

REFLECTOR 3

1748 a 2924

Estado de las imágenes:

p = pulsante

m = móvil

d = difusa

i = irregular

$$D_{H_f} = 20 \frac{\text{Å}}{\text{mm}} ; F_c = 28,5$$

$$D_{H_f} = 40 \frac{\text{Å}}{\text{mm}} ; F_c = 25,5$$

} Para placas 103a-0 y II a-0
Fc con el vidrio esmerilado 1^a+1^s

11/11/57

Cámara 20 #/min. manualmente el uso anda en 2.

lectura 3	6^2	largo	5			
6	6^2		0		000	8
10	6^3		0	del	01	12
14	6^3		0	"	02	16 -
14	10^5		5	interna	03	20 -
18	10^5		5	interna		

13/11/57

2-0 6^5

6-0

11/11/57

11/11/57

TD

HL 0

1900 16:40,5

6-7/VIII/57

H

T.U

θ

t

HU 1748	1	α_1 Cru (4730)	$\Pi a-O$	4.5	22:03 - 22:07.5	15:11
1749	2	α_2 Cru (4731)	"	7.75	22:09 - 22:16:50	
1750	3	α_1 Cru (4730)	"	4.5	22:19:15 - 22:23:45	
1751	4	α_2 Cru (4731)	"	7.75	22:31:25 - 22:35:55 39:10	
1752	5	α_1 Cru (4730)	"	4.5	22:40:10 - 22:44:40	
1753	6	α_2 Cru (4731)	"	7.75	22:46:55 - 22:51:40	
1754	7	α_1 Cru (4730)	"	4.5	23:11:30 - 23:16:00	
1755	8	β TrA (5293)	"	45 ^m	23:27:30 - 0:12:30	
1756	9	α Pav (7790)	"	9 ^m	00:23:40 - 00:32:40	
1757	10	α Pav (7790)	"	9 ^m .5	00:34:25 - 00:43:55	

7-8/VIII/58

H

1758	1	α Pav (7790)	$\Pi a-O$	8.0	00:25:30 - 00:33:30	~ 17:45
1759	2	α Pav (7790)	"	8.5	00:34:15 - 00:42:45	~ 17:47
1760	3	α Pav (7790)	"	9.0	00:43:30 - 00:52:30	

10-11/VIII/58

K

 $\Delta T = 45:02$
T.U

T.S

t

1761	1	γ Lib (5812)	$\Pi a-O$	39	19:41 20:20	16:00 16:30	+0:46
1762	2	δ Sco (5928)	"	48	20:30 21:18	16:49 17:37	+1:10
1763	3	δ Sco (5944)	"	15	21:29 21:44	17:48 18:02	
1764	4	δ Sco (5953)	"	9	21:56 22:05	18:16 18:25	
1765	5	α Tel (6897)	"	35	22:18 22:53	18:38 19:13	
1766	6	γ Lep (3039)	"	28	23:03 23:31	19:23 19:51	
1767	7	γ Lep (4264)	"	30	23:39 24:04	19:59 20:29	

Ramma	lido	cham	arco	Temp
16-		1	3 ⁴⁵	12°3
"		2	"	12°3
"		3	"	12°3
"		1	"	12°2
"		2	"	
"		3	"	12°1
"		1	"	11°8
"		2	"	11°5 - 11°8
"		3	"	12°3
"		2	"	12°1

16-		1		10°8
"		2		10°8
"		3		10°7

16-5	5	1	2+2	8.9	10.5	10.4	
"	"	2	"	8.5	10.3	10.0	+ = +1:19
"	"	3	"	8.1	9.8	9.8	+2:02:30
"	"	1	"	7.8	9.8	9.8	+2:25
"	"	2	"	7.3	9.5	9.3	+0:34
"	"	3	"	7.1	9.1	9.0	+0:56
"	"	1	"	7.1	9.2	9.0	+1:09

11-12/VIII/58

H

T.U

HJ 1768	1	α Pav (7790)	IIa-0	(8.5)	00:46:00-00:54:30
1769	2	" "	"	(9.0)	00:55:00-01:04:00
1770	3	" "	"	(9.5)	01:04:45-01:14:15

13-14/VIII/58

H

1771	1	α Pav (7790)	IIa-0	8.5	23:20:50-23:29:20
1772	2	" "	"	9.5	23:30:00-23:39:30
1773	3	" "	"	10.5	23:40:10-23:50:10 49:40

22-23/VIII/58

H

1774	1	α Pav (7790)	IIa-0	(8.0)	00:44:20-00:52:30
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23-24/VIII/58

H

1775	1	α Pav (7790)	IIa-0	(8.0)	23:27:30-23:38:30
1776	2	" "	"	(8.0)	23:39:15-23:47:45
	3	" "	"		

24-25/VIII/58

H

1777	1	α Pav (7790)	IIa-0	(8.5)	49:30-22:58:00 22:40:15-22:48:45
1778	2	" "	"	(8.0)	22:58:45-23:06:45

27-28/VIII/58

H

1779	1	α Pav (7790)	IIa-0	9.0 (8.5)	00:54:00-01:02:30 01:00
1780	2	" "	"	(8.5)	01:04:20-00:13:00
1781	3	" "	"	(8.0)	01:14:00-01:22:00

16-12	5	1	mp algo velado	11°2
"	"	2	"	11°3
"	"	3	"	11°3

16-12	5	1	d	14°8
"	5	2	d	14°8
"	5	3	d	14°8

16-12	5	1		10°8
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16-12	5	1	3 ^s	12°5	pasando nubes
"	5	2	3 ^s		
		3			

16-12		1	3 ^s	12°0
"		2		

16-12		1	3 ^s	10°8	pasando nubes
"		2	"		
"		3	"	10°8	

28-29/VIII/58 H

No 1782 1 α Pav (7790) IIa-0 (8.0) 00:39:00-00:52:00

29-30/VIII/58 H

1783 1 α Pav (7790) IIa-0 (8.0) 22:04:00-22:12:00

1784 2 " " " (7.5) 22:13:00-22:20:30

1785 3 " " " (8.0) 22:21:45-22:29:45

30-31/VIII/58 H

1786 1 α Pav (7790) IIa-0 (8.0) 22:08:30-22:16:30

1787 2 " " " " 22:17:45-22:25:45

1788 3 " " " " 22:26:30-22:34:30

31-VIII-1/IX/58 H

1789 1 α Pav (7790) IIa-0 (7.5) 22:10:00-22:17:30

1790 2 " " " " 22:18:10-22:25:40

1791 3 " " " " 22:26:20-22:33:50

31/VIII-1/IX/58 K T.V T.A ±

~~1792 1 α Pav (7790) IIa-0 (45) 0:20 1:05 19:01 19:46 +0:56~~1792 2 β Cap (7716) " (48) 1:42 2:30 20:23 21:11 +0:311793 3 β Pav (7913) " (48) 2:45 3:33 21:26 22:14 +1:121794 4 δ Gem (8353) " (22) 3:46 4:08 22:24 22:49 +0:501795 5 α Gem (8425) " (75) 4:17 4:24.5 22:58 23:05.5 +1:00

16-12

1

901

Parando miles

16-12

5

1

1105

"

:

2

"

"

3

16-12

1

md

1404

4

2

1404

"

3

16-12

1

md

1600

"

2

1600

"

3

1600

~~16-5 5 1 2+2 14.1 15.5 15.5~~
~~" 4 1 2+2 13.5 15.1 15.0~~
~~" 4 1 2+2 12.7 15.0 14.6~~
~~" 4 1 2+2 12.1 15.0 15.0~~
~~" 4 1 2+2 12.1 14.3 14.3~~

1-2/IX/58

1796	4	2 ¹ / ₂ (7790)	IIa-0	(8.0)	00:38:30 - 00:46:10
1797	5	" "	"	"	00:47:00 - 00:55:00
1798	6	" "	"	(8.5)	00:55:45 - 01:01:15

4-5/IX/58

1799	1	3 ⁰ / ₄ (6175)	IIa-0	16	22:56:00 - 23:12:00
	2				

9-10/IX/58

K

T. U

T. J

1800	1	3 ⁴ / ₄ (6508)	IIa-0	(14)	23:04	23:18	18:24	18:38	+1:05,5
1801	2	2 ¹ / ₂ (6510)	"	(15)	23:28	23:43	18:48	19:02	+1:29,5
1802	3	2 ⁰ / ₄ (6533)	"	(11)	23:51	0:02	19:11	19:22	+1:45
	4	2¹/₂ (6571)	"	(35)	0:25	1:00	19:45	20:20	+1:41
1803	5	2 ¹ / ₄ (7039)	"	(28)	1:13	1:41	20:33	21:01	+2:06
1804	6	9 ⁰ / ₄ Cap (7776)	"	(48)	1:54	2:42	21:14	22:02	+1:22

15-16/IX/58

K

T. U

T. J

1805	1	3 ⁴ / ₄ (6508)	IIa-0	(14)	23:40	23:54	19:25	19:39	+2:06
1806	2	2 ¹ / ₂ (6510)	"	(15)	0:04	0:19	19:49	20:04	+2:30
1807	3	2 ¹ / ₄ (6897)	"	(35)	0:32	1:07	20:17	20:52	+2:13
1808	4	9 ⁰ / ₄ Cap (7776)	"	(60)	1:20	2:20	21:05	22:05	+1:18
1809	5	8 ⁰ / ₄ Gw (8353)	"	(22)	2:33	2:55	22:18	22:40	+0:40,5
1810	6	2 ¹ / ₂ Gw (8425)	"	(7,5)	3:02	3:49,5	22:47	22:57,5	+0:47
1811	7	2 ¹ / ₄ (8728)	"	(35)	3:22	3:25,5	23:07	23:10,5	+0:15

16-12 1 d. 180°

16-12 2 " 180°

16-12 3 " 180°

16-12 1 d. 150°

2

16-5 5 p 1 2+2¹ 9.1 12.5 12.5

" " 2 " 8.6 12.5 12.3

" " 3 " 8.3 12.2 12.0

~~" " 1 " 8.1 12.5 12.8~~

" " 2 " 8.1 12.5 12.3

" " 3 " 7.7 12.5 12.0

16-5 5 p 1 2+2¹ 12.9 14.4 14.5 $F_1 = 37.1$

" " 2 " 12.4 14.4 14.2

" 5 p 3 " 11.7 14.0 13.8

" " 1 " 11.5 14.5 14.1 $F_2 = 37.7$

" " 2 " 11.0 13.8 13.7

" " 3 " 10.8 13.5 13.5

" " 1 " 10.8 13.6 13.6

menas debe dar exposto.

		16-17/IX/58	K		T.U	T.S	
1812	1	α Ara (6510)	IIa-0	(15)	0:10 0:25	19:59 20:14	+2:40
1813	2	\odot Sco (6553)	"	(11)	0:36 0:47	20:25 20:36	+2:59
1814	3	55 ξ Ser (8561)	"	(48)	1:05 1:53	20:54 21:42	+3:45
1815	4	η Cap (7776)	"	(60)	2:04 3:04	21:53 22:53	+2:07
1816	5	24 α Ps A (8728)	"	(3,5)	3:14 3:45	23:03 23:06,5	+0:13

		17-18/IX/58	H				
1817	1	ζ Oph (6175)	IIa-0	(15 ^u)	23:02,5-23:18,5	18:55,0-	+2:30
1818	2	ζ Oph (6175)	"	(16 ^m)	23:22,7-23:38,7		
1819	3	α Pav (7790) α Pav (7790)	"	(85)	00:01,5-00:10,0		
1820	4	α Pav (7790)	"	(8,0)	00:14,5-00:22,5		

		2-4/X/58	H				
1821	1	λ Sco (6527)	IIa-0	(5,5)		20:43:45-20:49:15	+3:15
1822	2	λ Sco (6527)	"	(6,5)		20:50:00-20:56:30	

		7-8/X/58	K		T.U	T.S	
	1	α Tel (6897)	IIa-0	(35)	23:50 0:25	21:01 21:36	+2:53
1823	2	η Cap (7776)	"	(60)	0:49 1:49	22:00 23:00	+2:14
1824	3	α Gw (8425)	"	(7,5)	2:38 2:45,5	23:49 23:56,5	+1:49

16-5	5 d, m	1	2+2	14.6	16.5	16.4	F = 37.1
"	"	2	"	14.4	16.3	16.3	
"	"	3	4	14.1	16.1	15.8	
"	"	1	"	13.8	15.6	15.4	
"	"	2	"	13.6	15.6	15.6	

16-12	5	1	3 ^s	18°7
"	5	2	"	18°7
"	5	3	"	18°5
"	5	1	"	

16-5	5	1	3 ^s	13°0
"	5	2		122 - 12°3
"				

16-5	5 p. d m	1	2+2	20.0	21.3	21.2
"	"	2	"	19.3	21.0	20.8
"	"	3	"	18.3	20.7	20.7

	7/8-X-58	F		T _J	θ	δ
1825	1 α Can	IV-0	(15 ^m)	6:11-6:26	3:24-	-2:50
1826	2 α Can	IV-0	(20 ^m)	6:26-6:46	3:39	-2:32
1827	3 α Can	IV-0	(20 ^m)	6:46-7:06	3:59	2:12
1828	4 α Can	IIa-0	(70 ^s)	7:07:30-7:08:40		2:00
1829	5 α Can	IV-0	(25 ^m)	7:09-7:32		-1:47

A las 7:32 aproximadamente se produjo un corto circuito que

	8-9/X/58			T _U	θ (variación) Comienzo
1830	1 α TrA (6217)	10320	(25)	22:49-23:14	20:05 +3:23
1831	2 β Agr (8232)	"	(60)	23:32-00:32	20:47 -0:39
	3 ε Peg (8308)	"	(45)		

10-X-58 Se cambió la cámara de 20 A/mm por la 40 A/mm para A/mm esta empinada. F.

	12-13/E/58	K		T _U	T _J	
1832	1 α Gw (8425)	IIa-0	(7)	2:19 2:26	23:52 23:59	+1:51
1833	2 ε Gw (8675)	"	(48)	2:40 3:28	0:13 1:01	+1:53

	19-20/E/58	K		T _U	T _J	
1834	1 ε Gw (8675)	IIa-0	(48)	1:45 2:32	23:46 0:34	+1:24
1835	2 ε Gw (8675)	"	(48)	2:41 3:29	0:42 1:30	+2:20
1836	3 α Phe (99)	"	(35)	3:39 4:14	1:40 2:15	+1:34

16-5	5 md	1	$20^5 + 20^5 + 20$	14.6	18.8	18.5	imagen mala
		2	$20^5 + 20^5 + 20^5$		18.5	18.4	
		3	$20^5 + 20^4$		18.4	18.7	
		1	$2 + 1$		18.7		
		2	$20^5 + 20^5$		18.7		imagen mejor

dejo sin luz el antejo.

16-12		1			21.3		
"		2					
		3					

con errazo. Se encontró que la lente interior de la cámara de 20

16-5	5	2	$2+2$	17.5	19.8	19.8	
"	"	3	"	17.1	19.6	19.4	

16-5	5 d	1	$2+2$	19.4	22.2	21.8	
"	"	2	0	18.8	21.5	21.2	
"	"	3	"	18.5	21.0	20.6	

26-27/xi/58

T.U.

θ

t

1 β Cen (188) 103a-0 (25°) 0:23.5-0:51.0

2

29-30/xi/58 K

T.U

T.J

t

1 α Eri (897) 11a-0 (56) 2:28 3:24 3:05 4:01 +0:44

2 γ Eri (1247) " (58)

2-3/xii/58

1837	1	α Cen	11a-0 (90°)	2 01 - ?	
1838	2	"	" 90°	2 07-20830	
1839	3	"	"	2 1330-21500	+ 3 15
1838	4	"	"	2 1800-21930	- 3 10
1840	5	"	"	2 2330-22500	
1842	6	"	"	2 2830-23000	
1842	7	"	"	2 3300-23430	2 55
1843	8	"	"	2 3330-24500	
1844	9	"	100°	2 4830-25010	2 40
1845	10	"	100	2 5300-25440	
1846	11	"	100	2 5700-25840	2 31
1847	12	"	100	3 0100-3 0240	2 27
1848	13	"	100	3 0530-3 0710	← +8
1849	14	"	110°	3 1000-3 1150	2 18
1850	15	"	110°	3 1430-3 1620	2 14
1851	16	103a-0	80°	3 2000-3 2120	2 08
1852	17	"	80°	3 2330-3 2450	2 04

11 - línea 2 1

16-5 5 1 2+2 20.6 25.4 25.0
 4 1 2 4

16-5	5 m	1 2+2	19.8	
"	5 m	2 2+2	21.5	21.5
"	5 m	1 2+2		21.5
"	5 m	2 2+2	19.3	21.5
"	5	1 2+2		21.4
"	5	2 2+2		21.4
"	5	1 2+2		21.4
"	5	2 2+2		21.4
"	5	1 2+2		21.3
"	5	2 2+2		21.3
"	5	1 2+2		21.3
"	5	2 2+2		21.3
"	5	1 2+2		21.3
"	5	2 2+2		21.3
"	5	1 2+2	18.4	21.3

no se
 de carpeta
 adelantada 15

no salio nada

cotado, hace poco

se firmó el mstr. al
 encajarse en la
 sección

placa nueva
 "

TU

Summ 90 ^s

9/10 - XII - 58

1853	2	Car	IIa-0 (90 ^s)	2 0440-2 0620	2.55
1852	2		no time		
1854	3	"	90 ^s	2 12 00 - 2 13 30 2 12 00 - 2 13 30	
1853					
1855	4		90 ^s	2 20 30 - 2 22 00	
1856	5		90 ^s	2 24 20 - 2 25 50	
1857	6		100 ^s	2 28 00 - 2 29 40	2.32
1858	7		100 ^s	2 32 30 - 2 34 10	
1859	8		100 ^s	2 36 00 - 2 37 40	2.24
1859	9				

14-15/XII/58

K.

