		
21.	ADOT	3133	71.	LANDMARK	3751	121.	ADOT	3133	+2		
22.	+1		72.			122.	+1	172.	+3		
23.	+2		73.			123.	+2	173.	+4		
24.	+3		74.			124.	+3	174.	+5		
25.	+4		75.			125.	+4	175.	REDOCTR	1306	
26.	+5		76.			126.	+5	176.	THETAD		
27.	AK	3076	77.			127.	OPTION1	775	+1		
28.	AK1		78.			128.	OPTION2		+2		
29.	AK2		79.	FLAGWRDO	74	129.	TET	1516	179.	IMODES30	1333
30.	RCSFLAGS	3101	80.	1		130.	+1		180.	IMODES33	
31.	THETADX	3172	81.	2		131.	THETADX	3172	181.	CHANNEL	11
32.	THETADY		82.	3		132.	THETADY		182.		12
33.	THETADZ		83.	4		133.	THETADZ		183.		13
34.			84.	5		134.			184.		14
35.	SVMRKDAT	3537	85.	6		135.	RSBBQ	1432	185.		30
36.	+1		86.	7		136.	+1		186.		31
37.	+2		87.	8		137.	CHAN76		187.		32
38.	+3		88.	9		138.	CHAN77		188.		33
39.	+4		89.	DSPTAB	1226	139.	C31FLWRD	374	189.		
40.	+5		90.	+1		140.	FAILREG		190.		
41.	+6		91.	+2		141.	+1		191.		
42.	+7		92.	+3		142.	+2		192.		
43.	+8		93.	+4		143.	CDUS	36	193.		
44.	+9		94.	+5		144.	PIPAX		194.		
45.	+10		95.	+6		145.	PIPAY	40	195.		
46.	+11		96.	+7		146.	PIPAZ		196.		
47.	+12		97.	+8		147.	8NN	3747	197.		
48.	+13		98.	+9		148.			198.		
49.	+14		99.	+10		149.	FLAGWRD10	106	199.		
50.	+15		100.	+11		150.	11		200.		

