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1922plate.proj.2508M

~INDEX~

	Page	Plate No.	No. Neb.	Position of Plate			Catlg.	
✓	2	7427 ✓	10	22	50	−62.5°	CPD	
	4	3339	1	3	31	−52.5°		
✓	6	6994 ✓	167	21	56	−62.5°	CPD	
✓	72	2746 ✓	2	21	48	−40.0°	CPD	
✓	72	2755 ✓	59	21	52	−40.0°	CPD	
	96	8570	56	5	24	−60.1°	CPD	120m
✓	118	7500 ✓	133	22	20	−57.5°	CPD	
✓	172	7413 ✓	3	17	50	−52.5°	CPD	
	174	7378 ✓	2	16	30	−52.5°	CPD	
✓	174	5914 ✓	2	13	50	−52.5°	CPD	
✓	174	9074 ✓	5	22	30	−52.5°	CPD	
✓	176	5994 ✓	1	15	20	−57.5°	CPD	
✓	178	9068 ✓	42	21	20	−57.5°	CPD	
✓	194	9071 ✓	6	22	00	−77.5°	CPD	
	196	8580	8	11	27	−59.8°	CPD	120m
	200	7033 ✓	54	0	20	−67.5	CPD	

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Book # 2

Nebulae discovered by D Hemmel

on A Plates –

aug 1 - 1922.

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Plate 7427 (Continued)

	Δx"	Δy"	Star	Star RA
54	-2.0	2.9	6402	23 4 43.1
	-2.3	-6.2	6403	23 4 44.5
	4Δx"			ΔX⁵
	-8.0			-17
	-9.2			-20
56	3.0	1.1	6402	"
	2.6	-8.1	6403	
	12.0			26
	10.4			22
56' ←	5.1	3.3	6402	"
	4.9	-5.9	6403	
	20.4			44
	19.6			42
57	19.2	0.8	6402	"
	18.9	-8.7	6403	
	76.8			164
	75.6			162
58	16.7	-7.7	4861	23 5 40.0
	-22.2	1.8	4873	23 11 38.5
	66.8			151
	-88.8			-201

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$\frac{4\Delta x''}{\cos\delta} = \Delta x^s = \sec\delta \, 4\Delta x''$

whole even seconds in neb RA

sec δ to two decimal places

Star Dec.	neb RA	neb. Decl.	
-62 9.9	23 4 26	−62° 7.0	eF .1′d 16M
-62 0.8	24	7.0	
sec δ 2.14	25	7.0	
	1 32	+8.1	
	23 5 57	−61° 58.9	
	23 5 9	−62° 8.8	cF : R bM a6 .15′@
	6	8.9	
	8	8.8	
	1 32	+8.2	
	23 6 40	−62° 0.6	
	23 5 27	−62° 6.6	cF bM .3′ by .1′ at 30°
	26	6.7	
	26	6.6	
	1 32	+8.2	
	23 6 58	−61° 58.4	
	23 7 27	−62° 9.1	pB 1′ by .3′ at 170°
	26	9.5	9ps bM spit?
	26	9.3	
	1 32	+8.2	
	23 8 58	−62° 1.1	
0 63 34.7	23 8 11	−63° 42.4	vF .2′d
5 63 43.6	9	41.8	
2.26	10	42.1	
	1 32	+8.2	
	23 9 42	−63° 33.9	

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59	−11.9	4.1	4326	23 10 13.5
	−18.0	−2.9	4328	23 11 1.5
	−47.6			−111
	−72.0			−168
60 Missing				
61	10.2	−12.7	6735	23 − 10 34.0
	1.1	23.9	6413	23 − 11 −52.4
	40.8			86
	4.4			9
62	2.9	0.6	4440	23 15 22.0
	−7.4	−15.1	4445	23 16 58.0
	11.6			26
	−29.6			−67
63	6.1	−15.3	4473	23 11 30.5
	−4.0	14.9	4341	23 13 4.0
	24.4			56
	−16.0			−36
			Plate 3339	
1	6.5	14.9	558	3 24 14.6
	−6.9	−4.5	570	3 25 43.7
				44.5
				−46.9

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64	35.8	23	8	23	-64°	31.7	vF, 2'd, 6M
64	28.7			24		31.6	
	Sep δ 2.33			24		31.6	
			1	32		+8.2	
		23	9	56	-64°	23.4	
61 –	41.0	23	12	0	-61°	53.7	pB, 1.1' by .2' at 110°
62 –	17.0			1	-61°	53.1	spin.
	2.12			0		53.4	
			1	29		+8.2	
		23	13	29	-61°	45.2	
63	40.1	23	15	48	-63°	39.5	vF, vS
63	24.6			51		39.7	
	2.25			50		39.6	
			1	29		+8.2	
		23	17	19	-63°	31.4	
63	43.6	23	12	26	-63°	58.9	vF, 2d, 16M
64	13.6			28	-63°	58.7	
	2.28			27		58.8	
			1	30		+8.2	
		23	13	57	-63°	50.6	
54°	15.1	3	24	59.3	-54°	0.2	vF, 6M, 1.2 by .1 at 45°
53°	55.9	3	24	56.8	-54°	0.4	spin –
	+2.6			58.		0.3	
				41		+53	
		hr 3	25	39	-53°	55.0	

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Plate no. 6994 Measured thru glass.

Plate No. 6994

1	4.1	9.9	6568	21 26 45
	−13.0	−9.2	6572	21 28 30.5
	16.4			34
	−52.0			−108
2	4.8	3.8	6568	
	−12.4	−15.8	6572	
	19.2			40
	−49.6			−103
3	18.9	1.9	6568	
	1.4	−17.7	6572	
	75.6			158
	5.6			12
4	0.2	19.1	6245	21 24 535
	−13.9	−23.1	624	21 26 586
	0.8			2
	−55.6			−121
5	4.3	16.9	6245	
	−10.0	−23.5	6248	
	17.2			37
	−40.0			−87

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61	23.9	21 26 40	−61°	14.0	v F .2'd R	
61	4.7	42		13.9		
2.08		41		14.0		
		1 55		+ 6.5		
		21 28 36	−61°	7.5		
			−61°	20.1	v F .2'd R	
2.08		21 26 46		20.5		
		48		20.3		
		47		+ 6.5		
		h 1 55	−61°	13.8		
		21 28 42				
2.09		21 28 44	−61°	22.0	v F .2'd R	
		42		22.4		
		43		22.2		
		1 54		+ 6.6		
		21 30 37	−61°	15.6		
62	56.9	21 24 55.5	−62°	37.8	v F d b .3'd	i R
62	14.5	58.		37.6		
2.17		57		37.7		
2.18		1 57		+ 6.5		
		21 26 54	−62°	31.2		
2.18		21 25 30	−62°	38.0	F .4'd R	16 M
		32		38.0		
		31		38.0		
		1 57		+ 6.5		
		21 27 28	−62°	31.5		

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6	15.1 −20.9 (60.4 −83.6)	2.1 9.0	4683 4694	21 23 9.0 21 28 33.0 136 −189
8	30.1 −5.6 (120.4 −22.4)	−4.9 1.9	4683 4694	273 −51
7	0.8 ~~13.7~~ −18.7 ✓ 3.2 ~~−14.6~~ ✓ ~~−54.8~~	0.8 10.9	4688 4695	21 25 59.0 21 28 50.0 7 ✓ ~~−122~~ ✓ −166.8
9	0.8 0.0 3.2 0.0	16.0 −10.1	4155 4694	21 26 24.5 21 28 33.0 7 0
10	10.0 −7.8 40.0 ✓ −31.2 ✓	−9.1 8.3	4159 4161	21 31 51.0 21 34 32.0 94 ✓ −73 ✓

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63	47.4	21	25.25	-63°	45.3	vF .2d
63	34.5		24	-63°	45.5	
	2.26		24		45.4	
			1 59		+6.5	
		21	27 23	-63°	38.9	
		21	37 42	-63°	52.3	eF ob .1d
			42	-63°	52.6	
	2.27		42		52.4	
			1 58		+6.6	
		21	29 40	-63°	45.8	
63	20.2	21	26 6	-63°	19.4	vF .2d st cl p
63	30.3		46		19.4	
	2.23	21	26 3		19.4	(~~Setting a little 2nd.~~)
			4		+6.5	
			1 59	-63°	12.9	
		21	28 3			
64	20.1	21	28 35	-64°	4.0	eF eS
63	54.0		33	-64	4.1	
	2.29		34		4.0	
			1 59		+6.6	
		21	30 33	-63°	57.4	
64	42.5	21	33 25	-64°	51.6	cF .4d qbM
64	59.4		33 19		51.1	
	2.35		22		51.4	
			1 58		+6.7	
		21	35 20	-64°	44.7	

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N.G.C 7096	19.9	-8.0	4155	21 28 28.5
	-2.0	141.1	4159	21 31 50.1
	79.6			185
	-8.0			-19
11	21.1	10.9	4155	21 28 28.5
	-16.1	-11.0	4701	21 34 12.5
	84.4			193
	-64.4			-147
12	2.8	4.1	4696	21 30 6.0
	-5.1	-28.0	4698	21 31 14.0
	11.2			25
	-20.4			-46
13	3.3	8.2		
	-4.9	-24.0		
	13.2			30
	-19.6			-44
14	18.2	-15.2	6244	21 28 21.5
	-1.0	2.9	4698	21 31 14.0
	72.8			161
	-4.0			-9

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64	20.1	21 31 .34	-64° 28.1	pB 1d qbM	
64	42.5	31	28.4		
	2.32	32	28.2	NGC	
		1 59	+ 6.6		
		21 33 31	-64° 21.6		
64	20.1	21 31 42	-64° 9.2	vF ,4by ,2at 120°	
63	58.8	46	-64° 9.8		
	2.29	44	9.5		
		1 59	+ 6.6		
		21 33 43	-64° 2.9		
63	39.0	21 30 31	-63° 34.9	eFeS	
63	6.9	28	34.9		
	2.25	30	34.9		
		1 58	+ 6.6		
		21 32 28	-63° 28.3		
		21 30 36	-63 30.8	vF ,5'd qbM	
		30 30	30.9		
	2.24	33	30.8		
		1 58	+ 6.6		
		21 32 31	-63° 24.2		
62	46.7	21 31 2	-63° 3.9	vF ,2'd qbM	
63	6.9	5	-63° 4.0		
	2.21	4	4.0		
		1 58	+ 6.6		
		21 33 2	-62° 57.4		

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15	14.7	-7.0	6248	21 28 21.5
	-5.1	11.2	4698	21 31 14.0
	58.8			129
	-20.4			-45
16	141.9	8.7	6246	21 26 58.6
	-16.3	2.0	6253	21 31 37.1
	59.6 ✓			128 ✓
	-73.2 ✓			-157 ✓
17	2.6	-0.3	6574	21 32 30.5
	-5.1	12.3	6576	21 33 32.5
	10.4			21
	-20.4			-42
18	-1.1	-27.0	6574	21 32 30.5
	-4.0	8.0	6575	21 32 53.0
	-4.4			-9
	-16.0			-33
19	2.7	-29.1	6574	
	-0.1	5.9	6575	
	10.8			23
	-0.4			-1

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5	62	4f.7	21	30	31	-62°	55'.7	eF eS			
	63	6.9			29	-62	55'.7				
		2.20			30		55.7				
				1	56		+ 6.6				
			21	32	26	-62°	49.1				
	62	14.5	21	29	7	-62°	5'.8	eF eS			
	62	6.0		29	0		6'.0				
		2.14			7		5.9				
				1	56		+ 6.6				
			21	31	0	-61°	59 3				
5	61	0.1	21	32	51.5	-61°	0'.4	vF , 8'by .2' at 40°			
5	61	12.7			50	-61°	0'.4				
		2.06			51		0.4				
				1	53		+ 6.7				
			21	34	44	-60°	53 7				
5	61	0.1	21	32	21.5	-61°	27'.1	eF .1'd			
	61	3.5+0			20		27'.0				
		2.09			21		27.0				
				1	54		+ 6.6				
			21	34	15	-61°	20.4				
			21	32	21.5	-61°	29'.2	eF .3'd			
					20		29'.1				
		2.10			21		29.2				
				1	54		+ 6.6				
			21	34	15	-61°	22.6				

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20 & 21 defects

22	14.2	10.8	6253	21 31 37.1	6
	−5.1	0.9	6570	21 34 22.5	6
	56.8			121	
	−20.4			−43	
23	15.1	7.0	6253		
	−4.2	−3.0	6570		
	60.4			129	
	−16.8			−36	
24	0.4	−15.7	6253	21 31 37.1	6
	−4.0	25.9	6255	21 32 14.0	6
	1.6			3	
	−16.0			−35	
27	7.8	−26.8	6253		
	3.0	15.8	6255		
	31.2 ✓			68 ✓	
	12.0 ✓			26 ✓	
26	−7.1	−11.2	6264	21 37 2.1	6
	−12.0	12.8	6265	21 37 40.8	6
	−28.4			−62	
	−48.0			−104	

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62	8.0	21	33	38	−61°	59.2	eF eS bM
61	58.4			39	−61°	59.3	
	2.13			38		59.2	
			1	53		+6.7	
		21	35	31	−61°	52.5	
		21	33	46	−62°	1.0	eF eS
				46	−62°	1.4	
	2.13			46		1.2	
			1	55		+6.7	
		21	35	41	−61°	54.5	
62	8.0	21	31	40	−62°	23.7	eF R .2'd
62	50.0			39		24.1	
	2.16			40		23.9	
			1	56		+6.6	
		21	33	36	−62°	17.3	
		21	32	45	−62°	34.8	eF .2'd R 16M
				40		34.2	
	2.17			42		34.5	
			1	55		+6.7	
		21	34	37	−62°	27.8	
62	93.2	21	36	0	−62°	34.4	eF eS 16M
62	47.4		35	57		34.6	
	2.17		35	58		34.5	
			1	55		+6.7	
		21	37	53	−62°	27.8	

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25	10.8 −14.9 43.2 − 59.6	3.4 −13.5 ~~−17.9~~	4700 6265	21 33 565 21 37 41.8 95 −131
30	1.9 −24.1 7.6 −96.4	−2.1 −18.0 ~~−11.0~~	4700 6265	17 −213
31	9.1 ~~−16.2~~ ~~11.1~~ 36.4 − 64.8	4.8 −11.0	4700 6265	80 −143
46	24.7 −1.0 ~~+2.1~~ 98.8 − 4.0	12.1 −3.7	4700 6265	216 − 9
2E	0.1 −6.8 0.4 −27.2	6.9 −5.8	4699 4700	21 32 54.0 21 33 56.5 1 −60

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63	3.0	21	35	32	-62° 59.6	eF .9'by .1' at 50°
62	47.4		35	30	-62 59.9	spin. bM
	2.20			31	59.8	
			1	55	+6.7	
		21	37	26	-62° 53.1	
		21	34	13	-63° 5.1	eF eS bM
			34	8	-63° 5.4	
	2.21			10	5.2	
			1	57	+6.7	
		21	36	7	-62° 58.5	
		21	35	16	-62° 58.2	eF eS bM
			35	18	-62° 58.4	
	2.20			17	58.3	
			1	55	+6.7	
		21	37	12	-62° 51.6	
					-62° 50.9	eF .2' by .1' at 60°
		21	37	82	-62° 51.1	
	2.19		37	32	51.0	
				32	+6.8	
			1	54	-62° 44.2	
		21	39	26		
63	15.2	21	32	55	-63.0 F.3	eF eS
63	3.0		32	56	8.8	
	2.22			56	8.6	
			1	57	+6.7	
		21	34	53	-63° 1.9	

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29	3.8	9.0	4699	21 32 54.0
	-3.0	-3.6	4700	21 33 56.5
	15.2			34
	-12.0			-27
32	8.9	8.3	4701	21 34 17.5
	-33.0	3.8	4709	21 40 21.0
	35.6			81
	-132.0			-300
33	9.3	8.0	4701	
	-32.1	2.8	4709	
	37.2			84
	-128.4			-291
34	8.0	7.1	4701	
	-33.3	1.8	4709	
	32.0			73
	-133.2			-302
35	17.9	-1.5	4701	
	-23.9	-6.9	4709	
	71.6			163
	-95.6			-218

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63	15.2	21	33	28	−63° 6′.2	eFeS
63	3.0		33	29	6′.6	
	2.21			28	6.4	
			1	57	+ 6.7	
		21	35	25	−62° 59.7	
63	56.8	21	35	33	−63° 50′.5	eeF eS
63	53.5		35	28	−63° 49′.7	
	2.27			30	50.1	
			1	56	+ 6.7	
		21	37	26	−63° 43.4	
		21	35	36	−63° 50′.8	eF .15′d
			35	37	−63° 50′.7	
	2.27			36	50.8	
			1	56	+ 6.7	
		21	37	32	−63° 44.1	
		21	35	25	−63° 51′.7	eeF eS
			35	26	−63° 51′.7	
	2.27			26	51.7	
			1	56	+ 6.7	
		21	37	22	−63° 45.0	
		21	36	55	−64° 0′.3	eeF eS
			36	50	−64° 0′.4	
	2.28			52	0.4	
			1	58	+ 6.7	
		21	38	50	−63° 53.7	

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36	25.9	−6.0	4701	21 34 12.5
	−15.9	−11.8	4709	21 40 24.0
	103.6 ✓			237 ✓
	−63.6 ✓			− 146 ✓
42	20.8	5.9	4701	
	−21.0	0.4	4709	
	83.2			189
	− 84.0			− 191
37	9.1	−15.1	4167	21 38 7.0
	−8.1	3.1	4170	21 40 49.0
	36.4			86
	− 32.4			− 76
38	2.0	10.0	4174	21 41 35.9
	−8.1	− 9.2	4176	21 43 8.2
	8.0			18
	− 32.4			− 75
39	5.1	10.0	4174	
	−4.4	− 9.2	4176	
	20.4 ✓			47 ✓
	− 17.6 ✓			− 40 ✓

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63 58.8	21 38 .9		−64°	4.8		ee F eS
63 53.5	38 2		−64°	5.3		
2.29	6			5.0		
1 57				+6.8		
	21 40 3		−63°	58.2		
	21 37 21		−63°	52.9		eF .15′ d
	37 17			53.1		
2.27	19			53.0		
1 56				+6.7		
	21 39 15		−63°	46.3		
64 30.1	21 39 33		−64°	45.2		vF .2′ d
64 46.3	39 33			45.2		
2.35	33			45.2		
1 57				+6.8		
	21 41 30		−64°	38.4		
64 21.9	21 41 54		−64°	11.9		eF eS bM
64 25	41 53			11.7		
2.30	54			11.8		
1 56				+6.8		
	21 43 50		−64°	5.0		
	21 42 23		−64°	11.9		eF .2′ by .1 at 40°
	42 28			11.7		
2.30	26			11.8		
1 56				+6.8		
	21 44 22		−64°	5.0		

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39' ←	9.8	−7.1	4778	21 41 21.0
	−2.1	6.3	4176	21 43 8.2
	39.2			89
	−8.4			−19
40	4.0	−5.0	4186	21 45 22.0
	−1.6	8.1	3968	21 46 11.6
	16.0			38
	−6.4			−15
41	−1.3	−7.0	4705	21 38 8.5
	−15.0	−5.1	4708	21 40 10.4
	−5.2'			−12"
	−60.0'			−135"
43	5.8	5.7	4708	21 40 10.4
	−10.3	0.4	4719	21 42 33.1
	23.2			52
	−41.2			−92
44	8.2	4.6		
	−7.9	−0.8		
	32.8			73
	−31.6			−71

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63	46.4	21	42	50	−63°	55.5	eF .1d RR
64	25		42	49	−63°	56.2	
	2.27		42	50		55.8	
			1	54		+6.9	
		21	44	44	−63°	48.9	
64	54.7	21	46	0	−64°	59.7	eF 1'by.1' at 90°
65	7.7		45	57	−64°	59.6	
	2.37		45	58		59.6	
			1	55		+6.9	
		21	47	53	−64°	52.7	
63	28.8	21	~~38~~ 37	~~20~~ 56	−63°	35.8	eFeS bM a/m.+
63	30.7		37	55		35.8	
	2.25		37	56		35.8	
			1	56		+6.8	
		21	39	52	−63°	29.0	
63	30.7	21	41	2	−63°	25.0	eF eS bM
63	25.4		41	1		25.0	
	2.23		41	2		25.0	
			1	55		+6.8	
		21	42	57	−63°	18.2	
		21	41	23	−63°	26'.1	vF .1d R
			41	22		21'.2	
	2.24		41	22		23.6	
			1	55		+6.8	
		21	43	17	−63°	16.8	

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45	7.8 −1.7 31.2 − 6.8	9.9 11.1	4719 4720	21 4/2 33.1 21 4/3 54/8 69 −15
45' ←	7.1 −2.0 28.4 − 8.0	17.8 19.1	4719 4720	63 − 18
47	12.0 −5.9 48.0 − 23.6	−5.0 8.8	6264 6266	21 37 2.1 21 39 39.4 104 − 51
48	~~7.1~~ ~~2.1~~ −22.8 ~~8.14~~ ~~25.11.~~ −91.2	4.0 4.1	6262 6267	21 35 44.7 21 39 59.2 ~~60.4~~ ~~+8~~ − 194
49	3.0 −12.1 12.0 − 48.4	0.2 −2.8	6586 6590	21 3F 57.0 21 41 1.1 25 − 100

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63 25.4		21 43 42	-63°	5.5	eF R ,1d bM	
63 26.9		43 40		5.8		
	2.21	41		5.6		
		1 54		+6.9		
		21 45 35	-62°	58.7		
		21 43 36	-63°	7.6	vF ,15'd ; R	
		43 37		7.8		
	2.21	36		7.7		
		1 54		+6.9		
		21 45 30	-63°	0.8		
62 23-2		21 38 46	-62°	28.2	vF ,15'd R	
62 36.4		38 48		27.6		
	2.17	47		27.9		
		1 54		+6.8		
		21 40 41	-62°	21.1		
62 4.5		21 36 ~~45~~ 3	-62°	0.5	eF eS a/m *	
62 4.8		21 36 45 ✓		0.7		
	2.13 ✓	45		0.6		
		1 53		+6.7		
		21 38 40	-61°	53.9		
61 7.8		21 39 22	-61°	7.6 ✓	eF eS 16 M	
61 4.9		39 21		7.7		
	2.07	22		7.6		
		1 52		+6.8		
		21 41 14	-61°	0.8		

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N.G.C. 7124	8.7	-3.1	6586	21 38 57.0
	-6.5	-6.2	6590	21 41 1.0
	34.8			72
	-26.0			-54
50	9.7	1.4	7510	21 41 4.0
	-10.9	22.0	7515	21 43 49.5
	38.8			79 ✓
	-43.6			-89
51	12.3	-0.1	7510	
	-8.0	20.1	7515	
	49.2			100
	-32.0			-65
52	3.8	3.2	7515	21 43 49.5
	-21.0	-3.9	7524	21 47 6.0
	15.2 ✓			31 ✓
	-84.0			-173 ✓
53	7.1	0.9	6587	21 39 1.0
	-5.9	0.2	6589	21 41 1.0
	28.4			59
	-23.6			-49

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1922phae.proj.2308M

61	7.8	21	40	9	-61° 10.9′	B .6′ by .2′ at 70°
61	4.9		40	7	11.1	6M spin.
	2.08		40	8	11.0	
			1	52	+6.8	N.G.C.
		(21	42	0	-61° 4.2′)	
60	36.0	21	42	23	-60° 34.6′	eF eS 1E at 60°
60	56.3		42	20	34.3	
	2.04		42	22	34.4	
			1	51	+6.8	
		21	44	13	-60° 27.6	
		21	42	44	36.1	eF eS 1E at 60°
			42	45	36.2	
	2.04		42	44	36.2	
			1	51	+6.9	
		21	44	35	-60° 29.3	
60	56.3	21	44	21	-60° 53.1	eF eS bM Dst.
60	49.1		44	15	53.0	S 2.3′
	2.06		44	18	53.0	
			1	50	+6.9	
		21	46	8	-60° 46.1	
61	24.6	21	40	10	-61° 23.7′	pF .3′ d qbM.
61	24.0		40	12	23.8	
	2.09		40	11	23.8	
			1	52	+6.8	
		21	42	3	-61° 17.0	

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1922phae.proj.2308M

54	11.0	−3.7	65 & 67	21 39 11.0
	−2.2	−4.2	65 & 69	21 41 1.0
	44.0			89
	−8.8			−18
55	13.8	−0.1	65 & 67	
	0.2	−0.8	65 & 69	
	55.2			112
	0.8			2
N.G.C. 7125	6.3	7.1	6567	
	−6.9	6.8	6589	
	25.2			51
	−27.6			−56
56	11.0	17.2	65 & 67	21 40 37.0
	−16.1	6.0	6593	21 44 29.0
	44.0			92
	−64.4			−135
57	11.1	16.9	65 & 67	4
	−16.0	5.5	6593	
	44.4			93
	−64.0			−134