T. U.

T. J

t

1

IIa-0

18/13 - XII - 58

F

-TU

t

1860	1	Car	IIa-0	90 ^s	0 15 00 - 0 16 30	
1861	2	"		90	0 20 00	
1862	3			100 ^s	0 25 30 - 27 10	
1863	4			90 ^s	0 30 00 - 31 30	-3.56
1864	5			90	0 35 00 - 36 30	3.51
1865	6				0 40 00 - 41 30	
1866	7				0 45 00 - 46 30	3.40
1867	8				0 50 00 - 51 30	3.35
x	9				0 55 00 - 56 30	

20-5	5	1 2+2	25.8
		2	
	5	1 2+2	25.7
	5	2 2+2	
	5	1 2+2	23.0
	5	2 2+2	25.8
	5	1 2+2	
	5	2 2+2	25.8

noche muy buena
imágenes quietas

20-5 5 1 2+2

20-5	5	1 2+2	18.3	22.0
	5	2 2+2		22.0
	5	3 2+2		
	5	1 2+2		21.9
	5	2 2+2		21.8
	5	3 2+2		
	5	1 2+2		21.6
	5	2 2+2		
	5	3 2+2		21.4

flashes imágenes
noche buena

1868	10	✓ low	IIa-0 90°	100 00-101 30	
1869	11		90°	105 00-106 30	
1870	12		90°	110 00-111 30	
1871	13		90°	115 00-116 30	
1872	14		90°	120 00-121 30	3 06
1873	15			125 00-126 30	3 01
1874	16			130 00-131 30	
1875	17			135 00-136 30	
1876	18			140 30-142 00	
1877	19			148 00-149 30	
1878	20			150 30-152 00	
1879	21			155 00-156 30	2 30
1880	22			200 00-201 30	2
1881	23			205 00-206 30	
1882	24			210 00-211 30	
1883	25			215 00-216 30	2 10
1884	26			220 00-221 30	
1885	27			225 00-226 30	
1886	28			230 00-231 30	
1887	29			235 00-236 30	1 50
1888	30			240 00-241 30	
1889	31			245 00-246 30	1 40
1890	32			250 00-251 30	1 35
1891	33			255 00-256 30	

20-5	✓	1 2+2	17.2	
	✓	2 2+2		21.3
	✓	3 2+2		21.3
	✓	1 2+2		21.1
	✓	2 2+2		
	✓	3 2+2		
	✓	1 2+2		
	✓	2 2+2		21.0
	✓	3 2+2		
	✓	1 2+2		21.0
	✓	2 2+2		21.0
	✓	3 2+2		21.0
	✓	1 2+2		
	✓	2 2+2		20.8
	✓	3 2+2		
	✓	1 2+2	16.5	20.7
	✓	2 2+2		
	✓	3 2+2		20.7
	✓	1 2+2		
	✓	2 2+2		20.7
	✓	3 2+2		
	✓	1 2+2		20.7
	✓	2 2+2		
20-5	✓	3 2+2		

Mejoras, Estudiantes

1892	34	α Cen	$\Pi a-0$	90°	3 00 30-3 02 00	
1893	35				3 05 00-3 06 30	-1 20
1894	36				3 10 00-3 11 30	
1895	37				3 15 45-3 17 15	
1896	38				3 20 00-3 21 30	-1 05
1897	39				3 25 00-3 26 30	1 00

Parechía convenienti dalle meno espositi (per $\delta: 50^\circ$)

		20-XII-58	F.	Li Lielo _{TU}	$\delta = -55^\circ$	t
x	1	Cello	$\Pi a-G$	50°	12 57 00-12 57 50	-2 ^h
y	2	"	$\Pi a-G$	70°	13 00 30-13 01 40	
y	3	"	$\Pi a-G$	100°	13 02 10-13 03 50	

Ala 3 pade l'altale d'ada 50° y no 100° (2) Las (3) p'amen isuales.

		20-21/XII/58	K	T.U	T.1	
1898	1	γ Eri (1347)	$\Pi a-0$ (58)	2:50 3:48	4:50 5:48	+1:10
1899	2	γ Eri (1347)	" (58)	3:48 4:46	5:48 6:46	+2:09
1900	3	γ Cen (2491)	" (50 ¹)	5:04 5:04:50	7:04 7:04:30	+0:30

		22-XII-58	F.	TU		
1901	1	Cello $\delta = -55^\circ$	$\Pi a-G$	70°	14 11 10-14 12 20	-3 53
1902	2			70°	14 20 - 15 30	
1903	3			70°	20 30 - 21 40	-3 44
1904	4			60°	25 00 - 26 00	3 40
1905	5			60°	14 35 00 - 36 00	3 30
1906	6			60°	40 00 - 41 00	3 25

20-5	✓	1	2+2	16.4	20.8
	✓	2	2+2		20.8
	✓	3	2+2		
	✓	1	2+2		
	✓	2	2+2		20.8
	✓	3	2+2	16.2	

5	✓	1	2+2	22.6	20.2
✓		2	2+2		20.2
✓		3	1+2		20.2

Entre algo de luz por no
colocar un trapo negro
alrededor del tubo donde
re la cámara

El tiempo de exposición andaba pues en los 60s

20-5	5d	1	2+2	21.2	23.8	23.5
"	5d	2	"	20.6	23.5	23.2
"	"	3	"	20.3		23.0

20-5		1	2+2		
		2	2+2		23.2
		3	2+2	23.7	23.5
		1	2+2		23.8
		2	2+2	23.8	24.5
		3	2+2		24.8

22

TU

+

1907	7	Culo	IIa-G	60 ^s	11 45 00 - 46 00	-3 20
1908	8		"	"	49 00 - 50 00	
1909	9		"	"	11 55 00 - 56 00	
1910	10		"	"	12 00 00 - 12 01 00	3 05
1911	11		IIa-O	60 ^s	12 05 00 - 06 00	3 00
1912	12		IIa-G	60 ^s	12 15 00 - 16 00	2 50
1913	13		"	"	12 25 00 - 26 00	2 41
1914	14		"	"	12 30 00 - 31 00	2 35
1915	15		IIa-O	"	12 35 00 - 36 00	2 30
1916	16		IIa-G	"	12 40 00 - 41 00	2 25
1917	17		"	"	12 45 00 - 46 00	2 20
1918	18		"	"	12 50 00 - 51 00	2 15
1919	19		"	50 ^s	12 55 00 - 56 00	2 10
1 x 1920	20		"	50	13 05 00 - 05 50	
1921	21		"	50	13 15 00 - 15 50	1 50
1922	22		"	50 ^s	13 20 00 - 20 50	1 45
1923	23		"	"	13 25 00 - 25 50	1 40
1924	24		"	45 ^s	13 35 15 - 36 00	
1925	25		"	"	13 45 00 - 45 45	1 30
1926	26		"	"	13 55 05 - 55 50	
1927	27		"	"	14 00 00 - 40 45	1 05
1928	28		IIa-O	"	14 05 00 - 05 45	1 00
1929	30		IIa-G	45 ^s	14 10 00 - 10 40	-0 55
1930	30		"	"	14 15 00 - 15 40	0 50
1931	31		IIa-O	"	14 20 00 - 20 40	-0 45

t_{capula} $t_{\text{spat.}}$

20-5

5

1	2+2 ^s		25.3
2	2+2	24.1	25.5
3	2+2		26.0
1	2+2		26.4
2	2+2	24.4	26.8
3	2+2	24.6	27.6
1	2+2		28.5
2	2+2		28.8
3	2+2	24.7	29.2
1	2+2		29.5
2	2+2		29.6
3	2+2		29.8
1	2+2	25.0	29.9
2	2+2	25.2	30.0
3	2+2		30.0
1	2+2	25.4	30.0
2	2+2		30.0
3	2+2	25.5	30.0
1	2+2		29.8
2	2+2		29.7
3	2+2		29.6
1	2+2	25.9	29.6
2	2+2		29.6
3	2+2	26.0	29.5
1	2+2		29.9

entre del a la parte
del tubo

"

"

1932	32	Cielo	IIa-6	40 ^s	1425 00 - 25 40	- 0 40
1933	33	"	"	"	1435 00 - 35 40	- 0 30
1934	34	"	"	30	1445 00 - 45 30	- 0 20
		30-I-51	F			
x	1	Cielo	IIa-6	45 ^s	1829 00 - 29 45	Cenit
1935	2	"	"	"	1832 45 33 30	
1936	3	"	"	"	1836 00 36 45	
		30/21-I-59	F		TU	
1937	1	x Ca	IIa-6	90 ^s	004 00 - 05 30	- 1 32
1938	2	"	"	"	008 00 - 09 30	- 1 28
1939	3	"	"	"	013 00 - 14 30	
1940	4	"	"	"	020 00 - 21 30	- 1 16
1941	5	"	"	"	24 00 - 25 30	
1942	6	"	"	"	28 00 - 29 30	
1943	7	"	"	"	36 00 - 37 30	1 00
1944	8	"	"	"	44 00 - 45 30	
1945	9	"	"	"	48 00 - 49 30	- 0 48
1946	10	"	"	"	52 00 - 53 30	
1947	11	"	"	"	100 00 - 01 30	0 35
1948	12	"	"	"	108 00 09 30	
1949	13	"	"	"	116 00 - 17 30	0 20
1950	14	"	"	"	124 00 25 30	
1951	15	"	"	"	132 00 33 30	- 0 03

20-5	5	2	2+2	29.7	"
		3	2+2	29.6	"
		1	2+2	26.2 29.5	

		1	48 Simulo	24.4	
		2	4 ³	24.6	
		3	2+2	26.6 24.7	

20-5	5	1	2+2	22.5 25.8	
4	"	2	2+2	25	
4	"	3	2+2	25.5	
		1	2+2	25.6	
		2	2+2	25.6	
		3	4		
		1	"	25.5	
		2	"		
		3	"	25.5	
		4	"	25.5	
		2	"	21.5 25.4	
		3	"	25.5 25.4	
		1	"		
		2	"		
		3	"	25.3	

Reflector de Ginnasio

invertebrados

MV 1952	16	x Can 205	IIc-6 90°	1 44 00 - 45 30	+ 0 09
1953	17	"	"	48 00 - 49 30	0 13
1954	18			56 00 - 57 30	
1955	19			2 04 00 - 05 30	
1956	20			12 00 - 13 30	0 38
1957	21			16 00 - 17 30	
1958	22			20 00 - 21 30	0 46
1959	23			28 00 - 29 30	0 54
1960	24			36 00 - 37 30	0 51
1961	25			44 00 - 45 30	+ 1 11
1962	26			52 00 - 53 30	+ 1 19
1963	27			56 00 - 57 30	
1964	28			3 00 00 - 01 30	1 26
1965	29			04 00 - 05 30	
1966	30			3 08 00 - 09 30	1 34

3/4-II-59 F ~~205~~ 93°

1967	1	x Can	IIc-6 90	23 57 ⁰⁰ - 58 30	- 1 23 ^m
1968	2	"		0 03 ⁰⁰ - 04 30	1 17
1969	3	"		0 09 ⁰⁰ - 10 30	1 11
1970	4	"		0 15 ⁰⁰ - 16 30	1 05
1971	5	"		0 21 00 - 22 30	
1972	6	"		0 27 00 - 28 30	
1973	7	"		0 33 00 - 34 30	0 47

20-5	5	1 2+2	25.0
		2	
		3	25.0
		1	20.7
		2	
		3	24.7
		1	
		2	24.6
		3	24.5
		1	
		2	
		3	24.4
		1	24.4
		2	
		3	20.6 24.3

20-5	5	1 2+2 ^{mid}	28.9 30.6
		2 2+2	30.6
		3 2+2	30.5
		1 2+2	28.3 30.5
		2 2+2	30.5
		3 2+2	
		1 2+2	30.5

D 19

1974	8	α lar	Πα-6 90 ^s	0 35 00 - 40 30	
1975	9			0 45 00 - 46 30	- 0 35
1976	10			0 50 00 - 51 30	
1977	11			0 57 00 - 58 30	
1978	12			1 03 00 - 04 30	
1979	13			1 09 00 - 10 30	- 0 11
1980	14			1 15 00 - 16 30	- 0 05
1981	15	unretido		1 22 00 - 23 30	+ 0 02
1982	16			1 27 00 - 28 30	0 08
1983	17			1 33 00 - 34 30	
1984	18			1 39 00 - 40 30	0 21
1985	19			1 45 00 - 46 30	
1986	20		Πα-0	1 51 00 - 52 30	
1987	21		Πα-0	1 57 00 - 58 30	
1988	22		Πα-6	2 03 00 - 04 30	0 45
1989	23		Πα-6	2 09 00 - 10 30	0 51
x	24		Πα-0	2 16 30 - 16 00	0 58
1990	25			2 21 00 - 22 30	
1991	26			2 27 00 - 28 30	+ 1 08
1992	27			2 33 00 34 30	1 14
1993	28			2 39 00 40 30	

20-5	5	2 2+2	30.4	
		3 2+2		
		1 2+2		no equivoqué la hora
		2 2+2	30.4	D 19
		3 2+2		D 19
		1 2+2	30.3	
		2 2+2		
		3 2+2	30.2	
		1 2+2	30.2	
		2 2+2		
		3 2+2	30.1	
		1 2+2	30.0	
		2 2+2		
		3 2+2		mute
		1 2+2	30.0	
		2 2+2	29.9	mute
		3 2+2		
		1 2+2	29.8	
		2 2+2		mute
		3 2+2	27.4 29.8	mute
		1 2+2		mute mas densa <u>se cierra</u>

		6-7 / III / 59	K.	T.U.	T.S			
1994	1	ϵ Cen (5132)	IIa-0 (10)	7:04	7:14	14:12	14:22	+0:39
1995	2	γ Cen (5248)	" (48)	7:29	8:17	14:37	15:25	+1:04
1996	3	ϵ Cen (5132)	" (10)	8:50	9:00	15:58	16:08	+2:24

7-8 / III / 59 K T.U T.S

1

		8-9 / III / 59	K	"	"			
1997	1	δ Crs (4757)	IIa-0 (25)	5:36	6:01	12:50	13:15	+0:35
1998	2	γ Mus (4773)	" (48)	6:14	7:02	13:28	14:16	+1:23
1999	3	α Mus (4798)	" (65)	7:16	7:22	14:30	14:36	+1:59
2000	4	ζ Cen (5028)	" (20)	7:26	7:56	14:51	15:11	+1:42,5
2001	5	ϵ Cen (5132)	" (10)	8:05	8:15	15:20	15:30	+1:48

13/14 III 59 F-III

2002	1	α CMa (2491)	IIa-0	30 ^s	23:28	-		0 18
2003	2	"		50	32			0 32
x	3	"		70 ^s	34			+0 24
2004	4	"		1 ^m	0 05	- 00 05		+0 55
2005	5	"		1 ^m	0 10	- 00 11		+1 00
2006	6	"		1	0 15	- 00 16		+1 05
2007	7			1	0 20	- 00 21		+1 10
2008	8			1	0 25	30 - 00 26	30	+1 15
2009	9			1	0 30	- 00 31		+1 20
2010	10			1	0 35	- 00 36		+1 25

18-(5+12)	5	1	2^1+2^1	20.4	21.4	21.4
18-5	"	2	"	20.3	21.4	21.4
"	"	3	"	19.9	21.1	21.1

18-5 ~~5~~ 1 2^0+2^1

18-5	5	1	2^1+2^1	22.1	24.0	24.0
"	"	2	"	21.9	23.7	23.5
"	"	3	"	21.6	23.6	23.6
"	"	1	"	21.6	23.5	23.5
"	"	2	"	21.6	23.3	23.3

9-7	5	2	$1.5+1.5$	23.5
		3	"	
		1	"	23.6
		1	"	23.5
		2	"	23.5
		1	"	24.0
		2	"	20.8 23.7
		1	"	24.0
		2	"	23.8
		1	"	

finis de foro²

T0

t

2011	11	α C Ma	IIa-0	1	0 ^h 40 - 0 41		
2012	12	"		1	0 45 - 0 46		+1 35
2013	13	"		1	0 50 - 0 51		1 40
2014	14			1	0 55 - 0 56		+1 45
2015	15			1	1 00 - 1 01		+1 50

z

~~+~~

14-15/III/59 K

T.U

T.1

1	Galvia (5056)	IIa-0 (2)	7:10	7:12	14:48	14:50	+1:26
2	L Lap (5354)	" (53)	7:41	8:38	15:19	16:12	+1:29
3	g Cen (5440)	" (16)	8:58	9:14	16:32	16:48	+2:11

/6/17/III/59

2016	γ2 Velorum	II-E	8:41	8:55	} by home by 11m
2017	"	IV-0	8:57	9:58	

18/19/III/59

F 20.0/11m TU

⊖ LP

tm

1	3 Cent (5210)	103a-0 (120 ^m)	2 ^h 08	4 ^h 08	10 ^h 00	-2 49
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placa constante usua. Salvo operas.

20 TU-55

2018	1	Gela	103a-0	50 ^s	6 41 00 - 41 50
2019	2	"	103a-0	60	6 43 50 - 44 50
x	3	"	IIa-0	70	6 47 30 - 48 40

9-7	5	2	1.5+1.5	24.0
		1	"	24.1
		2	"	24.0
		1	"	24.0
		2	"	24.0

9-7	5 d,m	1	2+2 ¹	19.5	22.0	22.0
"	"	2	"	19.2	22.0	22.0
4	"	3	"	19.1	21.7	21.8

17-0	5	3+4	21.8
17-0		16+20	22.3

9-7	5	vidio smelado	
		2+2	15.3 18.9

imagen muy buena,
la última $\frac{1}{2}$ hora imagen fea.

9-7		4 ^{vidio smel}	21.0
		5 ^s	21.2
		2 $\frac{1}{2}$ +2 $\frac{1}{2}$	21.4

	20/21 II-59	F.	TU	+
2020	1 α Lac	Π a - 0	100 ^s 23 46 - 23 47 40	
2021	2		120 ^s 0 11 - 0 13	+ 1 49
2022	3		0 16 - 0 18	
2023	4		0 21 - 0 23	2 00
2024	5		0 24 - 0 28	2 05
2025	6		0 31 - 0 32	
2026	7		0 36 - 0 38	
→ 2027	8		0 41 - 0 43	+ 2 20
2028	9		0 46 - 0 48	
2029	11		0 51 - 0 57	2 30
2030	12		0 56 - 0 58	2 35
2031	13		1 01 - 1 03	
2032	14		1 06 - 1 08	2 45
2033	15		1 11 - 1 13	
2034	16 103a-on		1 16 - 1 18	
2035	17 Π a - 0		1 21 - 1 23	
2036	18		1 26 - 1 28	3 05
2037	19 103a-on		1 31 - 1 33	3 10
20		de unblo		

	26-27/III/59	K	T.U	T.Y	
1	Mus (4773)	Π a - 0	(58)	3:45 4:43	12:10 13:08 + 0:10
2	Mus (4773)	"	(58)	4:50 5:48	13:15 14:13 + 1:14
3	Lup (5354)	"	(63)		

2-7	5 ddm	1	$2\frac{1}{2} + 2\frac{1}{2}$	21.7	imágenes bastante malas.	
		1	2+2	21.9		
		2	"	21.8		
		3	"	21.7		
		1	"	21.7		
		2		18.4 21.7		
		3				
		3		21.5		
		4		21.8		tendencia a mejorar
		2		21.7		
		3		21.6		
		1		21.7		
		2		21.7		
		3		21.6		
		1				
		2	4	21.6		
3	4	21.7				
1	3	21.7				
2			notas del NE:			
9-7	5d	1	1,5+1,5	17.6	21.4	21.4
"	"	2	"	16.8	20.8	20.8

11-IV-1955 Plateado

13-IV-1955 Espectro de comparación 3 segundos.

