

REFERENCE SECTION

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TABLE REF-1 TARGET CLASSES

CLASS	DESCRIPTION
0	Calibration
0.0	HUT Camera Sensitivity Targets
0.1	HUT Spectrometer Focus Targets
0.2	HUT
0.3	UIT Flat Field Sources
0.4	UIT
0.5	WUPPE Aperture Position Calibrators
0.6	WUPPE Unpolarized and Polarized Standards
0.7	Reserved
0.8	Reserved
0.9	Joint Focus and Alignment Targets
1	Solar System Objects
1.1	Comets
1.2	Planets
1.3	Asteroids, etc.
2	Individual Stars
2.1	Supergiants
2.2	O/B and Oe/Be Stars
2.3	Wolf-Rayet Stars
2.4	Rapid Rotators
2.5	Normal White Dwarfs
2.6	Magnetic/Pulsating White Dwarfs
2.7	Planetary Nebula Nuclei
2.8	Normal Stars A0 and Later
2.9	O/B Subdwarfs
3	Variable and Binary Stars
3.1	Pre-Main Sequence Stars
3.2	Cataclysmic Variables
3.3	Interacting Binaries
3.4	Symbiotic Stars
3.5	Active Chromospheres
3.6	Pulsating Variables
3.7	Low Mass X-Ray Binaries
3.8	High Mass X-Ray Binaries
3.9	X-Ray Transients

**TABLE REF-1 (Cont.)  
TARGET CLASSES**

<b>CLASS</b>	<b>DESCRIPTION</b>
4	ISM & Nebulae
4.1	Planetary Nebulae
4.2	Reflection Nebulae
4.3	H II Regions
4.4	Super Nova Remnants
4.5	Interstellar Polarization Probes
4.6	Interstellar Absorption Probes (Nearby and Hot)
4.7	Herbig-Haro Objects
4.8	Dark Clouds
4.9	Diffuse Galactic X-Ray Emission Regions
5	Star Clusters
5.1	Metal Poor Globulars
5.2	Metal Rich Globulars
5.3	Galactic (Open) Clusters
5.4	O/B Associations
6	Normal Galaxies
6.1	Nearby Galaxies
6.2	Spiral Galaxies
6.3	Elliptical Galaxies
6.4	Irregular Galaxies
6.5	Dwarf Galaxies
6.6	Edge on Galaxies
7	Abnormal Galaxies
7.1	Interacting Galaxies
7.2	Amorphous Galaxies
7.3	Rapid Star Formation
7.4	With Circum-Galactic Matter
7.5	E/S0's With Interstellar Matter

**TABLE REF-1 (Cont.)  
TARGET CLASSES**

CLASS	DESCRIPTION
8	Active Extragalactic Objects
8.1	Seyfert I Galaxies
8.2	Seyfert II Galaxies
8.3	Radio Galaxies
8.4	Radio Loud Quasistellar Objects
8.5	Radio Quiet Quasistellar Objects
8.6	BL Lacertae Objects
8.7	LINERs
8.8	Optically Violent Variable (OVV) Quasars
9	Clusters of Galaxies
9.1	Spiral Poor Clusters
9.2	Spiral Rich Clusters
9.3	X-Ray Clusters
9.4	Deep Survey Fields
9.5	Cooling Flow Clusters
9	Spacecraft Specific
9.7	reserved
9.8	Gyros/IMC/IPS
9.9	Waterdumps/Handovers

TABLE REF-2  
TARGET INDEX - ID ORDER

ID	NAME	D/H MET
0001-10	HZ43	01/10.94
0001-11	HZ43	00/21.30
0003-10	G191B2B	01/18.06
0004-10	1034+001	06/18.86
0011-10	BD75D325	06/09.55
0101-11	ALF-AUR	00/17.65
0101-12	ALF-AUR	00/19.18
0301-10	BR-EARTH	00/22.16
0502-10	NGC2070	00/20.40
0608-10	BET-UMA	01/16.79
0608-20	BET-UMA	11/17.79
0656-10	HD161056	01/15.82
0656-20	HD161056	11/16.79
0901-10	BET-CAS	00/13.54
1201-10	VENUS	10/22.96
1201-20	VENUS	11/09.65
1204-11	JUPITER	01/20.24
1204-12	JUPITER	02/07.01
1204-13	JUPITER	05/22.29
1204-21	JUPITER	01/01.92
1204-22	JUPITER	06/10.36
1204-23	JUPITER	06/18.05
1205-10	MARS	10/15.99
1320-20	LUNA	10/02.37
1320-30	LUNA	12/03.32
1320-50	LUNA	14/07.30
2102-10	KAP-CAS	07/03.83
2107-10	ALF-CAM	09/16.94
2109-10	AG-CAR	06/15.97
2121-10	LAM-CEP	03/13.78
2133-10	P-CYG	01/06.73
2133-20	P-CYG	06/14.87
2133-30	P-CYG	10/16.87
2203-10	PHI-PER	01/05.63
2205-10	PSI-PER	05/01.31
2209-10	ZET-TAU	06/06.48
2210-10	HD269810	11/23.40
2217-10	P-CAR	08/05.10
2222-10	48LIB	09/17.52
2223-10	CHI-OPH	08/17.14
2224-10	66OPH	14/01.51
2229-10	59CYG	10/04.42
2231-10	EW-LAC	02/01.14
2236-10	28TAU	06/13.98
2237-10	FR-CMA	06/04.91
2239-10	48PER	08/02.56
2242-10	51OPH	13/14.71
2248-10	AE-AUR	03/08.16
2250-10	NGC346_3	06/21.39
2251-10	SK80	04/09.96
2252-10	HD269698	04/12.89
2253-10	SK-67167	04/05.23
2254-10	SK-66169	13/01.39
2255-10	SK-66172	04/06.70
2256-10	HD269896	11/18.86
2257-10	SK-68137	07/09.48
2265-10	XI-PER	14/08.16

ID	NAME	D/H MET
2268-10	NGC346_4	09/10.37
2269-10	NGC346_6	12/20.70
2271-10	HD93521	01/07.74
2282-10	HD5980	12/22.31
2282-21	HD5980	05/14.58
2282-22	HD5980	13/04.45
2302-10	HD50896	02/00.09
2302-20	HD50896	03/00.50
2302-30	HD50896	04/00.92
2302-40	HD50896	05/13.55
2306-10	HD191765	05/02.10
2306-20	HD191765	05/03.63
2306-30	HD191765	05/05.15
2306-40	HD191765	05/06.68
2316-10	HD96548	06/02.58
2316-20	HD96548	06/04.06
2316-30	HD96548	06/05.62
2316-40	HD96548	06/07.10
2317-10	HD93131	09/05.02
2320-10	HD51285	14/17.42
2321-10	HD50562	13/15.58
2322-10	HD51854	13/13.93
2401-10	ALF-HYI	13/05.84
2506-10	SW-MID	04/09.21
2506-20	SW-MID	07/10.45
2514-10	GD140	14/22.18
2517-10	GD153	05/17.30
2530-10	GD50	08/05.66
2534-10	GD71	03/20.49
2559-10	CD-38_10	07/06.25
2562-10	KUV1845	14/03.35
2564-11	WOLF1346	03/04.81
2564-12	WOLF1346	07/21.65
2567-10	GD394	02/16.53
2567-20	GD394	08/19.13
2567-31	GD394	13/18.10
2567-32	GD394	14/04.78
2577-10	RE1738	07/19.31
2586-10	RE0512	05/07.60
2603-11	H1504+65	01/00.40
2603-12	H1504+65	08/18.58
2605-10	1159-035	06/22.13
2607-11	1707+427	13/08.96
2607-12	1707+427	14/21.50
2614-11	1424+535	05/09.81
2614-12	1424+535	07/22.86
2702-10	LSV46-21	13/07.84
2705-10	K1-16	11/11.08
2707-11	KPD0005	02/18.09
2707-12	KPD0005	10/00.18
2822-10	HD94963	04/08.19
2828-10	HD57682	12/19.64
2830-10	HD189957	05/19.25
2837-10	HD37744	04/18.00
2843-10	HD31726	05/16.79
2856-10	HD86466	04/08.63
2860-10	HD195986	05/18.00