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19229hcc.proj.2500M

60	24.6	21 40 40	-60° 28 3	eF .3'by.05' at 45°
60	24.0	40 43	28.2	defect?
	2.03	42	28.2	
		1 57	+6.8	
		21 42 33	-60° 21.4	
		21 41 3	-60° 24.7	eF .3'by.2' at 40°
		41 3	24.8	
	2.03	3	24.8	
		1 51	+6.8	
		21 42 54	-60° 18.0	
		21 40 2	-60° 17.5	vB 3.0'by1.8'at 90°
		40 5	18.2	gpsbM 2br "R"
	2.02	4	17.8	spir.
		1 51	+6.8	N.G.C.
		(21 41 55	-60° 11.0)	
61	50.7	21 42 9	-61° 33.5	vF .2'd R np of 2
61	39.2	42 14	33.2	
	2.10	12	33.4	
		1 52	+6.8	
		21 44 4	-61 26.6	
		21 42 10	-61° 33.8	vF .2d R sf of 2
		42 15	33.7	
	2.10	12	33.8	
		1 52	+6.8	
		21 44 4	-61 27.0	

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1922phae.proj.2308M

58	24.0	16.0	6568	21 4037.0
	−3.4	4.9	6593	21 4429.0
	96.0			202
	−14.6			−31
59	4.1	10.7	6568	
	−23.1	−0.6	6593	
	16.4			35
	−92.4			−195
60	6.1	9.0	6568	
	−21.4	−2.1	6593	
	24.4			51
	−85.6			−181
61	10.0	6.1	6568	
	−17.2	−5.0	6593	
	40.0			84
	−68.8			145
62	9.4	4.0	6568	
	−18.1	−7.1	6593	
	37.6			79
	−72.4			−153

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1922phae.proj.2308M

61	50.7	21	43	59	-61° 34.7	vF .5'd qpsbM
61	39.2		43	58	-61° 34'.3	
	2.10			58	34.5	
			1	51	+ 6.9	
		21	45	49	-61° 27.6	
		21	41	12	-61° 40'.0	pF .5'by .1' at 70°
			41	14	-61° 39'.8	spin
	2.11			13	39.9	
			1	52	+ 6.8	
		21	43	5	-61° 33.1	
		21	41	28	-61° 41'.7	F .3'd qbM vIE at 0°
			41	28	-61° 41'.3	
	2.11			28	41.5	
			1	52	+ 6.8	
		21	43	20	-61° 34.7	
		21	42	1	-61° 44'.6	vF .6'by .1' at 60°
			42	4	-61° 44'.2	spin.
	2.11			2	44.4	
			1	52	+ 6.8	
		21	43	54	-61° 37.6	
		21	41	56	-61° 46'.7	F bM .3'by .1' at 135°
			41	56	-61° 46'.3	
	2.11			56	46.5	
			1	52	+ 6.8	
		21	43	48	-61° 39.7	

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1922phae.proj.2308M

62' ←	9.9	3.7	6588	21 40 37.0
	−17.9	−7.9	6593	21 44 29.0
	39.6			84
	−71.6			−152
63	5.2	−0.8		
	−22.2	−11.9		
	20.8			44
	−88.8			−188
64	−0.9	−6.8	6588	21 40 37.0
	−2.0	14.8	6270	21 40 48.2
	−3.6			−8
	−8.0			−17
65	1.2	−13.1	6588	
	0.1	8.0	6270	
	4.8			10
	0.4			1
66	0.9	−13.1	6588	
	−0.2	8.1	6270	
	3.6			8
	−0.8			−2

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1922phae.proj.2308M

61	50.7	21	42	1	−61°	47.0	F .1d 9bM
61	39.2		41	57		47.1	
	2.12		41	59		47.0	
			1	52		+6.8	
		21	43	51	−61°	40.2	
		21	41	21		51.5	vF 9bM
			41	21		51.1	
	2.12			21		51.3	
			1	52		+6.8	
		21	43	13	−61°	44.5	
61	50.7	21	40	29	−61°	57.5	eF .1d bM
62	12.0	21	40	31	−61°	57.2	
	2.13			30		57.4	
			1	52		+6.8	
		21	42	22	−61°	50.6	
		21	40	47	−62°	3.8	eF .1d bM
			40	49	−62°	4.0	
	2.13		40	48		3.9	
			1	54		+6.8	
		21	42	42	−61°	57.1	
		21	40	45	−62°	3.8	eF .1d bM
			40	46	−62°	3.9	
	2.13			46		3.8	
			1	54		+6.8	
		21	42	40	−61°	57.0	

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67	−4.9	−19.7	6588	21 40 37.0
	−5.8	1.5	6270	21 40 41.2
	−19.6			−42
	−23.2			−50
68	5.0	−18.3	6588	
	3.9	3.0	6270	
	20.0			43
	15.6			33
69	11.9	−0.2	6270	21 40 48.2
	−2.3	25.9	6271	21 42 51.2
	47.6			102
	−9.2			−20
70	4.9	−8.9	6270	
	−9.3	17.5	6271	
	19.6			42
	−37.2			−80
71	13.0	−14.0	6270	
	−1.1	12.1	6271	
	52.0			112
	−4.4			−10

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61 50.7	21 39 55	-62° 10.4	eF .1' by .05' at 0°	
62 12.0	39 58	10.5		
2.14	56	10.4		
	1 54	+6.8		
	21 41 50	-62° 3.6		
	21 41 20	-62° 9.0	v.F .3' by .1' at 60°	
	41 21	9.0		
2.14	20	9.0		
	+1 54	+6.8		
	21 43 14	-62° 2.2		
62 12.0	21 42 30	-62° 12.2	v.F .07'd qbM	
62 37.9	42 31	12.0		
2.14	30	12.1		
	1 53	+6.8		
	21 44 23	-62° 5.3		
	21 41 30	-62° 20.9	F .1' by .1' at 135°	
	41 31	20.4	qbM. spin.	
2.15	30	20.6		
	1 54	+6.8		
	21 43 24	-62° 13.8		
	21 42 40	-62° 26.0	eF .1'd qpsbM	
	42 41	25.8		
2.16	40	25.9		
	1 53	+6.9		
	21 44 33	-62° 19.0		

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1922phae.proj.2308M

72	10.1	−25.1	6270	21 40 41.2
	−4.1	0.9	6271	21 42 51.2
	40.4			88
	−16.4			−36
73	0.9	−6.2	6266	21 39 39.4
	−21.1	−4.9	6271	21 42 51.2
	3.6			9
	−84.4			−184
74	9.9	−7.2	6266	
	−12.2	−5.9	6271	
	39.6			86
	−48.8			−106
75	9.0	−9.5	6266	
	−13.0	−8.0	6271	
	36.0			79
	−52.0			−114
76	10.1	−8.6	6266	
	−12.0	−7.0	6271	
	40.4			88
	−48.0			−105

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62	12.0	21 42 16	-62	37.1	vF .07'cl gbM	
62	37.9	42 15		38.8		
	2.17	16		38.0		
		1 53		+6.8		
		21 44 9	-62°	31.2		
62	36.4	21 39 48	-62°	42.6	F .2by.1at.10° bM	
62	37.9	39 47		42.8		
	2.18	48		42.7		
		1 54		+6.8		
		21 41 42	-62°	35.9		
		21 41 5	-62°	43.6	eFeS	
		41 5		43.8		
	2.18	5		43.7		
		1 54		+6.8		
		21 42 59	-62°	36.9		
		21 40 58		45.9	vF .1'd R gbM	
		40 57		45.9		
	2.19	58		45.9		
		1 54		+6.8		
		21 42 52	-62°	39.1		
		21 41 7		45.0	vF .1d R gbM	
		41 6		44.9		
	2.18	6		45.0		
		1 54		+6.8		
		21 43 0	-62°	38.2		

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77	13.2	−10.1	6266	21 39 39.4
	−8.9	−8.7	6271	21 42 51.2
	52.8			116
	−35.6			−78
78	13.0	−8.8	6266	
	−9.2	−7.0	6271	
	52.0			113
	−36.8			−80
79	13.1	−8.9	6266	
	−9.1	−7.1	6271	
	52.4			114
	−36.4			−79
80	17.0	−12.0	6266	
	−5.1	−10.3	6271	
	68.0			149
	−20.4			45
81	19.2	−11.7	6266	
	−2.9	−10.0	6271	
	76.8			168
	−11.6			−25

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62	36.4	21 41 33	−62° 46.5′	vF .1d R 9b M	
62	37.9	41 33	46.6′		
	2.19	41 33	46.6		
		1 54	+6.8		
		21 43 27	−62° 39.8		
		21 41 32	45.2′	eF :1d	
		41 31	44.9′		
	2.18	32	45.0		
		1 54	+6.8		
		21 43 26	−62° 38.2		
		21 41 33	45.3′	eFeS	
		41 32	45.0′		
	2.18	32	45.2		
		+1 54	+6.8		
		21 43 26	−62° 38.4		
		21 42 8	48.4′	vF .4′ by .2′ at 25°	
		42 6	48.2′		
	2.19	7	48.3		
		1 53	+6.8		
		21 44 0	−62° 41.5		
		21 42 27	48.1′	eF eS vlb M	
		42 26	47.9′		
	2.19	26	48.0		
		1 53	+6.8		
		21 44 19	−62° 41.2		

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1922phae.proj.2308M

82' ←	7.1	−1.9	6271	21 42 57.2
	−18.6	−23.8	6278	21 46 31.7
	28.4			62
	−74.4			−162
82	9.2	5.8	6271	
	−16.5	−13.4	6278	
	36.8			80
	−66.0			−143
83	5.0	11.0	6271	
	−18.0	−11.0	6278	
	32.0			69
	−72.0			−156
84	−4.3	−16.8	6593	21 44 29.0
Accepted as NN 44 on H 6994	−18.2	20.0	6278	21 43 31.7
	−17.2 ✓			−37 ✓
	−72.8 ✓			−154 ✓
85	10.1	−14.9	4720	21 43 54.8
	−15.9	−2.0	4729	21 47 47.4
	46.4			91
	−63.6			−144

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1922phae.proj.2308M

62	37.9	21	43	53	-62° 39.8	vF ,1'd R
62	15.7		43	50	39.5	
	2.18			52	39.6	
			1	53	+6.9	
		21	45	45	-62° 32.7	
		21	44	11	-62° 29.1	vF .4' by .1' at 5° defect?
			44	8	29.1	
	2.17			10	29.1	
			1	53	+6.9	
		21	46	3	-62° 22.2	
		21	44	0	-62° 26.9	eF .2d qbM
			43	56	26.7	
	2.16		43	58	26.8	
			1	53	+6.9	
		21	45	51	-62° 19.9	
61	39.2	21	43	52	-61° 56.0	vF .1'd
62	15.7		40	58	-61 55.7	
	2.13				55.8	
	2.12	2				
63	26.9	21	45	26	-63° 41.8	vF .3' by .1' at 135°
63	39.8	21	~~50~~	11	41.8	
	2.26		~~45~~	23	41.8	
			45	24	+6.9	
			1	54		
		21	47	18	-63° 34.9	

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f6	14.0	−7.9	4720	21 43 54.8
	−12.0	5.1	4729	21 47 47.4
	56.0			122
	−48.0			−104
f7	26.1	−14.5	4720	
	0.0	−1.6	4729	
	104.4			228
	0.0			0
f8	−0.3	−13.9	7523	21 46 56.0
	−1.4	3.9	7524	21 47 8.0
	−1.2			−2
	−5.6			−11
f9*				
90	3.9	−12.8	7523	
	2.7	5.0	7524	
	15.6			32
	10.8			22
92	11.1	5.1	6278	21 46 31.7
	0.0	−8.0	6282	21 46 5.1
	44.4			95
	0.0			0

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63	26.9	21	45	57	−62°	34.8	eF eS
63	39.8	−21	~~49~~ 46	31		34.7	
	2.17		116	3		34.8	
			46	0		+ 6.9	
			1	52	−62°	27.9	
		21	47	52			
		21	47	43		41.4	eF .3'd iF susp.
			47	47		41.4	
	2.18			45		41.4	
			1	52		+ 7.0	
		21	49	37	−62°	34.4	
60	31.7	21	46	56	−60°	45.6	vF .2'd
60	49.1		46	57	−60°	45.2	
	2.05			56		45.4	
			1	50		+ 6.9	
		21	48	46	−60°	38.5	
		21	47	30	−60°	44.5	eF .2'd
			47	30	−60°	44.1	
	2.05			30		44.3	
			1	49		+ 6.9	
		21	49	19	−60°	37.4	
62	15.7	21	48	7.0	−62°	10.6	vF .2'd
62	12.7		48	5.1		10.7	
	2.14			6.0		10.6	
			1	52		+ 7.0	
		21	49	58	−62°	3.6	

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93	7.0 -7.4 28.0 -29.6	-2.1 11.9	6284 6286	21 41 54.2 21 50 57.6 61 -64
94	5.4 -35.3 21.6 -141.2	3.1 -1.1	4732 4745	21 49 4.9 21 55 3.9 48 -313
95	6.0 -35.0 24.0 -140.0	10.5 6.1	4732 4745	53 -310
96	12.3 ~~-25.7~~ ~~-23.7~~ 49.2 ~~-94.8~~ -141.8	2.6 -1.9	4732 4745	109v ~~210v~~ -254.8
97*				
97' ←	21.0 -19.9 84.0 -79.6	9.3 5.0	4732 4745	186 -176

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✓

62	28.3	21 49 55		−62° 30′4	vF	1 f by 1 at 120°
62	42.4	49 54		30.5		spin
	2.17	54		30.4		
		1 51		+7.0		
		21 − 51 − 45		−62° 23.4		
63	18.2	21 49 53		−63.0 15.1	eF .3d	v16M
63	13.3	49 51		14.4		
	2.22	52		14.8		
		1 53		+7.0		
		21 51 45		−63° 7.8		
		21 49 58		7.7	eF	eS
		49 54		7.2		
	2.21	56		7.4		
		1 53		+7.0		
		21 51 49		−63° 0.4		
		21 50 54 ✓		15.6	vF	eS
		~~51 54~~ ✓		15.2		
	2.22	50 49				
		52		15.4		
		1 53		+7.0		
		21 52 45		−63° 8.4		
		21 52 11		8.9	eF .5by 1 at 90°	
		52 8		8.3	9psbM	
	2.21	10		8.6		
		1 52		+7.0		
		21 54 2		−63° 1.6		

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1922phae.proj.2308M

100	27.1	0.7	4732	21 49 4.9
	-13.7	-3.9	4745	21 55 3.9
	108.4			242
	-54.8			-122
101	+33.9	1.7	4732	
	~~-6.8~~			
	~~+71.0~~	-2.8	4745	
	+135.6			+301
	~~68.0~~			~~151~~
	-27.2			-60.3
103	1.1	-4.1	47444	2134 45.7
	-9.3	13.9	4747	2156 19.4
	4.4			10
	-37.2			-84
104' ←	5.2	-7.9	47444	
	-5.1	10.2	4747	
	30.8			47
	-20.4			-46
103' ←	11.8	-11.0	47444	
	0.9	7.0	4747	
	47.2			107
	3.6			8

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63.	18.2	21 53 7	-63° 17.5	eF eS bM	
63	13.3	53 3	17.2		
	2.23	5	17.4		
	2.22	1 52	+7.1		
		21 54 57	-63° 10.3		
		21 54 6	16.5	eF 12d gbM	
		~~52 33~~	16.1		
		21 54 3	16.3		
	2.22	4	+7.1		
		1 52	-63° 9.2		
		21 55 56			
63	33.3	21 54 56	-63° 37.4	eF 13d 1/2 at 90°	
63	51.3	54 55	37.4	susp.	
	2.25	56	37.4		
		1 52	+7.1		
		21 56 48	-63° 30.3		
		21 55 33	-63° 41.2	eF eS	
		55 33	41.1		
	2.26	33	41.2		
		1 51	+7.1		
		21 57 24	-63° 34.1		
		21 56 33	44.3	eF eS gbM	
		56 27	44.3		
	2.26	30	44.3		
		1 57	+7.1		
		21 58 21	-63° 37.2		

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104	4.6	-18.8	47444	21 54 45.7
	-6.7	-0.7	47447	21 56 19.4
	18.4			42 ✓
	-26.8			-61 ✓
91	3.7	-3.0	6597	21 47 25.5
	-30.0	-13.2	7533	21 51 53.5
	14.8			31 ✓
	-120.0			-250 ✓
106	14.8	10.5	6597	
	-16.1	0.1	7533	
	59.2			122
	-72.4			-149
107	14.9	-9.8	6597	
	-16.0	-0.7	7533	
	59.6			123
	-72.0			-148
108	19.3	9.1	6597	
	-13.7	-1.0	7533	
	77.2			154 ✓
	-54.8			-110 ✓

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63	33.3	21	55	28	-63°	52.1	eF .2d gpsbM
63	31.3		55	18		52.0	
	2.27			33		52.0	
			1	51		+7.1	
		21	57	24	-63°	44.9	
61	9.4	21	47	57	-61°	12.4	vF .1d gbM
60	59.3		47	44	-61°	12.5	
	2.08			50		12.4	
			1	50		+7.0	
		21	49	40	-61°	5.4	
		21	49	28	-60°	58.9	eF .1d g bM
			49	25		59.4	
	2.06			26		59.2	
			1	49	°	+7.0	
		21	51	15	-60°	52.2	
		21	49	29	-61°	0.2	eF .1d gbM
			49	26	-61°	0.0	
	2.06			28		0.1	
			1	50		+7.0	
		21	51	18	-60°	53.1	
		21	50	0	-60°	0.3	vF .1d gbM
			50	4	-60°	0.3	
	2.00			2		0.3	
			1	49	°	+7.0	
		21	51	51	-59°	53.3	

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1922phae.proj.2308M

109	26.2 − 6.4 104.8 − 25.6	6.7 − 3.3	6597 7533	21 47 25.5 21 51 53.5 217 − 53
108' ←	16.0 − 2.8 64.0 − 11.2	19.4 5.1	6602 6609	21 49 3.0 21 51 39.3 132 − 23
109' ←	14.2 − 4.1 56.8 − 16.4	16.2 2.0	6602 6609	118 − 34
110	3.8 − 15.1 15.2 − 60.4	14.5 0.1	6602 6609	32 − 126
111	6.8 − 12.1 27.2 − 48.4	10.8 − 3.6	6602 6609	57 − 101

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1922phae.proj.2308M

61	9.4	21 51 3	-61° 2.7	eF .8'by .1' at 45°	
60	5 9.3	51 1	-61 2'.9		
	2.07	2	2.8		
		1 50	+7.0		
		21 52 52	-60° 55.8		
61	28.9	21 51 15	-61° 9.5	eF .3'by .1' at 45°	
61	15.0	51 16	9'.9		
	2.07	16	9.7		
		1 50	+7.0		
		21 53 6	-61° 2.7		
		21 51 1	-61° 12.7	eF .2'by .05' at 90°	
		51 5	13'.0		
	2.08	3	12.8		
		1 50	+7.0		
		21 52 53	-61° 5.8		
		21 49 35	14.4	eF .1' gbM	
		49 33	14.9		
	2.08	34	14.6		
		1 50	+7.0		
		21 51 24	-61° 7.6		
		21 50 0	18'.1	eF eS	
		49 58	18'.6		
	2.08	49 59	18.4		
		1 50	+7.0		
		21 51 49	-61° 11.4		

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1922phae.proj.2308M

112	7.6 −11.0 30.4 ✓ −44.0 ✓	3.8 −10.5	6602 6609	21 49 3.0 21 51 39.3 64 ✓ −92 ✓
113	13.5 −21.6 54.0 ✓ −86.4 ✓	2.0 −19.4	6605 6615	21 50 10.0 21 55 1.7 114 ✓ −182 ✓
114	26.5 − 8.2 106.0 − 32.8	1.8 −12.8	6605 6615	224 − 69
117	30.9 − 4.0 123.6 − 16.0	15.1 − 6.2	6605 6615	260 − 34
115	−3.1 − 5.9 −12.4 − 23.6	−28.0 − 3.0	7537 6614	21 54 37.5 21 55 12 ✓ −26 − 49 ✓

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1922phae.proj.2308M

61	28.9	21	50	7	-61° 25.1	eF .1α
61	15.0		50	7	25.5	
	2.09			7	25.3	
			1	50	+7.0	
		21	51	57	-61° 18.3	

61	48.5	21	52	4	-61° 46.5	vF .2'by.1' at 70°
61	27.0		52	0	-61° 46.4	gbM
	2.11			2	46.4	
			1	50	+7.0	
		21	53	52	-61° 39.4	

		21	53	54	39.7	eF eS
			53	53	39.8	
	2.11			54	39.8	
			1	49	+7.1	
		21	55	43	-61° 32.7	

		21	54	30	33.4	eF eS 16M
			54	28	33.2	
	2.10			29	33.3	
			1	49	+7.1	
		21	56	18	-61° 26.2	

60	46.1	21	54	12	61° 14.1	eF eS
61	11.0		54	13	14.0	
	2.08			12	14.0	
			1	49	+7.1	
		21	56	1	-61° 6.9	

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1922phae.proj.2308M

116	−2.2	−25.9	7537	21 54 37.5
	−5.0	− 0.9	6614	21 55 1.2
	− 8.8			− 18
	−20.0			− 42
127' ←	− 2.3	−18.7	7573	
	− 5.1	6.5	6614	
	− 9.2			− 19
	−20.4			− 43
115' ←	− 6.0	−17.9	7537	
	− 8.2	7.2	6614	
Accepted as N.M. 45	−24.0 ✓			− 50 ✓
	−32.8 ✓			− 68 ✓
116' ←	− 9.3	−18.0	7537	
	−11.9	7.1	6614	
	−37.2			− 77
	−47.6			− 99
115" ←				
	#5 −8.1	− 0.8	7537	
	−10.9	24.2	6614	
	−32.4			− 66
	−43.6			− 89

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1922phae.proj.23083M

5	60	46.1	21	54	20	−61° 12′.0	vF ;15′d qbM
	61	11.0		54	19	11′.9	
		2.08			20	12.0	
				1	49	+7.1	
			21	56	9	−61° 4′.9	
			21	54	19	−61° 4′.8	eF eS. a/m, *
				54	18	5′.5	
		2.09			18	5.2	
				1	49	+7.1	
			21	56	7	−60° 58.1	
			21	53	48 ✓	−61° 4′.0	eF eS a/m *
		2.07 ✓		54	53	3′.8	
					50	3.9	
			21	53	21	−61° 4′.1	vF ;1′d qbM
				53	22	3′.9	
		2.07			22	4.0	
				1	49	+7.1	
			21	55	11	−60° 56.9	
			21	53	32	−60° 46′.9	eF ;1d /bM
				53	32	−60° 46′.8	
		2.05			32	46.8	
				1	48	+7.1	
			21	55	20	−60° 39.7	

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116" ←	−9.10	−2.1.	.9537	21 54 37.5
	−11.7	23.0	6614	21 55 1.2
	−36.0			−74
	−46.8			−96
118	−0.8	2.2	6293	21 55−12.5
	−17.2	−9.0	6300	21 57 34.5
	−3.2			−7
	−68.8			−148
124.	−9.9	−2.9	6293	
	−7.0	−14.0	6300	
Aceptadas N.N. 46	−39.6 ✓			−86 ✓
	−28.0 ✓			−60 ✓
98	0.0	−9.9	62ff	21 51 38.1
	−33.5	3.3	6297	21 56 30.5
	0.0			00
	−134.0			−295
99	8.0	−10.2	62f8	0
	−25.5	2.9	6297	
	32.0			70
	−102.0			−224

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1922phae.proj.2308M

60	46.1	21	53	23	-60° 48.2	eF id bM
61	11.0		53	25	48.0	
	2.05			24	48.1	
			1	48	+ 7.1	
		21	55	12	-60° 41.0	
62	23.6	21	55	5	-62° 21.4	vF id. gbM
62	12.3		55	6	21.3	
	2.15		55	6	21.4	
			1	50	+ 7.1	
		21	56	56	-62° 14.3	
		21	53	46	-62° 26.5	vF .5' by .1' at 90°
			56	34	26.3	
	2.16	2		40	26.4	2
62	44.9	21	51	38	-62° 54.8	eF eS bM
62	5f.2		51	35	54.9	
	2.20			36	54.8	
			1	51	+ 7.0	
		21	53	27	-62 47.8	
		21	52	48	-62° 55.1	eF eS bM
			52	46	55.3	
	2.20			47	55.2	
			1	56	+ 7.1	
		21	54	37	-62° 48.1	