20/21-IV-1955

-3^m
T₀ ref. dipolo

2028	1	X ₁ Cu	Ita-0	100 ^s	733 - 734 40	72	12
2029	2			100 ^s	738 - 739 40	2	16
2040	3				743 - 744 40	2	21
2041	4			120 ^s	748 - 750 00	2	26
2042	5			100 ^s	753 - 754 40	2	31
2043	6		103a-0		757 30 - 759 00		
2044	7		"	(6)	803 - 804 40		
2045	8		"		808 - 809 40		
2046	9				813 - 814 40	2	51
2047	10				818 - 819 40	2	56
2048	11				823 - 824 40		
2049	12				828 - 829 40		
2050	13				833 - 834 40	3	11
2051	14				838 - 839 40		
2052	15			100 ^s	843 - 844 40		
2053	16			90 ^s	848 30 - 850 00		
2054	17			90 ^s	853 - 854 30		
X	18			90 ^s	858 - 859 30	3	36
2055	19			90 ^s	903 - 904 30		
2056	20			90	908 - 909 30	3	46
1x6 2057	21			90	913 - 914 30		

$$\begin{array}{r} 623 \\ 144 \\ \hline 807 \end{array} \quad \begin{array}{r} 623 \\ 314 \\ \hline 937 \end{array}$$

S-7	Sum.d	1 $1\frac{1}{2} + 1\frac{1}{2}$	18.8	unagere malos. =		
		2 $1 + 1\frac{1}{2}$	18.8			
		3 $1 + 1$	18.8			
		1 $1 + 1$	16.8 18.8			
		2 $1 + 1$	18.8			
		3 $1 + 1$	18.7		unagere algo mejor	
		1 $1 + 1$	18.7			
		2 $1 + 1\frac{1}{2}$	18.7			
		3 $1 + 1\frac{1}{2}$	18.7			
		1 $1 + 1\frac{1}{2}$	18.7			
		2 $1 + 1\frac{1}{2}$	18.7			
		3 $1\frac{1}{2} + 1$	18.9			x perdida a menos el temeritate
		1 $1\frac{1}{2} + 1$	18.8			
		Sum.d	2 $1 + 1\frac{1}{2}$			
					3 $1 + 1\frac{1}{2}$	18.7
		1 $1 + 1\frac{1}{2}$	18.6			
		2 $1 + 1\frac{1}{2}$	18.8			
		3 $1 + 1\frac{1}{2}$	16.3 18.7			
		1 $1 + 1\frac{1}{2}$	18.7			
		2 $1 + 1\frac{1}{2}$	18.7			
		1				

$$\begin{array}{r} 623 \\ 105 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 131 \\ 1040 \\ \hline 927 \end{array}$$

$$\begin{array}{r} 914 \\ 1631 \\ \hline 1047 \end{array}$$

+U

1x6 2058 22	α Car		90°	9 18 - 9 19 30	
1x6 2059 23	α Car		90°	9 23 40 - 9 25 10	+ 4 01
2060 24		1039.0		9 28 - 9 29 30	
x 25	α Car	1039.0		9 33 - 9 34 30	
2061 25					
2062 26	i Car	1039.0	16 ^m	9 44 - 10 00	1 38
2063 27	l Car	1039.0	16 ^m	10 03 30 - 10 09 30	1 56
2063 28	l Car		16 ^m	10 20 - 10 36	2 12
2064 29	l Car		13 ^m	10 38 - 10 51	2 29
				(2 ^l)	

Restar al TU 3^m (-3^m)

Los planetas 1039.0 están algo velados. El espectro de la estrella salió

	2-3/II/59	K	T.U	T.S			
2065 1	δ Car (4757)	IIa-0 (25)	3:00	3:25	13:53	14:18	+ 1:38
2	"	" (25)	3:36		14:29	14:54	+ 2:13
	4/II/59						
1	Cielo	IIa-0 (60 ¹)	6:51	6:52			0
2	"	" (100 ¹)	6:53	6:54,7			0

9-7	5 ind	2	$1+1\frac{1}{2}$	18.7
		1	$1+1\frac{1}{2}$	18.9
		3	$1\frac{1}{2}$	18.8
		1		
		2		

9-7	5 d	2	$1+1\frac{1}{2}$	18.5 - 18.5
	5 ind	3	$1+1\frac{1}{2}$	18.4 - 18.4
	5 m	1	$1+1\frac{1}{2}$	18.4 - 18.4
	5 m	2	$1+1\frac{1}{2}$	16.5 18.4

contado en la $\frac{1}{2}$. El de comparación salió muy largo de un lado y muy corto del otro

9-7	5	1	$1\frac{1}{4}$ $1\frac{1}{4}$	12.1	13.7	13.7
"	"	2	"	11.8	13.6	13.5

9-7	5	1	$1\frac{1}{2}$ $1\frac{1}{2}$	14.2	15.2
"	"	2	"	"	"

4-5 / 5 / 59.

TU

9

6

317 C7a ДАО (16) 19.44 - 20.07

27 C7a (14) 21.24 - 22.15

5 C7a (24) 23.07 - 23.24

5-6 / 5 / 59

317 C7a ДАО (17) 19.26 - 19.43

27 C7a (190) 21.17 - 23.10

6-7 / 5 / 59

317 C7a 103000 (17) 19.40 - 57.

27 C7a 19.20 - 21.15

22/23 V 59

2066

1-16 please d Car

al

2081

L.

3-31

5

3

141

3

170

170

3

141

3

170

170

1

141

3

170

170

9-31

5

2

141

170

140

1

141

170

140

15-31

5

2

141

165

173

12-5

5

142

	24-25/V/59	K	T.U.	T.J.	t
2082	1	Lup (5354) IIa-0 (70)	2:27 3:37	14:43 15:53	+1:03.5
2083	2	p Lup (5453) " (70)	3:51 5:04	16:07 17:17	+2:09
2084	3	m 500 (6380) " (60)	5:18 6:18	17:34 18:34	+0:57

	30-31/V/59	K	T.U.	T.J.	t
1	70 Cen (4754) IIa-0 (50)	1:05 1:55	15:55 17:05	+1:44	
2	Lup (5354) " (106)	2:07 3:53	14:47 16:33	+1:25	
3	p Lup (5453) " (116)	4:03 5:59	16:43 16:39		

2/3 VI-59

2085	1	3 Cen (5210) 103a-F	22 26 - 1 26		-230 +030 in input
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	6-7/VI/59	K	T.U.	T.J.	t
1	60 Cen (5944) IIa-0 (15)	3:35 3:50	16:43 16:58	+0:56	
2	" " (30)	3:51 4:21	16:59 17:29	+1:19	
3	70 Cen (5953) " (9)	4:38	17:46	+1:54	

11-12-VI/59

2086	1	γ Cen (4819) 103a-F (25)	22:29.5 - 22:55	12:51-	
	2				

	14-15/VI/59	K	T.U.	T.J.	t
--	-------------	---	------	------	---

10-7	5	1	$1,5 + 1,5$	12,3	14,6	14,6	
"	"	2	"	11,9	15,7	15,7	
"	"	3		11,6	14,6	14,6	+7 ^m Velo

10-7	5	1	$1,5 + 1,5$	11,6	15,5	15,4	
"	"	2	"	11,2	16,9	16,9	
"	"	3	"	16,9			Se nubló.

14-5	5	1	$1^s + 1^s + 1^s$	10,5	14,5	14,5	termómetro "a dedo" imágenes no muy buena.
------	---	---	-------------------	------	------	------	---

14-7	5 m p	1	$1,5 + 1,5$	14,1	} Placas sin siejais! no sisten.
"	"	2	"	13,5	

14-14	5	1	$1,5 + 1,5$	12,3
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14-7	5	1		
------	---	---	--	--

44

		15-VI-59	F-H	TU	$\delta = -30^\circ$
2087	1	Cielo	IIa-G	12:35 - 12:37	-3:42
2088	2	"	"	13:00 - 13:02	
2089	3	"	"	13:09 - 13:11	
2090	4	"	"	13:15 - 13:17	-3:05
2091	5	"	"	13:21 - 13:23	
2092	6	"	"	13:27 - 13:29	
2093	7	"	"	13:33 - 13:35	
2094	8	"	"	13:39 - 13:40:50	
2095	9	"	"	13: 45 ⁴⁴ - 13:46:50 <i>24 abriso 12:44</i>	-2:35
2096	10	"	"	13:50 - 13:51:45	
2097	11	"	"	13:56 - 13:57:45	-2:23
2098	12	"	"	14:02 - 14:03:45	
2099	13	"	"	14:08 - 14:09:45	-2:10
2100	14	"	"	14:14 - 14:15:40	
2101	15	Regulus	"		

		27-28/VII/59	K	T.U	T.J	±
2101	1	η Cen (5440)	IIa-0 (16)	0:18 - 0:34	14:44 15:00	+0:25
2102	2	"	"	0:34 - 0:50	15:00 15:16	+0:41
2103	3	"	"	0:50 - 1:06	15:16 15:32	+0:57

		24-25/VIII/59	L			
2104		Cir	IIa-0(e)	23:18 - 4:34		+2:57(i) +8:14

2-3+IX/59 \ddagger

1	ε Sgr (6879)	103a-0	17:50:15
2	"	108a-F	

18-19/XI/59	J-F	TU	40 μ /mm
c Ple	103a-0 nueva	2 33	

23-24/XII/59	K	T.U. Cámara de H ₂	40 $\frac{\text{Å}}{\text{mm}}$
1 x 202 (1465)	103a-0 (8)	T.S.	+

12-I-60	F	$t = 40$	S = -50	20 μ /mm
		TU		\ddagger

2105	1	Cilo	IIa-0	60°	11 35 00 - 36 00	-3 55
2106	2	"	"	80°	11 39 00 - 40 20	
2107	3	"	"	100°	11 45 00 - 46 40	-3 50

10/11-II-1960 F 20 μ /mm TU

2108	1	x Car	IIa-0	40°	23 23 00 - 23 40	-1 20
2109	2	"	"	60°	36 00 - 37 00	-1 16
2110	3	"	"	80°	41 00 - 42 20	
2111	4	"	"	50	46 00 - 46 50	-1 06
2112	5	"	"	70	51 00 - 52 10	-1 01
2113	6	"	"	90	56 00 - 57 30	
2114	7	"	"	40	01 00 - 01 40	0 52
2115	8	"	"	60	06 00 - 07 00	-0 47

12 - m.

1^s

2

28 (-1)

con el tornillo del enfoque sobre asterisco de 26.
 23 0 5 A

12-7

1 2^s

26° (no funciona) cúpula 28° 0

2 2^s1 2^s

10-5

1 5^s + vidrio esmerilado

t° espectrografa

32° (funciona?)

imagen

mordida

"

2 "

31.8

"

1 "

31.7

"

2 "

31.6

"

1 "

31.5

"

2 "

31.5

"

1 "

31.5

"

2 "

31.5

el cielo estaba

relado!

2116 9 x Lu Ia-0 80 0 11:20-12:20 0 42

	18-19/II/60	K		T.U.	T.V.	±
2117 v 1	212 Cila (2618)	103a-0	(35)	1:30 1:33.5	7:31 7:34	+0:37
2118 v 2	"	"	(3)	1:52 1:55	7:53 7:56	+0:59
2119 v 3	15p Pup (3185)	"	(28)	2:10 2:38	8:11 8:39	+0:21

	19-20/II/60	K					
2120 v 1	212 Cila (2618)	103a-0	(3)	1:21 1:24	7:26 7:29	+0:32	
2121 v 2	212 Cila (2618)	"	(20)	1:37 1:57	7:42 8:02	+0:52	
2122 v 3	4 Vel (3786)	"	(65)	3:48 4:53	9:53 10:58	+0:58	
2123 v 4	Q Car (4199)	"	(17)	5:18 5:35	11:23 11:40	+0:52	
2124 v 5	2 Cen (4467)	"	(30)	5:51 6:21	11:56 12:26	+0:39	
2125 v 6	8 Cen (4621)	"	(14)	6:29 6:43	12:34 12:48	+0:37	

25 II. 60 K Cámara de $D_H = 40 \frac{A}{mm}$

	Ciclo				
1	"	103a-0	(60)	20:02 20:03	+0:43
2	"	"	"	20:11 20:12	"
3	"	"	"	20:20 20:21	"

10-III-60 H. Cámara $20 \frac{A}{mm}$

	Ciclo	Ia-0		H.L.		
1	"	(53)		9:40	-1:00	-60
2	"	(40)		"	"	

10-5 1 5^s + v.e. 31.4

a-l

			T.C.	T.E.	
10-5	5	1 5 ^Δ + hd. crm	21.1	24.1	B Subexpuesta
4	4	2 "	"	"	R "
4	4	1 "	20.8	23.7	23.4 B "

16-5 5 1 1³, 5 + 1³ 24.2 32 B

7 4 2 " 23.8 31.2 30.8 B

13-5 5 1 " 22.2 27.8 27.6 R ?

4 4 2 " 21.9 27.5 27.4 MB

4 4 1 " 21.5 26.7 26.6 B

4 4 2 " 21.0 26.1 26.1 B

25-5 0 A 1³ + 1³ 31.0

4 4 B " "

4 4 C " "

Empaque de la cámara:

F = 23 muy malo

24 malo

25 pasable

10-5 1 5^s

4 2 7^s

10-11/III/1960

TU

t

1	Car	no stud		22 45 - 46 30	
2	"	IIa-0	(90°)	22 51 - 52 30	
3	"	"	"	22 56 - 57 30	
4	"	"	"	22 58 - 22 59 30	02 00

14-III-60

H.L.

1	lido	IIa-0	(60°)	900	-2:10	-55°
2	"	"	(60°)		"	

14-15/III/1960

F 204/mm

TU

t

2126	1	Car	IIa-0	90°	22 46 - 22 47 30	22 46 - 22 47 30	40 04
2127	2	"	"	"	22 53	22 54 30	0 11
2128	3	"	"	"	23 00 - 23 01 30		0 17
2129	4	"	"	"	23 07 - 23 08 30		0 25
2130	5	"	"	"	23 14 - 23 15 30		0 32
2131	6	"	"	"	23 21 - 23 22 30		0 39
2132	7	"	"	"	23 28 - 23 29 30		0 46
2133	8	"	"	"	23 35 - 23 36 30		0 53
2134	9	"	"	"	23 42 - 23 43 30		1 00
2135	10	"	"	"	23 49 - 23 50 30		1 07
2136	11	"	"	"	23 56 - 23 57 30		1 14
2137	12	"	"	"	0 03 - 0 04 30		1 21
2138	13	"	"	"	0 10 - 0 11 30		1 28
2139	14	"	"	"	0 17 - 0 18 30		1 35

12-7	1	5 ^s + v.e	24.7	se queda pegado
	2	"		no se controla
	1	"		"
	2	"		"

12-5	4 ^s	90 ^s ; 22 ⁰⁷
14-5	6 ^s	

12-7	5	1 5 ^s + v.e	26.7	Se empezó a controlar el tempestato 45 ^m antes. En general anduvo bien. [Todavía crepúsculo]
"	" d	2 5 + v.e + algo más	26.6	
"	5d	1 5 + v.e	26.5	
"	5d	2 5 + v.e	26.7	
"	5d	1 5 + v.e	26.6	
"	5d	2 5 + v.e	26.5	
"	5d	1 5 + v.e	26.8	
"	5d	2 5 + v.e	26.6	
"	5d	1 5 + v.e	26.5	
"	5d	2 5 + v.e	26.3	
"	5d	1 5 + v.e	26.4	El tempestato no anda! ¡
"	5d	2 5 + v.e	26.8	
"	5d	1 5 + v.e	26.5	
"	5d	2 5 + v.e	26.7	

			TU	t	
2140	15	α Car	IIa-0 (90°)	0 24 - 0 25 30	1 42
41	16	"	"	0 31 - 0 32 30	1 49
42	17	"	"	0 38 - 0 39 30	1 56
43	18	"	"	0 45 - 0 46 30	2 03
44	19	"	"	0 52 - 0 53 30	2 10
45	20	"	"	0 59 - 1 00 30	2 17
46	21	"	"	1 06 - 1 07 30	2 24
47	22	"	"	1 13 - 1 14 30	2 31
48	23	"	"	1 20 - 1 21 30	2 38
49	24	"	"	1 27 - 1 28 30	2 45
50	25	"	"	1 34 - 1 35 30	2 52
51	26	"	"	1 41 - 1 42 30	2 59
52	27	"	"	1 48 - 1 49 30	3 06
53	28	"	"	1 55 - 1 56 30	3 13
54	29	"	"	2 02 - 2 03 30	3 20
55	30	"	"	2 09 - 2 10 30	3 27
56	31	"	"	2 16 - 2 17 30	3 34
57	32	"	"	2 23 - 2 24 30	3 41
21	58	33	"	2 30 - 2 31 30	3 48

23. III. 60 K.

Cámara de $2H_0 = 40 \frac{\text{A}}{\text{mm}}$

1 Arco de Fe 103a-0

2 " "

3 " "

4 " "

12-7	5d	1	5+v.e	22.0	26.5	El termotato "a dedo"
"	"	2	5+v.e		26.5	
"	"	1	5+v.e		26.4	
"	"	2	5+v.e		26.5	
"	"	1	5+v.e		26.4	
"	"	2	5+v.e		26.5	
"	"	1	"		26.5	
"	"	2	"		26.4	
"	"	1	"	21.4	26.3	
"	"	2	"		26.3	
"	"	1	"		26.4	
"	"	2	"		26.4	
"	"	1	"		26.4	
"	"	2	"		26.4	
"	"	1	"		26.5	
"	"	2	"		26.3	
"	"	1	"		26.4	
"	"	2	"		26.3	
"	"	1	"		26.3	

25-5	C	$2^1 + 2^1$	con el diámetro esmaltado; F=25	
"	B	"	"	21.5 F=24.5
"	C	"	"	" F=25.5
"	B	"	"	" F=26

24-25/IV/60		K	Cámara de 40 $\frac{\text{A}}{\text{mm}}$		
1	Arco de Fe	103a-0	—	—	—
2	"	"	—	—	—
3	"	"	—	—	—
4	"	"	—	—	—
5	"	"	—	—	—
6	"	"	—	—	—
7	"	"	—	—	—
8	#D96918	" (40)	4:11 - 4:51	12:31 - 13:11	+1:47

El enfoque actual es de 25.5. $5^m 0 - 1^h$

25-26/III/60		K	C. de 40 $\frac{\text{A}}{\text{mm}}$				
2159	1 BS 3445	103a-0 (25 ^m)	1:00	1:25	9:24	9:49	+0:58
60	2 "	" (30)	1:27	1:57	9:51	10:21	+1:28
61	3 BS 4110	" (70)	2:18	3:28	10:42	11:52	+0:53

29-30/III/60		F	40 $\frac{\text{A}}{\text{mm}}$ Hx \rightarrow azul			
2162	x DS (HR 1465)	103a-F (10 ^m)	23 31 - 23 41	7 11	7 21	+239 - 249