LUMINARY LE
COAST AND ALIGN

RECEIVED

MAR 8 10 1

GEORGE SILVER

1.	77777		51.	DNLRVELZ	1335	101.	TIME2	151	TET	1516
	77340		52.	DNLRALT		102.	TIME1	152.	+1	
3.	R-OTHER	1715	53.	VGTIG	3700	103.	RN	1217	153.	CDUS 0036
4.	+1		54.	+1		104.	+1		154.	PIPAX
5.	+2		55.	+2		105.	+2		155.	PIPAY
6.	+3		56.	+3		106.	+3		156.	PIPAZ
7.	+4		57.	+4		107.	+4		157.	LASTYCMD 0112
8.	+5		58.	+5		108.	+5		158.	LASTXCMD
9.	V-OTHER	1723	59.	REDOCTR	0320	109.	VN	1225	159.	LEMMASS 1326
10.	+1		60.	THETAD		110.	+1		160.	CSMMASS
11.	+2		61.	+1		111.	+2		161.	IMODES30 1277
12.	+3		62.	+2		112.	+3		162.	IMODES33
13.	+4		63.	RSBBQ	1432	113.	+4		163.	TIG 3441
14.	+5		64.	+1		114.	+5		164.	+1
15.	T-OTHER	1570	65.	OMEGAP	3021	115.	PIPTIME	1233	165.	OMEGAP 3021
16.	+1		66.	OMEGAQ		116.	+1		166.	OMEGAQ
17.	AGSK	3371	67.	OMEGAR		117.	OMEGAPD	3242	167.	OMEGAR
18.	+1		68.			118.	OMEGAQD		168.	
19.	TALIGN	2774	69.	CDUXD	3234	119.	OMEGARD		169.	CDUXD 3234
20.	+1		70.	CDUYD		120.			170.	CDUYD
21.	POSTORKU	3115	71.	CDUZD		121.	CHANNEL 76		171.	CDUZD
22.	NEGORKU		72.			122.	CHANNEL 77		172.	
23.	POSTORKV		73.	CDUX	0032	123.	CHANBKUP	0374	173.	CDUX 0032
24.	NEGORKV		74.	CDUY		124.	FAILREG	0375	174.	CDUY
25.	DNRRANGE	1330	75.	CDUZ		125.	+1		175.	CDUZ
26.	DNRDOT		76.	CDUT		126.	+2		176.	CDUT
	TEVENT	1341	77.	FLAGWRDO	0074	127.	RADMODES	0110	177.	CH5MASK 1257
28.	+1		78.			128.	DAPBOOLS		178.	CH6MASK
29.	REFSMMAT	1731	79.			129.	OGC	2737	179.	POSTORKP 3113
30.	+1		80.			130.	+1		180.	NEGORKP
31.	+2		81.			131.	IGC	2741	181.	CHANNEL 11
32.	+3		82.			132.	+1		182.	12
33.	+4		83.			133.	MGC	2743	183.	13
34.	+5		84.			134.	+1		184.	14
35.	+6		85.			135.	BESTI	2755	185.	30
36.	+7		86.			136.	BESTJ		186.	31
37.	+8		87.			137.	STARSAV1	2760	187.	32
38.	+9		88.			138.	+1		188.	33
39.	+10		89.	DSPTAB	1022	139.	+2		189.	DSPTAB 1022
40.	+11		90.	+1		140.	+3		190.	+1
41.	AOTCODE	1235	91.	+2		141.	+4		191.	+2
42.	XCOUNT		92.	+3		142.	+5		192.	+3
43.	RLS	2020	93.	+4		143.	STARSAV2	2766	193.	+4
44.	+1		94.	+5		144.	+1		194.	+5
45.	+2		95.	+6		145.	+2		195.	+6
46.	+3		96.	+7		146.	+3		196.	+7
47.	+4		97.	+8		147.	+4		197.	+8
48.	+5		98.	+9		148.	+5		198.	+9
49.	DNLRVELX	1333	99.	+10		149.	SERVDURN	1355	199.	+10
50.	DNLRVELY		100.	+11		150.	DUMLOOPS		200.	+11