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1922phae.proj.2308M

102	9.9	-8.4	6288	21 51 381
	-23.4	4.9	6297	21 56 305
	39.6			87
	-93.6			-205
119	16.7	-2.7	6288	
	-16.8	10.6	6297	
	66.8			146
	-67.2			-147
120	21.1	-4.9	6288	
	-12.1	8.2	6297	
	84.4			185
	-48.4			-106
122	30.1	-18.9	6288	
	-3.1	-5.2	6297	
	120.4			266
	-12.4			-27
121	1.2	-6.3	6294	21 55 146
	-2.0	3.1	6295	21 55 432
	4.8			10
	-8.0			-17

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1922phae.proj.2308M

62	44.9	21	53 .5	−62°	53.3	eF eS bM
62	58.2		53 5		53.3	
	2.19		53 5		53.3	
			1 50		+7.1	
		21	54 55	−62°	46.2	
		21	54 4		47.6	F .4d qpsbM
			54 3		47.6	
	2.19		4		47.6	
			1 50		+7.1	
		21	55 54	−62°	40.5	
		21	54 43		49.8	F .5d qpsbM
			54 44		50.0	
	2.19		44		49.9	
			1 50		+7.1	
		21	56 34	−62°	42.8	
		21	56 4	−63°	3.8	eF .1d
			56 3	−63°	3.4	
	2.21		4		3.6	
			1 51		+7.1	
		21	57 55	−62°	56.5	
62	26.4	21	55 25	−62°	34.7	eF eS bM almost
62	37.9		55 26		34.8	
	2.17		26		34.8	
			1 50		+7.1	
		21	57 16	−62°	27.7	

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1922phae.proj.2308M

123*				
125	6.1	−22.3	6616	21 55 51.5
	4.1	16.1	6617	21 56 8.8
	24.4			51
	16.4			34
126	3.1	−12.9	6616	
	1.8	25.8	6617	
	12.4			26
	7.2			15
127	1.8	−2.9	6616	21 55 51.5
	−32.9	4.0	6620	22 0 37.2
	7.2			15
	−131.6			−272
128	5.9	−2.6	6616	
	−29.0	4.3	6620	
	23.6			49
	−116.0			−240
129	20.2	−1.5	6616	
	−14.2	5.8	6620	
	80.8			167
	−56.8			−118

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1922phae.proj.2308M

61	4.1	21	56	43	−61°	26.4	eF .1′d qbM
61	42.3		56	43	−61°	26.2	
	2.09			43		26.3	
			1	49		+ 7.1	
		21	58	32	−61°	19.2	
		21	56	18		17.0	pF 1.3′ by .1′ at 45°
			56	24		16.5	spin
	2.08			21		16.8	
			1	49		+ 7.1	
		21	58	10	−61°	9.7	
61	4.1	21	56	6	−61°	7.0	eF .2′ by .1′ at 130°
61	10.9		56	5	−61°	6.9	
	2.07			6		7.0	
			1	49		+ 7.1	
		21	57	55	−60°	59.9	
		21	56	41	−61°	6.7	pB .2′d qbM
		21	56	37		6.6	
	2.07			39		6.6	
			1	49		+ 7.1	
		21	58	28	−60°	59.5	
		21	58	39	−61°	5.6	eF eS
			58	39		5.1	
	2.07			39		5.4	
			1	48	0	+ 7.2	
		22	0	27	−60	58.2	

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1922phae.proj.2308M

130	-7.8	-21.7	6620	22 0 37.2
	-21.0	22.2	6623	22 2 31.5
	-31.2			-66
	-84.0			-176
131	-11.8	-27.1	6620	
	-24.9	16.9	6623	
	-47.2			-99
	-99.6			-209
(132)	5.8	-26.9	6620	
	-12.5	22.9	6623	
	23.2			49
Accepted as NN. 47	-50.0			-105
133	5.5	18.0	6305	21 59 44.0
	-13.9	-0.9	6623	22 2 31.5
	22.0			47
	-55.6			-118
134	6.4	7.2	6305	
	-12.4	-11.1	6623	
	27.2			58
	-51.2			-110

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1922phae.prqj.2308M

2	61	10.9	21	59	31	-61°	32.6	eF ild qbM
	61	54.3		59	36		32.1	
		2.10			34		32.4	
			h	1	48	°	+7.2	
			22	1	22	-61	25.2	
			21	58	58		36.0	vF 12d qbm
				59	3		37.4	
		2.10		59	1		37.7	
			h	1	48		+7.2	
			22	0	49	-61°	30.5	
							(50 & 59.2)	
			21	58	59		31.8	vF 15d 16M
			22	1	22			
				0	47		31.4	
		2.10	21	59	3		31.6	
	62	12.8	22	0	35	-61°	54.8	eF RR 12d qbM
	61	54.3		0	34	-61°	55.2	
		2.12			34		55.0	
				1	48		+7.2	
			22	2	22	-61°	47.8	
			22	0	46	-62°	3.6	eF RR 12d qbM
				0	42	-62°	5.4	
		2.14			44		5.5	
				1	49		+7.2	
			22	2	33	-61°	58.3	

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1922phae.proj.2308M

135	6.8	6.1	6305	21 59 46.0
	−12.7	−12.5	6623	22 2 31.5
	27.2			58
	− 50.8			− 109
136	20.7	10.2	6295	21 55 43.2
	− 8.9	− 6.5	6306	21 59 59.1
	82.8			179
	− 35.6			− 77
137	6.0	− 0.1	4747	21 56 19.4
	2.9	− 8.7	4748	21 56 46.6
	24.0			54
	11.6			26
137' ←	9.4	2.3	4751	21 57 44.2
	−16.0	8.8	4756	22 1 46.1
	37.6			85
	− 64.0			− 144
138	12.3	13.1	3998	21 58 56.8
I.C. 5765	−1.9	− 8.1	4001	22 1 6.1
	49.2			117
	− 7.6			− 18

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1922phae.proj.2308M

62	12.4	22	0 46	−62.°	6.7	eF RR .2 d q b M
61	54.3		0 42	−62	6.8	
	2.14		44		6.8	
			1 49		+7.2	
		22	2 33	−61°	59.6	
62	37.9	21	58 42	−62°	27.7	eF .1 d 1.6 M
62	21.3		58 42		27.8	
	2.16		42		27.8	
			1 49		+7.2	
		22	0 31	−62°	20.6	
63	51.3	21	57 13	−63°	51.4	eF .6 b y .1 d t 120°
63	43.2		57 13		51.9	
	2.27		13		51.6	
			1 51		+7.1	
		21	59 4	−63°	44.5	
63.	36.9	21	59 9	−63°	34.6	eF .1 d. spir arms?
63	42.7		59 22		34.9	
	2.25		16		34.8	
			1 50		+7.2	
		22	1 6	−63°	27.6	
65	24.4	22	0 54	−65°	11.3	pF 1.6 y .1 d t 50°
65	30		0 48		11.1	spir
	2.38		51		11.2	
			1 53		+7.2	
		22	2 44	−65°	4.0	

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N.G.C. 7189	1.9	5.7	89.9f	21 58 56.8
	-12.2	-15.2	4001	22 1 6.1
	7.6			18
	-48.8			-117
N.G.C. 7191	-8.8	10.1	3998	
	-22.9	-10.9	4001	
	-35.2			-84
	-91.6			-218
139	-4.9	8.8	4217	22 1 2.4
	-5.0	-11.0	4218	22 1 3.2
	-19.6			-45
	-20.0			-46
140	0.1	14.8	4217	
	-0.1	-5.0	4218	
	0.4			1
	-0.4			-1
141	7.9	3.3	4217	
	7.5	-16.3	4218	
	31.6			73
	30.0			69

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1922phae.proj.2308M

65	24.4	21	39	15	-65°	18.7	B .8d gbM
65	3.6		39	9	-65°	18.2	
	2.39			12		18.4	
			1	53		+7.2	
		(22	1	5	-65°	11.2)	

N. 6. C

		21	57	33	-65°	14.3	pB 1.1'by.2' at 135°
	"		57	28		13.9	spin. spir
	2.38			30		14.1	
			1	54		7.1	
		(21	59	24	-65°	7.0)	

N.G.C.

64	20.0	22	0	17	-64°	11.2	vF .7'by.1' at 90°
64	0.6		0	17	-64°	16.6	spin
	2.30			17		39	
			1	52		+7.2	
		22	2	9	-63°	56.7	

		22	1	3		5.2	pF 3'by.2' at 165°
			1	2		5.6	spir? bM
	2.29		1	2		5.4	
			1	52		+7.2	
		22	2	54	-63°	58.2	

		22	2	15	-64°	16.7	vF .3'by.1' at 120°
			2	12		16.9	
	2.30			14		16.8	
			1	51		+7.2	
		22	4	5	-64°	9.6	

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1922phae.proj.2308M

142	12.1	−1.0	4755	22 1 30.9
	−5.2	11.0	4760	22 4 6.2
	48.4			108
	−20.8			− 46
142′ ←	0.1	16.7	4755	22 1 30.9
	−8.9	−14.7	6309	22 2 46.1
	0.4			1
	−35.6			− 79
143	9.6	7.2	6309	22 2 46.1
	−3.7	−2.9	6312	22 4 37.7
	38.4			84
	−14.8			− 32
144	10.7	−1.1	8307	2 2 0 8.1
	−17.1	5.2	6310	2 2 4 6.7
	42.8			92
	−68.4			− 147
145	26.9	−5.0	6307	
	−1.1	1.8	6310	
	107.6			232
	− 4.4			− 10

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1922phae.proj.2308M

V

63	19.2	22	3	19	-63° 20.2	pF .15d R 96M
63	31.0		3	20	-63° 20.0	
	2.23			20	20.1	
			1	49	+7.3	
		22	5	9	-63° 12.8	
63	19.2	22	1	32	-63° 2.5	cF .7'by .1' at 30° 16M
62	48.1		1	27	-63° 2.8	
	2.21			30	2.6	
			1	50	+7.2	
		22	3	20	-62° 55.4	
62	48.1	22	4	10	-62° 40.9	pB 2'by .1' at 50° st. att
62	30.0		4	6	-62° 40.9	sp.
	2.18			8	40.9	
			1	48	+7.3	
		22	5	56	-62° 33.6	
62	19.2	22	1	40	-62° 20.3	cF .2d-9ps 16M
62	25.5		1	40	-62° 20.3	
	2.15			40	20.3	
			1	48	+7.2	
		22	3	28	-62° 13.1	
		22	4	0	24.2	cF .2d
			3	57	23.7	
	2.16		3	38	24.0	
			1	48	+7.3	
		22	5	46	-62° 16.7	

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1922phae.proj.2308M

146	28.0	−3.1	6307	22 0 8.1
	0.1	3.5	6310	22 4 6.7
	112.0			242
	0.4			1
147	2.6	−2.1	6625	22 3 51.5
	−0.1	19.8	6627	22 4 15.5
	10.4			22
	−0.4			−1
148	12.1	−20.6	6631	22 6 59.0
	−4.9	4.1	6322	22 9 21.6
	48.4			104
	−19.6			−42
149	11.2	−24.0	6631	
	−5.6	0.8	6322	
	44.8			96
	−22.4			−48
150	−9.9	16.5	47741	22 10 13
	−11.9	−2.9	4776	22 10 18.6
	−39.6			−88
	−47.6			−106

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1922phae.proj.2308M

62	19.2	22	4	10	−62°	22.3	eF .15d			
62	25.5		4	8	−62°	22.0				
	2.16			9		22.2				
			1	48		+7.3				
		22	5	57	−62°	14.9				
61	27.1	22	4	14	−61°	29.2	eF eS R			
61	49.1		4	15	−61°	29.3				
	2.10			14		29.2				
			1	47		+7.3				
		22	6	1	−61°	21.9				
61	46.7	22	8	43	−62°	7.3	vF .1d 1Eat 135° 6M			
62	11.1		8	40	−62°	7.0				
	2.14			42		7.2				
			1	46		+7.4				
		22	10	28	−61°	59.8				
		22	8	35	−62°	10.7	F .2 by .1 at 175° ? 16M			
			8	34	−62°	10.3				
	2.14			34		10.5				
			1	46		+7.4				
		22	10	20	−62°	3.1				
63	28.4	22	8	33	−65°	11.9	eFeS			
63	9.4		8	33		12.3				
	2.22			33		12.1				
			1	48		+7.4				
		22	10	21	−63°	4.7				

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1922phae.proj.2308M

150' ←	18.0	-3.0	4760.	22 4 6.2
	-17.1	3.8	4771	22 9 22.7
	72.0			162
	-68.4			-154
150" ←	20.5	-7.1	4760	
	-14.9	-0.6	4771	
	82.0			184
	-59.6			-134
			Plate 2748	
1	7.2	-14.1	14366	21 31 56.0
	-10.9	20.2	14453	21 33 31.6
	28.8			37
	-43.6			-57
2	2.1	0.1	14453	21 33 31.6
	-13.9	-9.0	14462	21 34 51.8
	8.4			11
	-55.6			-73
			Plate 2755	
4	4.0	0.0	9005	21 33 56.3
	-18.1	-4.4	9009	21 35 49.6
	16.0			21
	-72.4			-93

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1922phae.proj.2308M

63	31.0	22	6	48	−63° 34.0′	vF .1′ gbM
63	37.5		6	49	33.7	
	2.25			48	33.8	
			1	49	+7.3	
		22	8	37	−63° 26.5′	
		22	7	10	−63° 38.1′	vF .1′ gbM
			7	9	38.1	
	2.25			10	38.1	
			1	49	+7.3	
		22	8	59	−63° 30.8	
39°	45.9	21	32	33	−40° 0.0′	pF .7′ by .2′ at 160° bM
40°	19.7		32	35	−39° 59.5′	spin
	1.30			34	−39° 59.8′	
			+1	33	+6.7	
		21	34	7	−39° 53.1	
40°	19.7	21	33	43	−40° 19.6′	pF .1′ by .1′ at 135° spin.
40°	10.0		33	39	−40° 19.0′	
	1.31			41	19.3	
			+1	34	+6.7	
		21	35	15	−40 12.6	
39	23.9	21	34	17	−39° 23.9′	cF .8′ by .1′ at 0° bM
39	19.4		34	16	23.8′	spin
	1.29			16	23.8	
			+1	33	+6.7	
		21	35	49	−39° 17.1	

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2/	18.1	12.1	9005	21 33 57.3	3
	-4.1	7.9	9009	21 35 49.6	3
	72.4			93	
	-16.4			-21	
3/	-1.6	5.9	9008	21 35 42.1	39
	-2.9	-25.9	9009	21 35 49.6	39
	-6.4			-8	
	-11.6			-15	
4/	3.2	19.8	9008		
	2.0	-11.8	9009		
	12.8			17	
	8.0			10	
IC 5728	-2.7	18.9	9008		
	-4.0	-12.7	9009		
	-10.8			-14	
	-16.0			-21	
5/	6.8	2.4	9012	21 36 24.1	3
	-19.9	5.1	9021	21 38 41.6	3
	27.2			35	
	-79.6			-103	

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3	39	93.9	21 35 29	-39°	11.8	F .7d gpsb M	
	39	19.4	35 29		11.5		
		1.29	29		11.6		
			+1 33		+6.7		
			21 37 2	-39°	4.9		
.1	39	50.9	21 35 34	-39°	45.0	F .2d b M	
26	39	19.4	35 35		45.3		
		1.30	34		45.2		
			1 33		+6.7		
			21 37 7	-39°	38.5		
			21 35 59	-39°	31.1	vF .2d	
			36 0		31.2		
		1.30	36 0		31.2		
			+1 33		+6.7		
			21 37 33	-39	24.5		
			21 35 28	-39°	32.0	pB .5d R b M	
			35 29		32.1		
		1.30	28		32.0		I.C.
			+1 33		+6.7		
			21 37 1	-39	25.3		
1	39	46.1	21 36 59	-39°	45.2	pF .6' by .15' at 45°	
6	39	50.3	36 59		45.2	spin	
		1.30	59		45.2		
			+1 33		+6.8		
			21 38 32	-39	38.4		

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6/	25.0 −1.7 10 0.0 − 6.8	1.2 3.5	9012 9021	21 36 24.1 21 38 41.6 130 − 9
7/	2.2 −16.1 8.8 −64.4	1.0 −15.1	9021 9024	21 38 41.6 21 40 16.6 11 −84
8/	6.5 −12.1 26.0 − 48.4	3.0 −13.1	9021 9024	 34 − 63
9/	6.9 −11.9 27.6 − 47.6	18.8 2.3	9021 9024	 36 − 62
10/	9.3 −10.1 37.2 − 40.4	−2.4 −1.8	9019 9023	21 38 23.1 21 40 2.0 48 − 52

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1922phae.proj.2300M

V

39	48.1	21	38	34	−39°	46.9	eF eS
39	50.3		38	33		46.8	
	1.30			34		46.8	
			+ 1	33		+6.8	
		21	40	7	−39°	40.0	
39	50.3	21	38	53	−39°	49.3	eF. 2d R
39	34.1		38	55		49.2	
	1.30			54		49.2	
			1	33		+6.8	
		21	40	27	−39°	42.4	
		21	39	16		47.3	eF eS a/m.*
			39	16		47.2	
	1.30			16		47.2	
			+ 1	33		+ 6.8	
		21	40	49	−39°	40.4	
		21	39	18	−39°	31.5	eF eS
			39	17		31.8	
	1.30			18		31.6	
			+ 1	33		+ 6.8	
		21	40	57	−39°	24.8	
39	4.9	21	39	11	−39°	7.3	eF .3d R b M
39	5.6		39	10		7.4	
	1.29			10		7.4	
			+ 1	33		+ 6.8	
		21	40	43.	−39°	0.6	

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1922phae.proj.2308M

11 MISSING 12 *				
13	4.5	-4.1	9026	21 41 8.2
	-1.1	4.1	9028	21 41 37.2
	18.0			23
	-4.4			- 6
14	10.6	1.8	9026	21 41 8.2
	-10.9	-6.1	9032	21 42 58.7
	42.4			55
	-43.6			- 57
15	14.0	-1.0	9025	21 40 27.6
	-5.1	-5.2	9029	21 42 4.2
	56.0			72
	-20.4			- 26
16	13.8	0.1	f314	21 41 3.8
	-0.9	2.9 ~~3.0~~	f318	21 42 16.8
	55.2			71
	-3.6			- 5
17	3.0	2.4	f320	21 42 54.3
	2.0	-5.2	14504 (CDM)	21 42 56.1
	12.0			15
	8.0			10

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1922phae.proj.2308M

39	39.4	21 41 31	−39°	43.5	eF eS	
39	47.9	41 31		43.8		
	1.30	31		43.6		
		+ 1 32		+ 6.9		
		21 43 3	−39°	36.7		
39	39.4	21 42 3	−39°	37.6	eF ;8'by.1' at 40°	
39	31.9	42 2		38.0	defect?	
	1.30	2		37.8		
		+ 1 32		+ 6.9		
		21 43 34	−39°	30.9		
39	13.1	21 41 40	−39°	14.1	vF 1'by.1' at 95°	
39	8.7	41 38		13.9	spin	
	1.29	39		14.0		
		+ 1 32		+ 6.9		
		21 43 11	−39°	7.1		
38	22.0	21 42 14	−38	21.9	pF .15'd 96M D* s 3'	
38	24.7	42 11		21.8		
	1.28	12		21.8		
		+ 1 32		+ 6.8		
		21 43 44	−38°	15.0		
38	1.8	21 43 9	−37°	59.4	vF .2'd	
37	54.0	43 8		59.2		
	1.27	8		59.3		
		+ 1 32		+ 6.9		
		21 44 40	−37°	52.4		

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1922phae.proj.2308M

18	16.0	−1.2	9029	21 42 4.2
	−1.0	−3.0	9034	21 43 40.7
	72.0			93
	− 4.0			− 5
19	13.8	14.8	9034	21 43 40.7
	− 3.7	− 6.9	f325	21 45 12.5
	55.2			71
	− 14.8			− 19
20	−1.1	8.0	f326	21 45 26.0
	−21.0	−13.0	f329	21 47 4.0
	−4.4			− 6
	− 84.0			− 107
21	7.0	3.1	9040	21 46 9.2
	−2.9	−12.1	9043	21 46 59.2
	28.0			36
	−11.6			− 15
22	6.6	5.3	9039	21 46 47.2
	− 0.1	− 7.1	9041	21 46 23.7
	26.4			34
	− 0.4			− 1

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1922phae.proj.2308M

39	8.7	21	43	37	-39° 9.9	eF .5 bg. 1 d + 130°
39	6.9		43	38	9.9	bi N
	1.29			38	9.9	
			+ 1	32	+6.9	
		21	45	10	-39° 3.0	
39	6.9	21	44	52	-38° 52.1	eF eS bM
38	45.6		44	53	-38° 52.5	
	1.28			52	52.3	
			1	32	+6.9	
		21	46	24	-38° 45.4	
38	22.0	21	45	20	-38° 14.0	pF .5 d gbM
38	1.1		45	17	14.1	
	1.27			18	14.0	
			1	32	+6.9	
		21	46	50	-38° 7.1	
39	19.9	21	46	45	-39° 16.8	eF eS bM
39	4.7		46	44	16.8	
	1.29			44	16.8	
			1	32	+7.0	
		21	48	16	-39° 9.8	
39	44.1	21	46	23	-39° 38.8	eF .1 d bM
39	31.4		46	22	-39° 38.5	
	1.30			22	38.6	
			1	32	+7.0	
		21	47	54	-39° 31.6	

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23	4.8	−10.2	9616	21 45 59.2
	−9.1	12.8	9619	21 47 10.7
	19.2			25
	−36.4			−48
24	8.6	11.4	9618	21 46 39.2
	−24.0	9.8	9622	21 49 29.2
	34.4			45
	−96.0			−126
26	19.0	10.0	9618	
	−13.7	6.1	9622	
	76.0			100
	−54.8			−72
27	27.2	−3.3	9618	
	−5.2	−7.1	9622	
	108.8			144
	−20.8			−27
25	6.1	−15.6	8329	21 47 4.0
	−1.2	13.7	8331	21 47 44.0
	24.4			31
	−4.8			−6

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V

40. 29.0	21	46	24	-40°	39.2	F .5'by.1' at 150° bM
40. 52.0		46	32		39.2	spin?
1.32✓			28		39.2	
		1	33		+ 7.0	
	21	48.	1	-40°	32.2	
40 31.4	21	47	24	-40°	20.0	F .2'by.1' at 0° 16M
40 27.7		47	23		19.9	
1.31			24		20.0	
		1	32		+ 7.0	
	21	48	56	-40°	13.0	
	21	48	19	-40°	21.4	F .2'd psb M
		48	17		21.6	
1.31			18		21.5	
		1	32		+ 7.0	
	21	49	50	-40°	14.5	
	21	49	3	-40°	34.7	vF .2'by.1' 45°
		49	2		34.8	~~defect~~
1.32			2		34.8	
		+ 1	32		+ 7.0	
	21	50	34	-40°	27.8	
38 1.1	21	47	35	-38°	16.7	vF .2'd
38 29.9		47	38		16.2	
1.27			36		16.4	
		1	31		+ 6.9	
	21	49	7	-38°	9.5	

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28	16.0	−0.1	f333	21 48 13.0
	−5.7	−6.8	8339	21 50 1.5
	64.0			82
	−22.8			−29
29	1.2	−2.1	f339	21 50 1.5
	−8.2	−1.9	f342	21 50 51.0
	4.8			6
	−32.8			−42
29	1.9	−1.2	f339	
	−7.9	−0.9	f342	
	7.6			10
	−31.6			−40
30	5.9	−9.0	9708	21 42 25.4
	−6.7	9.3	9712	21 43 28.9
	23.6		32	33.1
	−26.8		−36	−36.8
31	11.2	−1.2	9717	21 44 37.1
	−16.4	8.3	9348	21 47 5.2
	44.8			60
	−67.2			−91