4-5/IV/60		K	$\phi = 40 \frac{\text{A}}{\text{mm}}$; $F_c = 25,5$				
1	HR 4338	103a-0 (70)	3:57	5:01	12:51	14:01	+2:21
2	HR 4817	" (33)	5:21	5:54	14:21	14:54	+1:57
3	HR 5652	" (30)	6:18	6:48	15:18	15:48	+0:25
2163	4 HR 5671	" (53)	7:03	7:08	16:03	16:08	+0:53
5	HR 5980	" (37)	7:30	8:07	16:30	17:07	+0:47

						F = 22,0
25-5		B	$2^1 + 2^1$	cond. vid.		F = 24,5
"		C	"	"		F = 25,0
21-5		C	$1^1 + 1^1$	"		F = 23,5
"		C	1+1	"		24,0
"		B	"	"		24,5
"		C	"	"		25,0
"		B	"	"		25,5
"	5	C	"	"	19,7 22,6 - 22,2	24,5 + reja

T. didamp. T. de esp.

21-5	5	B	$1^1 + 1^1$	cond. vid.	22,4	23,8	23,8	F = 25,5
"	"	C	"	"	22,3	23,7	23,6	"
"	"	B	"	"	22,1	23,4	23,1	"

19-5 5 $7^5(\text{Fe}) + 2^m \text{Neau}$ imajen difusa

21-5	5 m.	B	$1^1 + 1^1$	c.v.	17,2	24,0	24,0	3
"	"	C	"	"	16,9	22,5	22,5	3
"	"	B	"	"	16,7	21,4	21,4	3
"	"	C	"	"	16,4	20,6	20,6	2
"	"	B	"	"	16,1	20,0	20,0	3 rees +

6-April 60 F-H Foco 28 $\frac{3}{4}$ $\delta = -40$

1	Celo	(40 ^s)						-0 45
2	"	(60 ^s)						

				T.U.	T.S.	t	
	6-7/IV/60	K		$D = 40 \frac{\mu}{mm}$	$F_c = 25,5$		
2164	1	HR 5671	103a-0 (10)	3:35	3:45	12:47 12:57	-2:25
2165	2	"	" (15)	3:48	4:03	13:00 13:15	-2:09
2166	3	"	" (25)	4:29	4:54	13:41 14:06	-1:23
	4	HR 4817	" (90)	5:20	7:00	14:32 16:12	+2:40

		F-R-H	$H = 20 \frac{\mu}{mm}$	
2167	1	Celo	IIa-O (70 ^s)	9:05
2168	2		(70 ^s)	9:11
2169	3		(70 ^s)	9:17
2170	4		(70 ^s)	9:23
2171	5		(70 ^s)	9:29
2172	6		(70 ^s)	9:35
2173	7		(70 ^s)	9:41
2174	8		(70 ^s)	9:47
2175	9		(65 ^s)	9:53
2176	10		(65 ^s)	9:59
2177	11		(65 ^s)	10:05
2178	12		(65 ^s)	10:11
2179	13		(65 ^s)	10:17
2180	14		(65 ^s)	10:24

1 hora del \odot
 $\delta = -40^\circ$

12-7

1

2

a b

21-5	5 m.d.v	B	$1\frac{1}{2} + 1\frac{1}{2}$ c.v.	18.7	21.4	21.4	→ 4000
"	" "	C	"	18.7	21.3	21.3	→ 4000
"	4 "	B	"	18.8	20.8	20.8	Kelo → 3900
"	5	C	"	18.8	20.3	20.3	Kelo

12-7

1

 $3\frac{1}{2} + v.e$

2500

2

1

2

1

2

1

2

1

2

2607

1

2500

2

1

2

2181	15	α Cir	103a-0	(60)	10:29
2182	16			(60)	10:35
2183	17			(60)	10:41
2184	18			(60)	10:47
2185	19			(60)	10:53
2186	20			(60)	10:59

11-12/IV/60

L.

T.U.

α Cir

103a-0 (65)

3:30

4:47

-22.^m (f.)

21-22/IV/60

L.

T.U.

θ

2187	α Cir	103a-0	4:55-8:45	12:05-1:55	} 21:25 23:15 }
2188	α Cir	103a-0	5:10-6:40	3:21-4:51	

22-23/IV/60

K

T.U.

T.S.

t

2189	1	α Cir (5463)	103a-F(3)	(10 ⁺)	4:35	4:45	14:49	14:59	+0:16:30
	2	"	"	(20 ⁺)	4:47	5:07	15:01	15:21	+0:33:30
	3	"	"	(10 ⁺)	5:29	5:39	15:43	15:53	+1:11

10-11/V/60

K

 $\lambda = 40 \frac{\text{Å}}{\text{min}}$ $F_c = 25.5$

2190	1	η Cen (5193)	103a-F(3)	(10 ⁺)	3:26	3:36	14:49	14:54	+1:08
2191	2	" "	"	(5 ⁺)	3:44	3:49	15:07	15:12	+1:24
2192	3	η Cen (5440)	"	(5)	4:06	4:11	15:24	15:34	+1:01
2193	4	α Cir (5463)	"	(10 ⁺)	4:30	4:40	15:53	16:03	+1:21
2194	5	" "	103a-0	(20 ⁺)	4:45	4:55	16:08	16:18	+1:35
2195	6	θ Cir (5551)	103a-F(3)	(30 ⁺)	5:06	5:36	16:29	16:59	+1:53

12-7		1		25.0			
		2					
		1					
		2					
		1					
		2					
12-m		1	45	E 22.8 24.5	C 15.9 15.6	en 5m el lenim. subis 72° llega a 7250 Imágenes buenas 15m perd.	
12-7		1		28.5 25.5	18° 17.4	T _E llega a 29.5 y brifo lente 25.5	
12-7		1	55 cor.	22.0 26.0	16.9 16.5	22.4 a br 5:20 / 23 a 5:40 mantenim con 24 a dedo 26.5 a 6:20	
F = 25.5		D = 40 $\frac{\text{Å}}{\text{mm}}$					
35-7	5	B	1 ³ +1 ³ con del.	18.3	20.5	20.5	bueno, sup en H α
"	"	C	"	14.8	20.5	21.0	
55-7 = 15.7		B	1 ³	17.7	20.3	20.3	sup.
25-5	5	B	We 30 ³	10.0	12.5	12.3	e
"	"	"	"	9.4	12.0	12.0	e
"	"	"	"	8.9	11.8	11.7	e 5 ^m 2 ph - 30^m 30 ^m
"	"	"	Fe 2 ³ We 30 ³	8.6	11.3	11.2	3 ^m 6 5 ^m
"	"	"	We 30 ³	8.6	11.1	11.0	
"	"	"	We 30 ³	8.4	10.8	10.6	e

60

 $\bar{r} = 40 \frac{\text{ft}}{\text{min}}$ $F_c \approx 2675$

	15-16/II/60	K		T. U.	T. J	±
2196	1 $\xi^2 C_m (4942)$	103a-F(2)	(10)	2:34 2:44	14:16 14:26	+1:19
2197	2 $\eta C_m (5221)$	"	(15)	3:06 3:21	14:50 15:05	+1:07
2198	3 $\eta C_m (5248)$	"	(8)	3:40 3:48	15:23 15:31	+1:33
2199	4 $\nu^1 C_m (5249)$	"	(8)	4:15 4:23	15:59 16:06	+2:08
2200	5 $\kappa C_m (5576)$	"	(35)	5:13 5:16.5	16:57 17:00.5	+2:04
2201	6 $\xi L_{up} (5708)$	"	(5)	5:40 5:45	17:25 17:28	+2:08

	22-23/II/60	K		"	"	"
2202	1 $\xi^2 C_m (4942)$	103a-F(3)	(8)	1:52.5 2:00.5	14:02 14:10	+1:04
2203	2 (4944)	"	(60)	2:15 3:15	14:25 15:25	+1:53
	3 $\times T_{2A} (5644)$	"	(60)	3:36 4:36	15:47 16:47	

	24-25/II/60	K		"	"	"
2204	1 $\xi^2 C_m (4942)$	103a-F(2)	(10)	0:16 0:26	12:34 12:44	-0:25
2205	2 "	"	(8)	0:35 0:43	12:53 13:01	-0:06
2206	3 $\eta \text{Ans} (4993)$	"	(20)	1:20 1:40	13:38 13:58	+0:38
2207	4 5026	"	(35)	1:53 2:28	14:11 14:46	+1:12
	5 5206	"	(50)	2:42 3:32	15:00 15:50	+1:39
	6 $\times T_{2A} (5644)$	"				

	28-29/II/60	K		"	"	"
1	67 $\times V_{12} (5056)$	103a-0	(2 ^m)			
2		"				

a-l

25-5	5	B	We 30 ¹	14.1	16.0	16.0	
"	"	"	"	13.9	15.7	15.7	soble
"	"	"	"	13.8	15.8	15.8	
"	"	"	"	13.6	16.2	16.2	
"	"	"	"	13.4	16.0	16.0	
"	"	"	"	13.3	16.2	16.2	rep. Supercap.
25-5	5	B	We 30 ¹	9.3	11.5	11.5	fin We: elidí abris.
"	"	"	"	8.9	11.2	11.2	4.2
"	"	"	"				se mudo.
25-5	5	B	We 30 ¹	12.1	14.2	14.1	dolo fino
"	"	"	"	11.7	14.0	14.0	imagen mejorada
"	"	"	"	11.1	13.5	13.5	soble? .
"	"	"	"	11.1	13.5	13.5	
"	"	"	"	11.1	13.2	13.2	40+10 = 50 velo
"	"	"	"				velo densa.
"				$D = 20 \frac{\text{Å}}{\text{mm}}$	$F_c = 28,5$		
12-7	5	1	Fe 2+2 ¹				
		2					

R: 26-7.

le aluminijo

-6/VIII/60 H ♂
 1 K Seo (6580) 103a-0 17:40 - 17:55

le replato el

13-ix/VIII/60 H ♂
 1 2 Lyp (5469) 103a-0 (15m) (15m) 16:53 - 16:13 (20m)

18-19/VIII/60 L
 1 & Cir 103a-0

20-21/VIII/60 K T.V. T.S. +
 1 41 π 3gr (7264) 103a-0 (35^m)

31/VIII - 1/IX/60 K

	1	392 Cap (8260)	103a-F(3) (15)	3:45	4:00	22:33	22:48	+1:07
2208	2	"	" (20)	4:01	4:21	22:49	20:09	+1:26
2209	3	934 ² Apr (858)	"	5:26	5:38	0:14	0:26	+1:06
2210	4	"	"	5:52	6:08	0:40	0:56	+1:33

espejo grande

temperatura

la noche 19.45 - 14.07
 al irse al espejo y
 incendio, la noche
 14.09

20.13 incendio en 14.03
 20.16 espejo 14.03
 20.45 incendio hasta 14.00

espejo ~~temperatura~~ duro

Ranura
 largo 12 ancho

acero 10

espejo 16.09
 incendio al irse
 incendio 15.07 y espejo

Ranura

a-l
 12-7 5 $\phi = 20 \frac{\text{mm}}{\text{mm}}$ $F_c = 28.5$
 1 $F_c 2^1 + 2^1$
 2

		$\phi = 40 \frac{\text{mm}}{\text{mm}}$	$F_c = 25.5$	$F = 375$	
25-5	4	A	Wc 30	7.6 9.5 9.5	
"	5	B	"	7.3 9.5 9.5	e
"	5	B	Wc 35	6.6 9.6 9.6	
"	4	B	"	6.4 10.4 10.4	

	1-2/IX/60	K.	T.V.	T.1.	+
2211	1 38 Apr (8452)	103a-F(3)(30)	4:19 4:49	23:13 25:43	+1:19
2212	2 d Phe (9006)	" (30)	5:23 5:53	0:16 0:46	+0:47
2213	3 5 tel (9091)	" (20)	6:10 6:30	1:04 1:24	+1:14
2214	4 2 tel (280)	" (10)	6:47 6:57	11:40 11:50	+0:48

	12-13/IX/60	H		
1	Jupiter	103a-0 (3 ^m)		20:50-20:53
2				

	18-19/IX/60	K	T.V.	T.1.	+
2215	1 2 Pnd (7790)	103a-F(3)(48 ^m)	2:45 2:45.8	22:44 22:44.8	+2:23
2216	2 35 Apr (8439)	" (41 ^m)	3:55 4:36	23:54 0:55	+2:09

	25-26/IX/60	K	T.V.	T.1.	+
2217	1 14 Cap (7889)	103a-F(3)(28)	21:30 21:58	1:04 1:32	+1:08
2218	2 310 Apr (8402)	" (55)	22:29 22:44	2:03 2:18.5	+0:35
2219	3 35 Apr (8439)	" (56)	23:12 0:18	2:46 3:52	+1:39
+	4 (9049)	" (76)	0:57 2:13	4:31 5:47	+1:44

	29-30/IX/60	K	T.V.	T.1.	+
2220	1 (7029)	103a-F(3)(15)	21:08 21:23	0:27 0:42	+2:36
2221	2 2 Pnd (7074)	" (10)	21:37 21:47	0:50 1:00	+2:56
2222	3 (8176)	" (100)	22:04 23:49	1:28 3:08	+1:35
2223	4 2 G-w (8425)	" (54 ^m)	24:07 07:51	3:25 325:51	+2:05

a-l $\delta = 40 \frac{\text{Å}}{\text{mm}}$ $F_c = 25.5$

25-7	5	B	$\text{Ni } 30^\circ$	4.1	8.6	8.6
"	"	B	"	4.7	8.1	8.0
"	"	"	"	4.5	8.6	
"	"	"	"	4.3	10.3	

a-l $\delta = 40 \frac{\text{Å}}{\text{mm}}$ $F_c = 25.5$

25-7	5	B	$\text{Ni } 30^\circ$	12.6	14.3	
"	"	"	"	12.5	15.2-15.2-	

" " "

25-7	5	B	$\text{Ni } 30^\circ$	12.3	15.4	15.8
"	"	"	"	11.8	15.4	15.2 e
"	"	"	"	11.4	14.6	14.0
"	"	"	"	10.6	14.0	14.0

25-7	5	A	$\text{Ni } 30^\circ$	18.8	21.4	21.3
"	"	B	"	18.5	21.0	21.0 e
"	"	B	"	17.8	20.3	20.3
"	"	A	"	17.2	20.2	

66		29-30/IX/60	K		T. J.	T. U.		t	
2224	5	(8408)	103a-F(3)	(46) ^m	0:40	1:26	3:58	4:44	+3:03
2225	6	(9049)	"	(56)	1:37	2:33	4:55	5:51	+2:14
2226	7	α Eri (472)	"	(10 ^d)	2:55	2:55:10	6:13	6:13:10	+1:22
2227	8	K Eri (721)	"	(11 ^m)	3:11	3:22	6:29	6:40	+0:53
2228	9	82 δ Cr (779)	"	(7)	3:37	3:44	6:55	7:02	+1:05
2229	10	89 π Cr (811)	"	(10)	4:02	4:12	7:20	7:30	+1:27

		6-7/X/60	K		T. J.	T. U.		+	
2230	1	α Gzr (8425)	103a-F(3)	(36)	1:03	1:03:30	3:33	3:53:30	+3:01
2231	2	α Eri (472)	"	(5 ^d)	1:55	1:55:05	4:45	4:45:05	+0:21
2232	3	δ For (1134)	"	(20 ^m)	3:00	3:20	5:50	6:10	-0:29
2233	4	33 σ Eri (1213)	"	(15)	3:31	3:46	6:21	6:36	-0:14
2234	5	(1214)	"	(24)	4:04	4:28	6:53	7:17	+0:25

		29-30/X/60	K		T. J.	T. U.		+	
2235	1	β Tuc (126)	103a-F(2)	(13)	1:15	1:28	2:37	2:50	+0:52
2236	2	" "	"	(13)	2:16	2:29	3:38	3:51	+1:53

		1-2/XI/60	K		T. J.	T. U.		+	
2237	1	18 ε Psa (8628)	103a-F(2)	(9)	23:32	23:41	0:38	0:47	+1:00
2238	2	69 Aqr (8673)	"	(45)	23:49	0:34	0:55	1:40	+1:22
2239	3	β Tuc (126)	"	(11)	1:09	1:20	2:15	2:26	+0:46
2240	4	π Tuc (83)	"	(36)	1:30	2:06	2:36	3:12	+1:31
2241	5	φ Phe (558)	"	(24)	2:16	2:40	3:22	3:46	+0:37
2242	6	ε Hya (806)	"	(10)	2:49	2:59	3:55	4:05	+0:17

a-l

25-7	5	A	We30 ³	16.9	20.2	20.2	
"	"	B	"	16.5	20.0	20.0	
"	"	A	"	16.4	19.3		Factor 1 place
"	"	B	"	16.3	19.1	19.1	
"	"	C	"	16.3	19.8	19.7	
"	"	A	"	16.2	19.4	19.3	

a-l

25-7	5	A	We30 ³	12.5	16.0		
"	"	B	"	11.8	15.7		
"	"	C	"	11.4	16.8	16.5	
"	"	A	"	11.3	16.0	15.9	
"	"	B	"	11.1	15.1	15.0	

a-b

25-7	3	A	We30 ³	16.8	18.3	18.3	+ 2 ^m de exp.
"	3	B	"	16.3	17.8	17.8	

a-b

25-7	5	A	We30 ³	19.5	22.0	22.0	e
"	"	B	"	19.2	21.8	21.8	
"	"	C	"	18.3	21.1	21.1	
"	"	A	"	18.0	20.8	20.8	
"	"	B	"	17.9	20.5	20.5	
"	"	C	"	17.4	20.2	20.2	

68	5-6/XI/60	K	T.1	T.U.	+	
2243	1 y Gw (8353)	103a-F(3)	(3)	22:57 23:00	23:48 23:51	+1:08
2244	2 12η PA(8338)	"	(36)	23:11 23:47	0:02 0:38	+1:32.5
2245	3 33v Aqr(8418)	"	(11)	23:56 0:07	0:47 0:58	+1:59
2246	4 16η PA(8478)	"	(38)	0:16 0:54	1:07 1:45	+2:25
2247	5 48γ Aqr(8518)	"	(7,8)	1:04 1:11.8	1:55 2:02.8	+2:50

	25-26/XI/60	K	T.1	T.U.	+	
2248	1 2 Cct (9098)	103a-F(2)	(16)	1:01 1:17	0:33 0:49	+1:09
2249	2 28 Cct (317)	"	(43)	2:24 3:07	1:56 2:39	+1:43

	1-2/XII/60	K	T.1	T.U.	+	
2250	1 108 Aqr (9031)	103a-F(A)	(34)	0:57 1:31	0:06 0:40	+1:26

	6-7/XII/60	K	T.1	T.U.	+	
2251	1 (β) δ (8937)	103a-F(2)	(10)	2:00 2:13	0:48 1:01	+2:38
2252	2 101 Aqr (8939)	"	(18)	2:25 2:43	1:13 1:31	+3:04
2253	3 106 Aqr (8998)	"	(29)	3:00 3:29	1:50 2:19	+3:36
2254	4 (1070)	"	(18)	4:41 4:59	3:29 3:47	+1:23
2255	5 20 Eri (1100)	"	(33)	5:14 5:50	4:06 4:39	+1:56
2256	6 (1367)	"	(33)	6:06 6:39	4:54 5:27	+2:05

	7-8/XII/60	K	T.1	T.U.	+	
2257	7 (9026)	103a-F(2)	(113)	1:19 3:12	0:04 1:57	+2:30
2258	8 48 Cct (433)	"	(28)	3:36 4:04	2:19 2:47	+2:23
2259	9 (1070)	"	(16)	4:24 4:40	3:08 3:24	+1:05
2260	10 (1671)	"	(43)	6:01 6:44	4:45 5:28	+1:17

a-l

25-7	5	A	$\text{Ne } 30^\Delta$	19.8	22.6	22.6
"	"	B	"	19.6	22.4	22.4
"	"	C	"	19.3	22.0	22.0
"	"	A	"	18.9	21.7	21.5
"	"	B	"	18.7	21.1	21.1

a-l

25-7	5	C	$\text{Ne } 30^\Delta$	18.4	20.2	20.1
"	"	A	$\text{Ne } 45^\Delta$	17.6	19.4	19.6

a-l

25-7	5	A	$\text{Ne } 45^\Delta$	21.5	25.2	25.1
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a-l

25-7	5	A	$\text{Ne } 45^\Delta$	22.2	25.2	25.2
"	"	B	"	22.0	24.8	24.8
"	"	C	"	21.5	24.1	24.0
"	"	A	"	20.9	22.8	22.8
"	"	C	"	20.8	22.5	22.3
"	"	B	"	20.6	22.0	21.9

a-l

25-7	5	A	$\text{Ne } 45^\Delta$	23.7	24.3	24.1
"	"	B	"	23.3	26.4	26.2
"	"	C	"	23.7	25.7	25.6
"	"	A	"	23.0	24.8	24.6

repeated?

repeated (16^m)

rep.

rep.