LUMINARY 1E
AGS INITIALIZATION AND UPDATE

1	77776		51.	+12	101.	TIME2	0024	151.	+12		
	77340		52.	+13	102.	TIME1		152.	+13		
3.	AGSBUFF	2171	53.	+14	103.	RN	1217	153.	+14		
4.	+1		54.	+15	104.	+1		154.	+15		
5.	+2		55.	+16	105.	+2		155.	+16		
6.	+3		56.	+17	106.	+3		156.	+17		
7.	+4		57.	+18	107.	+4		157.	+18		
8.	+5		58.	+19	108.	+5		158.	+19		
9.	AGSBUFF+12		59.	REDOCTR	0320	109.	VN	1225	159.	LEMMASS	1326
10.	+13		60.	THETAD		110.	+1		160.	CSMMASS	
11.	AGSBUFF+1		61.	+1		111.	+2		161.	IMODES30	1277
12.	+2		62.	+2		112.	+3		162.	IMODES33	
13.	+3		63.	RSBBQ	1432	113.	+4		163.		
14.	+4		64.	+1		114.	+5		164.		
15.	+5		65.	OMEGAP	3021	115.	PIPTIME	1233	165.	OMEGAP	3021
16.	+6		66.	OMEGAQ		116.	+1		166.	OMEGAQ	
17.	AGSBUFF+13		67.	OMEGAR		117.	OMEGAPD	3242	167.	OMEGAR	
18.			68.			118.	OMEGAQD		168.		
19.	AGSBUFF+6		69.	CDUXD	3234	119.	OMEGARD		169.	CDUXD	3234
20.	+7		70.	CDUYD		120.			170.	CDUYD	
21.	+8		71.	CDUZD		121.	CHANNEL76		171.	CDUZD	
22.	+9		72.			122.	CHANNEL77		172.		
23.	+10		73.	CDUX	0032	123.	CHANBKUP	0374	173.	CDUX	0032
24.	+11		74.	CDUY		124.	FAILREG	0375	174.	CDUY	
25.	AGSBUFF+12		75.	CDUZ		125.	+1		175.	CDUZ	
26.	+13		76.	CDUT		126.	+2		176.	CDUT	
27.	AGSBUFF+7		77.	FLAGWRDO	0074	127.	RADMODES	0110	177.	ALPHAQ	3024
28.	+8		78.	1		128.	DAPBOOLS		178.	ALPHAR	
29.	+9		79.	2		129.	POSTORKU	3115	179.	POSTORKP	3113
30.	+10		80.	3		130.	NEGTORKU		180.	NEGTORKP	
31.	+11		81.	4		131.	POSTORKV		181.	CHANNEL	11
32.	+12		82.	5		132.	NEGTORKV		182.		12
33.	AGSBUFF+13		83.	6		133.	SERVDURN	1355	183.		13
34.			84.	7		134.	DUMLOOPS		184.		14
35.	COMPNUMB	1167	85.	8		135.	ALMCADR		185.		30
36.	UPOLDMOD		86.	9		136.	+1		186.		31
37.	UPVERB	1171	87.	10		137.	AGSK	3371	187.		32
38.	UPCOUNT		88.	11		138.	+1		188.		33
39.	UPBUFF	1173	89.	DSPTAB	1022	139.	UPBUFF	1173	189.	DSPTAB	1022
40.	+1		90.	+1		140.	+1		190.	+1	
41.	+2		91.	+2		141.	+2		191.	+2	
42.	+3		92.	+3		142.	+3		192.	+3	
43.	+4		93.	+4		143.	+4		193.	+4	
44.	+5		94.	+5		144.	+5		194.	+5	
45.	+6		95.	+6		145.	+6		195.	+6	
46.	+7		96.	+7		146.	+7		196.	+7	
47.	+8		97.	+8		147.	+8		197.	+8	
48.	+9		98.	+9		148.	+9		198.	+9	
49.	+10		99.	+10		149.	+10		199.	+10	
50.	+11		100.	+11		150.	+11		200.	+11	