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38	50.5	21	49	35	−38°	50.6′	pF gbM .6′by .1′at 10°
38	43.6		49	33	−38°	50.4′	" spin
	1.28			34		50.5	
			1	31		+7.0	
		21	51	5	−38°	43.5	
38	43.6	21	50	7	−38°	45.7′	cF 1′by .1′at 175° bM
38	44.0		50	9	−38°	45.9′	st. p .4′ spin. sp. of 2.
	1.28			8		45.8	
	1.34		1	31		+7.0	Prelim −38°)
		21	51	39	−38°	38.8′	
		21	50	12	−38°	44.8′	vF .8′by .1′at 30° spin.
			50	11	−38°	44.9′	n f of 2.
	1.28			12		44.8	
			1	31		+7.0	
		21	51	43	−38°	37.8′	
4	41	27.9	21	42	58.5	−41° 36.9′	vF RR .3′d 0?
	41	46.4	21	42	52.1	−41° 37.1′	
	1.34			55.3		37.0	
			+1	31.		+7.2	
		21	44	26	−41°	29.8	
1	41	59.8	21	45	37	−42° 1.0′	eF .1d bM
	42	9.7		45	34	−42° 1.4′	
	1.35			36		1.2	
			1	34		+7.1	
		21	47	10	−41°	54.1′	

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32	14.6	-3.1	9717	21 44 37.1
	-13.5	6.3	9348	21 47 5.2
	58.4			79
	-54.0			- 73
33	5.5	-12.5	9623	21 49 32.7
	-1.6	-1.0	9624	21 50 10.4
	22.0			29
	- 6.4			- 8
34	0.1	2.1	9630	21 51 19.7
	-7.0	-4.1	9631	21 51 56.8
	0.4			1
	-28.0			- 37
IC 5150	3.8	-6.9	9060	21 51 38.9
	0.5	1.9	9631	21 51 56.8
	15.2			20
	2.0			3
35	6.5	-8.5	9053	21 50 17.9
	-8.2	17.0	9059	21 51 36.9
	27.0			35
	-32.8			- 42

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	41	59.8	21	45	56	-42° 3.9	vF . 15"d 9 6 M
	42	9.7		45	52	-42° 3.4	
		1.35			54	3.6	
				1	34	+7.1	
			21	47	28	-41° 56.5	
7	40	44.2	21	50	2	-41° 0.7	eF 1'by.05' at 65°
7	40	59.8		50	2	0.8	spin.
		1.32			2	0.8	
				1	31	+7.1	
			21	51	33	-40° 53.7	
7	40	7.0	21	51	21	-40° 4.9	eF .2'by.1' at 165°
	40	0.8		51	19	4.9	
		1.31			20	4.9	
				1	32	+7.1	
			21	52	52	-39° 57.8	
7	39	52.2	21	51	58	-39° 59.1	cB 2.0 R vsbM.
7	40	0.8		51	59	-39° 58.9	* N ⊙ III
		1.30			58	59.0	
				(1	31)	+7.1	
			21	53	29	-39° 51.9	
7	39	17.7	21	50	53	-39° 26.2	eF .8'd R 9psbM
7	39	43.1		50	54	26.1	
		1.29			54	26.2	
				(1	31)	(+7.1)	
			21	52	25	-39° 19.1	

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36	13.9	−0.6	.9731	21 50 33.1
	−20.7	4.1	9736	21 53 35.6
	55.6			75
	−8 28			−111
37	3.8	−7.7	9635	21 52 36.4
	−16.1	−12.7	9637	21 54 16.4
	15.2			20
	−64.4			−85
42	17.5	3.2	9635	
	−2.1	−1.9	9637	
	70.0			92
	−8.4			−11
38	3.7	−2.0	9736	21 33 35.6
	−27.9	1.1	9739	21 56 22.1
	14.8			20
	−111.6			−150
39	11.7	−1.3	9736	
	−19.9	1.9	9739	
	46.8			63
	−79.6			−107

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1922phae.proj.2308M

V

41	34.8	21	51	48	-41°	35.4	pF .5 b4 .1 at 100°
41	39.9		51	45		35.8	spin
	1.34			46		35.6	
			1	32		+ 7.1	
		21	53	18	-41°	28.5	
40	24.3	21	52	56	-40°	32.0	eF eS bM
40	19.6		52	53		32.3	
	1.32			54		32.2	
			1	32		+ 7.1	
		21	54	26	-40°	25.1	
		21	54	8	-40°	21.1	vF eS
			54	7		21.5	
	1.31			8		21.3	
			1	32		+ 7.1	
		21	55	40	-40°	14.2	
41	39.9	21	53	55	-41°	41.9	eF eS
41	43.4		53	52		42.3	
	1.34			54		42.0	
			1	32		+ 7.1	
		21	55	26	-41°	34.9	
		21	54	38	-41°	41.2	pF 1.0 d R b5 bM
			54	35		41.5	
	1.34			36		41.4	
			1	32		+ 7.1	
		21	56	8	-41°	34.3	

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40 1	15.8	-0.9	9736	21 53 35.6	4
	-15.9	2.5	9739	21 56 22.1	4
	63.2			85	
	-63.6			-85	
41 1	12.3	-4.0	9733	21 52 19.6	4
	-1.9	28.0	9736	21 53 35.6	4
	49.2			65	
	-7.6			-10	
44 1	15.8	3.8	8347	21 52 15.1	3
	-10.1	7.1	8349	21 54 26.1	3
	63.2			80	
	-40.4			-52	
45 1	-3.0	31.0	8349	21 54 26.1	3
	-3.9	-15.3	14610 (CDM)	21 54 27.5	3
	-12.0			-15	
	-15.6			-20	
41 1	-0.9	31.5	8349		
	-1.6	-14.9	14610 (CDM)		
	-3.6			-5	
	-6.4			-8	

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41	39.9	21 55 1	-41° 40.8	vF .3'by .1' at 60°	
41	43.4	54 57	40.9		
	1.34	57 59	40.8		
		+1 32	+7.1		
		21 56 31	-41° 33.7		
41	4.2	21 53 24	-41° 12.2	eF .1d 16M	
41	39.9	53 26	11.9		
	1.33	25	12.0		
		1 32	+7.1		
		21 54 57	-41° 4.9		
38	29.0	21 53 35	-38° 25.2	pF .5'd R 0?	
38	32.6	53 34	25.3		
	1.37	34	25.4		
		1 31	+7.1		
		21 55 5	-38° 18.3		
1 38	32.6	21 54 11	-38° 1.6	pF .6'by .1' at 75° 6M	
5 37	46.3	54 8	-38° 1.6	Spin	
	1.27	10	1.6		
		1 31	+7.1		
		21 55 41	-37° 54.5		
		21 54 21	-38° 1.1	pF .15'd 6M	
		54 19	1.2		
	1.27	20	1.2		
		1 31	+7.1		
		21 55 51	-38° 54.1		

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1922phae.proj.2308M

46	3.0	14.7	f350	21 55 17.1
	-36.2	-4.7	f354	21 58 34.1
	12.0			15
	-144.8			- 184
47	9.0	21.9	f350	
	-30.1	2.4	f354	
	36.0			46
	-120.4			- 153
48	5.6	-6.1	f350	21 55 17.1
	-11.1	8.3	f351	21 56 43.1
	22.4			29
	-44.4			- 57
49	6.0	-8.5	9739	21 56 22.1
	-7.1	16.2	9374	21 57 32.2
	24.0			32
	-28.4			- 38
50	7.7	5.9	9739	21 56 22.1
	-4.1	-8.5	9741	21 57 25.6
	30.8			41
	-16.4			- 22

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1922phae.proj.2308M

38	34.0	21	55	32	-38° 19.3	F .5'd R 16 M
38	14.2		55	30	18.9	
	1.27			31	19.0	
			1	31	+ 7.1	
		21	57	2	-38° 11.9	
		21	56	3	-38° 12.1	F. 1.1 by .1 at 135°
			56	1	11.8	Spin
	1.27			2	12.0	
			1	30	+ 7.1	
		21	57	32	-38° 4.9	
38	34.0	21	55	46	-38° 40.1	eF .15'd. 16M
38	44.2		55	46	39.9	
	1.28			46	40.0	
			1	30	+7.1	
		21	57	16	-38° 32.9	
41	43.4	21	56	54	-41° 51.9	F R .2d 6M
42	10.1		56	54	-41° 51.9	
	1.34			54	51.9	
			1	32	+7.2	
		21	58	26	-41° 44.7	
41	43.4	21	57	3	41° 37.5	F .8d 6M
41	29.1		57	4	37.6	
	1.34			4	37.6	
			1	32	+ 7.2	
		21	58	36	-41° 30.4	

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51	11.5	−1.0	.9742	21 57 33.1
	−12.7	−18.1	9747	21 59 42.3
	46.0			61
	− 50.8			− 68
52	2.1	−2.2	.9075	21 58 39.2
	−10.0	0.8	9081	21 59 42.7
	8.4			11
	− 40.0			− 52
53	21.0	5.5	8358	21 58 59.3
	−6.8	− 7.5	8356	22 1 19.1
	84.0			108
	− 27.2			− 35
54	12.0	−11.9	8361	22 2 20.1
	−2.3	6.5	8363	22 3 10.1
	48.0			61″
	9.2			12″
55	6.8	−3.0	9088	22 6 45.2
	−6.9	20.1	9089	22 7 50.2
	24.0			31
	− 27.6			− 36

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V

41	20.8	21 58 34	-41° 21.4	cF .9d R	pSbM	
41	4.1	58 34	22.2			
	1.33	34	22.0			
		1 32	+7.2			
		22 0 6	-41° 14.8			
39	29.4	21 58 50	-39° 31.6	eF R .2d		
39	32.5	58 51	31.7			
	1.30	50	31.6			
		1 31	+7.1			
		22 0 21	-39° 24.5			
38	54.6	22 0 47	-38° 49.1	eF .5by.1' at 90°		
38°	41.4	0 44	48.9			
	1.28	46	49.0			
		1 30	+7.2			
		22 2 16	-38 41.8			
38	3.6	22 3 21	-38° 15.5	eF .3d'	gbM	
38	21.6	3 22	15.1			
	1.27	22	15.3			
		1 30	+7.3			
		22 4 52	-38° 8.0			
39	22.4	22 7 16	-39° 25.4	pF .3d bM		
39	45.6	7 14	25.5			
	1.29	15	25.4			
		1 30	+7.4			
		22 8 45	-39° 18.0			

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56	6.6	−12.9	.9758	22 6 27.3	4
	−10.0	15.0	9760	22 7 51.3	4
	26.4			35	
	−40.0			−53	
57	7.8	−13.1	£369	22 4 42.6	3
	3.0	10.2	£370	22 5 8.1	3
	31.2			40	
	12.0			15	
58	7.0	−16.6	£369		
	2.2	7.7	£370		
	28.0			36	
	8.8			11	
			Plate No. 8570		
1	~~16.3~~ ~~15.9~~ −2.2 ~~−1.9~~	~~−14.8~~ ~~−15.1~~ 10.7	398	4 58 58.5	61
N.G.C. 1796	65.2		402	5 1 33.0	61
	− 8.8			136	
				− 18	
2	1.3	9.1	377	5 5 1.8	60
N.G.C. 1824	−8.3	−6.9	424	5 6 10.5	59
	5.2			110	
	− 33.2			− 66	

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41	4.0	22 7 .2	-41° 16.9	F	.5d	gbM
41	31.7	6 58	16.7			
	1.33	7 0	16.8			
		1 31	+7.4			
		22 8 31	-41° 9.4			
38	31.2	22 5 22	-38° 44.3	pB	.3'by.2'	at 135°
38	54.8	5 23	44.6		spin	bM
	1.28	22	44.4			
		1 30	+7.3			
		22 6 52	-38° 37.1			
		22 5 18	-38° 47.2	pB	.7'by.2'	at 150°
		5 19	47.1		spin.	bM
	1.28	18	47.2			
		1 30	+7.3			
		22 6 48	-38° 39.9			
61	4.5-	5 1 14	-61° 19.3	pB	1.2'by.4'	at 115°
61	29.1	1 15	19.0		spin.	
	2.08	14	19.2			
		17	+2.2			
		5 1 31	-61° 17.0	O.K.		
60	2.6	5 5 12	-59° 53.5	pB	2.1'by.4'	at 160
59	46.6	5 12	-59° 53.5		spin.	
	1.99	12	53.5			
		21	+2.0			
		5 5 33	-59° 51.5			

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3	8.0	8.1	409	5 5 19.5	61
	−5.9	−15.9	413	5 7 14.5	61
	32.0			67	
	−23.6			−49	
4	15.7	−4.2	393	5 10 43.5	60
	−11.1	−0.9	401	5 14 22.5	60
	62.8			129	
	−44.4			−91	
5	9.0	−10.4	427	5 6 53.0	62
	−1.9	2.8	432	5 8 26.3	62
	36.0			78	
	−7.6			−16	
6	2.9	7.1	440	5 11 11.0	61
	0.3	−10.9	421	5 11 35.0	61
	11.6			25	
	1.2			3	
7	6.1	7.6	440		
	3.7	−9.4	421		
	24.4			52	
	14.8			32	

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61	29.2	5	6	26	-61° 21.1	cF 16M 1.2by .2 at 20°
61	5.3		6	25	21.2	st. rr spin
	2.09			26	21.2	
				17	+1.9	
		5	6	43	-61° 19.3	
60	51.7	5	12	53	60° 55.9	vF .4' d 6M
60	55.1		12	51	56.0	
	2.06			52	56.0	
				19	+1.7	
		5	13	11	-60° 54.3	
62	21.5	5	8	11	-62° 31.9	vF .2' d 6M
62	34.8		8	10	32.0	
	2.17			10	32.0	
				+14	+1.9	
		5	8	24	-62° 30.1	
62	7.7	5	11	36	-62° 0.6	eF .2' d 1E at 20° defect?
61	50.7		11	32	-62° 0.6	
	2.13			34	0.6	
				14	+1.8	OK.
		5	11	48	-61° 58.8	
		5	12	3	-62° 1.1	eF eS
			12	2	1.1	
	2.13			2	1.1	
				14	+1.7	
		5	12	16	-61° 59.11	

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8	~~7.7~~ ~~X~~ -5.0 ~~30.8~~ ~~40.8~~ -20.0	-5.7 -5.0	441 445	5 12 14.5 5 14 2.5 ~~66.0~~ ~~22~~ ✓ - 43
9	~~7.3~~ ~~2.3~~ -5.2 ~~9.2~~ -20.8	-2.1 -1.4	441 445	6207 ~~20~~ ✓ - 45
10	0.6 -15.5 2.8 -62.0	0.2 -8.2°	443 446	5 13 6.5 5 15 23.5 6 - 133
11	1.9 -14.2' 7.6 -56.4	3.7 ~~-4.8~~ ~~4.4~~	443 448	16 - 121
12	8.2 -7.8° 32.8 -31.6	0.8 -7.6°	443 446	70 - 68

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1922phae.proj.2368M

62	16.3	5	13	~~21~~ ~~37~~	-62°	22.0	cF R .3d	bM	
62	17.0		13	19	-62°	22.0			
	2.16			20		22.0			
				14		+1.7			
		5	13	34	-62°	20.3			
		5	13	~~17~~ ~~34~~	-62°	18.4	cF .5' by .1 a	+45°	
			13	17		18.4	Spin.		
	2.15			17		18.4			
				14		+1.7			
		5	13	31	-62°	16.7			
62	8.9	5	13	14	-62°	8.7	cF .2d R	bM	st. 9
62	0.9		13	11	-62°	8.9	sp. 8		
	2.14			12		8.8			
				14		+1.7			
		5	13	26	-62°	7.1			
		5	13	24	-62°	5.2	F .3d		
			13	23		5.7			
	2.14			24		5.4			
				14		+1.7			
		5	13	38	-62°	3.7			
		5	14	18	-62°	8.1	F .2d	bM	
			14	16		8.5			
	2.14			17		8.3			
				14		+1.7			
		5	14	31	-62°	6.6			

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1922phae.proj.2308M

13	8.1	-24.1	422	5 12 9.0
	-17.3	1.6	432	5 15 40.5
	32.4			68
	-69.2			-145
14	9.9	-19.7	422	
	-15.8	6.0	432	
	39.6			83
	-63.2			-133
15	~~8.4~~	-6.3	422	
	~~-17.0~~	~~19.6~~	432	
	~~12.8~~	~~13.3~~		
	32.6			68
	-68.0			-141
16	~~12.9~~	-11.1	422	
	~~-12.5~~	14.3	432	
	~~+17.0~~	~~19.1~~		
	51.6			108
	-51.2			-107
17	4.9	-8.3	401	5 14 22.5
	-12.1	5.7	437	5 16 41.0
	19.6			41
	-48.4			-100

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1922phae.proj.2308M

61	13.3	5	13	17	-61°	37.4	pF .2'd RbM
61	38.8		13	15	-61°	37.2	
	2.10			16		37.3	
				17		+1.7	
		5	13	33	-61	35.6	
		5	13	32	-61°	33.0	vF .2'd bM
			13	27		32.8	
	2.10			30		32.9	
				17		+1.7	
		5	13	47	-61°	31.2	
		5	13	17	-61°	19.6	eF .3'by .2'at 150°
			13	19		19.7	
	2.08			18		19.6	
				17		+1.7	
		5	13	35	-61°	17.9	
		5	13	57	-61°	24.4	vF .2'd bM
			13	53		24.5	
	2.09			55		24.4	
				17		+1.7	
		5	14	12	-61°	22.7	
60	55.1	5	15	3	-61°	3.4	eF .1'd bM
61	0.9		15	1	-61°	3.2	
	2.07			2		3.3	
				17		+1.7	
		5	15	19	-61°	1.6	

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1922phae.proj.2308M

18	~~-1.7~~ ~~7.7~~ -8.8 -6.8 ✓ ~~31.6~~ -35.2 ✓	21.0 -9.0	432 437	5 15 40.5 5 16 41.0 -14 ✓ ~~60~~ ✓ -73
19	3.5 ~~43.4~~ -3.8 14 ~~52.4~~ ✓ -15.2 ✓	13.1 -17.0	432 437	29 ✓ ~~40~~ ✓ -32
21	5.5 -2.9 22.0 -11.6	3.8 -4.0	441 444	5 17 14.5 5 18 25.5 ~~29~~ 47 -25
22	8.0 -0.2 32.0 -0.8	-1.0 -8.7	441 444	68 -2
23	1.8 -3.5 7.2 -14.0	10.4 -10.6	458 459	5 18 36.5 5 19 22.5 15 -30

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1922phae.proj.2308M

61	38.8	5	15	~~26~~ ~~16~~	-61°	17.8	eF 1.4 by 1' at 120°
61	8.9	5	15	28		17.9	defect?
	2.08			27		17.8	
				16		+1.6	
		5	15	43	-61°	16.2	
		5	~~16~~ 17	~~9~~ 30	-61°	25.7	vF eS gbM R
		5	16	9		25.9	
	2.09			9		25.8	
				16		+1.6	
		5	16	25	-61°	24.2	
61	30.8	5	18	1	-61°	47.0	F 1' by 1' at 60° gbsbM
61	43.0		18	1		47.0	
	2.12			1		47.0	
				16		+1.6	
		5	18	17	-61°	45.4	
		5	18	22	-61°	51.8	eF 1/2' bM
			18	24		51.7	
	2.12			23		51.8	
				16		+1.5	
		5	18	39	-61°	50.3	
62	30.6	5	18	51	-62°	20.2	eF eS gbM
62	9.9		18	52		20.5	
	2.15			52		20.4	
				+14		+1.5	
		5	19	6	-62°	18.9	

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1922phae.proj.2308M

20	-5.3	-5.9	445	5 18 44.5
	-7.7	14.0	446	5 18 59.0
	-21.2			-44 ✓
	-30.8			-64 ✓
24	4.0	6.3	446	5 18 59.0
	-0.1	-10.1	448	5 18 37.5
	16.0			34
	-0.4			-1
25	4.0	6.0	446	
	-0.1	-10.3	448	
	16.0			34
	-0.4			-1
26	-0.2	12.3	446	
	-4.3	-4.0	44P	
	-0.8			-2
	-17.2			-36
27	-0.8	14.7	446	
	-4.8	-1.9	44P	
	-3.2			-7
	-19.2			-40

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1922phae.proj.2308M

V

61	17.6	5	18 0	-61°	23.5	eF 3d 1bM
61	37.3		17 55		23.3	
	2.09		17 58		23.4	
			16		+1.6	
		5	18 14	-61°	21.8	
61	37.3	5	19 33	-61°	31.0	cF 3by.1 at 120° bM
61	21.0		19 37		31.1	spin n of 2
	2.10		35		31.0	
			16		+1.5	
		5	19 51	-61°	29.5	
		5	19 33	-61°	31.3	vF 3by.1 at 120°
			19 37		31.2	s of 2
	2.10		35		31.3	
			16		+1.5	
		5	19 51	-61°	29.8	
		5	18 57	-61°	25.0	pF RR 1d gbM
			19 2		25.0	
	2.09		19 0		25.0	
			16		+1.5	
		5	19 16	-61°	23.5	
				-61°	22.6	F bM 3by.1 at 15°
		5	18 52		22.9	
	2.09		18 58		22.8	
			55		+1.5	
		5	19 16	-61°	21.3	

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1922phae.proj.2308M

28	2.7	14.0	446	5 18 590
	−1.4	−2.3	448	5 19 375
	10.8			23
	− 5.6			− 12
29	448	13.9	446	
	0.8	−2.7	448	
	19.2			40
	3.2			7
30	1.9	−2.8	447	5 19 355
Accepted as new velocity on H1a295	−1.6	10.7	448	5 19 37.5
	7.6			16
	− 6.4			−13
31	4.7	−6.1	447	
Accepted as new velocity on H1a295	−4.2	7.1	448	
	18.8			39
	−16.8			− 35
32	12.0	−2.6	448	5 19 37.5
	−6.0	21.2	454	5 22 3.5
	48.0			100
	− 24.0			− 50

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1922phae.proj.2308M

61	37.3	5	19	22	−61°	23.3	eF eS	
61	21.9		19	26		23.3		
	2.09			24		23.3		
				16		+1.5		
		5	19	40	−61	21.8		
		5	19	39	−61°	23.6	eF bM eS	
			19	45	−61°	23.7		
	2.09			42		23.6		
				16		+1.5		
		5	19	58	−61°	22.1		
61	7.9	5	19	52	−61°	10.7	cF .15cl	bM
61	24.0		19	25	−61°	9.3		
	2.07					10.0	✓	2
		Corr.		+16		+1.5		
					−61	8.5		
		5	20	15		14.0	eF eS bM	
			19	3		13.9		
	2.08					14.0	✓	2
61	21.0	5	21	18	−61°	23.6	eF eS bM	
61	45.0		21	14	−61°	23.8		
	2.09			16		23.7		
				16		+1.4		
		5	21	32	−61°	22.8		

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1922phae.proj.2308M

33	7.9	−13.0	448	5 19 37.5 6
	−10.0	11.0	454	5 22 3.5 6
	31.6			66
	−40.0			−84
34	13.1	−22.1	448	
	−4.7	1.9	454	
	52.4			111
	−18.8			−40
35	7.9	16.9	454	5 22 3.5 6
	2.2	−3.0	456	5 22 52.5 6
	31.6			66
	8.8			18
35	13.6	22.2	459	5 19 22.5 6
	−5.1	−3.0	454	5 22 3.5 6
	55.2			117
	−20.4			−43
37*				
36	14.0	10.5	459	
	−4.7	−14.9	454	
	56.0			119
	−18.8			−40

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1922phae.proj.2308M

61	21.0	5	20 44	-61°	34.0	eFeS
61	45.0		20 40	-61°	34.0	
	2.10		42		34.0	
			16		+1.5	
		5	20 58	-61°	32.5	
		5	21 29	-61°	43.1	eFeS
			21 24		43.1	
	2.11		26		43.1	
			16		+1.4	
		5	21 42	-61°	41.7	
61	45.0	5	23 10	-61°	28.1	F 1'by.1'at 170°
61	25.1		23 10	-61°	28.1	
	2.09		10		28.1	
			16		+1.4	
		5	23 26	-61°	26.7	
62	9.9	5	21 19	-61°	47.7	eFeS
61	45.0		21 20	-	48.0	
	2.12		20		47.8	
			16		+1.4	
		5	21 36	-61°	46.4	
		5	21 21	-61°	59.4	vF .2d bM
			21 24	-61°	59.9	
	2.13		22		59.6	
			16		+1.4	
		5	21 38	-61°	58.2	

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1922phae.proj.2308M

39	-13.7	-3.8	458	5 23 38.0	6
	-10.7	5.2	465	5 24 56.5	6
	52.8			110	
	-42.8			-89	
40	5.0	15.2	462	5 24 58.5	6
	-8.8	-11.2	465	5 26 56.5	6
	20.0			42	
	-35.2			-74	
42	12.3	8.3	462		
	-1.2	-18.1	465		
	49.2			104	
	-44.8			-10	
41	0.2	-21.3	462	5 24 58.5	6
	-8.8	1.8	474	5 26 13.5	6
	0.8			2	
	-35.2			-75	
43	11.2	0.6	469	5 27 47.5	6
	-11.2	-2.3	481	5 30 54.5	6
	44.8			95	
	-44.8			-95	