TABLE REF-2  
TARGET INDEX - ID ORDER

ID	NAME	D/H MET
2906-10	0242+132	11/20.58
2907-10	0250+189	05/10.35
2916-10	0839+399	02/03.46
2945-10	1538+269	08/23.48
2953-10	1710+490	03/09.16
2979-10	1704+221	02/08.84
3111-10	HD163296	08/03.48
3114-10	HD50138	03/12.75
3115-10	HD200775	02/14.87
3120-10	AB-AUR	08/14.91
3129-10	HD35929	10/03.38
3203-10	RW-TRI	08/07.01
3204-11	EF-ERI	00/23.61
3204-12	EF-ERI	09/19.57
3206-20	VW-HYI	02/05.96
3206-30	VW-HYI	10/07.63
3206-40	VW-HYI	09/08.83
3206-50	VW-HYI	06/19.75
3208-10	U-GEM	04/13.50
3213-10	Z-CAM	08/17.99
3217-10	EX-HYA	03/21.20
3220-10	T-CRB	14/22.78
3223-10	AM-HER	07/16.65
3223-20	AM-HER	07/15.16
3227-12	SS-CYG	00/17.13
3227-20	SS-CYG	02/13.38
3230-20	RX-AND	01/01.09
3232-10	WX-HYI	03/03.21
3232-20	WX-HYI	09/22.65
3253-10	EM-CYG	08/22.07
3254-11	V3885SG	04/01.96
3254-12	V3885SG	13/16.30
3264-10	AR-AND	12/23.90
3266-10	YZ-CNC	03/05.43
3266-20	YZ-CNC	06/08.15
3301-10	AO-CAS	07/01.97
3301-20	AO-CAS	13/22.74
3323-10	BET-LYR	09/16.05
3324-10	NU-CEP	14/18.50
3327-10	V356SGR	03/01.57
3401-10	EG-AND	01/10.06
3402-10	AX-PER	01/19.38
3403-10	AG-DRA	07/22.34
3404-10	CH-CYG	10/19.95
3405-11	RS-OPH	04/14.34
3405-12	RS-OPH	11/00.45
3407-11	HM-SGE	03/19.96
3407-12	HM-SGE	04/03.78
3407-13	HM-SGE	05/20.81
3409-10	V1016CYG	10/21.33
3410-10	RR-TEL	07/07.94
3411-10	V1329CYG	04/17.32
3413-10	Z-AND	03/18.46
3418-10	LMCS63	11/21.87
3430-10	BF-CYG	09/20.95
3604-10	R-CRB	12/18.52
3606-10	ALF-ORI	08/04.23

ID	NAME	D/H MET
3613-11	HR4049	10/05.57
3613-12	HR4049	14/10.03
3807-10	VELA-X-1	03/02.31
3818-10	A0535+26	12/16.66
4103-10	NGC1360	14/12.52
4109-10	NGC3132	04/02.78
4211-11	NGC7023	02/12.62
4211-12	NGC7023	02/14.16
4212-10	NGC2023	07/05.39
4221-10	IC405	03/08.48
4221-20	IC405	05/21.52
4305-10	N70	12/13.01
4306-10	N51D	12/13.61
4406-10	N49	11/19.80
4410-10	VELA-P1	07/06.91
4413-10	CYGLOOPB	04/15.80
4415-10	N63A	12/08.40
4416-10	SN1987A	12/10.20
4429-10	SN1006	10/08.63
4429-20	SN1006	12/20.24
4442-10	CYGLOOPD	08/20.61
4445-10	CYGLP-P2	07/18.58
4449-10	CYGLP-P1	04/18.57
4453-10	GK-PERN	01/08.79
4455-10	LMC_0519	12/07.40
4455-20	LMC_0519	14/13.15
4458-10	VELA-F	13/09.54
4460-10	VELA-H	09/06.26
4460-20	VELA-H	14/02.34
4469-10	CYGLP-P7	02/03.96
4469-20	CYGLP-P7	02/20.75
4470-10	CYGLP-P8	03/16.95
4473-10	CYGLP-11	07/20.11
4473-20	CYGLP-11	11/07.93
4474-10	PUPAEAST	10/06.68
4477-10	PUPAOMG	14/11.47
4503-10	HD62542	06/01.73
4508-10	31TAU	01/15.04
4509-10	HD29647	14/00.72
4510-10	HD30870	11/16.08
4511-10	SK66-19	11/04.22
4511-20	SK66-19	11/05.65
4517-10	SK69-254	13/04.89
4518-10	HD37903	11/06.96
4519-10	SK69-270	12/04.60
4519-20	SK69-270	12/06.08
4523-10	HD47432	05/15.16
4526-10	HD73882	06/03.37
4541-10	SIG-SCO	13/23.80
4542-11	HD147889	05/15.89
4542-12	HD147889	14/19.64
4547-10	RHOOPHAB	10/17.97
4549-10	HD161961	09/03.92
4551-10	HD168625	14/09.10
4554-10	ZET-OPH	07/03.07
4555-10	HD193682	07/04.51
4557-10	HD197770	03/14.70

TABLE REF-2  
TARGET INDEX - ID ORDER

ID	NAME	D/H MET
4560-10	HD207198	08/16.03
4563-10	HD216658	09/02.90
4564-10	HD216898	09/14.99
4566-10	HD188220	12/17.52
4569-10	HD217490	02/01.95
4577-10	OMI-SCO	14/10.79
4586-10	HD25090	05/04.44
4591-10	SK69-83	11/04.94
4592-10	SK67-78	11/03.53
4593-10	SK67-90	12/05.44
4594-10	SK70-116	13/06.44
4595-10	HR1260	05/02.90
4596-10	HD24992	05/05.95
4702-10	HH2H	06/17.04
4801-10	THUMPRNT	14/14.83
4804-10	FSG1_15	01/12.11
4807-10	CB_4	10/12.38
5101-10	NGC2808	01/13.66
5102-10	NGC0362	14/15.42
5105-10	M3	12/01.63
5106-10	M5	04/11.13
5107-10	M13	08/11.04
5108-11	M92	03/10.48
5108-12	M92	09/13.33
5109-11	NGC6752	08/09.54
5109-12	NGC6752	01/22.24
5110-10	NGC3201	13/21.87
5112-10	NGC6397	12/16.11
5116-10	OMG-CEN	13/12.84
5195-10	NGC6218	13/19.61
5196-10	NGC6121	02/10.03
5199-10	NGC4590	03/12.30
5201-11	47-TUC	01/13.01
5201-12	47-TUC	12/14.26
5204-10	NGC6723	06/12.11
5206-10	NGC6637	04/20.49
5301-10	NGC0188	07/23.60
5302-10	NGC0752	08/13.11
5303-10	NGC7789	10/10.87
5304-10	NGC0752	10/13.93
5311-11	M67	03/11.49
5311-12	M67	07/01.09
5312-10	NGC6791	02/22.59
5314-10	NGC3532	01/14.40
5402-10	N11	14/16.04
5403-10	N4	12/11.47
6102-10	NGC0185	08/10.34
6103-10	NGC0205	01/04.26
6107-10	M31S2	09/01.32
6108-10	M31W	08/00.89
6109-10	M33S	11/02.10
6112-10	SMC-B	14/16.66
6132-10	LEO-A	09/01.86
6134-10	SEX-A	05/00.16
6136-10	DRACO	05/11.67
6138-10	M32	11/12.76
6141-11	M31A	03/09.82