LUMINARY LE
RENDEZVOUS AND PRE-THRUST

1.	77775		51.	TPASS4	3630	101.	TIME2	0024	151.	ELEV	2247
2.	77340		52.	+1		102.	TIME1		152.	+1	
3.	R-OTHER	1715	53.	X789	1700	103.	RN	1217	153.	CDUS	0036
4.	+1		54.	+1		104.	+1		154.	PIPAX	
5.	+2		55.	+2		105.	+2		155.	PIPAY	0040
6.	+3		56.	+3		106.	+3		156.	PIPAZ	
7.	+4		57.	LASTYCMD	0112	107.	+4		157.	LASTYCMD	0112
8.	+5		58.	LASTXCMD		108.	+5		158.	LASTXCMD	
9.	V-OTHER	1723	59.	REDOCTR	0320	109.	VN	1225	159.	LEMMASS	1326
10.	+1		60.	THETAD		110.	+1		160.	CSMMASS	
11.	+2		61.	+1		111.	+2		161.	IMODES30	1277
12.	+3		62.	+2		112.	+3		162.	IMODES33	
13.	+4		63.	RSBBQ	1432	113.	+4		163.	TIG	3441
14.	+5		64.	+1		114.	+5		164.	+1	
15.	T-OTHER	1570	65.	OMEGAP	3021	115.	PIPTIME	1233	165.	OMEGAP	3021
16.	+1		66.	OMEGAQ		116.	+1		166.	OMEGAQ	
17.	MKTIME	3754	67.	OMEGAR		117.	OMEGAPD	3242	167.	OMEGAR	
18.	+1		68.			118.	OMEGAQD		168.		
19.	AIG	3457	69.	CDUXD	3234	119.	OMEGARD		169.	CDUXD	3234
20.	AMG		70.	CDUYD		120.			170.	CDUYD	
21.	AOG	3461	71.	CDUZD		121.	CHANNEL 76		171.	CDUZD	
22.	TRKMKCNT		72.			122.	CHANNEL 77		172.		
23.	TANGNB	3752	73.	CDUX	0032	123.	CHANBKUP	0374	173.	CDUX	0032
24.			74.	CDUY		124.	FAILREG	0375	174.	CDUY	
25.	TANGNB+1	3753	75.	CDUZ		125.	+1		175.	CDUZ	
26.			76.	CDUT		126.	+2		176.	CDUT	
27.	RANGRDOT	3760	77.	FLAGWRDO	0074	127.	RADMODES	0110	177.	CH5MASK	1257
28.			78.	1		128.	DAPBOOLS		178.	CH6MASK	
29.	RANGRDOT+1	3761	79.	2		129.	POSTORKU	3115	179.	POSTORKP	3113
30.			80.	3		130.	NEGTORKU		180.	NEGTORKP	
31.	AGSCODE	1073	81.	4		131.	POSTORKV		181.	CHANNEL	11
32.			82.	5		132.	NEGTORKV		182.		12
33.	DELLT4	3451	83.	6		133.	ALMCADR	1363	183.		13
34.	+1		84.	7		134.	+1		184.		14
35.	DELVSLV	3433	85.	8		135.	TCDH	1774	185.		30
36.	+1		86.	9		136.	+1		186.		31
37.	+2		87.	10		137.	DELVEET2	2265	187.		32
38.	+3		88.	11		138.	+1		188.		33
39.	+4		89.	DSPTAB	1022	139.	+2		189.	TET	1516
40.	+5		90.	+1		140.	+3		190.	+1	
41.	TCSI	3633	91.	+2		141.	+4		191.	CENIANG	3620
42.	+1		92.	+3		142.	+5		192.	+1	
43.	DELVEET1	2257	93.	+4		143.	TUPI	3635	193.	NN	3466
44.	+1		94.	+5		144.	+1		194.	+1	
45.	+2		95.	+6		145.	DELVEET3	2356	195.	DIFFALT	3577
46.	+3		96.	+7		146.	+1		196.	+1	
47.	+4		97.	+8		147.	+2		197.	DELVTPF	2340
48.	+5		98.	+9		148.	+3		198.	+1	
49.	SERVDURN	1355	99.	+10		149.	+4		199.		
50.	DUMLOOPS		100.	+11		150.	+5		200.		