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1922phae.proj.2308M

V

	61	12.8				-61°	16.0	eF eS bM
	61	21.7	5	25	28	-61°	16.1	
		2.08		25	27		16.0	
					28		+13	
			h		16			
			5	25	44	-61°	14.7	
	61	47.9	5	25	40	-61°	32.7	vF .1d bM
	61	21.7		25	42	-61°	32.9	
		2.10			41		32.8	
					16		+1.3	
			5	25	57	-61°	31.5	
			5	26	42	-61°	39.6	vF bM .1b .2' at 0°
				26	46	-61°	39.8	
		2.11			44		39.7	
					16		+1.2	
			5	27	00	-61°	38.5	
5	61	47.9	5	25	0	-62°	9.2	vF R .2d
	62	10.9		24	59	-62°	9.1	
		2.14		25	0		9.2	
					14		+1.3	
			5	25	14	-62°	7.9	
25	61	42.2	5	29	23	-61°	41.6	eF .2d bM
25	61	39.3		29	19		41.6	
		2.11			21		41.6	
					16		+1.1	
			5	29	37	-61°	40.3	

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45.	6.0 −2.7 24.0 −10.8	0.3 −17.7	426 429	5 26 43.5 5 27 52.5 48 −22
46	5.7 −3.0 22.8 −12.0	9.1 −9.0	426 429	46 −24
47	6.1 −2.6 24.4 −10.4	10.6 −7.6	426 429	49 −21
44	16.2 −1.4 64.8 −5.6	−12.0 22.6	412 414	5 18 46.0 5 21 4.0 130 −11
48	6.2 −8.0 24.8 −32.0	−0.8 −8.6	473 475	5 24 38.0 5 26 30.5 49 −63

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60	23.3	5	27	32	−60° 23.0	eF, 1d bM
60	5.8		27	30	−60° 23.5	
	202			31	23.2	
				18	+1.2	
		5	27	49	−60° 22.0	
		5	27	30	−60° 14.2	eF, 2d bM
			27	28	−60° 14.8	
	201			29	14.5	
				18	+1.2	
		5	27	47	−60° 13.3	
		5	27	33	−60° 12.7	eF, 2d bM
			27	31	−60° 13.4	
	201			32	13.0	
				18	+1.2	
		5	27	50	−60° 11.8	
60	1.2	5	20	56	−60° 13.2	eF, 2d g bM
60	35.7		20	53	−60° 13.1	
	201			54	13.2	
				19	+1.5	
		5	21	13	−60° 11.7	
59	21.8	5	25	27	−59° 22.6	vF eS bM dlm *
59	14.7		25	27	−59° 22.7	
	1.96			27	22.6	
				21	+1.3	
		5	25	48	−59° 21.3	

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1922phae.proj.2308M

49	14.9	8'1	473	5 24 38.6	5
	0.2	1.0	475	5 26 30.5	5
	59.6			116	
	1.2			2	
50	3.0	-6.1	481	5 30 29.0	5
	-16.9	10.9	~~485~~	5 ~~33 35~~ ~~7.6 20.0~~	5
	12.0		483	24	
	-67.6			-132	
55	19.3	-6.6	481		
	-0.4	10.4	~~485~~		
	77.2		483	151	
	-1.6			-3	
51	8.2	-3.0	479	5 28 9.5	6
	-9.0	-4.6	482	5 30 38.5	6
	32.8			71	
	-36.0			-78	
52	8.3	-4.0	479		
	-8.9	-5.6	482		
	33.2			72	
	-35.6			-77	

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1922phae.proj.2308M

59	21.6	5	26	34	-59° 13.7	eFeS
59	14.7		26	32	-59° 13.7	
	1.95			33	13.7	
				21	+1.2	
		5	26	54	-59° 12.5	
59	17.0	5	30	53	-59° 23.1	eF .1d. R ... 0°
59	~~33.1~~ 21.1		30	~~55~~ 8	-59° 23.2	
	1.96			57	23.2	
				21	+1.1	
		5	31	15	-59° 22.1	
		5	~~33~~	0	-59° 23.6	eF .1d
			~~35~~	4	-59° 23.7	
	1.96			2	23.6	
				+21	+1.0	
		5	33	23	-59° 22.6	
62	24.4	5	29	20	-62° 27.4	F bM-3.6y.2 at 135°
62	22.8		29	20	27.4	+ spin
	2.16			20	27.4	
				13	+1.1	
		5	29	33	-62° 26.3	
		5	29	22	-62° 26.4	VF .5 by.2 at 60°
			29	21	-62° 28.4	spin
	2.16			22	28.4	
				13	+1.1	
		5	29	35	-62° 27.3	

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53	4.8 −11.2 19.2 − 44.8	28.9 − 5.0	.493 491	5 34 27.5 5 36 40.5 48 − 95
54	9.3 − 6.6 37.2 − 26.4	27.8 − 6.1	493 491	78 − 56
56	−5.2 − 9.7 − 20.8 − 38.8	19.0 − 5.6	539 541	5 38 52.0 5 39 20.5 − 40 − 74
57	8.7 −1.1 34.8 − 4.4	4.9 1.0	434 437	5 29 58.5 5 31 17.0 71 − 9
			Plate 7500	
1	9.9 −8.7 39.6 −34.8	−6.7 12.6	9810 9819	22 5 51.7 22 7 59.7 70 − 61

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1922phae.proj.2308M

62	7.5	5 35 8	-61° 38.6	F .2d 16M	
61	33.8	35 5	-61° 38.8		
	2.11	6	38.7		
		15	+ 0.9		
		5 35 21	-61° 37.8		
	7.	5 35 46	-61° 39.7	F .2d 16M	
		35 44	39.9		
	2.11	45	39.8		
		15	+0.9		
		5 36 0	-61° 38.9		
57	57.9	5 38 12	-58° 38.9	pF 1 by 3 at 120°	
58	33.7	38 6	-58° 39.3	6M spin	
	1.92	9	39.1		
		22	+0.8		
		5 38 31	-58° 38.3		
60	52.7	5 31 9	-60° 47.8	vF .1d 6M	
60	48.6	31 8	-60° 47.6		
	2.05	8	47.7		
		18	+ 1.1		
		5 31 26	-60 46.6		
55	13.2	22 7 2	-55° 19.9	eF eS R	
55	32.7	6 59	20.1		
	1.76	7 0	20.0		
		1 40	+ 7.3		
		22 8 40	-55° 12.7		

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1922phae.proj.2308M

2/	9.2	-6.9	9f10	22 5 51.7 5
	-9.0	12.3	9f19	22 7 59.7 5
	36.8			65
	- 36.0			— 63
3/	16.8	-12.1	9f10	
	-1.8	7.0	9f19	
	67.2			118
	- 7.2			— 13
4/	13.2 ✓	-4.1	9f22	22 10 2.0 5
	+6.6 ✓	15.0	9f23	22 10 49.5 5
	~~-6.6~~			92 ✓
	52.8 ✓			+ 46 ✓
	+ 26.4 ✓			
5/	6.8	-3.2	9f21	22 9 14.0 5
	-15.0	-2.6	9f24	22 11 46.0 5
	27.2			48
	- 60.0			106
6/	9.1	-13.6	9f21	
	-12.3	-13.0	9f24	
	36.4			65
	- 49.2			— 88

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1922phae.proj.2308M

55	13.2	22	6	57	-55° 20.1	eF eS R.
55	32.7		6	57	20.4	
	1.76		6	57	20.2	
			1	40	+7.3	
		22	8	37	-55° 12.9	
		22	7	50	-55° 25.3	v.F .1d bM
			7	47	25.7	
	1.76		7	48	25.5	
			1	39	+7.4	
		22	9	27	-55° 18.1	
55	3.0	22	11	34	-55° 7.1	F .2d R gbM
55	22.0		~~10~~	~~11~~	7.0	
	1.75		11	35		
			11	34	7.0	
			1	39	+7.4	
		22	13	13	-54° 59.6	
55	34.4	22	10	2	-55° 37.6	eF .3by.1'd 7 10°
55	35.0		10	0	-55° 37.6	
	1.77		10	1	37.6	
			1	39	+7.4	
		22	11	40	-55° 30.2	
		22	10	19	-55° 48.2	F .1d R gbM
			10	18	-55° 48.0	
	1.78		10	18	48.1	
			1	39	+7.4	
		22	11	57	-55° 40.7	

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7	5.3	3.0	9f24	22 11 46.0
	-6.7	5.9	9f26	22 13 10.0
	21.2			38
	-26.8			-47
8	5.9	-7.9	9f24	
	-6.1	-5.0	9f26	
	23.6			42
	-24.4			-43
9	5.0	-10.1	9f24	
	-6.9	-7.2	9f26	
	20.0			36
	-27.6			-49
10	4.2	12.1	9f66	22 11 35.3
	-6.6	-8.0	9f25	22 12 50.5
	16.8			30
	-26.4			-47
11	2.8	6.3	9f66	
	-7.9	-13.9	9f25	
	11.2			20
	-31.6			-57

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1922phae.proj.2308M

55	35.0	22	12	24	-55° 32.0	eFeS RbM
55	37.6		12	23	-55° 31.9	
	1.77		12	24	32.0	
			1	39	+ 7.4	
		22	14	3	-55° 24.6	
		22	12	28	-55° 42.9	vF 2d gbM
			12	27	42.8	
	1.78			28	42.8	
			1	39	+ 7.4	
		22	14	7	-55° 35.4	
		22	12	22	-55° 45.1	F 2d gbM
			12	21	45.0	
	1.78			22	45.0	
			1	39	+ 7.4	
		22	14	1	-55° 37.6	
3	56	12.7	22	12	5	56 0.6	eF eS bM
	55	52.6		12	3	56° 0.6	
		1.79			4	0.6	
				1	40	+ 7.4	
			22	13	44	-55° 53.2	
			22	11	55	-55° 6.4	eFeS
				11	53	-55° 6.5	
		1.79			54	6.4	
			h	1	40	+ 7.4	
			22	13	34	-55° 59.0	

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12	11.1	17.2	9f66	22 11 35.3
	0.2	−2.9	9f25	22 12 50.5
	44.4			79
	0.8			1
13	f.f	4.3	9f29	22 13 49.0
	−9.0	0.0	9f35	22 15 53.0
	35.2			62
	−36.0			−64
14	13.1	6.6	9f29	
	−4.5	2.2	9f35	
	52.4			93
	−18.0			−32
15	16.6	10.0	9f29	
	−1.1	5.6	9f35	
	66.4			118
	−4.4			−8
16	5.0	14.2	9f33	22 15 27.6
	1.7	−5.5	9f35	22 15 53.0
	20.0			36
	6.8			12

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56	12.7	22	12 54	-55° 55.5	eF eS
55	52.6		12 51	-55° 55.5	
	1.78		12 52	55.5	
			1 38	+7.5	
		22	14 30	-55° 48.0	
55	38.8	22	14 51	-55° 34.5	eF eS susp.
55	34.6		14 49	-55° 34.6	
	1.77		14 50	34.6	
			1 38	+7.5	
		22	16 28	-55° 27.1	
		22	15 22	-55° 32.2	F .3by.2 at 105° bM
			15 21	-55° 32.4	
	1.77		22	32.3	
			1 38	+7.5	
		22	17 0	-55° 24.8	
		22	15 47	-55° 28.8	F .3by.2 at 50°
			15 45	-55° 29.0	
	1.77		15 46	28.9	
			1 38	+7.5	
		22	17 24	-55° 21.4	
25	34.0	22	16 3	-55° 39.8	eF eS bM
25	34.6		16 5	-55° 40.1	
	1.82		16 4	40.0	
			1 38	+7.5	
		22	17 42	-55° 32.5	

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1922phae.proj.2308M

17	-1.9	5.8	9833	22 15 27.0
	-5.7	-13.8	9835	22 15 53.0
	- 7.6			- 14
	-22.8			- 41
18	6.1	1.1	9833	
	2.7	-18.2	9835	
	24.4			49
	10.8			19
19	8.1	-9.0	9873	22 13 47.6
	-4.9	3.0	9878	22 15 20.1
	32.4			59
	-19.6			- 35
20	7.2	-1.5	9881	22 15 56.1
	-22.0	-1.2	9892	22 19 23.4
	28.8			52 V
	- 88.0			-158 V
21	13.7	-2.1	9881	
	-15.8	-2.0	9892	
	54.8			98
	- 63.2			113

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1922phae.proj.2308M

0	55	54.0	22 15 13	−55°	48.2	vF .2'd	
0	55	34.6	15 12	−55°	48.4		
		1.78	15 12		48.3		
			1 38		+7.5		
			22 16 50	−55°	40.8		
			22 16 10	−55°	52.9	vF .2d	6M
			16 12	−55°	52.8		
		1.78	16 11		52.8		
			1 38		+7.5		
			22 17 49	−55°	45.3		
6	56	−14.5	22 14 47	−56°	23.5	F .1d R 6M	
1	56	26.6	14 45		23.6		
		1.81	14 46		23.6		
			1 39		+7.5		
			22 16 25	−56°	16.1		
1	56	5.0	22 16 48	−56°	6.5	eF .2'd	
	56	4.9	16 46		6.1		
		1.79	16 47		6.3		
			1 39		+7.5		
			22 18 26	−55°	58.8		
			22 17 34	−56°	7.1	eF .3'by.1'at 170°	
			17 30		6.9	Dneb?	
		1.79	17 32		7.0		
			1 39		+7.5		
			22 19 11	−55°	59.5		

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1922phae.proj,2308M

22	16.8	-1.7	9881	22 15 56.1
	-12.7	-1.4	9892	22 19 23.6
	67.2			120
	-50.8			-91
23	29.0	-6.9	9881	
	-0.2	-6.7	9892	
	116.0			209
	-0.8			1
24	26.8	-3.0	9881	
	-2.7	-2.9	9892	
	107.2			192
	-10.8			-19
25	3.1	-3.0	9890	22 18 56.8
	-8.2	-8.9	9845	22 20 17.5
	12.4			22
	-32.8			-59
26	6.5	4.8	9890	
	-5.0	-7.1	9845	
	26.0			47
	-20.0			-36

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1922phae.proj.2308M

56	5.0	22	17	56	-56° 6.7	vF .5d gps 1b M
56	4.9		17	53	6.3	
	179		17	54	6.5	
			1	38	+7.6	
		22	19	32	-55° 58.9	
		22	19	25	-56° 11.9	eF .1d 6M
			19	23	11.6	
	180		19	24	11.8	
			1	38	+7.6	
		22	21	2	-56° 4.2	
		22	19	8	-56° 8.0	vF .5d gps 6M
	179		19	5	7.8	
				6	7.9	
			1	38	+7.6	
		22	20	44	-56° 0.3	
56	2.9	22	19	19	-55° 59.9	eF .1d 6M
55	50.8		19	19	59.7	
	179		19	19	59.8	
			1	37	+7.6	
		22	20	56	-55° 52.2	
		22	19	44	-55° 58.1	eF .1d 6M
			19	42	57.9	
	179		19	43	58.0	
			1	37	+7.6	
		22	21	20	-55° 50.4	

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1922phae.proj.2308M

27	2.9	−0.8	.9845	22 20 17.5
	−10.3	13.0	9898	22 21 53.6
	11.6			21
	−11.2			−73
28	7.6	−10.5	9844	22 18 47.5
	−22.9	−0.8	9847	22 22 19.0
	30.4			54
	−91.6			−162
29	8.5	0.4	9844	
	−21.8	10.1	9847	
	34.0			60
	−87.2			−153
30	16.2	−10.3	9844	
	−14.0	−0.8	9847	
	64.8			115
	−56.0			−99
31	20.7	−12.1	9844	
	−9.6	−2.5	9847	
	82.8			147
	−38.4			−68

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1922phae.proj.2308M

55	50.8	22	20	39	−55°	51.6	F .15d 9 6M
56	4.4		20	41	−55°	51.4	
	1.78		20	40		51.5	
			1	37		+7.6	
		22	22	17	−55°	43.9	
55	23.0	22	19	42	−55°	33.5	eF .15d 6M
55	32.4		19	37	−55°	33.2	
	1.77		19	40		33.4	
			1	37		+7.6	
		22	21	17	−55°	25.8	
		22	19	48	−55°	22.6	pF .2d 6M
			19	46	−55°	22.3	
	1.76		19	47		22.4	
			1	37		+7.6	
		22	21	24	−55°	14.8	
		22	20	43	−55°	33.3	cF .3 by .1 at 170° 6M
			20	40		33.2	spin
	1.77		20	42		33.2	
			1	37		+7.6	
		22	22	19	−55°	25.6	
		22	21	15	−55°	35.1	vF .15d 6M
			21	11		34.9	
	1.77		21	13		35.0	
			1	37		+7.6	
		22	22	50	−55°	27.4	

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1922phae.proj.2308M

32	8.1	-5.8	10086	22 22 8.8
	-5.8	8.9	9849	22 23 47.0
	32.4			57
	-23.2			-41
33	10.9	-0.7	9898	22 21 53.6
	-5.2	8.3	9901	22 23 47.6
	43.6			78
	-20.8			-37
34	12.5	-7.1	9898	
	-3.6	1.7	9901	
	50.0			90
	-14.4			-26
35	-5.0	3.1	9900	22 23 46.1
	-4.8	-15.7	9901	22 23 47.6
	-20.0			-36 ✓
	-19.2			-35 ✓
36	-2.3	4.0	9900	
	-2.0	-14.9	9901	
	-9.2 ✓			-17 ✓
	-8.0 ✓			-14

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1922phae..proj..2308M

54	59.2	22	23	6	-55°	4.9	eF .2d 1b M
55	13.3		23	6	-55°	4.4	
	1.75		23	6		4.6	
			1	36	°	+7.6	
		22	24	42	-54°	57.0	
56	4.4	22	23	12	-56°	5.1	eF eS bM
56	13.1		23	11		4.8	
	1.79		23	12		5.0	
			1	37	°	+7.6	
		22	24	49	-55°	57.4	
		22	23	24	-56°	11.5	F .5 by .1 at 90° bM
			23	22		11.4	Spin
	1.80			23		11.4	
			1	37	°	+7.6	
		22	25	0	-56	3.8	
56	31.7	22	23	10	-56°	28.6	F .2d bM
56	13.1		23	13		28.8	
	1.81			12		28.7	
			1	37	°	+7.6	
	✓	22	24	49	-56	21.1	
		22	23	29	-56°	27.7	F .3 by .2 at 10°
	✓		23	34		28.0	
	1.81		23	32		27.8	
			1	37	°	+7.6	
					-56	20.2	

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1922phae.proj.2308M

37	-1.0	6.1	9900	22 23 46.1
	-0.7	-12.6	9901	22 23 47.6
	-4.0			-7
	-2.8			-5
38	-0.8	7.0	9900	
	-1.1	-11.8	9901	
	-3.7			-6
	-4.4			-8
39	-1.0	6.1	9900	
	-1.3	-12.7	9901	
	-4.0			-7
	-5.2			-9
40	-2.9	7.3	9900	
	-3.2	-11.3	9901	
	-11.6			-21
	-12.8			-23
41	-3.8	6.3	9900	
	-4.1	-12.3	9901	
	-15.2			-28
	-16.4			-30

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1922phae.proj.2308M

1	56	31.7	22 23 39	−56° 25.6	eF .1d bM	
6	56	13.1	23 43	25.7		
		1.81	23 41	25.6		
			1 37	° +7.7		
			22 25 18	−56 17.9		
			22 23 40	−56° 24.7	eF .1d bM	
		✓	23 40	24.9		
		1.81	23 40	24.8		
			+1 37	° +7.7		
			22 25 17	−56 17.1		
			22 23 39	−56° 25.6	eF .1d bM	
		✓	23 39	25.8		
		1.81	23 39	25.7		
			1 37	° +7.7		
			22 25 16	−56 18.0		
			22 23 25	−56° 24.4	eF .1d bM	
			23 25	24.4		
		1.81	23 25	24.4		
			1 37	° +7.7		
			22 25 2	−56 16.7		
			22 23 18	−56° 25.4	eFeS	
			23 18	25.4		
		1.81	23 18	25.4		
			1 37	° +7.7		
			22 24 55	−56 17.7		

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42	3.8	8.4	9897	22 21 41.1	5
	1.7	-16.9	9898	22 21 53.6	5
	15,2			27	
	6.8			12	
43	10.9	4.0	9891	22 19 6.1	
	-10.0	8.0	9896	22 21 34.1	
	43.6			79	
	-40.0			-72	
44	12.1	-7.2	9891		
	-8.3	-3.2	9896		
	48.4			88	
	-33.2			-60	
45	4.0	-3.8	9887	22 17 22.1	5
	0.3	3.3	9889	22 17 46.6	5
	16.0			29	
	1,2			2	
46	5.0	-5.4	9887		
	1.3	1.2	9889		
	20.0			36	
	5.2			9	

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1922phae..proj.2308M

56	29.5	22	22	.8	-56° 21.1	eF, 2b4, 1at 170°
56	4.4		22	6	21.3	D + nr s
	1.80			7	21.2	
			1	38	+7.6	
		22	23	45	-56° 13.6	
56	33.7	22	20	25	-56° 29.7	eF, 15d bM
56	37.6		20	22	29.6	
	1.81			24	29.6	
			1	38	+7.6	
		22	22	2	-56° 22.0	
		22	20	34	-56° 40.9	F, 12d 9bM
			20	34	40.8	
	1.82		20	34	40.8	
			1	38	+7.6	
		22	22	12	-56° 33.2	
56°	27.4	22	17	51	-56° 31.2	vF eS
56	34.4		17	51	31.1	
	1.81		17	51	31.2	
			1	38	+7.6	
		22	19	29	-56° 23.6	
		22	17	58	-56° 32.8	F, 1d bM
			17	58	33.2	
	1.81		17	58	33.0	
			1	38	+7.6	
		22	19	36	-56° 25.4	

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47	6.2	−13.1	9878	22 15 20.1
	−3.3	4.5	9882	22 16 30.6
	24.8			45
	−13.2			−24
48	−4.3	−24.7	9878	22 15 20.1
	−5.7	3.4	9879	22 15 26.6
	−17.2			−31
	−22.8			−42
49	6.7	8.7	9879	22 15 26.6
	−1.8	−2.0	9882	22 16 30.1
	26.8			49
	−7.2			−13
50	10.2	8.5	9879	
	2.0	−2.0	9882	
	40.8			75
	8.0			15
51 *				
52	14.0	7.0	9879	
	5.6	−3.6	9882	
	56.0			102
	22.4			41

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1922phae.proj.2308M

-56	26.6	22	16 .6	-56° 39.7	eF .3'by.1'd't 150°	
56	44.1		16 7	39.6	defect?	st. of 11th
	1.82		16 6	39.6	np	
			1 39	+ 7.5		
		22	17 45	-56° 32.1		
56	26.6	22	1H 49	-56° 51.3	eF eS alm*	
56	54.6		1H 47	51.2		
	1.83		1H 48	51.2		
			1 36	+ 7.5		
		22	16 24	-56° 43.7		
56	54.6	22	16 18	-56° 45.9	eF .1'd	
56	44.1		16 18	46.1		
	1.82		16 18	46.0		
			1 39	+ 7.5		
		22	17 57	-56° 38.5		
		22	16 44	-56° 46.1	eF .1'd	
			16 45	46.1		
	1.83		16 44	46.1		
			1 39	+ 7.5		
		22	18 23	-56° 38.6		
		22	17 11	-56° 47.6	eF .2'by.1' at 0°	
			17 12	47.7	bM	
	1.83		17 12	47.6		
			1 39	+ 7.5		
		22	18 51	-56° 40.1		

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1922phae.proj.2308M

53	7.0	-10.0	9879	22 17 48.6	5
	-24.3	-6.8	9896	22 21 34.1	5
	28.0			51	
	-97.2			-177	
54	4.0	-4.8	9879	22 15 21.6	5
	~~-22.3~~	~~+7.0~~	~~9882~~	~~22 16 41.3~~ 30.6	5
	-4.9	-15.4			
	16.0			29 ✓	
	~~89.2~~			~~164~~ ✓	
	-18.0			-33	
55	-0.2	-9.5	9879		
	-26.7	12.3	10088		
	-0.8			-1	
	-106.8			-197	
56	9.0	-11.6	9879		
	-17.2	10.2	10088		
	36.0			66	
	-68.8			-127	
57	6.9	-14.2	9879		
	-19.6	7.6	10088		
	27.6			51	
	-78.4			-144	