ID	NAME	D/H MET
6141-12	M31A	12/01.15
6142-10	M31S	07/00.46
6143-10	M31N2	13/02.97
6197-10	SMC-CLUS	03/23.25
6198-10	LMC-BAR	12/12.08
6202-10	NGC2841	05/22.92
6207-10	NGC1097	03/21.88
6215-10	NGC2403	06/00.38
6223-10	NGC4038	04/22.72
6225-10	NGC4258	08/12.07
6232-10	M63	14/05.47
6235-11	M101A	01/23.01
6235-12	M101A	09/14.04
6246-10	NGC4736	10/00.73
6248-11	NGC5236	02/11.29
6248-12	NGC5236	03/23.93
6259-10	NGC0925	12/02.67
6262-10	NGC3621	06/11.32
6269-10	NGC1512	13/12.14
6271-11	NGC1291	09/11.88
6271-12	NGC1291	14/13.95
6272-10	NGC3351	04/12.02
6299-11	NGC1365	12/14.93
6299-12	NGC1365	13/10.52
6306-20	NGC3379	04/05.92
6306-31	NGC3379	04/07.45
6306-32	NGC3379	06/20.51
6308-20	M49	01/03.22
6309-20	M89	13/03.57
6310-21	M60	11/21.15
6310-22	M60	12/21.54
6310-31	M60	09/08.14
6310-32	M60	09/09.66
6353-10	M87	13/11.19
6353-30	M87	11/22.66
6402-10	NGC2366	10/01.98
6406-10	NGC4449	05/12.39
6408-10	NGC1313	10/15.39
6594-11	IC2574	01/05.00
6594-12	IC2574	13/20.07
6597-10	CARINA	08/08.74
6598-10	HOLMBERG 2	09/00.08
6604-10	NGC3115	04/21.07
6608-10	M104	06/12.91
7107-10	M51	10/11.44
7303-10	NGC3310	14/06.79
7305-10	NGC2903	05/10.86
7309-10	NGC4214	11/01.12
7313-10	NGC5102	04/19.77
7323-11	NGC6946	06/23.01
7323-12	NGC6946	07/12.56
7342-11	0833+652	02/15.58
7342-12	0833+652	03/15.98
7342-13	0833+652	04/04.35
7343-11	1050+04	07/08.70
7343-12	1050+04	08/07.60
7343-13	1050+04	09/11.07



TABLE REF-2  
TARGET INDEX - ID ORDER

ID	NAME	D/H MET
7347-11	MRK66	11/11.75
7347-12	MRK66	13/18.80
7350-11	NGC6090	10/20.62
7350-12	NGC6090	10/22.15
7350-13	NGC6090	11/08.82
7401-10	NGC1549	04/22.01
7407-10	NGC4631	10/09.90
7407-20	NGC4631	13/17.23
8102-11	FAIRALL9	03.06.28
8102-12	FAIRALL9	09/07.23
8106-10	NGC1566	02/09.43
8115-10	NGC3516	08/22.75
8115-20	NGC3516	10/18.84
8116-11	NGC4151	01/18.85
8116-12	NGC4151	05/08.20
8116-13	NGC4151	10/19.45
8116-21	NGC4151	03/04.14
8116-22	NGC4151	08/06.43
8116-23	NGC4151	13/08.45
8121-11	MKN279	02/08.12
8121-12	MKN279	08/21.35
8122-10	NGC5548	12/00.15
8122-20	NGC5548	06/08.79
8202-10	NGC1068	02/19.85
8202-21	NGC1068	05/08.90
8202-22	NGC1068	07/15.91
8208-11	MKN3	04/14.89
8208-12	MKN3	04/16.56
8208-20	MKN3	07/14.47
8210-10	NG3226-7	02/23.39
8211-10	NGC1672	04/23.56
8310-11	CEN-A	03/22.47
8310-12	CEN-A	12/15.49
8415-11	1700+64	02/18.86
8415-12	1700+64	07/17.79
8415-13	1700+64	07/20.84
8415-21	1700+64	02/05.13
8415-22	1700+64	02/17.33
8415-23	1700+64	05/18.54
8424-10	3C273	09/23.41
8424-20	3C273	13/00.63
8448-11	PG1351	11/10.30
8448-12	PG1351	14/20.49
8506-11	1211+143	12/09.32
8506-12	1211+143	12/23.04
8535-11	Q1542+54	03/19.28
8535-12	Q1542+54	09/20.19
8535-13	Q1542+54	09/21.72
8535-21	Q1542+54	03/07.08
8535-22	Q1542+54	03/17.76
8535-23	Q1542+54	05/20.11
8612-10	MKN421	08/19.75
8612-20	MKN421	09/18.60
9101-11	COMA-CL	10/12.98
9101-12	COMA-CL	10/14.50
9202-10	AB1367	07/11.69
9203-11	HER-CLUS	08/13.85

ID	NAME	D/H MET
9203-12	HER-CLUS	11/13.62
9208-10	MS0839.8	06/23.48
9213-10	A779	13/01.95
9302-11	AB1795	10/23.70
9302-12	AB1795	14/04.00
9302-20	AB1795	11/14.98
9399-10	NGC2300	11/14.54
9405-11	SA57	09/12.57
9405-12	SA57	04/10.52
9418-10	F563-V1	08/01.40
9421-10	UGC6151	01/21.37
9422-10	VCC530	07/13.28
9425-10	VCC2037	02/21.91
9428-10	UGC5675	11/02.74
9496-10	BAADES	13/21.09
9801-00	IPS-OSPC	00/05.79
9801-00	IPS-OSPC	00/06.21
9802-00	IPS-IDPT	00/08.55
9802-00	IPS-IDPT	00/08.73
9803-00	IMC-GYRO	00/13.10
9804-00	IMC-CAL	00/12.52
9809-00	IPS-PINT	00/05.30
9810-00	IPS-IPT	00/07.01
9810-00	IPS-IPT	00/07.13
9811-00	IPS-LOTS	00/09.32
9813-00	IPS-MTAT	00/16.58
9814-00	IPS-SSUB	00/08.97
9815-00	IPS-IDRT	00/07.45
9815-00	IPS-IDRT	00/07.65
9815-00	IPS-IDRT	00/11.15
9815-00	IPS-IDRT	00/11.37
9815-00	IPS-IDRT	00/11.58

TABLE REF-3  
TARGET INDEX - NAME ORDER

ID	NAME	D/H MET
8424-10	3C273	09/23.41
8424-20	3C273	13/00.63
2236-10	28TAU	06/13.98
4508-10	31TAU	01/15.04
5201-11	47-TUC	01/13.01
5201-12	47-TUC	12/14.26
2222-10	48LIB	09/17.52
2239-10	48PER	08/02.56
2242-10	51OPH	13/14.71
2229-10	59CYG	10/04.42
2224-10	66OPH	14/01.51
2906-10	0242+132	11/20.58
2907-10	0250+189	05/10.35
7342-11	0833+652	02/15.58
7342-12	0833+652	03/15.98
7342-13	0833+652	04/04.35
2916-10	0839+399	02/03.46
0004-10	1034+001	06/18.86
7343-11	1050+04	07/08.70
7343-12	1050+04	08/07.60
7343-13	1050+04	09/11.07
2605-10	1159-035	06/22.13
8506-11	1211+143	12/09.32
8506-12	1211+143	12/23.04
2614-11	1424+535	05/09.81
2614-12	1424+535	07/22.86
2945-10	1538+269	08/23.48
8415-21	1700+64	02/05.13
8415-22	1700+64	02/17.33
8415-11	1700+64	02/18.86
8415-23	1700+64	05/18.54
8415-12	1700+64	07/17.79
8415-13	1700+64	07/20.84
2979-10	1704+221	02/08.84
2607-11	1707+427	13/08.96
2607-12	1707+427	14/21.50
2953-10	1710+490	03/09.16
3818-10	A0535+26	12/16.66
9213-10	A779	13/01.95
3120-10	AB-AUR	08/14.91
9202-10	AB1367	07/11.69
9302-11	AB1795	10/23.70
9302-20	AB1795	11/14.98
9302-12	AB1795	14/04.00
2248-10	AE-AUR	03/08.16
2109-10	AG-CAR	06/15.97
3403-10	AG-DRA	07/22.34
0101-11	ALF-AUR	00/17.65
0101-12	ALF-AUR	00/19.18
2107-10	ALF-CAM	09/16.94
2401-10	ALF-HYI	13/05.84
3606-10	ALF-ORI	08/04.23
3223-20	AM-HER	07/15.16
3223-10	AM-HER	07/16.65
3301-10	AO-CAS	07/01.97
3301-20	AO-CAS	13/22.74
3264-10	AR-AND	12/23.90