LUMINARY 1E
ORBITAL MANEUVERS

1.	77774		51.	+2		101.	TIME2	0024	151.	DNRRANGE	1330
2.	77340		52.	+3		102.	TIME1		152.	DNRRDOT	
3.	R-OTHER	1715	53.	+4		103.	RN	1217	153.	DNLRVELX	1333
4.	+1		54.	+5		104.	+1		154.	DNLRVELY	
5.	+2		55.	DNLRVELZ	1335	105.	+2		155.	DNLRVELZ	1335
6.	+3		56.	DNLRALT		106.	+3		156.	DNLRALT	
7.	+4		57.	TPASS4	3630	107.	+4		157.	DIFFALT	3577
8.	+5		58.	+1		108.	+5		158.	+1	
9.	V-OTHER	1723	59.	REDOCTR	0320	109.	VN	1225	159.	LEMMASS	1326
0.	+1		60.	THETAD		110.	+1		160.	CSMMASS	
1.	+2		61.	+1		111.	+2		161.	IMODES30	1277
2.	+3		62.	+2		112.	+3		162.	IMODES33	
3.	+4		63.	RSBBQ	1432	113.	+4		163.	TIG	3441
4.	+5		64.	+1		114.	+5		164.	+1	
5.	T-OTHER	1570	65.	OMEGAP	3021	115.	PIPTIME	1233	165.	OMEGAP	3021
6.	+1		66.	OMEGAQ		116.	+1		166.	OMEGAQ	
7.	DELVT4	3451	67.	OMEGAR		117.	OMEGAPD	3242	167.	OMEGAR	
8.	+1		68.			118.	OMEGAQD		168.		
9.	RTARG	3443	69.	CDUXD	3234	119.	OMEGARD		169.	CDUXD	3234
0.	+1		70.	CDUYD		120.			170.	CDUYD	
1.	+2		71.	CDUZD		121.	CHANNEL 76		171.	CDUZD	
2.	+3		72.			122.	CHANNEL 77		172.		
3.	+4		73.	CDUX	0032	123.	CHANGKUP	0374	173.	CDUX	0032
4.	+5		74.	CDUY		124.	FAILREG	0375	174.	CDUY	
5.	ELEV	2247	75.	CDUZ		125.	+1		175.	CDUZ	
6.	+1		76.	CDUT		126.	+2		176.	CDUT	
7.	DEVENT	1341	77.	FLAGWRDO	0074	127.	RADMODES	0110	177.	ALPHAQ	3024
8.	+1		78.	1		128.	DAPBOOLS		178.	ALPHAR	
9.	REFSMAT	1731	79.	2		129.	POSTORKU	3115	179.	POSTORKP	3113
0.	+1		80.	3		130.	NEGTOBKU		180.	NEGTOBKP	
1.	+2		81.	4		131.	POSTORKV		181.	CHANNEL 11	
2.	+3		82.	5		132.	NEGTOBKV		182.	12	
3.	+4		83.	6		133.	SERVDURN	1355	183.	13	
4.	+5		84.	7		134.	DUMLOOPS		184.	14	
5.	+6		85.	8		135.	TCDH	1774	185.	30	
6.	+7		86.	9		136.	+1		186.	31	
7.	+8		87.	10		137.	DELVEET2	2265	187.	32	
8.	+9		88.	11		138.	+1		188.	33	
9.	+10		89.	DSPTAB	1022	139.	+2		189.	PIPTIME1	3560
0.	+11		90.	+1		140.	+3		190.	+1	
1.	TCSI	3633	91.	+2		141.	+4		191.	DELV	0324
2.	+1		92.	+3		142.	+5		192.	+1	
3.	DELVEET1	2257	93.	+4		143.	TUPI	3635	193.	+2	
4.	+1		94.	+5		144.	+1		194.	+3	
5.	+2		95.	+6		145.	DELVEET3	2356	195.	+4	
6.	+3		96.	+7		146.	+1		196.	+5	
7.	+4		97.	+8		147.	+2		197.	ALMCADR	1363
8.	+5		98.	+9		148.	+3		198.	+1	
9.	VGTIG	3700	99.	+10		149.	+4		199.	TGO	3516
0.	+1		100.	+11		150.	+5		200.	+1	