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	56	34.4	22	18	40	-56 44.4	eF .1d bM
	56	37.6		18	37	44.4	
		1.82		18	38	44.4	
				1	38	+7.6	
			22	20	16	-56° 36.8	
	56	54.6	22	15	58	-56° 59.4	vF .2d bM
	56	44.1		15	57		
	57	16.1	22	21	25	-56 59.1	
		1.84		15	58	59.5	
						59.4	
				1	39	+7.5	
			22	17	37	-56 51.9	
			22	15	28	-57° 4.1	vF .2bl bM
				15	24	-57° 3.7	
		1.84		15	26	3.9	
				1	40	+7.5	
			22	17	6	-56 56.4	
			22	16	35	-57° 6.2	eF .1d bM
				16	34	-57° 5.9	
		1.84		16	34	6.0	
				1	40	+7.5	
			22	18	14	-56° 58.5	
			22	16	20	-57° 8.8	F .6by.1d at 150°
				16	17	-57° 8.5	bM Spin
		1.84		16	18	8.6	
				+ 1	40	+7.5	
			22	17	58	-57° 1.1	

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58	15.0	-17.7	9879	22 15 28.6	5
	-11.2	4.1	10088	22 18 41.3	5
	60.0			110	
	-44.8			-82	
59	20.1	-20.1	9879		
	-16.2	1.8	10088		
	80.4			149	
	-24.8			-46	
60	24.0	-22.1	9879		
	-2.3	-0.4	10088		
	96.0			178	
	-9.2			-17	
61	5.7	6.3	10085	22 16 39.8	5
	-11.1	-4.3	10088	22 18 41.3	
	22.8			42	
	-44.4			-82	
62	3.1	6.4	10083	22 14 52.3	5
	0.1	-3.6	10084	22 15 16.8	5
	12.4			23	
	0.4			1	

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56	54.6		22 17 19	-57°	12.3	eF .1d	
57	16.1		17 19	-57°	12.0		
		1.84	17 19		12.2		
			1 40		+7.5		
			22 18 59	-57°	4.7		
			22 17 57	-57°	1.4.7	vF .2'by.1at 100° bM	
			17 55		14.3	ST II Np .7'	
		1.85	17 56		14.5		
			1 39		+7.6		
			22 19 35	-57°	6.9		
			22 18 27	-57°	16.7	eF .1d bM	
			18 24		16.5		
		1.85	18 26		16.6		
			1 39		+7.6		
			22 20 5	-57°	9.0		
57	27.0		22 17 22	-57°	20.7	eF eS bM	
57	16.1		17 19		20.4		
		1.85	17 20		20.6		
			1 40		+7.5		
			22 19 0	-57°	13.1		
57	16.2		22 15 15	-57°	11.4	eF .3'by.2' at 90°	
57	8.2		15 18		11.8	bM defect?	
		1.85	15 16		11.6		
			1 40		+7.5		
			22 16 56	-57°	4.1		

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63	7.0	0.2	100f3	22 14 52.3	5
	4.0	-10.0	100f4	22 15 16.8	5
	28.0			52	
	16.0			30	
64	1.8	-3.9	100f3	22 14 52.3	5
	-16.0	31.9	100f6	22 17 2.8	5
	7.2			13	
	-64.0			-118	
65	-0.9	-4.1	100f3		
	-19.7	31.7	100f6		
	-3.6 ✓			-7 ✓	
	-78.8 ✓			-146 ✓	
66	3.8	-9.1	100f3		
	-14.1	26.7	100f6		
	15.2			28	
	-56.4			-105	
67	-1.0	-17.6	100f3		
	-16.9	18.2	100f6		
	-4.0			-7	
	-75.6			-141	

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57	16.2	22	15 44	−57°	16.0	eF .2d bM
57	8.2		15 47		16.2	
	1.85		15 46		18.1	
			1 40		+7.5	
		22	17 26	−57°	10.6	
57	16.2	22	15 5	57°	22.1	eF .15d
57	54.2		15 5	57°	22.3	
	1.85		15 5		22.2	
			+1 40		+7.5	
		22	16 45	−57°	14.7	
		22	14 45	−57°	22.3	eF .15d
			14 37		22.5	
	1.85		14 41		22.4	
			1 40		+7.5	
		22	16 21	−57°	14.9	
		22	15 20	−57°	27.3	vF .2d bM
			15 18		27.5	
	1.86		15 19		27.4	
			1 40		+7.5	
		22	16 59	−57°	19.9	
		22	14 45	−57°	35.8	vF eS gbM
			14 42		36.0	
	1.87		14 44		35.9	
			1 40		+7.5	
		22	16 24	−57°	28.4	

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68	0.0	−16.9	1.0083	22 14 52.3	5
	−17.8	17.0	1.0086	22 17 2.8	5
	0.0			0	
	−71.2			−133	
69	6.1	−17.9	1.0083		
	−11.2	17.9	1.0086		
	24.4			46	
	−44.8			−84	
70	12.2	−20.0	1.0083		
	−6.4	15.8	1.0086		
	48.8			91	
	−25.6			−48	
71	18.2	−25.0	1.0083		
	0.3	10.8	1.0086		
	72.8			136	
	1.2			2	
72	18.0	−25.2	1.0083		
	0.1	10.6	1.0086		
	72.0			135	
	0.4			1	

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57	16.2	22 14 52.	-57° 37.1	eF .1'd bM	
57	54.2	14 50	37.2		
		14 51	37.2		
	1.87	+1 40	+7.5		
		22 16 31	-57° 29.7		
		22 15 38	-57° 36.1	eF eS	
		15 39	36.3		
		38	36.2		
	1.87	+1 40	+7.5		
		22 17 18	-57° 28.7		
		22 16 23	-57° 38.2	vF .7'by.1' at 170°	
		16 15	38.4	spin	
		16 19	38.3		
	1.87	+1 40	+7.5		
		22 17 59	-57° 30.8		
		22 17 8	-57° 43.2	eF .2'by.1' at 135°	
		17 5	43.4	bM spin	
		17 6	43.3		
	1.87	+1 40	+7.5		
		22 18 46	-57° 35.8		
		22 17 7	-57° 43.4	eF .2'by.1' at 135° bM	
		17 4	43.6	spin	
		6	43.5		
	1.87	+1 40	+7.5		
		22 18 46	-57° 36.0		

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73	5.2	−27.9	10083	22 14 523
	−11.3	−7.9	10086	22 17 2.8
	20,8			39
	−45.2			−85
74	1.1	6.1	9949	22 15 24.5
	−11.8	−15.2	10086	22 17 12.8
	4,4			8
	−47.2			−90
75	2.1	−1.8	9948	22 15 19.0
	−0.2	11.9	9950	22 15−34.5
	8,4			16
	−0.8			−2
76	21.2	−6.8	10086	22 17 2,8
	−15.2	−12.4	10096	22 21 36.3
	84.8			162
	−60.8			−115
77	22.0	6.9	10086	
	−14.7	1.2	10096	
	88,0			170
	−58.8			−113

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57	18.2	22	15	3.1	-57° 46.1	eF .1d bM
57	54.2		15	38	46.3	
	1.87			34	46.2	
			+1	40	+7.5	
		22	17	14	-57° 38.7	
58	0.2	22	15	32	-58° 9.1	vF .2d bM
57	54.2		15	33	-58° 9.4	
	1.90		15	32	9.2	
			+1	41	+7.5	
		22	17	13	-58 1.7	
58	20.1	22	15	35	-58° 21.9	vF .2d bM
58	40.6		15	32	21.7	
	1.91		15	34	218	
			1	41	+7.5	
		22	17	15	-58° 14.3	
57	54.2	22	19	45	-58° 1.0	eF .1d bM
57	48.7		19	41	1.1	
	1.89		19	43	1.0	
			+1	40	+7.6	
		22	21	23	-57° 53.4	
		22	19	53	-58° 47.3	eF .1d bM
			19	43	47.5	
	1.93			48 40	47.4	
		22	21	28	+7.6	
					-58° 39.8	

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78	1.1	-4.4	10089	2219 2.2
	-29.1	1.7	10097	22 12 24 46 8
	4.4			8
	-116.4			-217
79	19.9	9.9	10089	
	-10.8	14.0	10097	
	79.6			147
	-43.2			-80
80	20.9	6.8	10089	
	-9.6	12.9	10097	
	83.6			155
	-38.4			-71
81	21.3	0.8	10089	
	-9.1	6.8	10097	
	85.2			158
	-36.4			-68
82	21.0	1.2	10089	
	-9.3	7.2	10097	
	84.0			156
	-37.2			-69

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57	26.0	22	19	10	-58° 30.4	eF. 1d bM
57	32.0		19	10	30.3	
	1.86		19	10	30.4	
			+ 1	39	+ 7.6	
		22	20	49	-57° 22.8	
		22	21	29	-57° 18.1	eF. 1d bM
			21	27	18.0	
	1.85		21	28	18.0	
			1	39	+ 7.6	
		22	23	7	-57° 10.4	
		22	21	37	-57° 19.2	eF. 2d
			21	36	19.1	
	1.85		21	36	19.2	
			1	39	+ 7.6	
		22	23	15	-57° 11.6	
		22	21	40	-57° 25.2	eF. 2d
			21	39	25.2	
	1.86		21	40	25.2	
			1	39	+ 7.6	
		22	23	19	-57° 17.6	
		22	21	38	-57° 24.8	eFeS susp.
			21	38	24.8	
	1.86		21	38	24.8	
			1	39	+ 7.6	
		22	23	17	-57° 17.2	

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1922phae.proj.2308M

83	21.0	-1.0	10089	22 19 2.2	.5
	-9.5	5.0	10097	22 22 46.83	5
	84.0			156	
	-38.0			-71	
84	19.0	-2.0	10089		
	-11.3	4.0	10097		
	76.0			141	
	-45.2			-84	
85	19.6	-5.9	10089		
	-10.8	0.1	10097		
	78.4			146	
	-43.2			80	
86	2.3	7.4	10097	22 22 46.6	.5
	-9.0	-6.7	10100	22 24 11.3	5
	9.2			17	
	-36.0			-67	
87	4.9	11.2	10097		
	-6.4	-2.8	10100		
	19.6			36	
	-25.6			-47	

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57	26.0	22	21	38	-57° 27.0	vF .2d bM
57	32.0		21	36	27.0	
	1.86		21	37	27.0	
			1	39	+7.6	
		22	23	16	-57° 19.4	
		22	21	23	-57° 28.0	vF .2' by 1' at 70°
			21	23	28.0	spin
	1.86		21	23	28.0	
			1	39	+7.6	
		22	23	2	-57° 20.4	
		22	21	28	-57° 31.9	eF 1.5d bM
			21	27	31.9	
	1.86		21	28	31.9	
			1	39	+7.6	
		22	23	7	-57° 24.3	
57	32.0	22	23	4	-57° 24.6	eF .2d bM
57	16.1		23	4	24.8	
	1.86		23	4	24.7	
			1	38	+7.6	
		22	24	42	-57° 17.1	
		22	23	23	-57° 20.8	eF .2d bM 1E at 45°
			23	24	20.9	
	1.85		23	24	20.8	
			1	38	+7.6	
		22	25	2	-57° 13.2	

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88	10.8	-3.0	7948	22 13 59.0	5
	-2.0	-0.2	7950	22 15 04.5	5
	4.32			83	
	-8.8			-15	
89	8.1	-8.0	7947		
	-4.6	-5.2	7950		
	32.4			63 ✓	
	-18.4			-36 ✓	
90	4.8	-6.7	7950	22 15 34.5	5
	-4.6	3.5	7955	22 16 44.5	58
	19.2			37	
	-18.4			-36	
91	6.3	-7.9	7950		
	-2.9	2.1	7955		
	25.2			49	
	-11.6			-22	
92	7.7	-8.9	7950		
	-1.7	1.2	7955		
	30.8			59	
	-6.8			-13	

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58	37.6	22	15	22	−58° 40.6	eF, 3d
58	40.6		15	20	40.8	
	1.92		15	21	40.7	
			1	41	+7.5	
		22	17	2	−58° 33.2	
		22	15	2	−58° 45.6	eF, 1 l bg, 1 at 80°
			14	58	45.8	
	1.93		15	0	45.7	
			1	41	+7.5	
		22	16	41	−58° 38.2	
58	40.6	22	16	11	−58° 47.3	eF, 1d/bM
58	50.7		16	8	47.2	
	1.93		16	10	47.2	
			1	41	+7.5	
		22	17	51	−58° 39.7	
		22	16	23	−58° 48.5	eF, 2d
			16	22	47.6	
	1.93		16	22	48.6	
			1	41	+7.5	
		22	18	3	−58° 41.1	
		22	16	33	−58° 49.5	vF, 2d psbM
			16	31	49.5	
	1.93		16	32	49.5	
			1	41	+7.5	
		22	18	13	−58° 42.0	

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93	10.2	23.9	7796	22 15 10.0
	5.0	-3.8	7797	22 15 5 4.3
	40.8			79
	20.0			39
94	9.2	17.4	7796	
	4.0	-10.1	7797	
	36.8			72
	16.0			31
95	8.6	-7.7	7796	22 15 10.0
	-15.2	-4.4	7798	22 18 14.5
	34.4			68
	-60.8			-120
96	-5.8	-16.9	7798	22 18 34.5
	-8.0	11.0	7799	22 18 29.8
	-23.2			-46
	-32.0			-64
97	-1.2	-19.9	7798	
	-3.6	8.0	7799	
	-4.8			-10
	-14.4			-29

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59	26.9	22	16	29	-59°	3.0	cF .2d bM
59	0.0		16	33		3.6	
	1.94		16	31		3.4	
	1.95		1	42		+7.5	
		22	18	13	-58°	55.9	
		22	16	22	-59°	9.5	eF .4d vgbM
			16	25		10.1	
	1.95		16	24		9.8	
			1	42		+7.5	
		22	18	6	-59°	2.3	
59	26.9	22	16	18	-59°	34.6	F .6d R bM
59	30.6		16	14		35.0	
	1.97		16	16		34.8	
			1	42		+7.5	
		22	17	58	-59°	27.3	
59	30.6	22	17	28	-59°	47.5	eF eS bM d/m+
59	58.4		17	26		47.4	
	1.99		17	27		47.4	
			1	42		+7.5	
		22	19	9	-59°	39.9	
		22	18	4	-59°	50.5	F .5 by .2 at 135°
			18	1		50.4	spin
	1.99		18	2		50.4	
			1	41		+7.6	
		22	19	43	-59°	42.8	

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98	-11.8	24.7	7566	22 16 27.0
	-26.8	-2.2	7799	22 18 29.4
	- 47.2			- 94
	- 107.2			- 214
99	3.0	13.0	7566	
	-11.9	-13.7	7799	
	12.0			24
	- 47.6			- 96
100	-7.7	3.9	7566	
	-23.0	-12.8	7799	
	- 30.8			- 62
	- 92.0			- 185
101	-1.7	4.8	7572	22 24 42.0
	-26.5			
	~~-23.3~~	-1.0	7578	22 28 15.0
	- 6.8			- 14
~~Wing -23.3~~	~~(92.2)~~			~~- 184~~
~~" -33.3~~	~~-133.2~~			~~268~~
				-229.1
102	15.8	6.8	7572	
	-11.0	3.0	7578	
	63.2			126
	- 44.0			- 88

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1922phae.proj.2308M

60	24.7	22 14 53	−60°	0.0	eF .2 by .1 at 90°
59	58.4	14 56	−60°	0.6	
	2.00	54		0.3	
		1 43		+7.5	
		22 16 37	−59°	52.8	
		22 16 51	−60°	11.7	eF .4 by .1 at 170°
		16 54		12.7	
	2.01	52		11.9	
		1 43		+7.5	
		22 18 35	−60°	4.4	
		22 15 25	−60°	10.8	eF .3 d
		15 25		11.2	
	2.01	25		11.0	
		1 43		+7.5	
		22 17 8	−60°	3.5	
60	14.6	22 24 28	−60°	6.8	F .2 d bM
60	6.1	~~25 8~~		7.1	
		~~23 47~~			
	2.01	22 24 24		7.0	
		26		+7.6	
		1 41	−59°	59.4	
		22 26 7			
		22 26 48	−60°	2.8	eF .2 d
		26 47		3.1	
	2.00	48		3.0	
		1 40		+7.7	
		22 28 28	−59°	55.3	

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1922phae.proj.2308M

103	4.3	-5.9	7578	22 24 15.0
	-0.9	0.f	7579	22 24 56.5
	17.2			35
	- 3.6			- 7
104	0.9	-12.2	7805	22 23 24.5
	-5.7	- 2.1	7808	22 24 17.5
	3.6			7
	- 22.8			- 45
105	3.1	0.3	7805	
	-3.2	10.1	7808	
	12.4			24
	- 12.8			- 25
106	6.1	6.9	7807	22 23 50.3
	- 9.0	-3.9	7969	22 25 28.0
	24.4			47
	-36.0			- 70
107	10.8	-10.8	7969	22 25 21.0
	3.5	1.9	7810	22 26 22.5
	43.2			84
	14.0			27

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1922phae.proj.2308M

60	6.1	22	28	50	-60°	12.0	eF .5d vgbM	
60	12.5		28	49		11.7		
	2.01			50		11.8		
			1	39		+7.7		
		22	30	29	-60°	4.1		
59	14.6	22	23	35	-59°	26.8	eF .5d psbM	
59	24.7		23	33		26.8		
	1.97			34		26.8		
			1	40		+7.6		
		22	25	14	-59°	19.2		
		22	23	52	-59°	14.3	eF eS	
			23	52		14.0		
	1.96			52		14.2		
			1	40		+7.6		
		22	25	32	-59°	6.6		
59	2.0	22	24	17	-58°	55.1	eF .1d bM	
58	51.3		24	18		55.2		
	1.94			18		55.2		
			1	39		+7.6		
		22	25	57	-58°	47.6		
58	51.3	22	26	52	-59°	2.1	eF .2d	
59	3.8		26	49	-59°	1.9		
	1.94			50		2.0		
			1	40		+7.7		
		22	28	30	-58°	54.3		

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1922phae.proj.2308M

108	3.5	-0.7	7973	22 28 18.0 5
	-9.1	-2.8	7978	22 29 55.3 5
	14.0			27
	-36.4			-70
109	2.8	1.5	7973	
	-10.2	-0.3	7971	
	11.2			22
	-40.8			-79
110	9.0	8.2	7970	22 26 22.5 5
	-5.7	-2.5	10107	22 28 12.3 5
	36.0			68
	-22.8			-43
111	19.4	-1.0	10107	22 28 12.3 5
	-6.0	-11.2	10113	22 31 29.3 5
	77.6			146.0
	-24.0			-44.8
112	8.8	-12.3	10104	22 26 27.3 5
	-3.4	8.0	10106	22 27 56.8 5
	35.2			65
	-13.6			-25

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1922phae.proj.2308M

58	45.9	22	28	45	-58°	46.6	vF .2'd 6M	
58	44.2		28	45	-58°	47.0		
	1.93		28	45		46.8		
			1	38		+7.7		
		22	30	23	-58°	39.1		
		22	28	40	-58°	44.4	eF eS	
			28	36		44.5		
	1.93		28	38		44.4		
			1	38		+7.7		
		22	30	16	-58°	36.7		
58	1.4	22	27	30	-57°	53.7	vF .2'by.1 at 0° 6M	
57	50.6		27	29		53.1	spin	
	1.88		27	30		53.2		
			1	38		+7.7		
		22	29	8	-57°	45.5		
57	50.6	22	30	38.3	57°	51.6	vF .5'd vvl6M 0	
57	40.5	22	30	37.5		51.7		
	1.88			37.9		51.6		
			1	37		+7.7		
		22	32	15	-57°	43.9		
57	22.1	22	27	32	-57°	34.4	eF .1'd 6M	
57	42.6		27	32		34.6		
	1.86		27	32		34.5		
			1	38		+7.7		
		22	29	10	-57°	26.8		

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1922phae.proj.2308M

113	9.9	-7.2	10100	22 24 11.3	5
	-8.8	-3.2	10104	22 26 27.3	5
	39.6			74	
	-35.2			-65	
114	-5.0	3.0	10103	22 25 58.8	5
	-11.8	-3.9	10105	22 26 48.8	5
	-20.0			-37	
	-47.2			-87	
115	2.2	-1.9	10103		
	-4.6	-8.8	10105		
	8.8			16	
	-18.4			-34	
116	8.8	3.1	10103		
	2.0	-3.8	10105		
	35.2			65	
	8.0			15	
117	5.8	-2.0	9908	22 28 22.1	5
	-11.4	-24.0	9913	22 27 27.7	5
	23.2			42	
	-45.6			-83	

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1922phae.proj.2308M

57	18.1	22 25 25	-57° 25.3	eF .1'b y.l' at 176°	
57	22.1	25 22	25.3		
	1.86	24	25.3		
		1 38	+7.7		
		22 27 2	-57° 17.6		
57	10.5	22 25 22	-57° 7.5	vF .2'd bM	
57	3.7	25 21	7.6		
	1.84	25 22	7.6		
		1 38	+7.7		
		22 27 0	-56° 59.9		
			-57° 12.4	vF .2'd bM	
		22 26 15	12.5		
	1.85	26 15			
		26 15	12.4		
		1 38	7.7		
		22 27 ~~37~~ 53	-57° 4.7		
		27 4	-57° 7.4	vF .3'd bM	
		27 4	7.5		
	1.84	27 4	7.4		
		1 38	+7.7		
		22 28 42	-56° 59.7		
56	47.2	22 26 4	-56° 49.2	eF eS alm.*	
56	25.2	26 5	49.2		
	1.88	26 4	49.2		
		1 37	+7.7		
		22 27 41	-56° 41.5		

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1922phae.proj.2308M

118	10.8	-0.3	9908	22 25 22.1
	-6.3	-22.5	9913	22 27 27.7
	43.2			79
	-25.2			-46
119	19.0	9.4	9908	
	1.8	-12.6	9913	
	76.0			138
	7.2			13
120	14.8	2.8	9901	22 23 47.6
	-4.1	-5.6	9910	22 26 2.1
	59.2			107
	-16.4			-30
121	9.8	-14.2	9859	22 26 37.0
	-4.9	1.0	9916	22 28 21.2
	39.2			70
	-19.6			-35
122	9.8	-1.5	9859	
	-5.0	13.8	9816	
	39.2			70
	-20.0			-36

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1922phae.proj,2308M

56	49.2	22	26	41	-56° 47.1	eF ,1d bM
56	25.2		26	42	47.7	
	1.83		26	42	47.6	
			1	37	+7.7	
		22	28	19	-56 39.9	
		22	27	40	-56° 37.6	vF ,2d bM
			27	41	37.8	
	1.87		27	40	37.8	
			1	36	+7.7	
		22	29	16	-56° 30.1	
56	13.1	22	25	35	-56° 10.3	eF ,1d bM rEat
56	4.9		25	32	10.5	0°
	1.80		25	34	10.4	
			1	37	+7.7	
		22	27	11	-56° 2.7	
55	53.9	22	27	47	-56 8.1	vF bM .4 by .1 at 60°
56	8.9		27	46	-56° 7.9	spin
	1.79		27	46	8.0	
			1	36	+7.7	
		22	29	22	-56° 0.3	
		22	27	47	-55° 54.9	eF .3' by .1' 45°
			27	45	-55° 55.1	
	1.78			46	55.0	
			1	35	+7.7	
		22	29	21	-55° 47.3	

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1922phae.proj.2308M

123	-0.1	-10.4	9870	22 29 40.7	5
	-3.8	10.1	9919	22 30 8.2	5
	- 0.4			- 1	
	- 15.2			- 27	
124	6.2	4.6	9919	22 30 8.2	5
	-20.1	2.7	9929	22 33 16.2	5
	24.8			44	
	- 80.4			- 144	
125	9.3	4.7	9919		
	-17.0	2.8	9929		
	37.2			67	
	- 68.0			- 122	
126	21.1	4.8	9919		
	- 5.2	2.9	9929		
	84.4			151	
	- 20.8			- 37	
127	~~17.3~~ ~~+2.3~~	-15.3	9919	22 30 8.2	
	- 5.1	4.9	9928	22 32 50.7	
	~~69.2~~ ~~49.2~~			125.2 v ~~89~~ v	
	- 20.4			- 37	

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1922phae.proj.2308M

V

7	55	4/6.f	22	29	40	-55°	57.2	eF .2'd 16M
	56	7.1		29	41	-55°	57.0	
		1.79		29	40		57.1	
				1	35		+7.7	
			22	31	15	-55°	49.4	
2	56	7.1	22	30	52	-56°	2.5	F .3'd bM
	56	5.2		30	52		2.3	
		1.79		30	52		2.5	
				1	36		+7.7	
			22	32	28	-55°	54.8	
			22	31	15	-56°	2.4	vF .2'd
				31	14		2.4	
		1.79		31	14		2.4	
				1	36		7.7	
			22	32	50	-55°	54.7	
			22	32	39	-56°	2.3	eF .2'd bM 1E at 110°?
				32	39		2.3	
		1.79		32	39		2.3	
				1	35		7.8	
			22	34	14	-55°	54.5	
2	56	7.1	22	~~31~~ 32	~~37~~ 13	-56°	22.4	eF .6' by .1' at 170°
7	56	27.0		32	14		22.1	
		1.81		32	14		22.2	
				1	36		+ 7.7	
			22	33	50	-56	14.5	