ID	NAME	D/H MET
3402-10	AX-PER	01/19.38
9496-10	BAADES	13/21.09
0011-10	BD75D325	06/09.55
0901-10	BET-CAS	00/13.54
3323-10	BET-LYR	09/16.05
0608-10	BET-UMA	01/16.79
0608-20	BET-UMA	11/17.79
3430-10	BF-CYG	09/20.95
0301-10	BR-EARTH	00/22.16
6597-10	CARINA	08/08.74
4807-10	CB_4	10/12.38
2559-10	CD-38_10	07/06.25
8310-11	CEN-A	03/22.47
8310-12	CEN-A	12/15.49
3404-10	CH-CYG	10/19.95
2223-10	CHI-OPH	08/17.14
9101-11	COMA-CL	10/12.98
9101-12	COMA-CL	10/14.50
4413-10	CYGLOOPB	04/15.80
4442-10	CYGLOOPD	08/20.61
4473-10	CYGLP-11	07/20.11
4473-20	CYGLP-11	11/07.93
4449-10	CYGLP-P1	04/18.57
4445-10	CYGLP-P2	07/18.58
4469-10	CYGLP-P7	02/03.96
4469-20	CYGLP-P7	02/20.75
4470-10	CYGLP-P8	03/16.95
6136-10	DRACO	05/11.67
3204-11	EF-ERI	00/23.61
3204-12	EF-ERI	09/19.57
3401-10	EG-AND	01/10.06
3253-10	EM-CYG	08/22.07
2231-10	EW-LAC	02/01.14
3217-10	EX-HYA	03/21.20
9418-10	F563-V1	08/01.40
8102-11	FAIRALL9	03.06.28
8102-12	FAIRALL9	09/07.23
2237-10	FR-CMA	06/04.91
4804-10	FSGL_15	01/12.11
0003-10	G191B2B	01/18.06
2514-10	GD140	14/22.18
2517-10	GD153	05/17.30
2567-10	GD394	02/16.53
2567-20	GD394	08/19.13
2567-31	GD394	13/18.10
2567-32	GD394	14/04.78
2530-10	GD50	08/05.66
2534-10	GD71	03/20.49
4453-10	GK-PERN	01/08.79
2603-11	H1504+65	01/00.40
2603-12	H1504+65	08/18.58
4542-11	HD147889	05/15.89
4542-12	HD147889	14/19.64
0656-10	HD161056	01/15.82
0656-20	HD161056	11/16.79
4549-10	HD161961	09/03.92
3111-10	HD163296	08/03.48

TABLE REF-3  
TARGET INDEX - NAME ORDER

ID	NAME	D/H MET
4551-10	HD168625	14/09.10
4566-10	HD188220	12/17.52
2830-10	HD189957	05/19.25
2306-10	HD191765	05/02.10
2306-20	HD191765	05/03.63
2306-30	HD191765	05/05.15
2306-40	HD191765	05/06.68
4555-10	HD193682	07/04.51
2860-10	HD195986	05/18.00
4557-10	HD197770	03/14.70
3115-10	HD200775	02/14.87
4560-10	HD207198	08/16.03
4563-10	HD216658	09/02.90
4564-10	HD216898	09/14.99
4569-10	HD217490	02/01.95
4596-10	HD24992	05/05.95
4586-10	HD25090	05/04.44
2252-10	HD269698	04/12.89
2210-10	HD269810	11/23.40
2256-10	HD269896	11/18.86
4509-10	HD29647	14/00.72
4510-10	HD30870	11/16.08
2843-10	HD31726	05/16.79
3129-10	HD35929	10/03.38
2837-10	HD37744	04/18.00
4518-10	HD37903	11/06.96
4523-10	HD47432	05/15.16
3114-10	HD50138	03/12.75
2321-10	HD50562	13/15.58
2302-10	HD50896	02/00.09
2302-20	HD50896	03/00.50
2302-30	HD50896	04/00.92
2302-40	HD50896	05/13.55
2320-10	HD51285	14/17.42
2322-10	HD51854	13/13.93
2828-10	HD57682	12/19.64
2282-21	HD5980	05/14.58
2282-10	HD5980	12/22.31
2282-22	HD5980	13/04.45
4503-10	HD62542	06/01.73
4526-10	HD73882	06/03.37
2856-10	HD86466	04/08.63
2317-10	HD93131	09/05.02
2271-10	HD93521	01/07.74
2822-10	HD94963	04/08.19
2316-10	HD96548	06/02.58
2316-20	HD96548	06/04.06
2316-30	HD96548	06/05.62
2316-40	HD96548	06/07.10
9203-11	HER-CLUS	08/13.85
9203-12	HER-CLUS	11/13.62
4702-10	HH2H	06/17.04
3407-11	HM-SGE	03/19.96
3407-12	HM-SGE	04/03.78
3407-13	HM-SGE	05/20.81
6598-10	HOLMBERG 2	09/00.08
4595-10	HR1260	05/02.90

ID	NAME	D/H MET
3613-11	HR4049	10/05.57
3613-12	HR4049	14/10.03
0001-11	HZ43	00/21.30
0001-10	HZ43	01/10.94
6594-11	IC2574	01/05.00
6594-12	IC2574	13/20.07
4221-10	IC405	03/08.48
4221-20	IC405	05/21.52
9804-00	IMC-CAL	00/12.52
9803-00	IMC-GYRO	00/13.10
9802-00	IPS-IDPT	00/08.55
9802-00	IPS-IDPT	00/08.73
9815-00	IPS-IDRT	00/07.45
9815-00	IPS-IDRT	00/07.65
9815-00	IPS-IDRT	00/11.15
9815-00	IPS-IDRT	00/11.37
9815-00	IPS-IDRT	00/11.58
9810-00	IPS-IPT	00/07.01
9810-00	IPS-IPT	00/07.13
9811-00	IPS-LOTS	00/09.32
9813-00	IPS-MTAT	00/16.58
9801-00	IPS-OSPC	00/05.79
9801-00	IPS-OSPC	00/06.21
9809-00	IPS-PINT	00/05.30
9814-00	IPS-SSUB	00/08.97
1204-21	JUPITER	01/01.92
1204-11	JUPITER	01/20.24
1204-12	JUPITER	02/07.01
1204-13	JUPITER	05/22.29
1204-22	JUPITER	06/10.36
1204-23	JUPITER	06/18.05
2705-10	K1-16	11/11.08
2102-10	KAP-CAS	07/03.83
2707-11	KPD0005	02/18.09
2707-12	KPD0005	10/00.18
2562-10	KUV1845	14/03.35
2121-10	LAM-CEP	03/13.78
6132-10	LEO-A	09/01.86
6198-10	LMC-BAR	12/12.08
3418-10	LMCS63	11/21.87
4455-10	LMC_0519	12/07.40
4455-20	LMC_0519	14/13.15
2702-10	LSV46-21	13/07.84
1320-20	LUNA	10/02.37
1320-30	LUNA	12/03.32
1320-50	LUNA	14/07.30
6235-11	M101A	01/23.01
6235-12	M101A	09/14.04
6608-10	M104	06/12.91
5107-10	M13	08/11.04
5105-10	M3	12/01.63
6141-11	M31A	03/09.82
6141-12	M31A	12/01.15
6143-10	M31N2	13/02.97
6142-10	M31S	07/00.46
6107-10	M31S2	09/01.32
6108-10	M31W	08/00.89

TABLE REF-3  
TARGET INDEX - NAME ORDER

ID	NAME	D/H MET
6138-10	M32	11/12.76
6109-10	M33S	11/02.10
6308-20	M49	01/03.22
5106-10	M5	04/11.13
7107-10	M51	10/11.44
6310-31	M60	09/08.14
6310-32	M60	09/09.66
6310-21	M60	11/21.15
6310-22	M60	12/21.54
6232-10	M63	14/05.47
5311-11	M67	03/11.49
5311-12	M67	07/01.09
6353-30	M87	11/22.66
6353-10	M87	13/11.19
6309-20	M89	13/03.57
5108-11	M92	03/10.48
5108-12	M92	09/13.33
1205-10	MARS	10/15.99
8121-11	MKN279	02/08.12
8121-12	MKN279	08/21.35
8208-11	MKN3	04/14.89
8208-12	MKN3	04/16.56
8208-20	MKN3	07/14.47
8612-10	MKN421	08/19.75
8612-20	MKN421	09/18.60
7347-11	MRK66	11/11.75
7347-12	MRK66	13/18.80
9208-10	MS0839.8	06/23.48
5402-10	N11	14/16.04
5403-10	N4	12/11.47
4406-10	N49	11/19.80
4306-10	N51D	12/13.61
4415-10	N63A	12/08.40
4305-10	N70	12/13.01
8210-10	NG3226-7	02/23.39
6102-10	NGC0185	08/10.34
5301-10	NGC0188	07/23.60
6103-10	NGC0205	01/04.26
5102-10	NGC0362	14/15.42
5302-10	NGC0752	08/13.11
5304-10	NGC0752	10/13.93
6259-10	NGC0925	12/02.67
8202-10	NGC1068	02/19.85
8202-21	NGC1068	05/08.90
8202-22	NGC1068	07/15.91
6207-10	NGC1097	03/21.88
6271-11	NGC1291	09/11.88
6271-12	NGC1291	14/13.95
6408-10	NGC1313	10/15.39
4103-10	NGC1360	14/12.52
6299-11	NGC1365	12/14.93
6299-12	NGC1365	13/10.52
6269-10	NGC1512	13/12.14
7401-10	NGC1549	04/22.01
8106-10	NGC1566	02/09.43
8211-10	NGC1672	04/23.56
4212-10	NGC2023	07/05.39