70

13-XII-60 J.-K.

Enfoque del colimador del arco y de la cámara
 el tiempo de exposiciones del arco con el

15-16/XII/60		K	T.O.				
2261	1 W For (749)	103a-F(3)(22)	3:05	3:27	1:18	1:40	+0:45
2262	2 20 Eri (1100)	" (33)	3:44	4:17	1:57	2:30	+0:24
2263	3 E For (1114)	" (77)	4:34	5:51	2:47	4:04	+1:37

17-18/XII/60		H		
1	2 Eri	10a-0	1:05 - 1:07	
2	"	"	1:08 - 1:11	

19-20/XII/60		K	T.S		T.O.		
2264	1 106 Aps (8998)	103a-F(3)(31)	2:32	3:03	0:25	0:56	+3:02
2265	2 (220)	" (38)	3:20	3:58	1:18	1:46	+2:55
2266	3 V For (612)	" (17)	4:02	4:19	2:59	2:16	+2:09

20-21/XII/60		K	T.S		T.O.		
2267	4 V For (612)	103a-F(3)(15)	3:22	3:37	1:15	1:30	+1:28
2268	5 M For (652)	" (31)	3:46	4:17	1:39	2:10	+1:50
2269	6 71 Gt (704)	103a-F(98)	4:36	6:14	2:29	4:07	+3:03

21-22/XII/60		K	T.S		T.O.		
2270	1 30 Eri (1202)	103a-F(36)	4:46	5:22	2:35	3:11	+1:14
2271	2 62 Eri (1582)	" (37)	5:48	6:25	3:37	4:14	+1:14
2272	3 BA 1704	" (82)	6:44	8:06	4:33	5:55	+2:15

de $\sigma_y = 20 \frac{\text{A}}{\text{mm}}$. Quedo enfoque de la cámara: $\frac{28.0}{22.5}$
 dicho es 4^{a} con cámara: $\frac{13}{5}$.

25-7	5	A Ne 40 ³	21.4	24.0	23.9	rep. (35 ^m) una pl. más
"	"	B "	20.6	23.2	23.0	
"	"	C "	20.6	22.2	22.0	

12-30 1 4^s
 " 2

$F_c = 25.5$

25-7	5	A Ne 40 ³	16.9	19.2	18.9	rep.
"	"	B "	"	18.4	18.3	
"	"	C "	15.1	18.1	17.9	

25-7	5	B Ne 40 ³	20.6	22.8	22.8	Sacar una placa más.
"	"	C "	20.3	22.6	22.3	
"	"	A "	20.3	22.0	21.6	

25-7	5 p	A Ne 40 ³	20.8	25.2	24.6
"	"	B "	18.9	23.5	23.1
"	"	C "	18.1	22.3	22.1

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27-28/XII/60 K

T. 1.

T. U.

2273	1	(1092)	103a-F (46)	5:24	6:10	2:50	3:36	+2:19
2274	2	1002 (1465)	" (4,5)	6:50	6:54.6	4:15	4:19.5	+2:21
2275	3	M Men (1541)	" (45)	7:08	7:53	4:33	5:18	+2:49
2276	4	5m Lup (1702)	" (3 ^m 40 ^s)	8:17	8:20.7	5:42	5:45.7	+3:09

28-29/XII/60

K

T. 1.

T. U.

2277	5	BS 520	103a-F (29)	2:52	3:21	0:15	0:44	+1:24
2278	6	BS 541	" (74)	3:32	4:46	0:55	2:09	+2:22
2279	7	M Men (1541)	" (45)	5:03	5:48	2:26	3:11	+0:45

3-4/I/61

K

T. 1.

T. U.

2280	1	(1258)	103a-F (85)	4:16	5:41	1:15	2:40	+0:58
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6-7/I/61

K

T. 1.

T. U.

2281	1	348 Ori (1852)	103a-F (1 ^m)	6:10	6:11	2:57	2:58	+0:43
2282	2	365 Ori (1855)	" (13)	6:24	6:37	3:11	3:24	+1:02
2283	3	(2154)	" (28)	6:47	7:15	3:34	4:02	+0:58
2284	4	(2205)	" (20)	7:27	7:47	4:14	4:34	+1:30
2285	5	(2395)	" (19)	7:59	8:18	4:46	5:05	+1:38

7-8/I/61

K

T. 1.

T. U.

2286	6	(1288)	103a-F (32)	4:41	5:13	1:24	1:56	+0:51
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10-4/I/61

K

T. 1.

T. U.

2287	1	(1423)	103a-F (33)	5:17	5:50	1:48	2:21	+1:07
2288	2	48 J Eri (1463)	" (7,5)	6:01	6:08.5	2:32	2:39.5	+1:32

a-l

73

25-7	5 d	A	Ne 40 ³	21.6	25.4	25.3	
"	"	B	"	21.6	24.3	24.3	
"	"	C	"	20.5	23.3	23.1	
"	"	A	"	20.2	22.7	22.7	rep. 4 ^m 20 ⁵
25-7	5	A	Ne 40 ³	19.2	23.1	22.9	
"	"	B	"	18.7	22.3	22.0	
"	"	C	"	16.9	21.0	20.7	
25-7	5	A	Ne 40 ³	22.0	24.4	24.4	-6 ^m de exp. Nube
25-7	5	A	Ne 40 ³	18.8	21.6	21.6	rep. 40 ³
"	"	B	"	18.8	21.3	21.2	
"	"	C	"	18.6	21.0	21.0	
"	"	A	"	18.7	20.5	20.5	
"	"	B	"	18.4	20.1	20.0	
25-7	5	lebo	A Ne 40 ³	22.0	25.0	24.8	di m ³ 20 ^m de expos.
25-7	5	A	Ne 40 ³	21.0	24.0	23.9	e
"	"	B	"	20.1	22.6	22.5	

74

10-11/I/61			K	T.S.	T.U.			
2289	3	56 Eri (1508)	103a-F (46)	7:06	7:52	3:37	4:23	+2:48
2290	4	48 V Eri (1463)	" (6)	8:08	8:14	4:39	4:45	+3:38
2291	5	(2142)	" (20)	8:27	8:42	4:58	5:18	+2:36

11-12/I/61			K	T.S.	T.U.			
2292	6	(2284)	103a-F (31)	7:46	7:17	3:13	3:44	+0:43
2293	7	15 CMa (2571)	" (12)	7:36	7:48	4:03	4:15	+0:52
2294	8	(2595)	" (25)	8:00	8:25	4:27	4:52	+1:20

17-18/I/61			K	T.S.	T.U.			
2295	1	57 Eri (1520)	103a-F (8)	5:11	5:19	1:15	1:23	+0:33
2296	2	5 pm Cep (1702)	" (4.5)	5:29	5:33.5	1:35	1:37.5	+0:22
2297	3	(1595)	" (45)	5:46	6:31	1:50	2:35	+1:15
2298	4	(1646)	" (58)	6:48	7:46	2:52	3:50	+2:16
2299	5	(2628)	" (84)	8:21	9:45	4:25	5:49	+2:07

18-19/I/61			K	T.S.	T.U.			
2300	6	69 Eri (1679)	103a-F (9)	6:13	6:22	2:13	2:22	+1:12
2301	7	(1731)	" (93)	6:35	8:08	2:35	4:08	+2:08
	8	19 Mon (2648)	" (16)	8:51	9:07	4:50	5:06	+1:59

19-20/I/61			K	T.S.	T.U.			
	1	20 Ori (1735)	103a-F (5)	5:27	5:32	1:23	1:28	+0:15
2302	2	(1748)	" (87)	5:45	7:12	1:41	3:08	+1:13
2303	3	(2325)	" (59)	7:44	8:43	3:40	4:39	+1:51
2304	4	(2627)	" (74)	9:01	10:15	4:57	6:11	+2:42

25-7	5	C	We 40 ³	19.1	22.3	22.1	e
"	"	A	"	18.7	21.8	21.8	
"	"	B	"	18.5	21.2	21.1	e

25-7	5	A	We 40 ³	24.5	25.7	25.6	e
"	"	B	"	24.3	25.4	25.4	di 3 ^m más de esp.
"	"	C	"	24.1	25.2	25.0	di 10 ^m más de esp.

25-7	5	A	We 40 ³	21.3	25.0	25.0	
"	"	B	"	21.2	24.7	24.7	
"	"	C	"	20.8	24.1	23.8	
"	"	A	"	20.0	23.3	23.0	+ 16 ^m
"	"	B	"	19.2	21.9	21.6	+ 20 ^m e

25-7	5	A	We 40 ³	23.5	25.7	25.7	
"	"	B	"	23.9	25.4	25.1	+ 25 ^m
"	"	C	"	23.5	24.8	24.7	+ 2 ^m

25-7	5	A	We 40 ³	28.6	29.2	29.2	
"	"	B	"	28.5	29.1	28.9	+ 7 ^m
"	"	C	"	27.5	28.8	28.7	+ 5 ^m
"	"	A	"	27.1	28.2	28.0	+ 6 ^m

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24-25/I/61			K	T. J.		T. U.			
2305	1	19 Mon (2648)	103a-F	(16)	8:49	9:05	4:30	4:46	+2:03
2306	2	24 CMA (2653)	"	(26)	9:20	9:22	5:01	5:03	+2:32
2307	3	23 CMA (2654)	"	(74)	9:45	9:52	5:20	5:24	+2:48

25-26/I/61			K	T. J.		T. U.			
2308	4	20 Ori (1735)	102a-F	(5)	5:36	5:41	1:08	1:13	+0:24
2309	5	(1764)	"	(37)	6:00	6:37	1:32	2:09	+0:59
2310	6	(2373)	"	(60)	6:47	7:47	2:19	3:19	+0:50
2311	7	(2395)	"	(19)	8:10	8:29	3:42	4:01	+1:49
2312	8	(2699)	"	(56)	9:02	9:58	4:34	5:30	+2:24

26-27/I/61			K	T. J.		T. U.			
2313	6	2 Lep (1756)	103a-F	(78)	5:44	5:51	1:12	1:19	+0:31
2314	2	7 Lep (1757)	"	(27)	6:04	6:31	1:32	1:59	+1:02
2315	3	(1772)	"	(67)	6:44	7:51	2:12	3:19	+1:59
2316	4	(2271)	"	(40)	8:09	8:49	3:37	4:17	+2:13
2317	5	4 CMA (2387)	"	(9)	9:03	9:12	4:31	4:40	+2:39
2318	6	(2679)	"	(99)	9:24	10:54	4:52	6:22	+3:06

27-28/I/61			K	T. J.		T. U.			
2319	1	22 Ori (1765)	103a-F	(13)	6:47	7:00	2:11	2:24	+1:35
	2	(1781)	"	(37)	7:14	7:51	2:38	3:15	+2:11
2320	3	(1887)	103a-F	(12)	8:10	8:22	3:34	3:46	+2:44

25-7	34d	A	Ne 40 ³	16.1	19.4	19.2	+ 2 ^m
"	"	B	"	15.5	18.9	18.9	
"	"	C	"	15.1	18.4	18.4	

25-7	5	A	Ne 40 ³	18.9			
"	"	B	"	18.3			
"	"	C	"	17.7			+ 10 ^m + 8 ^m
"	"	A	"	16.5			
"	"	B	"	16.1			+ 10 ^m

25-7	5	A	Ne 40 ¹	20.1	23.7	23.6	+ 1.2 ^m
"	"	B	"	19.4	23.4	23.1	
"	"	C	"	18.7	22.4	21.9	+ 5 ^m e
"	"	A	"	18.2	21.2	20.8	+ 4 ^m
"	"	B	"	18.3	20.5	20.4	
"	"	C	"	18.1	20.1	19.8	+ 10 ^m

25-7	5	A	Ne 40 ³	21.8	24.1	24.0	
"	"	B	"	21.8	23.9	23.5	note
"	"	C	"	21.8	23.2	23.2	rep

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		29-30/I/61	K.		T.S.		T.U.		
2321	1	(1781)	103a-E	(37)	6:53	7:30	2:09	2:46	+1:46
2322	2	(2142)	"	(20)	7:45	8:05	3:01	3:21	+1:54
2323	3	(2205)	"	(20)	8:14	8:34	3:30	3:50	+2:15
2324	4	(2266)	"	(26)	8:44	9:10	4:00	4:26	+2:42
2325	5	(2702)	"	(15)	9:21	9:36	4:37	4:52	+2:23
2326	6	(2745)	"	(13,5)	9:46	9:59,5	5:02	5:15,5	+2:42
2327	7	(2749)	"	(5)	10:08	10:13	5:24	5:29	+2:59

		2-3/II/61	K.		T.S.		T.U.		
2328	1	(2142)	103a-E	(10)	6:02	6:17	1:08	1:18	+0:11
2329	2	"	"	(8)	6:48	6:56	1:49	1:57	+0:52
2330	3	"	"	(8)	7:01	7:09	2:02	2:10	+1:05

		3-4/II/61	K.		T.S.		T.U.		
2331	1	(1781)	103a-E	(14)	5:59	6:13	0:57	1:11	+0:47
2332	2	(1865)	"	(36)	6:28	7:04	1:26	2:02	+1:18
2333	3	(1873)	"	(28)	7:23	7:51	2:21	2:49	+2:08
2334	4	(2161)	"	(35)	8:10	8:45	3:08	3:43	+2:25
2335	5	(2690)	"	(16)	9:01	9:17	3:59	4:15	+2:06

		7-8/II/61	K.		T.S.		T.U.		
2336	1	(1887)	103a-E	(13)	6:48	7:01	1:28	1:41	+1:23
2337	2	(1884)	"	(5)	7:06	7:11	1:46	1:51	+1:37
2338	3	(1886)	"	(13)	7:15	7:28	1:55	2:08	+1:50
2339	4	(1900)	"	(34)	7:40	8:14	2:20	2:54	+2:25
2340	5	(2213)	"	(31)	8:24	8:55	3:04	3:35	+2:30

25-7	5	A	Ne 40 ³	25.2	27.7	27.4	
"	"	B	"	24.7	27.0	26.9	e
"	"	C	"	24.5	26.8	26.6	
"	"	A	"	24.2	26.2	26.1	
"	"	B	"	24.1	26.0	25.9	
"	"	C	"	23.8	25.8	25.6	e
"	"	A	"	23.7	25.5	25.5	e
25-7	5	A	Ne 20 ³	22.8	25.7	25.6	e
"	"	B	"	22.5	25.1	25.1	e + 2 ^m
"	"	C	Ne 25 ³	22.4	25.0	25.0	e
25-7	5	A	Ne 26 ³	25.7	28.0	28.0	
"	"	B	"	25.5	27.8	27.5	+ 2 ^m
"	"	C	"	25.0	27.0	26.8	
"	"	A	"	24.8	26.6	26.4	
"	"	B	"	24.6	26.1	26.0	e
25-7	5	A	Ne 26 ³	22.9	26.0	25.9	
"	"	B	"	22.7	25.8	25.8	
"	"	C	"	22.7	25.6	25.5	
"	"	A	"	22.0	25.1	24.7	
"	"	B	"	21.1	24.4	24.0	+ 2 ^m

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7-8/II/61

K.

T. J.

T. U.

2341	6	(2790)	103a-E (5.5)	9:16	9:21.5	3:56	4:01.5	+2:03
2342	7	(2799)	" (37)	9:33	10:10	4:13	4:50	+2:34
2343	8	a Car (3659)	" (1.5)	10:36	10:37.5	5:16	5:17.5	+1:30
2344	9	a Car (3659)	" (4.8)	10:42	10:42.8	5:22	5:22.8	+1:35

8-9/II/61

L.

T. J.

T. U.

2345	1	Port	103a-0 (40)	5:59	6:39	21:35	22:16	
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8-9/II/61

K.

T. J.

T. U.

2346	1	10 Mon (2344)	103a-E (7)	8:25.5	8:32.5	3:01.5	3:08.5	+2:02
2347	2	10 Mon (2344)	" (7)	8:52	8:59	3:28	3:35	+2:31
2348	3	(2732)	" (29)	9:45	9:45	3:52	4:21	+2:20
2349	4	(2739)	" (21)	10:00	10:21	4:36	4:52	+3:00
2350	5	(2787)	" (5.5)	10:37	10:42.5	5:13	5:18.5	+3:25
2351	6	(2499)	" (37)	10:56	11:33	5:32	6:09	+3:57

9-10/II/61

L.

2352	1	dep	103a-0 (69)	22:			22:30	
	2	a Car	103a-0 65	9:50-		1:23	2:30	-1:13

10-11/II/61

K.

T. J.

T. U.

2353	1	(1906)	103a-E (24)	7:25	7:59	1:53	2:27	+2:09
2354	2	(1903) EOn	" 10 ¹	8:08	8:08:10	2:36	2:36:10	+2:35

14-15/II/61

K.

T. J.

T. U.

2355	1	(2380)	103a-E (19)	8:36	8:55	2:48	3:07	+2:18
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25-7	5	C	We 30 ¹	20.9	23.6	23.6
"	"	A	"	20.5	23.2	23.0 +3 ^m
"	"	B	"	20.3	22.4	22.4
"	"	C	"	20.1	22.2	22.2

25-? 5 [Calcutta] Fe 4³ MB Resulti inferes.