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1922phae.proj.2308M

128	9.2	14.1	7981	22 32 29.0	5
	6.6	−11.1	7984	22 32 51.0	5
	36.8			70	
	26.4			50	
129	5.9	3.5	7988	22 38 20.7	5
	−18.0	−8.8	8002	22 41 28.5	5
	23.6			46	
	−72.0			−140	
130	16.2	−1.1	7998		
	−7.5	−13.2	8002		
	64.8			126	
	−30.0			−58	
131	18.7	−4.4	7994		
	−5.1	−16.9	8002		
	74.8			145	
	−20.4			−40	
132	17.1	4.3	7994		
	−6.7	−7.9	8002		
	68.4			136 ✓	
	−26.8			−53 ✓	

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1922phae.proj.2308M

58 29.4	22 33 39	−58° 15.3	pB 1.0d 9pssbM	
56 4.6	33 41	15.7		
1.90	33 40	15.5		
	1 37	+7.8		
	22 35 17	−58 7.7		
58 58.9	22 39 9	−58° 55.4	pF 3by.1 at 30°	
58 47.0	39 8	55.8	spin.	
1.94	39 8	55.6		
	1 35	+7.9		
	22 40 43	−58° 47.7		
	22 40 29	−54° 0.0	pB 1by.1 at 95°	
	40 30	−54° 0.2		
1.94	40 30	0.1		
	1 36	+7.9		
	22 42 6	−58° 53.2		
	22 40 48	−59° 3.3	pF .2d bM	
	40 48	−59° 3.9		
1.94	40 48	3.6		
	1 36	+7.9		
	22 42 24	−58° 55.7		
	22 40 39	−59° 54.6	pF .2d bM	
	40 35	54.9		
1.99	40 37	54.8		
	1 36	+7.9		
	22 42 13	−58 46.9		

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1922phae.proj.2308M

133	4.6	1.9	8001	22 40 32.0
	-18.2	4.8	8007	22 43 24.0
	18.4			35
	-72.8			-140
134	4.7	10.3	10148	22 42 1.2
	-1.6	-12.8	10150	22 42 45.2
	18.8			35
	-6.4			-12
			Plate No. 7413	
1	11.1	1.1	10996	17 57 19.9
	-7.2	3.1	11010	17 59 19.4
	44.4			72
	-28.8			-47
2	16.1	-5.9	11045	18 4 42.2
	-8.2	4.3	9038	18 7 21.5
	64.4			107
	-32.8			-54
3	2.7	5.2	8804	18 7 52.7
	2.1	-2.8	8805	18 7 56.7
	10.8			19
	8.4			15

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1922phae..proj..2308M

58	35.0	22	41	7.	−58°	33.1	F .4′ by .1′ at 50°				
58	38.0		41	4		33.2					
	1.92		41	6		33.2					
			1	35		+7.9					
		22	42	41	−58°	25.3					
57	32.3	22	42	36	−57°	22.0	F ab. .2′ d bM				
57	9.4		42	33		22.2					
	1.85		42	34		22.1					
			1	34		+7.9					
		22	44	8	−57°	14.2					
52	5.8	17	58	32	−52°	4.7	pF 1′ by .5′ at 60° g,psbM				
52	7.7		58	32		4.6	spir?				
	1.63		58	32		4.6					
			2	0		0.0					
		18	0	32	−52°	4.6					
52	50.9	18	6	29	−52°	56.8	vF .3′ bM				
53	1.5		6	28	−52°	57.2					
	1.66		6	28		57.0					
		h	2	0		+0.3					
		18	8	28	−52°	56.7					
54	41.3	18	8	12	−54°	44.1	pF .7′ RbM				
54	41.3		8	12		44.1					
	1.73		8	12		44.1					
		h	2	4		+0.3					
		18	10	16	−54°	44.4					

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1922phae.proj.2308M

			Plate No. 7378	
I	4.8	5.8	9837	16 32 9.9
	-1.7	-0.3	9849	16 32 40.4
	19.2			31
	- 6.8			- 11
2	-0.3	2.5	9897	16 35 55.4
	- 1.2	- 6.1	9899	16 36 1.9
	- 1.2			- 2
	- 4.8			- 8
			Plate 5914	
I	1.6	1.3	5810	13 49 31.4
	- 6.8	2.9	5815	13 50 27.9
	6.4			11
	- 27.2			- 46
2	7.0	7.3	5821	13 51 25.9
	- 3.9	- 2.8	5831	13 52 39.4
	28.0			47
	- 15.6			- 26
			Plate 9074	
I	1.3	0.2	12044	22 28 15.9
	- 4.0	- 5.9	12046	22 28 51.4
	5.2			9
	- 16.0			- 26

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1922plate.proj.2308M

51	28.1	16 32 41	-51° 19.3	eF .2'by.05' at 45°	
51	19.2	32 29	-51° 19.5	D x ?	
	1.60	32.35	19.4		
		1 56	- 3.1		
		16 34 31	-51° 22.5		
51	17.8	16 35 53	-51° 15.3	eF .1'by.05' at 135°	
51	9.1	35 57	-51° 15.2		
	1.60	35 54	15.2		
		+ 1 56	- 3.1		
		16 37 50	-51° 18.3		
53	25.9	13 49 42	-53° 24.6	vF .6'by.1' at 160°	
53	27.2	49 42	-53° 24.3	def. spin	
	1.68	49 42	24.4		
		1 38	- 7.4		
		13 51 20	-53° 31.8		
53	14.2	13 52 13	-53° 6.9	vFR .2d pvbM	
53	4.2	52 13	-53° 7.0		
	1.67	52 13	7.0		
		1 38	-7.4		
		13 53 51	-53° 14.4		
52	17.0	22 28 25	-52° 16.8	cF .3'by.1' at 90° bM	
52	10.9	28 25	-52° 16.8	spin	
	1.64	28 25	16.8		
		+ 1 34	+7.7		
		22 29 59	-52° 9.1		

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1922phae.proj.2308M

2	-0.7	-3.0	10329	22 32 23.9
	-3.7	5.6	10330	22 32 44.9
	- 28			- 5
	- 14.8			- 25
3	1.7	4.5	10335	22 33 57.9
	~~-14.6~~ 10.2	~~-0.1~~ 11.5	~~10336~~ 10334	22 ~~34 35.4~~ 33 11.4
	6.8			11
	~~-59.2~~ 40.8			~~-100~~ 68.5
4	6.7 ~~11.7~~	5.4	10335	
	~~-10.1~~ 15.0	0.8	~~10336~~ 10334	
	~~46.8~~ 26.8			45.2 ~~79~~
	~~-40.4~~ 60.0			~~-68~~ 101.4
5	3.1	8.7.	10344	22 38 40.4
	-4.3	-0.9	10347	22 39 30.6
	12.4			21
	- 17.2			- 29
			Plate 5994	
1	2.4	-3.1	6035	15 23 53.8
	2.0	-3.3	6040	15 23 54.8
	11.2			23.0 ~~21.2~~ 12.5 ~~36.4~~
	8.0			

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1922phae.proj.2308M

53°	38.9	22 32 19	−53°	41.9	eF eS bM alm *	
53°	47.5	32 19	−53°	41.9		
	1.69	32 19		41.9		
		1 34		+7.7		
		22 33 53	−53°	34.2		
53	46.1	22 34 9	−53°	41.6	vF . 3′d	
53	~~41.8~~ 53.1	~~32 55~~	−53°	~~41.9~~		
	1.69	22 34 10		41.6		
		34 10		41.6		
		1 33		+7.8		
		22 35 43	−53°	33.8		
		22 34 43 ~~35 17~~	−53°	40.7	vF , 3′d. lbM	
		~~33 27~~ 34 43		41.0		
	1.69	34 43		40.8		
		1 33	−53°	+7.8		
		22 36 16		33.0		
53	31.3	22 39 1	−53°	22.4	eF . 2′d bM	
53	22.1	39 2	−53°	23.0		
	1.68	39 2		22.7		
		1 32		+7.9		
		22 40 34	−53°	14.8		
58	46.7	15 24 16.8	−58°	43.6	pB , 5′ by, 3′ at 80° bi N	
58	40.2	15 24 17.3	−58°	43.5	O Like dumbell neb.	
	1.93	24 17.0		43.6		
		1 59		−5.3		
		15 26 16	−58°	48.9		

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1922phae.proj.2308M

Plate No. 9068

1	8.1	16.2	.7809	20 57 48.5	5
	-5.6	-19.2	.9798	20 59 33.0	5
	32.4			61	
	-22.4			-42	
2	5.3	0.3	7673	20 58 26.0	5
	-8.8	2.8	7676	21 0 16.0	5
	21.2 ✓			42 ✓	
	-35.2 ✓			-69	
3	-1.1	6.8	7813	21 0 36.0	5
	-2.5	-6.2	7814	21 0 46.0	5
	-4.4			-8	
	-10.0			-19	
4	7.3	-3.1	7801	21 0 35.5	5
	-11.8	8.3	9808	21 2 57.7	5
	29.2			54	
	-47.2			-88	
6	10.1	-7.7	9801		
	-9.1	3.9	9808		
	40.4			76	
	-36.4			-68	

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1922phae.proj.2900M

58	16.2	20	58 49	-58°	0.0	cF .3' bM
57	41.1		58 51	-58°	0.3	
	1.89		58 50		0.2	
			1 55		+5.9	
		21	0 45	-57°	54.3	
59	20.0	20	59 8	-59°	19.7	vF .2' bM
59	22.6 ✓		59 7	-59°	19.8	
	1.96		59 8		19.8	
			1 57		+5.9	
		21	1 5	-59°	13.9	
58	46.6	21	0 28	-58°	39.8	eF .2' by .1' at 130°
58	33.8		0 27		40.0	spin
	1.92		0 28		39.9	
			1 55		+5.9	
		21	2 23	-58°	34.0	
57	31.7	21	1 30	-57°	34.8	eF .3' by .1' at 15° spin
57	43.3		1 30	-57°	35.0	
	1.86		1 30		34.9	
	1.87		1 54		+5.9	
		21	3 24	-57°	29.0	
		21	1 52	-57°	39.4	eF .3' by .1' at 20° spin
			1 50		39.4	
	1.87		1 51		39.4	
			1 54		+6.0	
		21	3 45	-57°	33.4	

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7/	12.9	-7.9	9801	21 0 35.5	3
	-6.7	3.7	9808	21 2 57.7	5
	51.6			96	
	-26.8			-50	
8/	17.9	-15.3	9801		
	-1.3	-3.9	9800		
	71.6			134	
	-5.2			-10	
5	13.9	5.2	9800	21 0 27.0	3
	-8.5	2.1	9809	21 3 12.1	5
	55.6			103	
	-34.0			-63	
9/	1.2	-2.4	7819	21 3 17.5	5
	-10.1	8.0	7681	21 4 44.8	5
	4.8			9	
	-40.4			-78	
10/	5.1	-4.8	7819		
	-8.3	5.7	7681		
	12.4			24	
	-33.2			-64	

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V

57	31.7	21	2	12	-57° 39.6	vF .7'by.1' at 15° spin
57	43.3		2	8	-57° 39.6	
	1.87			10	39.6	
			1	54	+6.0	
		21	4	4	-57° 33.6	
		21	2	50	-57° 47.0	pF 1.1' by.1' at 15°
			2	48	47.2	vlbM
	1.87		2	49	47.1	
			1	53	+6.0	
		21	4	42	-57° 41.1	
57	26.0	21	2	10	-57° 21.6	F .2' d bMR
57	23.3		2	9	-57° 21.2	
	1.85		2	10	21.5	
			1	54	+6.0	
		21	4	4	-57° 15.5	
58	51.7	21	3	27	-58° 54.1	eF .3'by.1' at 120°
59	2.0		3	27	-58° 54.0	
	1.94		3	27	54.0	
			1	55	+6.0	
		21	5	22	-58° 48.0	
		21	3	42	56.5	vF .6 by.1 at 60° bet 2 st.
			3	40	56.3	spin
	1.94		3	41	56.4	
			1	55	+6.0	
		21	5	36	-58° 50.4	

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11	3.2	2.0	7822	21 5 47.5	5
	0.1	-17.1	7824	21 6 11.5	5
	12.8			24	
	0.4			1	
12	0.3	-5.2	7841	21 6 31.2	5
	-3.1	8.1	7846	21 6 57.5	5
	1.2			2	
	-12.4			-24	
13	1.1	-2.1	7844		
	-2.2	11.2	7846		
	4.4			9	
	-8.8			-17	
14	4.8	-12.0	7889	21 9 32.0	5
	-4.1	8.0	7890	21 10 44.5	5
	19.2			38	
	-16.4			-32	
15	8.4	6.7	7899	21 9 32.0	5
	-8.8	-10.2	7892	21 11 45.0	5
	33.6			66	
	-35.2			-69	

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V

58	33.4	21	6 12	-58° 31.4	vF .5'b y .1'at 90°
58	14.4		6 13	-58° 31.5	
	1.91		6 12	31.4	
			1 54	+6.1	
		21	8 6	-58° 25.3	
59	4.0	21	6 33	-59° 9.2	eF R .25'd bM
59	17.1		6 34	-59° 9.0	
	1.95		6 34	9.1	
			1 56	+6.1	
		21	8 30	-59° 3.0	
		21	6 40	-59° 6.1	vF .7'by .1'at 100° spin
			6 41	5.9	b.p.
	1.95		6 40	6.0	
			1 56	+6.1	
		21	8 36	-58° 59.9	
59	19.9	21	10 10	-59° 31.9	vF .1'd bM alm*
59	39.6		10 12	-59° 31.6	
	1.97		10 11	31.8	
			1 55	+6.2	
		21	12 6	-59° 25.6	
59	19.9	21	10 38	-59° 13.2	vF .15'd RbM
59	3.6		10 36	-59° 13.8	
	1.95		10 37	13.5	
			1 55	+6.2	
		21	12 32	-59 7.3	

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16	11.0	-5.4	7f28	21 f 9.5
	-4.1	-7.7	7f29	21 10 2.0
	44.0			84
	-16.4			-31
17	-0.2	6.7	7f29	21 10 2.0
	-2.4	-10.1	9f29	21 10 20.2
	-0.8			-2
	-9.6			-18
18	9.8	2.2	7f29	
	7.6	-14.3	9f29	
	39.2			74
	30.4			57
19	0.3	-9.9	9f17	21 6 33.7
	-23.2	-3.0	9f25	21 9 29.2
	1.2			2
	-9.8			-174
20	12.1	-4.0	9f17	
	-11.5	2.8	9f25	
	48.4			90
	-46.0			-86

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V

5f	4.2	21	9	34	-58° 9.6	pB 1.5' by .2' at 130°
5f	2.2		9	31	-58° 9.9	bM "spin"
	1.90		9	32	9.8	
			1	54	+6.2	
		21	11	26	-58° 3.6	
5f	2.2	21	10	0	-57° 55.5	eF .1' d bM
57	45.5		10	2	-57° 55.6	
	1.88		10	1	55.5	
			1	52	+6.2	
		21	11	53	-57° 49.3	
		21	11	16	-57° 59.9	eF .2' d
			11	17	-57° 59.8	
	1.89		11	16	-57° 59.9	
			1	52	+6.2	
		21	13	8	-57° 53.7	
57	26.1	21	6	36	-57° 36.0	vF .4' by .1' at 0°
57	32.9		6	35	-57° 35.9	
	1.87		6	36	36.0	
			1	53	+6.1	
		21	8	29	-57° 29.9	
		21	8	4	-57° 30.1	eF .1' d bM
			8	3	30.1	
	1.86		8	4	30.1	
			1	52	+6.1	
		21	9	56	-57° 24.0	

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21	17.9 ~~15.0~~ -5.5 ~~71.6~~ ~~60.0~~ -22.0	-4.0 2.9	9817 9825	21 6 33.7 5 21 9 29.2 5 133 ~~167~~ H2 ✓ -41 ✓
22	1.1 -6.9 4.4 -27.6	-1.7 13.9	9540 9542	21 4 24.9 5 21 5 19.4 5 8 ✓ -49 ✓
23	-0.7 -11.9 -2.8 -47.6	-3.0 0.0	9545 9614	21 6 9.1 5 21 7 30.0 5 -5 -85
24	~~8.7~~ ~~15.7~~ -2.9 ~~34.8~~ ✓ ~~54.8~~ -11.6 ✓	-2.0 0.9	9545 9614	62.3 ~~98~~ -21 ✓
25	11.1 -12.0 ~~44.1~~ -48.0	-3.7 -11.9	9556 9563	21 9 12.9 5 21 11 56.9 5 79 -85

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V

	57	26.7	21	8	47 26	-57° 30.1	eF .1d 6M	
	57	32.9		8	48	-57° 30.0		
		1.86		8	48	30.0		
				1	52	+6.2		
			21	10	40	-57° 23.8		
	55	30.0	21	4	33	-55° 31.7	F .1d 6M IE?	
	55	45.6		4	30	-55° 31.5		
		1.77		4	32	31.6		
				1	51	+6.0		
			21	6	23	-55° 25.6		
	55	59.6	21	6	4	-56° 2.6	eF .7bq-1 at 105°	
	56	2.5		6	5	-56° 2.5	susp	
		1.79		6	4	2.6		
				1	52	+6.1		
			21	7	56	-55° 56.5		
			21	7	11 7	-56° 1.6	vF R-.5dqbM	
				7	9	-56° 1.6		
		1.79		7	10	1.6		
				1	52	+6.1		
			21	9	2	-55° 55.5		
	55	39.0	21	10	32	-55° 42.7	cF .5d qbM	
	55	30.8		10	31	-55° 42.7		
		1.78		10	32	42.7		
				1	50	+6.2		
			21	12	22	-55° 36.5		

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26	10.7 ~~23.2~~ −6.1 42.8 ~~92.8~~ −24.4	−4.2 14.7	9625 9631	21 11 27.7 21 13 32.2 ~~32.4~~ ~~68~~ − 44
27	10.0 −8.7 40.0 −34.8	−6.8 −7.2	9569 9584	21 13 56.1 21 16 9.4 72 − 62
28	13.7 −5.1 54.8 −20.4	0.2 −0.4	9569 9584	98 − 37
29	7.0 21.0 28.0 8.0	−1.0 7.1	9582 9584	21 15 34.9 21 16 7.4 50 14
30	13.2 −14.4 52.8 − 57.6	±1.8 −13.2	9845 9856	21 15 28.7 21 18 53.2 98 − 107

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56	23.0	21	~~11~~ 12 ~~+6~~ 45	-56°	27.2	vF, 1d bM
56	41.9		12 48	-56°	27.2	
	1.81	21	12 46		27.2	
			1 50		+6.3	
		21	14 36	-56	20.9	
55	58.4	21	15 10	-56°	5.2	vF, 1d bM
55	58.0		15 7	-56°	5.2	
	1.79		15 8		5.2	
			1 50		+6.3	
		21	16 58	-55	58.9	
		21	16 36	55°	58.2	eF, 1d bM
			16 32	55°	58.4	
	1.79		16 34		58.3	
			1 49		+6.3	
		21	18 23	-55°	52.0	
55	49.9	21	16 25	-55°	30.7	vF, 1d bM
55	58.0		16 23	-55°	50.9	
	1.78		16 24		50.8	
			1 49		+6.3	
		21	18 13	-55	44.5	
57	22.4	21	17 7	-57°	24.2	eF, 2d bM
57	11.2		17 6	-57°	24.4	
	1.86		17 6		24.3	
			1 51		+6.3	
		21	18 57	-57	18.0	

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31	20.1	17.5	9845	21 15 28.7	5
	-7.8	6.0	9856	21 18 53.2	5
	80.4			148	
	-31.2			-57	
32	4.1	-0.7	9847	21 18 46.0	5
	-8.7	6.5	7852	21 20 23.0	5
	16.4			31	
	-34.8			-66	
33	10.3	0.4	7704	21 21 49.0	5
	-4.4	2.3	7710	21 23 47.0	5
	41.2			82	
	-17.6			-35	
34	7.0	14.3	7857	21 21 49.5	5
	-20.0	-2.0	7862	21 25 14.0	5
	28.0			53	
	-80.0			-152	
35	5.2	-7.2	9599	21 21 9.7	5
	-2.3	0.9	9604	21 22 5.2	5
	20.8			37	
	-9.2			-16	

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7	57.	22.4	21	17 57	-57°	4.9	eF, 3'by. 1' at #5°
2	57	11.2		17 56	-57°	5.2	
		1.84		17 56		5.0	
				1 51		+6.3	
			21	19 47	-56°	58.7	
0	58	22.0	21	19 17	-58°	22.7	eF, 1'd bM
0	58	29.3		19 17	-58	22.8	
		1.91		19 17		22.8	
				1 52		+6.4	
			21	21 9	-58°	16.4	
0	59	57.2	21	23 11	-59°	56.8	vF, 2'd qbM
	59	59.1		23 12	-59°	56.8	
		2.00		23 12		56.8	
				1 52		+6.5	
			21	25 4	-59°	50.3	
	58	25.8	21	22 43	-58°	11.5	eF, 1'd bM
	58	9.3		22 42	-58°	11.3	
		1.90		22 42		11.4	
				2 1		+4.9	
			21	24 43	-58°	6.5	
7	55	40.9	21	21 47	-55°	48.1	vF, 3'd qbM
	55	49.0		21 49	-55°	48.1	
		1.78		21 48		48.1	
				1 48		+6.4	
			21	23 36	-55°	41.7	

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36	3.7	-4.8	9658	21 22 11.0	5
	-6.1	4.8	9665	21 23 21.1	5
	14.8			27	
	-24.4			- 45	
37	11.3	-10.5	9611	21 23 31.2	5
	-5.0	-6.0	9619	21 25 26.2	5
	45.2			79	
	- 20.0			- 35	
38	6.0	-0.9	9620	21 25 37.7	5
	-2.5	3.1	9624	21 26 35.7	5
	24.0			42	
	- 10.0			- 18	
39	6.2	8.5	9688	21 24 33.2	57
	-2.3				
	~~2.3~~	+17.1	9691	21 25 38.7	57
	24.8			46 ✓	
	~~9.2~~			- 17.0 ✓	
	-9.2				
40	12.0	11.2	9683	21 27 510	5
	-0.8	-0.1	9689	21 28 38.0	5
	48.0			86	
	- 3.2			- 6	

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56	50.0	21	22	38	-56°	5'4.F	vF .3'64.1' at 25° spin			
56	59.4		22	36	-56°	5'4.6	bM			
	1.83		22	37		54.7				
			1	49		+6.5				
		21	24	26	-56°	48.2				
55	2.2	21	24	50	-55°	12.7	F .2d gbM			
55	6.5		24	51		12.5				
	1.75		24	50		12.6				
			1	47		+6.5				
		21	26	37	-55°	6.1				
55	34.1	21	26	20	-55°	35.0	eF .3d iR bM			
55	38.2		26	18	-55°	35.1				
	1.77		26	19		35.0				
			1	47		+6.5				
		21	28	6	-55°	28.5				
57	37.9	21	25	19	-57°	29.4	eF .3d gbM			
57	12.4		25	~~57~~ 22	-57°	29.5				
	1.86		25	20		29.4				
			1	50		+6.5				
		21	27	10	-57°	22.9				
56	22.5	21	28	31	-56°	11.3	eF eS bM alm*			
56	11.3		28	32	-56°	11.4				
	1.80		28	32		11.4				
			1	48		+6.6				
		21	30	20	-56°	4.8				

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41	12.7	12.0	96f3	21 27 30.0	5
	-0.1	-4.3	96f6	21 28 ~~30~~ 3.0	5
	50.8			91	
	- 0.4			- 1	
42	5.7	7.7	964f	21 30 38.7	5
	-5.9	2.1	9654	21 31 58.5	55
	22.8			41	
	-23.6			- 42	
			Plate 9071		
1	4.9	4.8	1728	21 30 24.0	75
	-2.9	-8.6	1729	21 32 23.9	75
	19.6			79	
	-11.6			- 47	
2	-5.1	20.3	1134	21 55 48.0	79
	-6.3	-8.7	1135	21 57 59.5	79
	-20.4			- 110	
	-25.2			- 136	
3	-5.0	19.3	1134		
	-5.4	-9.7	1135		
	-20.0			- 108	
	-21.6			- 116	