ID	NAME	D/H MET
0502-10	NGC2070	00/20.40
9399-10	NGC2300	11/14.54
6402-10	NGC2366	10/01.98
6215-10	NGC2403	06/00.38
5101-10	NGC2808	01/13.66
6202-10	NGC2841	05/22.92
7305-10	NGC2903	05/10.86
6604-10	NGC3115	04/21.07
4109-10	NGC3132	04/02.78
5110-10	NGC3201	13/21.87
7303-10	NGC3310	14/06.79
6272-10	NGC3351	04/12.02
6306-20	NGC3379	04/05.92
6306-31	NGC3379	04/07.45
6306-32	NGC3379	06/20.51
2250-10	NGC346_3	06/21.39
2268-10	NGC346_4	09/10.37
2269-10	NGC346_6	12/20.70
8115-10	NGC3516	08/22.75
8115-20	NGC3516	10/18.84
5314-10	NGC3532	01/14.40
6262-10	NGC3621	06/11.32
6223-10	NGC4038	04/22.72
8116-11	NGC4151	01/18.85
8116-21	NGC4151	03/04.14
8116-12	NGC4151	05/08.20
8116-22	NGC4151	08/06.43
8116-13	NGC4151	10/19.45
8116-23	NGC4151	13/08.45
7309-10	NGC4214	11/01.12
6225-10	NGC4258	08/12.07
6406-10	NGC4449	05/12.39
5199-10	NGC4590	03/12.30
7407-10	NGC4631	10/09.90
7407-20	NGC4631	13/17.23
6246-10	NGC4736	10/00.73
7313-10	NGC5102	04/19.77
6248-11	NGC5236	02/11.29
6248-12	NGC5236	03/23.93
8122-20	NGC5548	06/08.79
8122-10	NGC5548	12/00.15
7350-11	NGC6090	10/20.62
7350-12	NGC6090	10/22.15
7350-13	NGC6090	11/08.82
5196-10	NGC6121	02/10.03
5195-10	NGC6218	13/19.61
5112-10	NGC6397	12/16.11
5206-10	NGC6637	04/20.49
5204-10	NGC6723	06/12.11
5109-12	NGC6752	01/22.24
5109-11	NGC6752	08/09.54
5312-10	NGC6791	02/22.59
7323-11	NGC6946	06/23.01
7323-12	NGC6946	07/12.56
4211-11	NGC7023	02/12.62
4211-12	NGC7023	02/14.16
5303-10	NGC7789	10/10.87

TABLE REF-3  
TARGET INDEX - NAME ORDER

ID	NAME	D/H MET
3324-10	NU-CEP	14/18.50
5116-10	OMG-CEN	13/12.84
4577-10	OMI-SCO	14/10.79
2217-10	P-CAR	08/05.10
2133-10	P-CYG	01/06.73
2133-20	P-CYG	06/14.87
2133-30	P-CYG	10/16.87
8448-11	PG1351	11/10.30
8448-12	PG1351	14/20.49
2203-10	PHI-PER	01/05.63
2205-10	PSI-PER	05/01.31
4474-10	PUPAEAST	10/06.68
4477-10	PUPAOMG	14/11.47
8535-21	Q1542+54	03/07.08
8535-22	Q1542+54	03/17.76
8535-11	Q1542+54	03/19.28
8535-23	Q1542+54	05/20.11
8535-12	Q1542+54	09/20.19
8535-13	Q1542+54	09/21.72
3604-10	R-CRB	12/18.52
2586-10	RE0512	05/07.60
2577-10	RE1738	07/19.31
4547-10	RHOOPHAB	10/17.97
3410-10	RR-TEL	07/07.94
3405-11	RS-OPH	04/14.34
3405-12	RS-OPH	11/00.45
3203-10	RW-TRI	08/07.01
3230-20	RX-AND	01/01.09
9405-12	SA57	04/10.52
9405-11	SA57	09/12.57
6134-10	SEX-A	05/00.16
4541-10	SIG-SCO	13/23.80
2254-10	SK-66169	13/01.39
2255-10	SK-66172	04/06.70
2253-10	SK-67167	04/05.23
2257-10	SK-68137	07/09.48
4511-10	SK66-19	11/04.22
4511-20	SK66-19	11/05.65
4592-10	SK67-78	11/03.53
4593-10	SK67-90	12/05.44
4517-10	SK69-254	13/04.89
4519-10	SK69-270	12/04.60
4519-20	SK69-270	12/06.08
4591-10	SK69-83	11/04.94
4594-10	SK70-116	13/06.44
2251-10	SK80	04/09.96
6112-10	SMC-B	14/16.66
6197-10	SMC-CLUS	03/23.25
4429-10	SN1006	10/08.63
4429-20	SN1006	12/20.24
4416-10	SN1987A	12/10.20
3227-12	SS-CYG	00/17.13
3227-20	SS-CYG	02/13.38
2506-10	SW-MID	04/09.21
2506-20	SW-MID	07/10.45
3220-10	T-CRB	14/22.78
4801-10	THUMPRNT	14/14.83

ID	NAME	D/H MET
3208-10	U-GEM	04/13.50
9428-10	UGC5675	11/02.74
9421-10	UGC6151	01/21.37
3409-10	V1016CYG	10/21.33
3411-10	V1329CYG	04/17.32
3327-10	V356SGR	03/01.57
3254-11	V3885SG	04/01.96
3254-12	V3885SG	13/16.30
9425-10	VCC2037	02/21.91
9422-10	VCC530	07/13.28
4458-10	VELA-F	13/09.54
4460-10	VELA-H	09/06.26
4460-20	VELA-H	14/02.34
4410-10	VELA-P1	07/06.91
3807-10	VELA-X-1	03/02.31
1201-10	VENUS	10/22.96
1201-20	VENUS	11/09.65
3206-20	VW-HYI	02/05.96
3206-50	VW-HYI	06/19.75
3206-40	VW-HYI	09/08.83
3206-30	VW-HYI	10/07.63
2564-11	WOLF1346	03/04.81
2564-12	WOLF1346	07/21.65
3232-10	WX-HYI	03/03.21
3232-20	WX-HYI	09/22.65
2265-10	XI-PER	14/08.16
3266-10	YZ-CNC	03/05.43
3266-20	YZ-CNC	06/08.15
3413-10	Z-AND	03/18.46
3213-10	Z-CAM	08/17.99
4554-10	ZET-OPH	07/03.07
2209-10	ZET-TAU	06/06.48