25-7	5	A	We 30 ¹	23.5	24.5	24.4 +2 ^m	Anda mal. ↑ Calcutta.
"	"	B	"	23.5	24.2	24.2 +2 ^m	
"	"	C	"	23.6	24.2	24.1 +2 ^m	
"	"	A	"	23.5	23.9	23.9	
"	"	B	"	23.3	23.8	23.8 e	
"	"	C	"	23.1	23.8	23.8	

25-7(C) 5 1 Fe 4³

25-25 5 1

25-7	4	A	We 30 ¹	22.4	24.6	24.3
"	"	B	"	22.1	24.0	24.0

25-7 5 A We 30¹ 22.5 23.4 23.4

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14-15/II/61

K.

T.J.

T.U.

2356	2	(2397)	103a-E	(16)	9:18	9:34	3:30	3:46	+2:56
2357	3	(2611)	"	(24)	9:47	10:11	3:59	4:23	+3:04
2358	4	(2688)	"	(34)	10:24	10:58	4:36	5:10	+3:37

16-17/II/61

K.

T.J.

T.U.

2359	1	(1918)	103a-E	(16)	6:45	7:01	0:52	1:08	+1:22
2360	2	(1930) Ori	"	(15)	7:18	7:19.5	1:25	1:26.5	+1:47
2361	3	(1933)	"	(20)	7:35	7:55	1:42	2:02	+2:12
	4	(1942)	"	(35)	8:11	8:46	2:18	2:53	+2:55

18-19/II/61

K.

T.J.

T.U.

2362	1	34 Ori (1852)	103a-E	(24)	7:53	7:53:24	1:50	1:50:24	+2:24
2363	2	(1923)	"	(32)	8:14	8:46	2:11	2:43	+2:56
2364	3	53a Ori (2004)	"	(19)	9:07	9:07:25	3:04	3:04:25	+3:24

22-23/II/61

H.

T.J.

2365		p. Cha	II a-0	(15)			0:11	0:26	
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22-23/II/61

K.

T.J.

T.U.

2366	1	34 Ori (1852)	103a-E	(12)	7:30	7:30:12	1:10	1:20:12	+2:01
2367	2	(1932)	"	(38)	7:45	8:23	1:25	2:03	+2:28
2368	3	(1942)	"	(35)	8:33	9:08	2:13	2:47	+3:14
2369	4	(1952)	"	(75)	9:20	9:30.5	3:02	3:09.5	+3:48
2370	5	(2294)	"	(15)	9:43	9:43:15	3:22	3:22:15	+3:22
2371	6	(3194)	"	(13)	11:29	11:42	5:08	5:21	+3:28

25-7	5	B	Ne 30 ³	22.5	23.3	23.2	rep. c.
"	"	C	"	22.3	23.1	23.1	
"	"	A	"	22.0	23.0	22.9	+10 ^m velo
25-7	2	A	Ne 28 ¹	24.5	26.0	25.9	+6 ^m
"	"	B	"	24.4	25.8	25.8	
"	3	C	"	24.4	25.5	25.3	
"	1	A	"	24.0	25.2	25.0	-17 ^m
25-7	4	A	Ne 28 ⁵	24.1	26.1	26.1	
"	"	B	"	23.4	25.8	25.6	+1 ^m
"	"	A	"	23.0	25.3	25.3	
0-10	4		Fe 2 ⁵				
25-7	3	A	Ne 28 ¹	21.7	24.3	24.3	
"	4	B	"	21.4	24.0	23.6	
"	5	C	"	20.9	23.2	22.9	
"	"	A	"	20.1	22.4	22.4	
"	"	B	"	19.8	22.2	22.2	
"	"	C	"	17.7	20.4	20.4	

23-25/II/61 H.

T.U.

2372 1 5 hp (II and 23:25-11:55

24-25/II/61 K

T.S.

T.O.

2373 1 X Col (1956) 103a-E (40) 7:20 7:20:40 0:54 0:54:10 +1:44

2374 2 (1962) " (28) 7:42 8:10 1:16 1:44 +2:19

2375 3 (1996) " (9) 8:38 8:47 2:12 2:21 +3:01

2376 4 (2031) " (10) 9:00 9:10 2:39 2:44 +3:19

2377 5 8 Col (2056) " (7) 9:28 9:35 3:02 3:09 +3:43

2378 6 (2911) " (14) 9:49 10:03 3:23 3:37 +2:25

27-28/II/61 K

T.S.

T.O.

2379 1 Y Col (2106) 103a-E (4) 7:16 7:20 0:36 0:40 +1:22

2380 2 (2058) " (32) 7:33 8:05 0:53 1:25 +1:57

2381 3 (2064) " (9.2) 8:19 8:28.2 1:39 1:48.2 +2:35

2382 4 (2089) " (28.5) 8:42 9:10.5 2:02 2:30.5 +3:03

2383 5 Y Col (2106) " (4.5) 9:23 9:27.5 2:43 2:47.5 +3:30

1-2/III/61 K

T.S.

T.U.

2384 1 (2149) 103a-E (15) 7:27 7:42 0:40 0:55 +1:33

2385 2 (2170) " (22) 7:49 8:11 1:02 1:24 +1:56

2386 3 8 Pic (2212) " (6.5) 8:21 8:27.5 1:34 1:40.5 +2:17

2387 4 (2249) " (21) 8:37 8:58 1:50 2:11 +2:35

2388 5 (2273) " (8.5) 9:09 9:17.5 2:22 2:30.5 +2:57

2389 6 1 CMa (2282) " (54) 9:38 9:58.5 2:51 2:51.5 +3:22

2390 7 (2577) " (32) 9:57 10:29 3:10 3:42 +3:22

F de Cam. $D = 20 \frac{\text{A}}{\text{mm}}$ es 29.0

240)

25-7	4	A	$\sqrt{e} 28^{\Delta}$	23.8	25.8	25.8	e
"	5	B	"	23.6	25.6	25.5	
"	"	C	"	23.6	25.1	25.1	
"	"	A	"	23.6	25.0	25.0	
"	4	B	"	23.7	24.7	24.7	
"	2	C	"	23.8	24.7	24.7	+4 ^m +6 ^m e

25-7	4	A	$\sqrt{e} 28^{\Delta}$	18.6	22.9	22.9	
"	5	B	"	18.3	22.5	22.3	
"	4	C	"	17.7	21.5	21.4	
"	4	A	"	17.5	21.0	20.6	
"	"	B	"	17.1	20.1	20.0	

25-7	5	A	$\sqrt{e} 28^{\Delta}$	21.7	24.2	24.1	
"	"	B	"	21.5	23.9	23.8	e
"	"	C	"	21.4	23.6	23.5	up.
"	"	A	"	21.2	23.2	23.1	20
"	"	B	"	21.1	23.0	22.9	+1 ^m
"	"	C	"	20.9	22.8	22.8	
"	"	A	"	20.9	22.7	22.5	+1 ^m e

86	1-2/III/61	K		T.1.	T.O.	
2391	8 (3078)	103a-E	(29)	10:53 11:22	4:06 4:35	+3:19
2392	9 k/d (3734)	"	(33)	11:41 11:41:33	4:54 4:54:33	+2:24
2393	10 (3717)	"	(38)	11:59 12:37	5:12 5:50	+3:02

	3-4/III/61	K		T.1.	T.U.	
2394	1 δ 9.4 (2212)	103a-E	(65)	8:11 8:17.5	1:17 1:20.5	+2:08
2395	2 (2288)	"	(14)	8:28 8:42	1:34 1:48	+2:18
2396	3 α CMa (2361)	"	(5)	9:07 9:12	2:13 2:18	+2:45
2397	4 μ CMa (2492)	"	(9)	9:45 9:54	2:51 3:00	+3:09
2398	5 β μ CMa (2827)	"	(28)	10:15 10:15:28	3:21 3:21:28	+2:57
	6 (2873)	"	(18)	10:52 11:10	3:58 4:16	+3:36

	6-7/III/61	K		T.1.	T.U.	
2399	1 (2364)	103a-E	(18)	7:11 7:29	0:05 0:23	+0:55
2400	2 (2360)	"	(35)	7:48 8:23	0:42 1:17	+1:43
2401	3 (2410)	"	(32)	8:35 9:07	1:29 2:01	+2:23

	21-22/III/61	K		T.1.	T.U.	
2402	1 (2364)	103a-E	(18)	8:18 8:36	0:13 0:31	+2:02
2403	2 (2475)	"	(28.5)	8:53 9:21.5	0:48 1:16.5	+2:24
	3 (2806)	"	(28.5)	9:40 10:08.5	1:35 2:03.5	+2:36
2404	4 (2911)	"	(7)	10:40 10:47	2:35 2:42	+3:08
2405	5 k/d (3734)	"	(30)	11:15 11:15.5	3:10 3:10.5	+1:58
2406	6 k/d (3734)	"	(1 ^m)	11:21 11:25	3:19 3:20	+2:07

25-7	5	B	$\sqrt{e} 28^3$	20.7	22.1	22.0	
"	"	C	"	20.7	21.9	21.9	rep. 20 ⁴
"	"	A	"	20.8	21.8	21.7	

F=372

25-7	4	A	$\sqrt{e} 28^3$	23.3	25.0	25.0	
"	"	B	"	22.9	24.8	24.7	+4 ^m
"	"	C	"	22.3	24.5	24.5	+3
"	"	A	"	22.2	24.0	24.0	e
"	"	B	"	21.9	23.8	23.8	
"	2-1	C	"	21.3	23.3	23.3	

F=375

25-7	5 d	A	$\sqrt{e} 28^3$	18.9	21.1	21.0	+3 ^m rep.
"	"	B	"	17.9	20.6	20.1	+4 ^m
"	"	C	"	17.4	19.9	19.5	+10 ^m

25-7	5	A	$\sqrt{e} 28^3$	20.1	24.8	24.6	+2 ^m +2 ^m
"	"	B	"	21.5	24.4	24.1	+8
"	"	C	"	21.2	23.8	23.5	+14
"	"	A	"	20.8	23.0	22.9	+6 rep.
"	"	B	"	20.8	22.6	22.6	
"	"	A	"	20.8	22.5	22.5	

23-24/II/61		K	T.1	T.U.			
2407	1 (2510)	103a-E (28,5)	8:38	9:06,5	0:25	0:53,5	+2:10
2408	2 (2964)	" (18)	9:28	9:48	1:15	1:33	+2:01
2409	3 (2961)	" (7)	10:13	10:20	1:58	2:05	+2:38
2410	4 (2968)	" (23)	10:37	11:00	2:22	2:45	+3:10
2411	5 (3494)	" (14)	11:19	11:33	3:04	3:18	+2:41
2412	6 (3688)	" (25)	11:55	12:20	3:40	4:05	+2:53

27-28/III/61		K	T.1	T.U.			
2413	1 (2885)	103a-E (38)	9:46	10:24	1:16	1:54	+2:36
2414	2 (3114)	" (12)	10:40	10:52	2:10	2:22	+2:51
2415	3 (3116)	" (8)	11:02	11:10	2:32	2:40	+3:11
2416	4 (3117)	103a-E (15)	11:28	11:29,5	2:58	2:59,5	+3:35
2417	5 (3356)	" (20)	11:53	12:13	3:23	3:43	+3:36
2418	6 (3990)	" (9)	12:27	12:36	3:57	4:06	+2:25
2419	7 (4009)	" (26)	12:53	13:19	4:23	4:49	+2:57

28-29/III/61		K	T.1	T.U.			
2420	66 (2981)	103a-E (12)	10:16	10:28	1:38	1:50	+2:39
2421	77 (3159)	" (7)	10:56	11:03	2:18	2:25	+2:57
2422	88 (3147)	" (19)	11:25	11:44	2:47	3:06	+3:33

2-3/IV/61		K	T.1	T.U.			
2423	1 13x CMA (2538)	103a-E (2)	7:57	7:59	23:04	23:06	+1:11
2423	2 (2544)	" (28,5)	8:12	8:41,5	23:20	23:48,5	+1:40
2424	3 20x CMA (2596)	" (4,5)	9:10	9:14,5	0:17	0:21,5	+2:14
2425	4 13x CMA (2538)	" (4)	9:24	9:33	0:36	0:40	+2:44

25-7	5	A	we 28 ³	25.7	27.8	27.6	+10
"	"	B	"	25.4	27.3	27.2	+6
"	"	C	"	25.3	27.0	27.0	
"	"	A	"	25.3	26.8	26.6	+7 [e]
"	"	B	"	25.3	26.4	26.4	+2
"	"	C	"	25.2	26.2	26.2	+4

25-7	5	A	we 28 ³	20.0	21.0	20.9	+4
"	"	B	"	19.8	20.8	20.8	
"	"	C	"	19.6	20.6	20.6	
"	"	A	"	19.3	20.5	20.5	
"	"	B	"	19.1	20.3	20.3	+2 [e]
"	"	C	"	18.9	20.2	20.2	
"	"	A	"	18.7	20.1	20.1	e

25-7	5	A	we 28 ³	20.9	22.3	22.3	+10
"	"	B	"	20.8	22.0	22.0	+5
"	"	C	"	20.8	21.8	21.8	+8 [e]

25-7	5	A	we 28 ³	20.2	21.9	21.9	
"	"	B	"	19.8	21.7	21.5	+10
"	"	C	"	19.5	21.2	21.2	+2
"	"	A	we 32	19.2	21.0	21.0	

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2-3/IV/61 K

T.S.

T.U

2426	5	20 α CMa (2596)	103a-E (7)	9:56	10:03	1:03	1:10	+3:06
2427	6	(2614)	" (28)	10:26	10:54	1:33	2:01	+3:45
2428	7	14 Pup (3168)	" (24)	11:22		2:29	2:53	+3:33

3-4/IV/61 K

T.S.

T.U.

2429	1	21 ϵ CMa (2618)	103a-E (10 ³)	8:48	8:48:10	23:51	23:51:10	+1:49
	2	(2614)	" (28)	9:04	9:32	0:07	0:35	+2:23
	3	21 ϵ CMa (2618)	" (10 ³)	10:02	10:02:10	1:05	1:05:10 ³	+3:07
2430	4	21 ϵ CMa (2618)	" (20 ³)	10:07	10:07:20	1:10	1:10:20	+3:12

4-5/IV/61

d.

T.U.

p	1	α CMa	103a-0	30 ^s		23:45		
p	2	α CMa	103a-0	15 ^s		23:05		
p.X	3	α CMa	103a-0	4 ^m		1:07		
	4	α CMa	103a-0	10 ³		1:15		
2431	5	α Cin	Da-0	70 ^m		3:05	4:21	22:44

5-6/IV/61

K

T.S.

T.U

2432	1	(3244)	103a-E (10)	10:40	10:50	1:37	1:47	+2:36
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6-7/IV/61

K

T.S.

T.U

2433	1	(2616)	103a-E (16)	8:44	9:00	23:36	23:52	+1:57
2434	2	21 ϵ CMa (2618)	" (20 ³)	9:31	9:31:20	0:23	0:23:20	+2:36
2435	3	21 ϵ CMa (2618)	" (40 ³)	10:13		1:05	1:05:40	+3:20
2436	4	(3240)	" (8.5)	10:58	11:06.5	1:50	1:58.5	+2:52

25-7	5	B	Ne 28 ¹	19.1	20.6	20.6		
"	"	C	"	18.8	20.2	20.2	+12	def. rep.
"	"	A	"	18.6	19.8	19.7	+12	+10
25-7	5	A	Ne 28 ¹	19.1	21.0	21.0	+10 ²	
"	"	B	"	18.8	20.9	20.7	+14	
"	"	C	"	18.5	20.2	20.2		
"	"	A	"	18.5	20.1	20.1		
0-10	5		Fe 2 ^s	^C 15.6	^E 18.0			
0-10	5		2 ^s					
25-7	5	A	Ne 28 ¹	11.9	14.8	14.7	+12	18°; 6"
"	"							
25-7	5	A	Ne 28 ¹	14.5	16.6	16.5	+8	" "
"	"	B	"	13.9	16.2	16.2		" "
"	"	C	"	13.8	15.6	15.6		" "
"	"	A	"	14.2	15.2	15.2	+10	+6

92	13-14/IV/61	K		T. J.	T. U.	
2437	1	K Pyx (3468)	103a-E (2)	9:33 9:35	23:57 23:59	+0:54
	2	K Pyx (3468)	103a-F (4)	9:43 9:47	0:07 0:11	+1:05
	3	"	" (8)	10:21 10:29	0:45 0:53	+1:44
2438	4	"	" (10)	10:30 10:40	0:54 1:04	+1:55
2439	5	a Car (3659)	" (10)	11:15 11:25	1:39 1:49	+2:13
2440	6	"	103a-E (4)	11:30 11:34	1:54 1:58	+2:24
2441	7	(3663)	" (6)	11:53 11:59	2:17 2:23	+2:48
2442	8	(4140)	" (4)	12:18 12:22	2:42 2:46	+1:52
2443	9	(4173)	" (40)	12:43 13:23	3:07 3:47	+2:29
2444	10	(4198)	" (16)	13:53 14:09	4:17 4:33	+3:22

	14-15/IV/61	K		T. J.	T. U.	
2445	1	Z. Cha (3860)	103a-E (9)	10:40 10:49	11:01 1:10	+1:13
2446	2	(3868)	" (30)	11:08 11:38	1:29 1:59	+1:46
2447	3	(4173)	" (40)	12:08 12:48	2:29 3:09	+1:55
2448	4	(4196)	" (9)	13:43 13:52	4:04 4:13	+3:10
2449	5	(4199) @ Car	" (2)	14:07 14:09	4:28 4:30	+3:30
2450	6	(4204)	" (30)	14:31 15:01	4:52 5:22	+4:07

	15-16/IV/61	L.	40A		T. U.	H
2451	1	a Cir	103a-0	12 ^m	1:50 2:03	-3:04
2451	2	a Cir	103a-0	30 ^m	3:06 3:38	-1:48
2452	3	a Cir	103a-0	90 ^m	3:52 5:27	-1:02

25-7	5	A	Ne 28	18.2	20.4	20.4	+2	He	18° 6 ^m
"	"	B	Ne 60	18.2	20.2	20.2	+2	"	"
"	"	C	"	17.9	19.8	19.8		"	"
"	"	A	"	17.8	19.8	19.8	+2	He	"
"	"	B	"	17.6	19.4	19.4	+2	"	"
"	"	C	Ne 28	17.5	19.2	19.2		"	"
"	"	A	"	17.4	19.1	19.1		"	"
"	"	B	"	17.2	18.8	18.8	e	"	"
"	"	C	"	17.3	18.7	18.4	+4+6	exp	"
"	"	A	"	17.0	18.1	18.1	+2	"	"

25-7	5	A	Ne 28	18.0	20.4	20.4	+8	"	"
"	"	B	"	17.7	20.2	19.9	14	"	"
"	"	C	"	17.0	19.5	19.0	+30	"	"
"	"	A	"	16.8	18.2	18.2	+8	"	"
"	"	B	"	16.7	18.1	18.1		"	"
"	"	C	"	16.6	17.8	17.6	+20	"	20° 5 ^m