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56	22.5	21	28	36	-56° 15.5	eF .1d bM
56	11.3		28	37	-56° 16.6	
	1.80		28	36	16.0	
			1	48	+6.6	
		21	30	24	-56° 9.4	
55	59.4	21	31	20	-55° 51.7	eF .3 by .2' at 150°
55	54.2		31	16	-55° 52.1	spin?
	1.78		31	18	51.9	
			1	46	+6.6	
		21	33	4	-55° 45.3	
75	46.6	21	31	43	-75° 40.7	pF .1 by .2' at 50° bM
75	32.0		31	37	-75° 40.4	spin
	4.04		31	40	40.6	
			2	36	+6.6	
		21	34	16	-75° 34.0	
79	38.1	21	53	58	-79° 17.8	cF .3d bMR
79	9.4		53	44	-79° 18.1	
	5.38		53	51	18.0	
	5.39		2	50	+7.1	
		21	56	41	-79° 10.9	18.7 ~~18.9~~ ?
		21	54	0	-79° 18.7	cF .3d bMR
			54	4	-79° 19.1	
	5.39		54	2	18.9	
			2	50	+7.1	Sue.
		21	56	52	-79° 11.8	

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4/	-2.5	18.4	1134	21 55 46.0
	-3.0	-10.7	1135	21 55 59.5
	-10.0			-54
	-12.0			-65
5/	15.2	8.1	1436	21 56 50.0
	-1.9	-10.1	1439	22 2 27.0
	60.8			300
	-7.6			-37
6/	10.3	-6.9	1543	21 50 52.5
	-17.9	19.1	1547	21 58 50.0
	41.2			173
	-71.6			-300
			Plate No. 2580	
1/	-2.1	4.0	2631	11 6 33.3
	-3.8	-16.1	2638	11 6 45.0
	-8.4			-17
	-15.2			-31
2/	4.8	5.0	2631	
	3.2	-15.4	2638	
	19.2			39
	12.8			26

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~~Start checking Dec 1921 Zones~~ 6<

79	38.1	21	54	54	-79°	19.7	cF .3'd bM R	
79	9.4		54	55	-79°	20.1		
	5H0		54	54		19.9		
			2	49		+7.1		
		21	57	43	-79°	12.8		
78	24.9	22	1	50	-78°	16.8	pB R .2'd bM	
78	7.0	22	1	55	-78°	17.1		
	4.93		1	52		17.0	defect - see 4.14251	
			2	36		+7.2		
		22	4	28	-78°	9.8		
76	3.7	21	53	45	-76°	10.6	cF .3'by.2' at 30° bM spin	
76	19.3		53	50	-76°	10.2		
	4.19		53	48		10.4		
			2	28		+7.1		
		21	56	16	-76°	3.3		
						~~41.0~~		
60	45.0	11	6	16	-60°	41.0	pF .6'd bM	
60	25.0		6	14	-60°	41.1		
	2.04			15		41.0		
			1	3		-8.2 Proc		
		11	7	18	-60°	~~31.8~~		
						49.2		
		11	7	12	-60°	40.0	cF 1.5'by.3' at -10°	
			7	11		40.4		
	2.04			12		40.2		
			1	3		-8.2		
		11	8	15	-60°	48.4		

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3	2.0	9.2	2631	11	6 33.3
	0.7	-10.9	2638	11	6 45.0
	8.0				16
	28				6
4	3.3	12.5	2631		
	2.0	-7.2	2638		
	13.2				27
	8.0				16
5	2.0	-12.2	3483	11	22 2.0
	-2.2	-5.7	3493	11	22 36.5
	8.0				16
	-8.8				-17
6	2.1	-12.7	3483		
	-2.1	4.8	3493		
	8.4				16
	-8.4				-16
7			1954	11	11 48.5

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1922phae.proj.2308M

60	45.0	11	6	49	-60° 35.8	B 3d iF sts in 0
60	25.0		6	51	-60° 35.9	
	2.04			50	35.8	
			1	3	-8.2	
		11	7	53	-60° 44.0	
		11	7	0	-60° 32.5	B d6 4.0 by 25' iF
			7	1	32.2	
	2.03			0	32.4	
			1	3	-8.2	
		11	8	3	-60° 40.6	
59	3.8	11	22	18	-59° 16.0	pB R 3d 6M n.p of 2
59	21.0		22	19	-59° 15.9	
	1.96			18	16.0	
			1	7	-8.2	
		11	23	25	-59 24.2	
		11	22	18	-59° 16.5	pF 12d 6M n.s of 2
			22	20	16.2	
	1.96			19	16.4	
			1	7	-8.2	
		11	23	26	-59° 24.6	
62	1.0					cl iR 15.0 d st 11.....13

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8	3.9	-18.8	3702	11 27 10.6	5
	-10.5	3.0	3612	11 28 57.5	5
	15,6			30	
	-42.0			-82	
1 IC 5380			Plate 7033		
	-11.0	+8.2	3823	57 52.2	
2	~~-10.3~~	~~+4.1~~	~~3821~~	23 ~~54 23.2~~	66
	-6.1	6.4	3822	23 57 7.2	66
	-44.0			-110.0	
	~~-41.2~~			~~-103~~	
	-24.4			-61.0	
3	14.7	16.7	3821	23 54 23.2	6
	-12.3	-1.0	3824	23 58 51.9	6
	58.8			145	
	-49.2			-122	
5 I.C. 1532	4 IC 5382				
6	5.0	-3.3	3587	23 49 13.0	66
	-6.8	-2.4	3590	23 51 21.0	66
	20,0			55	
	-27.2			-75	
7	5.2	-10.0	3592	23 55 21.5	66
	-15.1	17.1	3597	23 59 0.0	66
	20.8			56	
	-60.4			-163	

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1922phae.proj.2008M

58	48.0	11	27	40	-59°	0.8	eF .3by.1' at 100° * N
59	3.8		27	36	-59°	0.8	pisb M
	1.94		27	38		0.8	
			1	9		-8.3	
		11	28	47	-59	9.1	
66	33.3 20.5	23	~~55~~ 52	~~16~~ 40	-66°	~~21.1~~ 24.6	eF .1d bM
66	31.3		56	6	-66°	24.9	
	2.50						

Wide P.A. 56 ~ S 2 Sat. different

66	20.5	23	56	48	-66°	3.8	pF 1.1'by.2' at 0° bM
66	2.9		56	50	-66°	3.9	spin
	2.47		56	49		3.8	
			1	18		+8.4	
		23	58	7	-65°	55.4	
68	45.0	23	50	8	-68°	48.3	eF .1d bM
68	46.1		50	6	-68°	48.5	
	2.77		50	7		48.4	
			1	21		+8.3	
		23	51	28	-68°	40.1	
68	4.0	23	36	18	-68°	14.0	eF .1d bM
68	30.7		56	17	-68°	13.6	
	2.70		56	18		13.8	
			1	18		+8.4	
		23	57	36	-68°	5.4	

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8	10.8	-18.3	3592	23 55 21.5
	-9.6	8.6	3597	23 59 0.0
	43.2			117
	-38.4			-104
9	12.8	-24.9	3592	
	-7.7	2.1	3597	
	51.2			140
	-30.8			-84
10	20.2	-19.8	3592	
	-0.1	7.3	3597	
	80.8			220
	-0.4			-1
11	9.0	6.1	3597	23 59 0.0
	-16.9	-16.1	1	0 3 35.0
	36.0			98
	-67.6			-184
13	14.6	6.3	3597	
	-11.2	-15.9	1	
	58.4			159
	-44.8			-122

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1922phae.proj.2008M

6f	40.0	23	57	19	-68° 22.3	vF .3d RbM
6d	30.7		57	20	-68° 22.1	
	2.71		57	20	22.2	
			1	18	+8.4	
		23	58	38	-68° 13.8	
		23	57	42	-68° 28.9	vF .2d bM
			57	36	28.6	6s Diff in RA
	2.73		57	39	28.8	
			1	18	+8.4	
		23	58	57	-68° 20.4	
		23	59	2	-68° 23.7	vF .1d bM
			58	59	-68° 23.4	
	2.72		59	1	23.6	
			1	17	+8.4	
		~~24~~ 0	0	18	-68° 15.2	
6f	30.7	0	0	38	-68° 24.6	eF .2d bM
6f	8.8		0	31	-68° 24.9	7s Diff in RA
	2.72			34	24.8	
			1	17	+8.4	
		0	1	57	-68° 16.4	
		0	1	39	-68° 24.4	vF .1d bM
			1	33	24.7	
	2.72		1	36	24.6	
			1	16	+8.4	
		0	2	52	-68° 16.2	

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1922phae.proj.2308M

12	3.1	-6.1	3597	23 59 0.0	6
	2.3	2.3	3598	23 59 6.5	60
	12.4			34	
	9.2			25	
14	3.0	11.9	1	0 1 22.4	67
	-1.8	-11.1	2	0 2 14.4	67
	12.0			31	
	-7.2			-19	
15	4.8	-3.4	1	0 3 35.6	60
	-38.0	-3.2	5	0 17 13.0	60
	19.2			52	
	-152.0			-409	
16	20.2	-5.1	1		
	-22.4	-4.8	5		
	80.8			218	
	-89.6			-242	
17	17.4	-13.3	1		
	-25.2	-13.0	5		
	69.6			189	
	-100.8			-273	

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6f	30.7	23	59	34	-68° 36.8	vF .1d bM
6f	39.2		59	31	-68° 36.9	
	2.74		59	32	36.8	
			1	17	+8.4	
		0	0	49	-68° 28.4	
67	35.5	0	1	53	-67° 23.6	F .3d pbM
67	12.5		1	55	-67° 23.6	
	2.60		1	54	23.6	
			1	16	+8.4	
		0	3	10	-67° 15.2	
6f	8.0	0	4	27	-68° 12.2	eF .1d bM
6f	9.1		4	24	-68° 12.3	
	2.69		4	26	12.2	
			1	15	+8.3	
		0	5	41	-68° 3.9	
		0	7	13	-68° 13.9	vF .2d bM
			7	11	13.9	
	2.70		7	12	13.9	
			1	14	+8.3	
		0	8	26	-68° 5.6	
		0	6	44	-68° 22.1	vF .6by.2 at 90° bM
			6	40	22.1	spin
	2.71		6	42	22.1	
			1	14	+8.3	
		0	7	56	-68° 13.8	

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18	32.9	-7.0	1	0 3 35.0	66
	27.9				
	-9.9	-6.4	5	0 17 13.0	66
	111.6			301	
	-39.6			-107	
19	10.8	-35.4	1	0 3 35.0	66
	-11.3	9.7	3	0 7 32.5	66
	43.2			119	
	-45.2			-125	
20	-0.2	-7.3	1	0 4 37.5	6
	-19.5	15.0	2	0 8 15.0	6
	-0.8			-2	
	-78.0			-222	
21	2.0	1.8	2	0 8 15.0	69
	-16.1	10.6	5	0 12 8.0	69
	8.0			23	
	-72.4			-207	
22	8.0	-5.1			
	-12.2	3.7			
	32.0			92	
	-48.8			-141	

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V

6f	ff	0	9 39	-68°	15.8	vF .2d bM		
6f	9.1		9 26	-68°	15.4			
	2.70		9 28		15.6			
			1 13		+8.3			
		0	10 41	-68°	7.3			
6f	8.f	0	5 34	-68°	44.2	eF eS		
6f	53.6		5 27	-68°	43.9			
	2.76		5 30		44.0			
			1 15		+8.3			
		0	6 45	-68°	35.7			
69	14.5	0	4 36	-69°	21.8	eF .1d bM		
69	36.8		4 33	-69°	21.8			
	2.84		4 34		21.8			
			1 15		+8.4			
		0	5 49	-69°	13.4			
69	36.8	0	8 38	-69°	35.0	vF .2d bM		
69	45.2		8 41	-69°	34.6			
	2.86		8 40		34.8			
			1 14		8.7			
		0	9 54	-69°	26.1			
		0	9 47	-69°	41.9	eF .1d bM		
			9 47		41.5			
	2.88		9 47		41.7			
			1 13		+8.3			
		0	11 0	-69°	33.4			

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25	20.0	-5.6	2	0 8 15.0	69
	-0.1	3.2	5	0 12 8.0	69
	80.0			230	
	-0.4			-1	
23	-4.4	15.2	10	0 11 42.0	70
	-7.2	-10.4	5	0 12 8.0	69
	-19.2			-56	
	-28.8			-84	
24	2.1	19.4	10		
	-0.2	-5.0	5		
	8.4			24	
	-0.8			-2	
29	10.0	-8.1	7	0 13 43.0	6
	-28.0	4.0	15	0 21 2.7	7
	40.0			116	
	-112.0			326	
26	15.0	-13.8	3	0 9 2.5	69
	-5.3	-11.9	6	6 12 53.0	69
	60.0			170	
	-21.2			-60	

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1922phae.proj.2308M

V

69	36.8	0	12	5	-69° 42.4	vF .1d bM
69	45.2		12	7	-69° 42.0	
	2.88		12	6	42.4	
			1	12	+8.3	
		0	13	18	-69° 34.1	
70	11.0	0	10	46	-69° 55.8	eF .1d bM
69	45.2		10	44	-69° 55.6	
	2.91 ✓		10	45	55.7	
			1	13	+8.3	
		0	11	58	-69° 47.4	
		0	12	6	-69° 51.2	eF .1d bM
			12	6	51.2	
	2.90		12	6	51.2	
			1	12	+8.3	
		0	13	18	-69° 42.9	
69	47.8	0	15	39	-69° 55.9	eF .5d
70	0.2		15	37	-69° 56.2	
✓	2.91		15	38	56.0	
✓			1	11	+8.3	
		0	16	49	-69° 47.7	
69	13.6	0	11	52	-69° 27.4	vF .2d psb M
69	15.8		11	53	-69° 27.7	
	2.83		11	52	27.6	
			1	12	+8.3	
		0	13	4	-69° 19.3	

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27	17.5	-5.2	3	0 9 2.5	69
	-2.9	-3.2	6	0 12 5 30	69
	70.0			198	
	-11.6			-33	
28	15.9	-9.7	3		
	-4.7	-7.6	6		
	63.6			181	
	-18.8			-53	
30	23.6	-9.5	3	0 7 32.5	6
	-19.0	11.7	9	0 15 26.0	6
	94.4			264	
	-76.0			-213	
31	29.7	-3.3	3		
	-13.0	17.8	9		
	118.8			330	
	-52.0			-145	
32	40.3	-6.5	3		
	-2.0	141.7	9		
	161.2			4150	
	-8.0			-22	

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V

69	13.6	0	12	20	-69°	18.6	eF .3'd bM
69	15.6		12	20	-69°	19.0	
	2.83		12	20		19.9	
			1	12		+8.3	
		0	13	32	-69°	11.6	
		0	12	3	-69°	23.3	eF .3'd bM 1Eat 0°
			12	0		23.4	
	2.84		12	2		23.4	
			1	12		+8.3	
		0	13	14	-69°	15.1	
68	53.6	0	11	56	-69	3.1	vF .6'by .1' at 160° spin
69	14.4		11	53	-	2.7	
	2.80		11	54		2.9	
			1	12		+8.3	
		0	13	6	-68°	54.6	
		0	13	2	-68°	56.9	pF .3'by.15' at 60°
			13	1	-68°	56.6	psbM spin
	2.78		13	2		56.8	
			1	12		+8.3	
		0	14	14	-68°	48.5	
		0	15	2	-69°	0.1	vF .3'by.2' at 95° bM
			15	4	-68°	59.7	
	2.79		15	3	-68°	59.9	
			1	11		+8.3	
		0	16	14	-68°	51.6	

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33	13.1	-8.1	10	0 17 63	6
	-31.7	14.2	12	0 25 36.2	6
	52.4			149	
	-126.8			-361	
34	29.4	-21.5	10		
	-15.2	1.0	12		
	118.6			342 ✓	
	-60.8			-175 ✓	
35	2.7	-27.0	11	0 19 48.7	68
	-2.0	-1.2	12	0 20 40.0	68
	10,8			30	
	-8,0			-22	
36	2.1	-18.8	11		
	-2.3	7.4	12		
	8,4			23	
	-9.2			-25	
37	6.7	-17.3	20	0 12 56.4	67
	-5.9	12.0	21	0 15 5.9	67
	26,8			70	
	-23,6			-61	

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V

3	69	21.2	0	19 35	-69°	29.3	vF .2d bM
2	69	413.7		19 35	-69°	29.5	
9		2.85		19 35		29.4	
1				1 9	°	+8.3	
			0	20 44	-69°	21.1	
			0	22 48	-69°	42.7	eF .2d bM
				22 41		42.7	
2		2.88		22 44		42.7	
5				1 8	°	+8.3	
			0	23 52	-69°	34.4	
7	68	26.2	0	20 19	-68°	53.2	eF .2d bM
2	68	522		20 18	-68°	53.4	
		2.78		20 18		53.3	
				1 9		+8.3	
			0	21 27	-68°	45.0	
1			0	20 12	-68°	45.0	eF 1d bM
				20 15		44.8	
3		2.76		20 14		44.9	
1				1 9		+8.3	
			0	21 23	-68°	36.6	
4	67	7.7	0	14 6	-67°	25.0	eF eS
	67	36.4		14 5	-67°	24.8	
		2.60		14 6		24.9	
				1 12	°	+8.3	
			0	15 18	-67°	16.6	

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38	7.7	−14.3	20	0 12 56.4	67
	4.9	15.0	21	0 15 5.9	67
	30,8			80	
	19,6			51	
39	0.9	6.1	20	0 12 56.4	67
	−2.9	−26.1	18	0 13 36.7	66
	3,6			9	
	−11.6			−30	
40	4.7	10.9	20		
	0.9	−21.6	18		
	18,8			48	
	3,6			9	
41	13.6	1.8	5	0 7 41.7	67
	−0.1	−6.0	6	0 9 54.2	66
	54.H			133	
	−0,H			−1	
42	18.1	64.0	5		
	4.4	56.4	6		
	72.4			171 ✓	
	17.6			H2 ✓	

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4	67	7.7	0	14 16	-67°	22.0	eF .2by .1at 170° spin
9	67	36.8		14 15	-67°	21.8	
		2.60		14 16		21.9	
				1 12		+8.3	
			0	15 28	-67°	13.6	
4	67	7.7	0	13 5	-67°	1.6	eF eSb M
7	66	35.3		13 7	-67°	1.4	
		2.56		13 6		1.5	
				1 12		+8.3	
			0h	14 18	-66°	53.2	
			0	13 44	-66	56.8	eF .1by .1' at 30° bM
				13 46	-66°	56.9	spin
8		2.55		13 45		56.8	
				1 12		+8.3	
			0	14 57	-66°	48.5	
7	65	57.0	0	9 55	-65°	55.2	vF .2d bM
12	65	49.3		9 53	-65°	55.3	
3		2.45		9 54		55.2	
				1 14		+8.3	
			0	11 8	-65°	46.9	
			0	10 33	-64°	53.0	F .3d bM ~~very near~~
				10 36	-64°	52.9	~~edge of Plate~~
		2.36		10 34		53.0	
2				1 14		+8.3	
			0h	11 48	-64°	44.7	

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1922phae.proj.2308M

43	7.1	6.1	20	0 15 5.7	6
	-16.9	0.0	27	0 19 21.6	66
	28.4			70	
	- 75.6			- 186	
44	6.2	-10.2	27	0 19 21.6	6
	4.1	16.0	28	0 19 43.7	66
	24.8			61	
	16.4			41	
45	2.8	5.1	24	0 17 4.4	67
	- 9.8	- 7.3	25	0 19 12.2	62
	11.2			28	
	- 39.2			- 100	
46	5.7	9.1	24		
	- 7.0	- 3.2	25		
	23.8			58	
	- 28.0			- 72	
47	1.1	-2.4	25	0 19 12.2	66
	-15.9	6.2	29	0 22 5.6	67
	4.4			11	
	- 63.6			- 163	

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1922phae.proj.2308M

V

5.7	66	8.8	0	16	16	-66°	2.7	eF .1d bM
.6	66	2.7		16	15	-66	2.7	
0		2.46		16	16		2.7	
6				1	11		+8.3	
			0	17	27	-65°	54.4	
6	66	2.7	0	20	23	-66°	12.9	vF .1d bM
7	66	2.7		20	25	-66°	12.7	
		2.47		20	24		12.8	
				1	10		+8.3	
			0	21	34	-66°	4.5	
4	67	12.3	0	17	32	-67°	7.2	eF .2d bM
2	66	59.9		17	32	-67°	7.2	
8		2.56		17	32		7.2	
0				1	11		+8.3	
			0	18	43	-66°	58.9	
			0	18	2	-67°	3.2	vF .2d bM
				18	0		3.1	
8		2.56		18	1		3.2	
2				1	11		+8.3	
			0	19	12	-66°	54.9	
.2	66	59.9	0	19	23	-67°	2.3	eF .2d bM
6	67	8.6		19	23	-67°	2.4	
11		2.56		19	23		2.4	
10			4	1	10		+8.3 Prec.	
			0	20	33	-66°	54.1	

Plate M1 up 8 Sept 12

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48	2.7	0.5	25	0 19 12.2
	-14.2	9.2	29	0 22 5.6
	10,8			28
	- 56,8			- 145
49	11.8	-4.9	25	
	- 5.1	3.8	29	
	47.2			121
	- 20,4			- 52
50	13.9	- 6.0	25	
	- 3.1	2.9	29	
	55.6			143
	- 12.4			- 32
51	-5.9	-20.8	29	0 22 5.6
	-21.2	8.4	32	0 24 47.5
	- 23.6			- 62
	- 84.8			- .221
52	9.0	- 9.2	29	
	- 6.2	20.0	32	
	36.0			94
	- 24.8			- 65

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V

66	59.9	0 19 40	−66° 59.4′	eFeSbM		
67	8.6	19 41	−66° 59.4′			
	2.56	19 40	59.4			
		+1 10	+8.3			
		0 20 50	−66° 51.1			
		0 21 13	−67° 4.8′	eF.1dbM		
		21 14	−67° 4.8′			
	2.57	21 14	4.8			
		1 10	+8.3			
		0 22 24	−66° 56.5			
		0 21 35	−67° 5.9′	eF.1dbM		
		21 33	−67° 5.9′			
	2.57	21 34	5.9			
		1 9	+8.3			
		0 22 43	−66° 57.6			
67	8.6	0 21 4	−67° 29.4′	eF.1dbM		
67	37.4	21 7	−67° 29.0′			
	2.61	21 6	29.2			
		1 10	+8.3			
		0 22 16	−67° 20.9			
		0 23 40	−67° 17.8′	eF.1dbM		
		23 43	17.4′			
	2.59	23 42	17.6			
		1 9	+8.3			
		0 24 57	−67° 9.3			

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53	10.8	30.2	11	0 19 48.7
	-17.4	-18.9	32	0 24 47.5
= 27 (new m.)	43.2			114
	- 69.6			- 184
54	-2.0	26.7	17	0 27 54.0
	-4.0	- 4.0	18	0 28 14.5
	- 8.0			- 22
	- 16.0			- 43
55	1.0	2.7	15	0 26 56.7
	-4.1	-2.9	17	0 27 54.0
	4.0			11
	- 16.4			- 45
56	11.2	- 2.8	16	0 27 24.0
	-8.4	- 3.0	21	0 31 4.0
	44.8			125
	- 33.6			- 93
57	6.3	7.2	22	0 32 34.0
	4.1	-14.8	23	0 33 1.0
	25.2			69
	16.4			45

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Decl 2

		h				
6f	26÷2	0	21 43	−67°	46.0′	vF .2d 6M R
6f	37.4		21 44	−67°	56.3′	
	2.64		21 44			
			1 9		+8.3 Prec.	
		0	22 53			

		h				
6f	36.3	0	27 32	−6f°	9.5	vF .2d 6M
6f	6.2		27 31	−6f°	10.2	
	2.69		27 32		9.8	
		h	1 7		+8.3	
		0	28 39	−68°	1 5	

						vF .2d 6M
6F	42.0	0	27 8	−6f°	39.3′	
6f	36.3		27 9	−6F°	39.2′	
	2.75		27 8		39.2	
		h	1 8		+8.3	
		0	28 16	−68°	30.9	

6f	51.1	0	29 29	−6f°	53.9′	eF .1d 6M
6f	50.6		29 31	−6f°	53.8′	
	2.78		29 30		53.8	
		h	1 6		+8.3	
		0	30 36	−68°	45.5	

6f	34.1	0	33 43	−6f°	30.9′	eF .1d 6M
6f	16.3		33 46	−6f°	31.1′	
	2.73		33 44		31.0	
		h	1 5		+8.3	
		0	34 59	−68°	22.7	

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