TABLE REF-4  
TARGET INDEX - TIME ORDER

ID	NAME	D/H MET
9809-00	IPS-PINT	00/05.30
9801-00	IPS-OSPC	00/05.79
9801-00	IPS-OSPC	00/06.21
9810-00	IPS-IPT	00/07.01
9810-00	IPS-IPT	00/07.13
9815-00	IPS-IDRT	00/07.45
9815-00	IPS-IDRT	00/07.65
9802-00	IPS-IDPT	00/08.55
9802-00	IPS-IDPT	00/08.73
9814-00	IPS-SSUB	00/08.97
9811-00	IPS-LOTS	00/09.32
9815-00	IPS-IDRT	00/11.15
9815-00	IPS-IDRT	00/11.37
9815-00	IPS-IDRT	00/11.58
9804-00	IMC-CAL	00/12.52
9803-00	IMC-GYRO	00/13.10
0901-10	BET-CAS	00/13.54
9813-00	IPS-MTAT	00/16.58
3227-12	SS-CYG	00/17.13
0101-11	ALF-AUR	00/17.65
0101-12	ALF-AUR	00/19.18
0502-10	NGC2070	00/20.40
0001-11	HZ43	00/21.30
0301-10	BR-EARTH	00/22.16
3204-11	EF-ERI	00/23.61
2603-11	H1504+65	01/00.40
3230-20	RX-AND	01/01.09
1204-21	JUPITER	01/01.92
6308-20	M49	01/03.22
6103-10	NGC0205	01/04.26
6594-11	IC2574	01/05.00
2203-10	PHI-PER	01/05.63
2133-10	P-CYG	01/06.73
2271-10	HD93521	01/07.74
4453-10	GK-PERN	01/08.79
3401-10	EG-AND	01/10.06
0001-10	HZ43	01/10.94
4804-10	FSGL_15	01/12.11
5201-11	47-TUC	01/13.01
5101-10	NGC2808	01/13.66
5314-10	NGC3532	01/14.40
4508-10	31TAU	01/15.04
0656-10	HD161056	01/15.82
0608-10	BET-UMA	01/16.79
0003-10	G191B2B	01/18.06
8116-11	NGC4151	01/18.85
3402-10	AX-PER	01/19.38
1204-11	JUPITER	01/20.24
9421-10	UGC6151	01/21.37
5109-12	NGC6752	01/22.24
6235-11	M101A	01/23.01
2302-10	HD50896	02/00.09
2231-10	EW-LAC	02/01.14
4569-10	HD217490	02/01.95
2916-10	0839+399	02/03.46
4469-10	CYGLP-P7	02/03.96
8415-21	1700+64	02/05.13

ID	NAME	D/H MET
3206-20	VW-HYI	02/05.96
1204-12	JUPITER	02/07.01
8121-11	MKN279	02/08.12
2979-10	1704+221	02/08.84
8106-10	NGC1566	02/09.43
5196-10	NGC6121	02/10.03
6248-11	NGC5236	02/11.29
4211-11	NGC7023	02/12.62
3227-20	SS-CYG	02/13.38
4211-12	NGC7023	02/14.16
3115-10	HD200775	02/14.87
7342-11	0833+652	02/15.58
2567-10	GD394	02/16.53
8415-22	1700+64	02/17.33
2707-11	KPD0005	02/18.09
8415-11	1700+64	02/18.86
8202-10	NGC1068	02/19.85
4469-20	CYGLP-P7	02/20.75
9425-10	VCC2037	02/21.91
5312-10	NGC6791	02/22.59
8210-10	NG3226-7	02/23.39
2302-20	HD50896	03/00.50
3327-10	V356SGR	03/01.57
3807-10	VELA-X-1	03/02.31
3232-10	WX-HYI	03/03.21
8116-21	NGC4151	03/04.14
2564-11	WOLF1346	03/04.81
3266-10	YZ-CNC	03/05.43
8102-11	FAIRALL9	03/06.28
8535-21	Q1542+54	03/07.08
2248-10	AE-AUR	03/08.16
4221-10	IC405	03/08.48
2953-10	1710+490	03/09.16
6141-11	M31A	03/09.82
5108-11	M92	03/10.48
5311-11	M67	03/11.49
5199-10	NGC4590	03/12.30
3114-10	HD50138	03/12.75
2121-10	LAM-CEP	03/13.78
4557-10	HD197770	03/14.70
7342-12	0833+652	03/15.98
4470-10	CYGLP-P8	03/16.95
8535-22	Q1542+54	03/17.76
3413-10	Z-AND	03/18.46
8535-11	Q1542+54	03/19.28
3407-11	HM-SGE	03/19.96
2534-10	GD71	03/20.49
3217-10	EX-HYA	03/21.20
6207-10	NGC1097	03/21.88
8310-11	CEN-A	03/22.47
6197-10	SMC-CLUS	03/23.25
6248-12	NGC5236	03/23.93
2302-30	HD50896	04/00.92
3254-11	V3885SG	04/01.96
4109-10	NGC3132	04/02.78
3407-12	HM-SGE	04/03.78
7342-13	0833+652	04/04.35

TABLE REF-4  
TARGET INDEX - TIME ORDER

ID	NAME	D/H MET
2253-10	SK-67167	04/05.23
6306-20	NGC3379	04/05.92
2255-10	SK-66172	04/06.70
6306-31	NGC3379	04/07.45
2822-10	HD94963	04/08.19
2856-10	HD86466	04/08.63
2506-10	SW-MID	04/09.21
2251-10	SK80	04/09.96
9405-12	SA57	04/10.52
5106-10	M5	04/11.13
6272-10	NGC3351	04/12.02
2252-10	HD269698	04/12.89
3208-10	U-GEM	04/13.50
3405-11	RS-OPH	04/14.34
8208-11	MKN3	04/14.89
4413-10	CYGLLOOPB	04/15.80
8208-12	MKN3	04/16.56
3411-10	V1329CYG	04/17.32
2837-10	HD37744	04/18.00
4449-10	CYGLP-P1	04/18.57
7313-10	NGC5102	04/19.77
5206-10	NGC6637	04/20.49
6604-10	NGC3115	04/21.07
7401-10	NGC1549	04/22.01
6223-10	NGC4038	04/22.72
8211-10	NGC1672	04/23.56
6134-10	SEX-A	05/00.16
2205-10	PSI-PER	05/01.31
2306-10	HD191765	05/02.10
4595-10	HR1260	05/02.90
2306-20	HD191765	05/03.63
4586-10	HD25090	05/04.44
2306-30	HD191765	05/05.15
4596-10	HD24992	05/05.95
2306-40	HD191765	05/06.68
2586-10	RE0512	05/07.60
8116-12	NGC4151	05/08.20
8202-21	NGC1068	05/08.90
2614-11	1424+535	05/09.81
2907-10	0250+189	05/10.35
7305-10	NGC2903	05/10.86
6136-10	DRACO	05/11.67
6406-10	NGC4449	05/12.39
2302-40	HD50896	05/13.55
2282-21	HD5980	05/14.58
4523-10	HD47432	05/15.16
4542-11	HD147889	05/15.89
2843-10	HD31726	05/16.79
2517-10	GD153	05/17.30
2860-10	HD195986	05/18.00
8415-23	1700+64	05/18.54
2830-10	HD189957	05/19.25
8535-23	Q1542+54	05/20.11
3407-13	HM-SGE	05/20.81
4221-20	IC405	05/21.52
1204-13	JUPITER	05/22.29
6202-10	NGC2841	05/22.92

ID	NAME	D/H MET
6215-10	NGC2403	06/00.38
4503-10	HD62542	06/01.73
2316-10	HD96548	06/02.58
4526-10	HD73882	06/03.37
2316-20	HD96548	06/04.06
2237-10	FR-CMA	06/04.91
2316-30	HD96548	06/05.62
2209-10	ZET-TAU	06/06.48
2316-40	HD96548	06/07.10
3266-20	YZ-CNC	06/08.15
8122-20	NGC5548	06/08.79
0011-10	BD75D325	06/09.55
1204-22	JUPITER	06/10.36
6262-10	NGC3621	06/11.32
5204-10	NGC6723	06/12.11
6608-10	M104	06/12.91
2236-10	28TAU	06/13.98
2133-20	P-CYG	06/14.87
2109-10	AG-CAR	06/15.97
4702-10	HH2H	06/17.04
1204-23	JUPITER	06/18.05
0004-10	1034+001	06/18.86
3206-50	VW-HYI	06/19.75
6306-32	NGC3379	06/20.51
2250-10	NGC346_3	06/21.39
2605-10	1159-035	06/22.13
7323-11	NGC6946	06/23.01
9208-10	MS0839.8	06/23.48
6142-10	M31S	07/00.46
5311-12	M67	07/01.09
3301-10	AO-CAS	07/01.97
4554-10	ZET-OPH	07/03.07
2102-10	KAP-CAS	07/03.83
4555-10	HD193682	07/04.51
4212-10	NGC2023	07/05.39
2559-10	CD-38_10	07/06.25
4410-10	VELA-P1	07/06.91
3410-10	RR-TEL	07/07.94
7343-11	1050+04	07/08.70
2257-10	SK-68137	07/09.48
2506-20	SW-MID	07/10.45
9202-10	AB1367	07/11.69
7323-12	NGC6946	07/12.56
9422-10	VCC530	07/13.28
8208-20	MKN3	07/14.47
3223-20	AM-HER	07/15.16
8202-22	NGC1068	07/15.91
3223-10	AM-HER	07/16.65
8415-12	1700+64	07/17.79
4445-10	CYGLP-P2	07/18.58
2577-10	RE1738	07/19.31
4473-10	CYGLP-11	07/20.11
8415-13	1700+64	07/20.84
2564-12	WOLF1346	07/21.65
3403-10	AG-DRA	07/22.34
2614-12	1424+535	07/22.86
5301-10	NGC0188	07/23.60