25-7	5		⁴ Fe	18.6	20.4				1 ^m perd
	5		⁴ Fe	17.7 17.8	19.5	19.3			
	5		⁴ Fe	17.6	19.1				Para 2 in ventils + potens

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18-19/IV/61		K		T.S.	T.U.				
	1	38x Hya (3849)	103a-E	(14)	10:24	10:41	0:31	0:45	+0:57
2453	2	(3946)	"	(50)	10:56	11:46	1:00	1:50	+1:25
2454	3	30 Sex (4119)	"	(16)	12:21	12:37	2:25	2:41	+2:03

19-20/IV/61		K		T.S.	T.U.				
2455	1	(3940) ϕ	103a-E	(2)	10:53	10:55	0:54	0:56	+1:02
2456	2	(3941)	"	(30)	11:09	11:39	1:10	1:40	+1:31

20-21/IV/61		K		T.S.	T.U.				
2457	1	(2616)	103a-E	(32)	9:21	9:58	23:23	23:55	+2:47
2458	2	(3343)	"	(40)	10:19	10:59	0:16	0:56	+2:15

8-9/V/61		K		T.S.	T.U.				
2459	1	(4618)	103a-E	(7)	13:20	13:27	2:02	2:14	+1:21
2460	2	δ Cen (4621)	"	(1 ⁿ)	13:37	13:38	2:24	2:25	+1:35
2461	3	(4625)	"	(16)	13:52	14:08	2:39	2:55	+1:57
2462	4	(4930)	"	(22)	14:40	15:02	3:27	3:49	+1:55
2463	5	(5221) δ Cen	"	(7)	15:50	15:57	4:37	4:44	+2:07

10-11/V/61		K		T.S.	T.U.				
2464	1	(4549)	103a-E	(9)	12:50	12:59	1:28	1:37	+1:07.5
2465	2	(4573)	"	(18)	13:16	13:34	1:54	2:12	+1:32
2466	3	θ^2 Cen (4603)	"	(7)	14:12	14:19	2:50	2:57	+2:16
2467	4	(4625)	"	(16)	14:39	14:55	3:17	3:33	+2:43
2468	5	η Cen (5440)	"	(40 ^a)	15:24	15:34	4:12	4:12:40	+1:05
2469	6	β Lep (5571)	"	(40 ^a)	16:25	16:25	5:03	5:03:40	+1:32

25-7	5	A	Ne 28 ^Δ	14.2	17.2	17.0	+6	
"	"	C	Ne 30	13.9	16.8	16.5	+20	<input checked="" type="checkbox"/> e
"	"	A	w 28	12.9	15.3	15.1	+10	up.
25-7	4	A	Ne 28 ^Δ	13.2	15.6	15.6	+4	He
"	3	C	"	13.1	15.3	15.1	+40 + 20	up
25-7	5	A	Ne 28 ^Δ	15.2	17.5	17.2	+10	
"	"	C	"	14.5	16.8	16.6	+20	
25-7	5	A	wc 28 ^Δ	15.6	15.8	15.8	+4	
"	"	B	"	15.6	15.8	15.8	e	
"	"	C	"	15.5	15.8	15.8	+6	up <input checked="" type="checkbox"/> e
"	"	A	"	15.5	15.7	15.7	+8	total e
"	"	B	"	15.6	15.7	15.7	+4	
25-7	5	A	Ne 28 ^Δ	10.6	12.8	12.6	+5	
"	"	B	"	10.3	12.4	12.3	+10	
"	"	C	"	10.2	12.0	11.9	+4	
"	"	A	"	10.4	11.7	11.6	+10	e
"	"	B	"	10.5	11.3	11.3		e
"	"	A	"	10.7	11.0	11.0		

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		19-20/V/61	K.		T.1.	T.2.	T.U.		
	i	(4205)	103a-E	(18)	12:11	12:19	0:12	0:20	+1:33
2470	(A)2	(4219)	"	(15)	12:45	13:00	0:46	1:01	+2:08
2470	(B)3	(4219)	"	(15)	13:24	13:39	1:25	1:40	+2:47
2471	4	(4222)	"	(9)	13:54	14:03	1:55	2:04	+3:14
2472	5	(4205)	"	(18)	14:26	14:34	2:24	2:35	+3:49

		22-23/V/61	K.		T.1.	T.2.	T.U.		
2473	1	(3858)	103a-E	(6)	11:10	11:16	23:00	23:06	+1:35
2474	2	(4361)	"	(22)	12:04	12:26	23:54	0:16	+1:05
2475	3	(4656)	50 Cru	(52 ^h)	13:05	13:06	0:55	0:56	+0:55

		29-30/V/61	K.		T.1.	T.2.	T.U.		
2476	1	β Cha (4674)	103a-E	(10)	13:43	13:53	1:05	1:15	+1:35
2477	2	2 Aps (5336)	"	(10)	14:34	14:44	1:56	2:06	+0:24
2478	3	ε Lup (5354)	"	(7)	15:14	15:21	2:36	2:43	+1:03
2479	4	(5358)	"	(5)	15:32	15:37	2:54	2:59	+1:19

		1-2/VI/61	K.		T.1.	T.2.	T.U.		
2480	1	30 ^B Sex (4119)	103a-E	(8)	11:35	11:43	22:46	22:54	+1:13
2481	2	δ ² Cha (4234)	"	(5)	12:30	12:35	23:41	23:46	+1:50
2482	3	(4329)	"	(18)	12:56	13:14	0:07	0:25	+2:02

		4-5/VI/61	K.		T.1.	T.2.	T.U.		
2483	1	38κ Hya (3849)	103a-E	(7)	11:39	11:46	22:37	22:44	+2:05
2484	2	(3825)	"	(4)	12:21	12:25	23:19	22:23	+2:51

25-7	5	A	Ne 28 ^d	10.2	12.5	12.4	+6	Placas metálicas
"	"	B	" 56 ^d	9.7	12.0	11.8	+20	} Redele Justas " con vigas
"	"	C	Ne 28 ^d	9.7	11.5	11.4	+8	
"	"	A	"	9.7	11.2	11.2	+4	
"	"	B	"	9.5	10.9	10.8	+4	

25-7	5	A	Ne 28 ^d	13.7	15.4	15.4	+4	e
"	"	B	"	12.7	14.8	14.6	+16	
"	"	C	"	12.6	14.3	14.3		

25-7	4 d	A	Ne 28 ^d	18.8	18.4	18.4	+30	
"	5	B	"	18.6	18.6	18.6	+20	
"	5	C	"	18.6	18.8	18.8	+2	
"	5	A	"	18.5	18.8	18.8	up	

25-7	5	A	Ne 28 ^d	11.7	14.4	14.4	+16	
"	"	B	"	11.3	13.3	13.3	+10	
"	3	C	"	10.8	13.2	13.0	+50	

25-7	5	A	Ne 28 ^d	10.9	13.5	13.3	+20	
"	"	B	"	10.1	12.8	12.7	+14	up con (10")

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	4-5/VI/61	K		T.S.	T.U.	
2485	3A (4329)	103a-E	(18)	13:31 13:49	0:29 0:47	+2:36
2486	4 1/2 Cen (5231)	"	(1 ^m)	14:31 14:32	1:29 1:30	+0:40
2487	5 (5223)	"	(20)	14:46 15:06	1:44 2:04	+1:06
2488	6 1/2 Cen (5248)	"	(3)	15:48 15:51	2:46 2:49	+1:55
2489	7 1/2 Cen (5231)	"	(1 ^m)	16:02 16:03	3:00 3:01	+2:12
2490	8 (5595)	"	(12)	16:42 16:54	3:40 3:52	+1:49
2491	9 1/2 Cen (6084)	"	(1)	17:32 17:33	4:30 4:31	+1:15
2492	10 2 1/2 Cen (6141)	"	(7)	17:46 17:53	4:44 4:51	+1:23
2493	11 2 3/4 Cen (6165)	"	(1)	18:24 18:28	5:25 5:26	+1:57
2494	12 2 5/8 Cen (6165)	103a-F	(1)	18:35 18:36	5:33 5:34	+2:05
2495	13 2 3/4 Cen (6165)	"	(2)	18:44 18:46	5:42 5:44	+2:14

	12-13/VI/61	K		T.S.	T.U.	
2496	1 1/2 Cen (5249)	103a-E	(12)	14:33 14:45	0:59 1:11	+0:44
2497	2 1/2 Cen (5193)	"	(10)	15:02 15:12	1:28 1:38	+1:21
2498	3 (5206)	"	(60)	15:28 16:28	1:54 2:54	+2:10
2499	4 1/2 Cen (5264)	"	(22 ^s)	16:26 16:26:22	2:52 2:52:22	+2:26
2500	5 (5937)	"	(60 ^m)	16:44 17:44	3:10 4:10	+1:19
2501	6 6 1/2 Cen (5944)	"	(60 ^s)	18:18 18:19	4:44 4:45	+2:24
	7 7 1/2 Cen (5948)	"	(2 ^m)	18:34 18:36	5:00 5:02	+2:30
	8 7 5/8 Cen (5953)	"	(40 ^s)		5:29	+3:07

	13-14/VI/61	K		T.S.	T.U.	
2502	1 (3753)	103a-E	(20)	12:53 13:13	23:15 23:35	+3:38
2503	2 1/2 Cen (4730)	"	(15 ^s)	13:34 13:34:15	0:01 0:01:15	+1:15
2504	3 1/2 Cen (4731)	"	(25 ^s)	13:46 13:46:25	0:08 0:08:25	+1:22

25-7	5	C	Ne 28 ¹	9.1	11.6	11.4	+30
"	"	A	"	8.6	10.8	10.8	+1
"	"	B	"	8.5	10.6	10.4	+30 e
"	"	C	"	8.0	9.8	9.8	+2
"	"	A	"	7.5	9.6	9.6	
"	"	A	"	7.5	9.2	9.0	+10 up. com exp. (36 ^m)
"	"	B	"	7.6	8.8	8.8	
"	"	C	"	7.5	8.7	8.7	+6
"	"	A	"	7.2	8.4	8.4	
"	"	B	Ne 60 ¹	7.2	8.4	8.4	
"	"	C	"	7.2	8.3	8.3	

25-7	5	A	Ne 28 ¹	5.0	6.8	6.8	+8
"	"	B	"	4.8	6.6	6.5	+4 e
"	"	C	"	4.4	6.3	6.1	-14
"	"	A	"	4.2	5.6	5.6	
"	"	B	"	3.9	5.6	5.4	+20 n 6678
"	"	C	"	3.4	4.6	4.6	
"	"	A	"	3.3	4.6	4.6	
"	"	B	"	3.3	4.3	4.3	+40 ¹

25-7	5	A	Ne 28 ¹	5.4	7.0	6.9	+4
"	"	B	"	4.7	6.7	6.7	+4
"	"	C	"	4.7	6.5	6.5	

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		13-14/VI/61	"	T. J.	T. U.		
2505	4	(4729)	103a-E (20)	14:15	14:50:38	0:58	+2:03
2506	5	(4732)	" (18)	15:00	15:18	1:23	1:41 +2:47
2507	6	3 Cen (5210)	" (12)	15:45	15:57	2:08	2:20 +2:04
2508	7	5p Sco (5928)	" (16)	16:40	16:46	3:03	3:09 +0:50
2509	8	η Lup (5948)	" (3)	18:03	18:06	3:26	3:29 +1:10
2510	9	(5967)	" (16)	18:19	18:35	3:42	3:58 +1:28
2511	10	28 Sco (5953)	" <small>need. 1961</small> (1)	19:10	19:11	4:33	4:34 +2:14
2512	11	μ^1 Sco (6247)	" <small>need. 1961</small> (2)	20:02	20:04	5:25	5:27 +2:16
2513	12	μ^2 Sco (6247)	103a-F (2)	20:13	20:15	5:36	5:38 +2:27
2514	13	μ^2 Sco (6252)	" (3)	20:25	20:20	5:48	5:51 +2:39

		16-17/VII/61	K	T. J.	T. U.		
2515	1	2 Cen (4897)	103a-E (14)	13:48	14:02	23:59	0:13 +1:05
2516	2	μ Cen (4898)	" (8)	14:18	14:26	0:29	0:37 +1:32
2517	3	(4899)	" (26)	14:31	14:57	0:42	1:08 +1:54
2518	4	ν Cen (5190)	" (8)	15:20	15:28	1:31	1:39 +1:39
2519	5	(5217)	" (56)	15:44	16:40	1:55	2:51 +2:23
2520	6	ν Cen (5190)	" (16)	17:06	17:12	3:17	3:23 +3:24
2521	7	78 Sco (5953)	" (1)	17:26	17:27	3:37	3:38 +1:30
2522	8	48 Lib (5941)	" (12)	17:54	18:06	4:05	4:17 +2:06
2523	9	(5934)	" (40)	18:19	18:50	4:30	5:10 +2:46
2524	10	(6334)	" (14)	19:21	19:35	5:32	5:46 +2:28
2525	11	κ Sco (6580)	" (1)	19:49	19:50	6:00	6:01 +2:12

25-7	5	A de 28 ^o	4.4	6.2	6.2	+4
"	"	B "	4.0	5.9	5.7	+2
"	"	C "	3.6	5.3	5.3	
"	"	A "	3.5	5.0	5.0	206166 o 68
"	"	B "	3.4	4.7	4.7	
"	"	C "	3.2	4.5	4.5	+2 206074
"	"	A "	3.0	4.2	4.2	Exp. con una plasa vieja
"	"	B "	2.5	3.8	3.8	
"	"	C "	2.4	3.4	3.2	
"	"	A "	2.3	3.6	3.6	

25-7	5	A de 28 ^o	7.8	9.4	9.4	+4
"	"	B "	7.5	9.2	9.2	+2
"	"	C "	7.3	9.1	9.0	+8 e
"	"	A "	7.2	8.8	8.8	+2 suficiente 6 ^{mm}
"	"	B "	6.8	8.7	8.4	+12
"	"	C "	6.8	8.0	8.0	
"	"	A "	6.9	8.0	8.0	
"	"	B "	6.9	8.0	8.0	e + e
"	"	C "	6.9	7.8	7.8	
"	"	A "	6.9	7.7	7.7	e
"	"	B "	6.8	7.7	7.7	

102	7-8/VII/61	K.		T. S.	T. U.
2526	1 (5211) 3 Cen	103a-E	(30)	15:48 16:78	0:36 1:06 +2:15
2527	2 SCr (5664)	"	(8)	16:48 16:56	1:36 1:44 +1:40
2528	3 (5668)	"	(34)	17:16 17:50	2:04 2:38 +1:22
2529	4 (6389)	"	(22)	18:12 18:34	3:00 3:22 +1:15
2530	5 (6440)	"	(20)	18:51 19:11	3:39 3:59 +1:43
2531	6 2 Ara (6451)	"	(13)	19:36 19:49	4:24 4:37 +2:25
2532	7 42 Oph (6453)	"	(1)	20:16 20:17	5:04 5:05 +2:59
2533	8 γ Ara (6462)	"	(1)	20:40 20:41	5:28 5:29 +3:21
	9 34 S Sco (6508)	"	(40 ^s)	21:12 21:12:46	6:00 6:40 +3:46
	10 21 And (15)	"	(30 ^s)	22:10 22:10:30	6:58 6:58:30 -1:54

	8-9/VII/61	K.		T. S.	T. U.
1	47 Lib (5915)	103a-E	(22)	16:45 17:07	1:29 1:57 +1:05

falla nome en la tabla

	13-14/VII/61	K.		T. S.	T. U.
2534	1 (4940)	103a-E	(8)	14:22 14:30	22:46 22:54 +1:23
2535	2 β Crn (4853)	"	(9 ^s)	14:43 14:43:23	23:07 23:07:09 +1:59
2536	3 (5020)	"	(30)	14:57 15:27	23:21 23:51 +1:54
2537	4 μ Cen (5193)	"	(2)	15:54 15:56	0:18 0:20 +2:10
2538	5 7 X Oph (6118)	"	(26)	16:52 17:18	1:16 1:42 +0:42

	14-15/VII/61	K.		T. S.	T. U.
2539	1 (5488)	103a-E	(30)	16:03 16:32	0:23 0:53 +1:42
2540	2 9 W' Sco (5993)	"	(3)	17:19 17:22	1:39 1:42 +1:17
2541	3 7 X Oph (6118)	"	(18)	17:36 17:54	1:56 2:14 +1:22

25-7	5	A	№28 ^Δ	5	7.5	7.3	+8
"	"	B	"	5	6.8	6.7	
"	"	C	"	4.5	6.6	6.5	
"	"	A	"	4.1	5.9	5.7	
"	"	B	"	3.9	5.6	5.4	
"	"	C	"	3.6	5.0	5.0	e
"	"	A	"	3.4	4.7	4.7	rayada, rep.
"	"	B	"	3.2	4.5	4.5	
"	"	C	"	3.2	4.3	4.3	
a=18 l=0	"	A	"	2.9	3.7	3.7	

Jelo

25-7	5	A	№28 ^Δ	4.4	6.0	6.0	
"	"	B					

25-7	5	A	№28 ^Δ	10	11.1	11.1	
"	"	B	"	9.5	11.0	11.0	
"	"	C	№35 ^Δ	9.1	10.8	10.7	+10
"	"	A	"	8.6	10.5	10.5	+1
"	"	B	"	8.0	9.9	9.8	

25-7	5	A	№35 ^Δ	8.6	9.9	9.8	+6
"	"	B	"	8.0	9.5	9.5	
"	"	C	"	8.0	9.4	9.4	

104	15-16/VII/61	K		T.S.	T.U.			
2542	4 Eln (5132)	103a-E	(30)	16:04	16:04, 50:20	0:20, 5	+2:28	
2543	5 (5151)	"	(35)	16:44	17:14	1:00	1:30	+8:20
2544	6 (6188)	"	(20)	17:48	18:08	2:04	2:24	+1:21
2545	7 NGL 6475 (n=26)	"	(26)	19:07	19:33	3:23	3:49	+1:32
2546	8 "	"	(50)	19:41	20:31	3:57	4:47	+2:18
	9 (7709)	"	(36)					

	20-21/VIII/61	H				Comienzo
1	μ Sco	IIa-0			22:54 - 23:54	+0:09
	21-22/VIII/61	H				Comienzo
2547	1 μ Sco	IIa-0			22:31 - 23:46	

	21-22/VIII/61	K		T.S.	T.U.			
2548	1 (6875)	103a-E	(12)	19:22	19:34	1:21	1:33	+1:13

	25-26/VIII/61	K		T.S.	T.U.			
2549	1 ε Sco (6262)	102a-E	(7)	18:14	18:21	23:58	0:05	+1:34
2550	2 θ Ara (6743)	"	(2)	20:34		2:07	2:09	+2:33

	30-31/VIII/61	K		T.S.	T.U.			
2551	1 20 Aql (7279)	103a-E	(11)	19:52	20:03	1:11	1:22	+0:49
2552	2 (7247)	"	(38)	20:19	20:57	1:38	2:16	+1:20
2553	3 39 α Aql (7446)	"	(7)	21:20	21:24	2:38	2:45	+1:50

25-7	5	A	Ne 35 ¹	9.7	11.4	11.4	
"	"	B	"	9.5	11.2	11.0	+8
"	"	C	"	9.1	10.7	10.6	+2
"	"	A	"	8.5	10.1	10.1	HR 6647 = HD 162374
12-7	"	B	Ne 70 ³	8.4	10.0	9.8	
25-7	"	C					velo

Audio Rays
6 - minimum

1

18⁰⁷

Audio Rays
8 - minimum

2

18⁰⁷C₂₀; F = 28.5

25-7 4-2 B Ne 35³ 16.2 17.7 17.5 +6 velo

25-7 5 B Ne 35³ 12.7 14.8 14.8 e.