LUMINARY 1 E
DESCENT AND ASCENT

1.	77773		51.	ZDOTD	2267	101.	TIME2	0024	151.	AT	2253
2.	77340		52.	+1		102.	TIMEL		152.	+1	
3.	ALMCADR	1363	53.	X789	1700	103.	RN	1217	153.	TLAND	2026
4.	+1		54.	+1		104.	+1		154.	+1	
5.	TRUDELH	3736	55.	+2		105.	+2		155.	DVTOTAL	3507
6.	+1		56.	+3		106.	+3		156.	+1	
7.	DELTAH	3664	57.	LASTYCMD	0112	107.	+4		157.	LASTYCMD	0112
8.	+1		58.	LASTXCMD		108.	+5		158.	LASTXCMD	
9.	FC	3615	59.	REDOCTR	0320	109.	VN	1225	159.	LEMMASS	1326
0.			60.	THETAD		110.	+1		160.	CSMMASS	
1.	GTCTIME	3752	61.	+1		111.	+2		161.	IMODES30	1277
2.	+1		62.	+2		112.	+3		162.	IMODES33	
3.	MKTIME	3754	63.	RSBBQ	1432	113.	+4		163.	TIG	3441
4.	+1		64.	+1		114.	+5		164.	+1	
5.	HMEASDL	3776	65.	OMEGAP	3021	115.	PIPTIME	1233	165.	OMEGAP	3021
6.	+1		66.	OMEGAQ		116.	+1		166.	OMEGAQ	
7.	VMEAS	3652	67.	OMEGAR		117.	OMEGAPD	3242	167.	OMEGAR	
8.	+1		68.			118.	OMEGAQD		168.		
9.	AIG	3457	69.	CDUXD	3234	119.	OMEGARD		169.	CDUXD	3234
0.	AMG		70.	CDUYD		120.			170.	CDUYD	
1.	AOG	3461	71.	CDUZD		121.	CHANNEL 76		171.	CDUZD	
2.	VSELECT		72.			122.	CHANNEL 77		172.		
3.	LATVMEIR	3732	73.	CDUX	0032	123.	CHANBKUP	0374	173.	CDUX	0032
4.	FORVMEIR		74.	CDUY		124.	FAILREG	0375	174.	CDUY	
5.	SERVDURN	1355	75.	CDUZ		125.	+1		175.	CDUZ	
6.	DUMLOOPS		76.	CDUT		126.	+2		176.	CDUT	
7.	TEVENT	1341	77.	FLAGWRDO	0074	127.	RADMODES	0110	177.	ALPHQA	3024
8.	+1		78.	1		128.	DAPBOOLS		178.	ALPHAR	
9.	UNFC/2	3251	79.	2		129.	POSTORKU	3115	179.	POSTORKP	3113
0.	+1		80.	3		130.	NEGTORKU		180.	NEGRORKP	
1.	+2		81.	4		131.	POSTORKV		181.	CHANNEL 11	
2.	+3		82.	5		132.	NEGTORKV		182.	CHANNEL 12	
3.	+4		83.	6		133.	RGU	2623	183.	CHANNEL 13	
4.	+5		84.	7		134.	+1		184.	CHANNEL 14	
5.	VGVECT	3645	85.	8		135.	+2		185.	CHANNEL 30	
6.	+1		86.	9		136.	+3		186.	CHANNEL 31	
7.	+2		87.	10		137.	+4		187.	CHANNEL 32	
8.	+3		88.	11		138.	+5		188.	CHANNEL 33	
9.	+4		89.	DSPTAB	1022	139.	VGU	3626	189.	PIPTIMEL	3560
0.	+5		90.	+1		140.	+1		190.	+1	
1.	TTF/8	3642	91.	+2		141.	+2		191.	DELV	0324
2.	+1		92.	+3		142.	+3		192.	+1	
3.			93.	+4		143.	+4		193.	+2	
4.			94.	+5		144.	+5		194.	+3	
5.	RLS	2020	95.	+6		145.	LAND	3634	195.	+4	
6.	+1		96.	+7		146.	+1		196.	+5	
7.	+2		97.	+8		147.	+2		197.	PSEUDO55	3614
8.	+3		98.	+9		148.	+3		198.		
9.	+4		99.	+10		149.	+4		199.	TTOGO	3453
0.	+5		100.	+11		150.	+5		200.	+1	