TABLE REF-4  
TARGET INDEX - TIME ORDER

ID	NAME	D/H MET
6108-10	M31W	08/00.89
9418-10	F563-V1	08/01.40
2239-10	48PER	08/02.56
3111-10	HD163296	08/03.48
3606-10	ALF-ORI	08/04.23
2217-10	P-CAR	08/05.10
2530-10	GD50	08/05.66
8116-22	NGC4151	08/06.43
3203-10	RW-TRI	08/07.01
7343-12	1050+04	08/07.60
6597-10	CARINA	08/08.74
5109-11	NGC6752	08/09.54
6102-10	NGC0185	08/10.34
5107-10	M13	08/11.04
6225-10	NGC4258	08/12.07
5302-10	NGC0752	08/13.11
9203-11	HER-CLUS	08/13.85
3120-10	AB-AUR	08/14.91
4560-10	HD207198	08/16.03
2223-10	CHI-OPH	08/17.14
3213-10	Z-CAM	08/17.99
2603-12	H1504+65	08/18.58
2567-20	GD394	08/19.13
8612-10	MKN421	08/19.75
4442-10	CYGLOOPD	08/20.61
8121-12	MKN279	08/21.35
3253-10	EM-CYG	08/22.07
8115-10	NGC3516	08/22.75
2945-10	1538+269	08/23.48
6598-10	HOLMBERG 2	09/00.08
6107-10	M31S2	09/01.32
6132-10	LEO-A	09/01.86
4563-10	HD216658	09/02.90
4549-10	HD161961	09/03.92
2317-10	HD93131	09/05.02
4460-10	VELA-H	09/06.26
8102-12	FAIRALL9	09/07.23
6310-31	M60	09/08.14
3206-40	VW-HYI	09/08.83
6310-32	M60	09/09.66
2268-10	NGC346_4	09/10.37
7343-13	1050+04	09/11.07
6271-11	NGC1291	09/11.88
9405-11	SA57	09/12.57
5108-12	M92	09/13.33
6235-12	M101A	09/14.04
4564-10	HD216898	09/14.99
3323-10	BET-LYR	09/16.05
2107-10	ALF-CAM	09/16.94
2222-10	48LIB	09/17.52
8612-20	MKN421	09/18.60
3204-12	EF-ERI	09/19.57
8535-12	Q1542+54	09/20.19
3430-10	BF-CYG	09/20.95
8535-13	Q1542+54	09/21.72
3232-20	WX-HYI	09/22.65
8424-10	3C273	09/23.41

ID	NAME	D/H MET
2707-12	KPD0005	10/00.18
6246-10	NGC4736	10/00.73
6402-10	NGC2366	10/01.98
1320-20	LUNA	10/02.37
3129-10	HD35929	10/03.38
2229-10	59CYG	10/04.42
3613-11	HR4049	10/05.57
4474-10	PUPAEAST	10/06.68
3206-30	VW-HYI	10/07.63
4429-10	SN1006	10/08.63
7407-10	NGC4631	10/09.90
5303-10	NGC7789	10/10.87
7107-10	M51	10/11.44
4807-10	CB_4	10/12.38
9101-11	COMA-CL	10/12.98
5304-10	NGC0752	10/13.93
9101-12	COMA-CL	10/14.50
6408-10	NGC1313	10/15.39
1205-10	MARS	10/15.99
2133-30	P-CYG	10/16.87
4547-10	RHOOPHAB	10/17.97
8115-20	NGC3516	10/18.84
8116-13	NGC4151	10/19.45
3404-10	CH-CYG	10/19.95
7350-11	NGC6090	10/20.62
3409-10	V1016CYG	10/21.33
7350-12	NGC6090	10/22.15
1201-10	VENUS	10/22.96
9302-11	AB1795	10/23.70
3405-12	RS-OPH	11/00.45
7309-10	NGC4214	11/01.12
6109-10	M33S	11/02.10
9428-10	UGC5675	11/02.74
4592-10	SK67-78	11/03.53
4511-10	SK66-19	11/04.22
4591-10	SK69-83	11/04.94
4511-20	SK66-19	11/05.65
4518-10	HD37903	11/06.96
4473-20	CYGLP-11	11/07.93
7350-13	NGC6090	11/08.82
1201-20	VENUS	11/09.65
8448-11	PG1351	11/10.30
2705-10	K1-16	11/11.08
7347-11	MRK66	11/11.75
6138-10	M32	11/12.76
9203-12	HER-CLUS	11/13.62
9399-10	NGC2300	11/14.54
9302-20	AB1795	11/14.98
4510-10	HD30870	11/16.08
0656-20	HD161056	11/16.79
0608-20	BET-UMA	11/17.79
2256-10	HD269896	11/18.86
4406-10	N49	11/19.80
2906-10	0242+132	11/20.58
6310-21	M60	11/21.15
3418-10	LMCS63	11/21.87
6353-30	M87	11/22.66



TABLE REF-4  
TARGET INDEX - TIME ORDER

ID	NAME	D/H MET
2210-10	HD269810	11/23.40
8122-10	NGC5548	12/00.15
6141-12	M31A	12/01.15
5105-10	M3	12/01.63
6259-10	NGC0925	12/02.67
1320-30	LUNA	12/03.32
4519-10	SK69-270	12/04.60
4593-10	SK67-90	12/05.44
4519-20	SK69-270	12/06.08
4455-10	LMC_0519	12/07.40
4415-10	N63A	12/08.40
8506-11	1211+143	12/09.32
4416-10	SN1987A	12/10.20
5403-10	N4	12/11.47
6198-10	LMC-BAR	12/12.08
4305-10	N70	12/13.01
4306-10	N51D	12/13.61
5201-12	47-TUC	12/14.26
6299-11	NGC1365	12/14.93
8310-12	CEN-A	12/15.49
5112-10	NGC6397	12/16.11
3818-10	A0535+26	12/16.66
4566-10	HD188220	12/17.52
3604-10	R-CRB	12/18.52
2828-10	HD57682	12/19.64
4429-20	SN1006	12/20.24
2269-10	NGC346_6	12/20.70
6310-22	M60	12/21.54
2282-10	HD5980	12/22.31
8506-12	1211+143	12/23.04
3264-10	AR-AND	12/23.90
8424-20	3C273	13/00.63
2254-10	SK-66169	13/01.39
9213-10	A779	13/01.95
6143-10	M31N2	13/02.97
6309-20	M89	13/03.57
2282-22	HD5980	13/04.45
4517-10	SK69-254	13/04.89
2401-10	ALF-HYI	13/05.84
4594-10	SK70-116	13/06.44
2702-10	LSV46-21	13/07.84
8116-23	NGC4151	13/08.45
2607-11	1707+427	13/08.96
4458-10	VELA-F	13/09.54
6299-12	NGC1365	13/10.52
6353-10	M87	13/11.19
6269-10	NGC1512	13/12.14
5116-10	OMG-CEN	13/12.84
2322-10	HD51854	13/13.93
2242-10	51OPH	13/14.71
2321-10	HD50562	13/15.58
3254-12	V3885SG	13/16.30
7407-20	NGC4631	13/17.23
2567-31	GD394	13/18.10
7347-12	MRK66	13/18.80
5195-10	NGC6218	13/19.61
6594-12	IC2574	13/20.07