LUMINARY 1E
LUNAR SURFACE ALIGN

1.	77772		51.	+4		101.	TIME2	0024	151.	+2	
2.	77340		52.	+5		102.	TIME1		152.	+3	
3.	R-OTHER	1715	53.	X789	1700	103.	RN	1217	153.	+4	
4.	+1		54.	+1		104.	+1		154.	+5	
5.	+2		55.	TET	1516	105.	+2		155.	AGSK	3371
6.	+3		56.	+1		106.	+3		156.	+1	
7.	+4		57.	LASTYCMD	0112	107.	+4		157.	LASTYCMD	0112
8.	+5		58.	LASTXCMD		108.	+5		158.	LASTXCMD	
9.	V-OTHER	1723	59.	REDOCTR	0320	109.	VN	1225	159.	LEMMASS	1326
10.	+1		60.	THETAD		110.	+1		160.	CSMMASS	
11.	+2		61.	+1		111.	+2		161.	IMODES30	1277
12.	+3		62.	+2		112.	+3		162.	IMODES33	
13.	+4		63.	RSBBQ	1432	113.	+4		163.	TIG	3441
14.	+5		64.	+1		114.	+5		164.	+1	
15.	T-OTHER	1570	65.	OMEGAP	3021	115.	PIPTIME	1233	165.	OMEGAP	3021
16.	+1		66.	OMEGAQ		116.	+1		166.	OMEGAQ	
17.	RANGRDOT	3760	67.	OMEGAR		117.	OMEGAPD	3242	167.	OMEGAR	
18.	+1		68.			118.	OMEGAQD		168.		
19.	AIG	3457	69.	CDUXD	3234	119.	OMEGARD		169.	CDUXD	3234
20.	AMG		70.	CDUYD		120.			170.	CDUYD	
21.	AOG	3461	71.	CDUZD		121.	CHANNEL 76		171.	CDUZD	
22.	TRKMKCNT		72.			122.	CHANNEL 77		172.		
23.	TANGNB	3752	73.	CDUX	0032	123.	CHANBKUP	0374	173.	CDUX	0032
24.	+1		74.	CDUY		124.	FAILREG	0375	174.	CDUY	
25.	MKTIME	3754	75.	CUDZ		125.	+1		175.	CUDZ	
26.	+1		76.	CDUT		126.	+2		176.	CDUT	
27.	LALIGN	2774	77.	FLAGWRDO	0074	127.	RADMODES	0110	177.	CH5MASK	1257
28.	+1		78.	1		128.	DAPBOOLS		178.	CH6MASK	
29.	REFSMMAT	1731	79.	2		129.	OGC	2737	179.	AOTCODE	1235
30.	+1		80.	3		130.	+1		180.	XCOUNT	
31.	+2		81.	4		131.	IGC	2741	181.	CHANNEL	11
32.	+3		82.	5		132.	+1		182.		12
33.	+4		83.	6		133.	MGC	2743	183.		13
34.	+5		84.	7		134.	+1		184.		14
35.	+6		85.	8		135.	BESTI	2755	185.		30
36.	+7		86.	9		136.	BESTJ		186.		31
37.	+8		87.	10		137.	STARSAV1	2760	187.		32
38.	+9		88.	11		138.	+1		188.		33
39.	+10		89.	DSPTAB	1022	139.	+2		189.	PIPTIME1	3560
40.	+11		90.	+1		140.	+3		190.	+1	
41.	YNBSAV	2227	91.	+2		141.	+4		191.	DELV	0324
42.	+1		92.	+3		142.	+5		192.	+1	
43.	+2		93.	+4		143.	STARSAV2	2766	193.	+2	
44.	+3		94.	+5		144.	+1		194.	+3	
45.	+4		95.	+6		145.	+2		195.	+4	
46.	+5		96.	+7		146.	+3		196.	+5	
47.	ZNBSAV	2235	97.	+8		147.	+4		197.	TSIGHT	3561
48.	+1		98.	+9		148.	+5		198.	+1	
49.	+2		99.	+10		149.	GSAV	2221	199.	CURSOR	1240
50.	+3		100.	+11		150.	+1		200.	SPIRAL	