ID	NAME	D/H MET
9496-10	BAADES	13/21.09
5110-10	NGC3201	13/21.87
3301-20	AO-CAS	13/22.74
4541-10	SIG-SCO	13/23.80
4509-10	HD29647	14/00.72
2224-10	66OPH	14/01.51
4460-20	VELA-H	14/02.34
2562-10	KUV1845	14/03.35
9302-12	AB1795	14/04.00
2567-32	GD394	14/04.78
6232-10	M63	14/05.47
7303-10	NGC3310	14/06.79
1320-50	LUNA	14/07.30
2265-10	XI-PER	14/08.16
4551-10	HD168625	14/09.10
3613-12	HR4049	14/10.03
4577-10	OMI-SCO	14/10.79
4477-10	PUPAOMG	14/11.47
4103-10	NGC1360	14/12.52
4455-20	LMC_0519	14/13.15
6271-12	NGC1291	14/13.95
4801-10	THUMPRNT	14/14.83
5102-10	NGC0362	14/15.42
5402-10	N11	14/16.04
6112-10	SMC-B	14/16.66
2320-10	HD51285	14/17.42
3324-10	NU-CEP	14/18.50
4542-12	HD147889	14/19.64
8448-12	PG1351	14/20.49
2607-12	1707+427	14/21.50
2514-10	GD140	14/22.18
3220-10	T-CRB	14/22.78

**TABLE REF-5  
TARGETS NOT IN SCIENCE PLAN**

ID Number	Name
0010-10	BD284211
0657-10	HD204827
0658-10	HD25443
2219-10	HD93250
2220-10	HD303308
2221-10	KAP-DRA
2241-10	4HER
2263-10	HD93204
2273-10	10CAS
2402-10	ETA-HOR
2551-10	PG0824
2609-11	G70D8247
2613-10	1520+525
2826-10	HD14633
2827-10	HD90087
2838-10	HD74273
2842-10	HD197419
2850-10	HD198820
2858-10	HD78005
2861-10	HD65904
2976-10	1400+388
3130-10	HD45677
3305-10	29CMA
3306-10	U-CEP
3412-11	AG-PEG
3414-10	R-AQR
3424-10	RW-HYA
3427-10	KX-TRA
3513-10	LAM-AND
3618-11	89HER
3806-10	A0538-66
4101-10	NGC246
4107-21	NGC2392
4204-10	HD44179
4207-10	ETA-CARH
4501-10	HD7252
4516-10	SK69-239
4528-10	HD96706
4529-10	HD98695
4530-10	HD99264
4531-10	HD99872
4532-10	HD111193
4533-10	HD114886
4535-10	HD120678
4536-10	HD120908
4537-10	HD129557
4539-10	HD141318
4543-10	HD147888
4587-10	SK69-280
4598-10	HD25594
4602-10	PHI2LUPI
4687-10	10LAC
4701-10	HH1
4703-10	HH43
4705-10	HH47
5111-10	NGC5024
5114-1	M15

ID Number	Name
5117-10	NGC0288
5198-01	NGC5286
5305-10	NGC1039
5313-01	NGC5822
5315-1	NGC2420
6105-10	M31
6113-10	SCULPTOR
6116-10	IC1613
6204-10	NGC0300
6243-10	NGC0613
6601-10	NGC0055
8140-11	MKN926
9102-11	A370
9301-10	AB262
9427-10	F561-01

**FIGURE REF-1  
ANNOTATED TARGET SHEET**

RA	rrr.rrrr	DEC	sdd.ddd	NAME	SAMPLE	ID	xyyy - z
120		150		180		210	240
90							270
60		30		0		330	300

HUT  
Spectrum and Observation Description

WUPPE  
Spectrum and Observation Description

**TABLE REF-6  
DESCRIPTION OF TARGET PAGE FIELDS**

RA Right Ascension (degrees) for IPS from SCIPLAN  
DEC Declination (degrees) from SCIPLAN  
NAME Target NAME\_1 from SCIPLAN  
ID Target ID xyy-z: xx = x.x = class (see Table REF-1),  
yy = target number, z = revisit number (different viewing constraints)

CHART Protractor roll scale every 10 deg around edge  
North up, East left  
Scale 1mm = 10 arcsec  
Size 120 x 160 mm = 20 x 27 arcmin  
Target mark - vertical  
HUT guide star mark - horizontal  
Format - half-tone negative print  
Optional: crowded-field blowup at lower right

OBSERVATION DESCRIPTION HUT and WUPPE supplied target data to  
help crew in improving observation

FIGURE REF-2  
OVERLAY

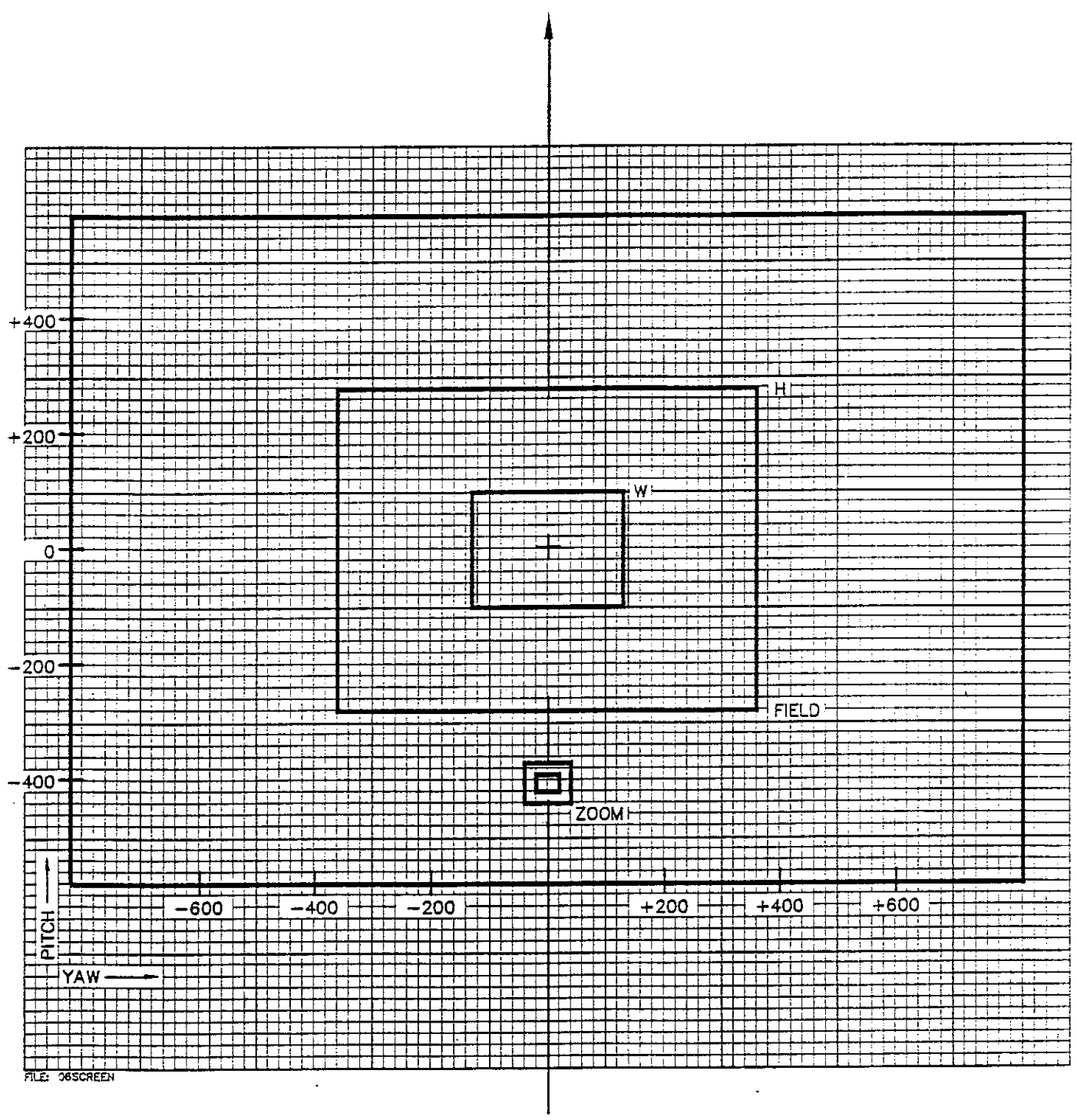


FIGURE REF-3  
OVERLAY - NO GRAPH