21 " " C " 11.3 13.2 13.2

25-7 5 B Ne 35³ 12.0 13.7 13.7

" " C " 11.6 13.4 13.2 +6

" " B " 11.2 13.0 13.0

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30-31/VIII/61 K

T.S.

T.U.

2554	4	412 Aqf (7447)	103a-E	(4)	21:49	21:53	3:07	3:11	+2:17,5
2555	5	(7709)	u	(36)	22:07	22:43	3:25	4:01	+2:17

3-4/IX/61 K

T.S.

T.U.

2556	1	8p 100 (5984)	103a-E	(1 ^m)	18:10	18:11	23:14	23:15	+2:10
2557	2	8p 100 (5985)	u	(8)	18:20	18:28	23:24	23:32	+2:24
2558	3	Q Lap (5987)	u	(4)	18:52	18:56	23:56	00:00	+2:52
2559	4	(6143)	u	(4)	19:15	19:19	0:19	0:23	+2:52
2560	5	34 N Sco (6508)	u	(1 ^m)	20:45	20:46	1:49	1:50	+3:19
2561	6	(7119)	u	(9)	21:08	21:17	2:12	2:21	+2:23
2562	7	340 Sgr (7121)	u	(36 ^A)	21:41	21:41,5	2:45	2:45,5	+2:51
2563	8	(7129)	u	(13)	22:08	22:31	3:22	3:35	+3:34
2564	9	[21x And (15)]	u	(5)	23:47	23:52	4:51	4:56	-0:15
2565	10	[21x And (15)]	u	(5)	1:07	1:12	6:11	6:16	+1:06

4-14/IX-61 H

1 μ , Sco II a 0

23:06

4-5/IX/61 K

T.S.

T.U.

2566	1	(7121) 0 Sgr	103a-E	(30 ^A)	19:50	19:50,5	0:50	0:50,5	+0:54
2567	2	(7129)	u	(13)	20:11	20:24	1:11	1:24	+1:26
2568	3	(7516)	u	(38)	21:26	22:04	2:26	3:04	+2:04
2569	4	(8408)	u	(20)	22:36	22:56	3:36	3:56	+0:47
2570	5	(8439) 35 ^{AT}	u	(18)	23:49	0:07	4:49	5:07	+1:54
2571	6	21x And (15)	II a 0	(15)	1:22	1:37	6:22	6:37	+1:26
2572	7	21x And (15)	u	(22)	2:02	2:24	7:02	7:24	+2:10

25-7	5	C de 35 ¹	11.1	12.6	12.6	NR 7447
"	"	B "	10.9	12.3	12.1	+15 velo

25-7	5	B de 35	14.7	15.9	15.9	
"	"	C "	14.4	15.8	15.8	
"	"	B "	13.7	15.5	15.5	
"	"	C "	13.3	15.2	15.2	
"	"	B "	12.2	14.0	14.0	
"	"	C "	11.9	13.8	13.8	
"	"	B "	11.0	12.3	12.3	
"	"	C "	10.8	12.5	12.5	+10
12-0	"	B "	10.0	11.4	11.4	
"	"	C "	9.4	10.6	10.6	+1

8 - minimo	"			17.0		
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25-7	5	B de 35 ¹	12.5	15.2	15.2	
"	"	C "	12.3	14.8	14.8	
"	"	B "	11.4	13.6	13.6	+10
"	"	C "	10.9	12.7	12.7	sum exp. 10 e
"	"	B "	10.1	11.8	11.8	" "
18-5	"	1 Fe 4 ³	9.5	10.8	10.8	F _C = 28,5
"	"	1 "	9.0	10.4	10.4	+6

5.6 Sept - 2.

h

2573 xci IIa-0 65m 1:05c [1:34m] +5:32m

		8-9/IX/61	K		T.S.	T.U.	
2574	1	(6929)	103a-E	(30)	19:40	20:10	0:23 0:53 +1:29
2575	2	(6946)	"	(18)	20:44	21:02	1:27 1:45 +2:25
2576	3	(7623)	0'Sy	(4)	21:21	21:25	2:04 2:08 +1:27
2577	4	(7593)	"	(17)	22:18	22:35	3:01 3:18 +2:35
5			103a-F	(14)			

		9-10/IX/61	K		T.S.	T.U.	
2578	1	(6672)	103a-E	(27)	19:50	20:17	0:30 0:57 +2:13
2579	2	(6929)	"	(40)	20:40	21:20	1:20 2:00 +2:35
2580	3	(7593)	"	(20)	21:51	22:11	2:31 2:51 +2:10
2581	4	21 x And	(15) 103a-F	(16)	22:58	23:14	3:38 3:54 -0:58

		14-15/IX/61	K		T.S.	T.U.	
2582	1	(6453)	00ph 103a-E	(15)	20:22	20:21	0:42 0:43 +3:05
2583	2	8 x Cap (7773)	"	(8)	21:05	21:13	1:24 1:32 +0:52
2584	3	(7814)	"	(16)	21:28	21:44	1:47 2:03 +1:12
2585	4	(7950)	"	(3)	21:57	22:00	2:16 2:19 +1:15
2586	5	(8135)	"	(10)	22:13	22:23	2:32 2:42 +1:04
2587	6	(8132)	"	(16)	22:31	22:47	2:50 3:06 +1:25
2588	7	(8353)	"	(2)	23:19	23:21	3:38 3:40 +1:30
2589	8	(8576)	"	(6)	23:26	23:42	3:55 4:01 +1:12
2590	9	(9087)	"	(12)	0:45	0:57	5:04 5:16 +0:53
2591	10	(9098)	"	(8)	1:10	1:18	5:29 5:37 +1:15

		Esp. C				
18-5	5	Fe 40	14.5	12.6		nubló a los 60 m
25-7	5	B Ne 35 ^Δ	11.3	13.2	13.0	+10 (rev. pec)
"	"	C "	10.9	12.5	12.4	+2
"	"	B "	10.6	12.1	12.1	
"	"	C "	10.4	11.5	11.5	+10
25-7	5	B Ne 35 ^Δ	11.8	14.0	14.0	+10
"	"	C "	11.1	13.5	13.2	+10 (rev. pec) for cards in 103a-F
"	"	B "	10.8	12.5	12.5	+10
12-0	"	C Ne 40 Fe 35 ^Δ	10.7	11.8	11.8	+10
25-7	5	B Ne 35 ^Δ	12.4	14.8	14.8	
"	"	C "	11.8	14.3	14.2	+6 HR 7773
"	"	B "	11.4	13.8	13.6	+6
"	"	C "	11.1	13.5	13.5	
"	"	B "	10.9	13.2	13.1	+2
"	"	C "	10.9	12.8	12.8	+6
"	"	B "	10.4	12.2	12.2	
"	"	C "	10.2	12.0	12.0	
"	"	B "	9.5	11.1	11.1	+2
"	"	C "	9.5	10.8	10.8	

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17-18/IX/61

K.

T. S.

T. U.

2592	1	(6510)	103a-E	(46)	19:44	19:45	23:50	23:51	+2:18
2593	2	(6819)	"	(14)	20:05	20:19	0:11	0:25	+1:59
2594	3	(6839)	"	(34)	20:42	21:16	0:48	1:22	+2:43
2595	4	(7257)	"	(20)	21:45	22:05	1:51	2:11	+2:48
2596	5	(8408)	"	(20)	23:01	23:21	3:07	3:27	+1:09
	6	(8439)		(18)					

18-19/IX/61

K.

T. S.

T. U.

2597	1	(8097)	103a-E	(10)	21:48	21:58	1:51	2:01	+0:46
2598	2	(8305)	"	(6)	22:16	22:22	2:19	2:25	+0:38
2599	3	[21 x And (15)]	103a-F	(20)	23:11	23:31	3:14	3:34	-0:44
2600	4	[(15)]	"	(22)	23:40	0:02	3:43	4:05	-0:14
2601	(5)	[(15)]	IIa-0	(30)	1:45	2:15	5:48	6:18	+1:56

28-29/IX/61

K

T. S.

T. U.

2602	1	(7166)	103a-E	(12)	20:06	20:18	23:30	23:48	+1:16
2603	2	(7249)	"	(12)	20:37	20:49	0:01	0:13	+1:39
2604	3	(7316)	"	(16)	21:17	21:33	0:41	0:57	+2:10
2605	4	(7355)	"	(20)	22:12	22:32	1:36	1:56	+3:02
2606	5	(8439)	"	(17)	23:11	23:28	2:35	2:52	+1:15
2607	6	[8911]	"	(10)	0:00	0:10	3:23	3:33	+1:41
2608	7	[8937]	"	(6)	0:49	0:55	4:12	4:18	+1:23
2609	8	[9031]	"	(14)	1:44	1:58	5:07	5:21	+2:03

29-30/IX/61

K

T. S.

T. U.

2610	1	[8919]	103a-E	(20)	23:44	0:04	3:03	3:23	+0:29
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25-7	5	B $\text{Ne } 35^1$	12.9	15.4	15.4	e	
"	"	C "	12.5	15.0	15.0	+2	\square
"	"	B "	11.9	14.5	14.2	+18	
"	"	C "	11.8	13.5	13.4	+8	
"	"	B "	11.4	12.9	12.9	+10+10	\square
25-7	5	B $\text{Ne } 35^1$	14.0	15.6	15.6	+4	P.A.F.
"	"	C "	13.8	15.3	15.3		"
"	"	B $\text{Ne } 40^1$ $\text{Fe } 3^1$	13.5	14.8	14.8		"
"	"	C "	13.5	14.6	14.6		"
18-5	"	1 $\text{Fe } 4^0$	13.3	14.2	14.2	$F_c = 28.5$	+10 "
25-7	5	B $\text{Ne } 35^1$	12.8	14.4	14.4	+4	
"	"	C "	12.1	13.9	13.8	+4	e
"	"	B "	10.6	13.0	13.0	+6	
"	"	C "	10.6	12.3	12.3	+10	
"	"	B "	10.2	11.7	11.7	+8	
"	"	C "	10.0	11.2	11.2	+4	
"	"	B "	10.0	10.8	10.8	+2	
"	"	C "	9.9	10.4	10.4	+6	
25-7	5	B $\text{Ne } 35^1$	13.6	14.4	14.4	+18	

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				T.S.	T.U.	
2611	2	29-30/ <u>IX</u> /61	K			
		[8949]	103a-E (10)	0:34 0:44	3:53 4:03	+1:07
		1-2/ <u>X</u> /61	K	T.S.	T.U.	
2612	1	[7575]	103a-E (30)	21:20 21:50	0:32 1:02	+1:50
2613	2	[8151]	" (10)	22:33 22:43	1:45 1:55	+1:21
2614	3	[8180]	" (48)	23:13 0:01	2:25 3:13	+2:16
		6-7/ <u>XI</u> /61	K.	$\sigma = 40 \frac{\text{kg}}{\text{mm}^2}$	$F_c = 25,5$	
	1		103a-E			
	2		T-N	Ensayo de las placas inferiores		
	3		"			
	4		"			
				T.S.	T.U.	
2615	5	Ø Eri (897)	" (10)	2:07 2:17	2:53 3:03	-0:45
2616	6	α Ceti (911)	" (30)	2:38 3:08	3:24 3:54	-0:07
2617	7	Ø Eri (897)	" (16)	4:35 4:51	5:21 5:37	+1:48
		22-23/ <u>II</u> /62	K.	$\sigma = 40 \frac{\text{kg}}{\text{mm}^2}$	$F_c = 25,5$	
2618	1	33 ^o Eri (1213)	103a-E (16)	6:43 6:59	0:26 0:42	+3:00
2619	2	46 ^o Eri (1903)	" (14 ⁴)	7:21 7:21:14	1:04 1:04:14	+1:48
2620	3	(2619)	" (18)	7:41 7:59	1:24 1:42	+0:55
2621	4	(2640)	" (36)	8:12 8:48	1:55 2:31	+1:32
2622	5	(2704)	" (36)	9:08 9:44	2:51 3:27	+2:19
2623	6	(3237)	" (12)	9:56 10:08	3:39 3:51	+1:52
2624	7	(3924)	" (44)	10:29 11:13	4:12 4:56	+1:01
2625	8	(3935)	" (72)	11:31 12:43	5:14 6:26	+2:14

25-7 5 C Wc 35° 13.4 14.2 14.2 +2

25-7 5 C Wc 35° 18.0 19.7 19.7 +30
 " " B " 17.3 19.2 19.2 +6
 " " B " 17.0 18.7 18.7 +36

25-7 C Wc 35° Rev. 0-19; $\psi = 21^\circ$; $t = 5^m$
 " B Wc 35° " " "
 " B Wc 90° " " "
 " C Wc 3^m " " "
 " 5 B Wc 2,5° 18.7 20.5 20.5
 " " C " 18.4 20.0 20.0 +10
 " " C " 17.8 19.0 19.0 +2

25-7 5 B Wc 35° 21.5 23.7 23.5
 " " C " 21.3 23.2 23.2
 " " B " 21.1 22.9 22.8
 " " C " 20.9 22.5 22.2
 " " B " 20.2 21.8 21.6
 " " C " 19.9 21.3 21.1 e
 " " B " 19.2 20.8 20.5
 " " C " 18.9 20.0 19.7

114	24-25/II/62 K			T. S	T. U.
2626	1	1480 Ori (1931)	103a-E	(3)	6:08 6:11 23:43 23:46 +0:34
2627	2	(1942)	"	(70)	6:27 7:37 0:02 1:12 +1:25
2628	3	26 CMa (2718)	"	(38)	7:57 8:35 1:32 2:10 +1:07
2629	4	(2726)	"	(46)	8:49 9:35 2:24 3:10 +2:02
2630	5	(3037)	"	(18)	10:03 10:21 3:38 3:56 +2:27.5
2631	6	(3055)	"	(6)	10:30 10:36 4:05 4:11 +2:47
2632	7	(3326)	"	(20)	10:55 11:15 4:30 4:50 +2:42
2633	8	(4206)	"	(60)	11:31 12:31 5:06 6:06 +1:23
2634	9	(4389)	"	(72)	12:55 14:07 6:30 7:42 +2:15
2635	10	π Cen (4390)	"	(8)	14:21 14:29 7:56 8:04 +3:08

	25-26/II/62 K,			T. S	T. U.
2636	1	(2825)	103a-E	(18)	7:50 8:08 1:21 1:39 +0:37
2637	2	(2856)	"	(44)	8:28 9:12 1:59 2:43 +1:26
2638	3	(3001)	"	(76)	9:50 11:06 3:21 4:37 +2:47
2639	4	(4129)	"	(76)	11:30 12:46 5:01 6:17 +1:42
2640	5	(4648)	"	(40)	13:09 13:49 6:40 7:20 +1:20
2641	6	(5063)	"	(64)	14:17 15:21 7:48 8:52 +1:27

	26-27/II/62 K			T. S	T. U.
2642	1	(2787)	103a-E	(10)	8:32 8:42 2:00 2:10 +1:23
2643	2	(2800)	"	(36)	8:54 9:30 2:22 2:58 +1:55

	1-2/III/62 K.			T. S.	T. U.
2644	1	α Col (1956)	103a-E	(60)	6:49 6:50 0:05 0:06 +1:13

25-7	5	B Ne 35 ³	21.2	22.8	22.8
"	"	C "	20.0	22.4	21.9
"	"	B "	19.0	21.2	20.7
"	"	C "	18.1	20.3	19.9
"	"	B "	17.6	19.3	19.2
"	"	C "	17.3	18.9	18.9
"	"	B "	17.0	18.6	18.4
"	"	C "	16.7	17.9	17.6
"	"	B "	15.9	17.0	16.5
"	"	C "	15.4	16.1	16.1

superexpuesta

superexpuesta,

25-7	5	B Ne 35 ³	19.5	21.9	21.7	e
"	"	C "	19.0	21.2	20.8	
"	"	B "	18.1	20.0	19.6	
"	"	C "	17.9	18.9	18.5	
"	"	B "	17.4	18.2	18.0	
"	"	C "	17.2	17.7	17.5	

25-7	5	B Ne 35 ³	19.5	21.4	21.2	e
"	"	C "	19.4	21.0	20.7	

25-7	5	B Ne 35 ³	23.1	25.0	25.0	e superexpuesta: debe exponer 20° 0' 30".
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		1-2 / III / 62	K.	T. S.	T. U.
2645	2	(2695)	103a-E (74)	7:14 8:28	0:30 1:44 +0:46
2646	3	(2734)	" (38)	8:43 9:21	1:59 2:37 +1:52
2647	4	(2743)	" (64)	9:36 10:40	2:52 3:56 +2:58
		2-3 / III / 62	K.	T. S.	T. U.
2648	5	(2745)	103a-E (12)	7:47 7:59	0:58 1:10 +0:41
x 2649	6	(2749)	" (3)	8:07 8:10	1:18 1:21 +0:56
2650	7	(2769)	" (36)	8:47 9:23	1:58 2:34 +1:51
	8	(2771)	" (7)	11:29	3:00 4:40
		7-8 / III / 62	K.	T. S.	T. U.
2651	1	x Col (1956)	103a-E (20)	6:54 6:54.5	23:46 23:46.5 +1:17
2652	2	(2756)	" (22)	7:17 7:39	0:09 0:31 +0:16
x 2653	3	(2770)	" (16)	7:50 8:06	0:42 0:58 +0:44.5
	4	(2774)	" (70)	8:26 9:36	1:18 2:28 +1:48
2654	5	(2954)	" (36)	9:50 10:26	2:42 3:18 +2:33
2655	6	(3204)	" (18)	10:36 10:54	3:28 3:46 +2:39
2656	7	(3819)	" (18)	11:08 11:26	4:00 4:18 +1:46.5
2657	8	(3886)	" (30)	11:45 12:15	4:37 5:07 +2:17
2658	9	(4425)	" (64)	12:27 13:31	5:19 5:23 +1:35
		10-11 / III / 62	K.	T. S.	T. U.
2659	1	10 CMa (2492)	103a-E (18)	7:23 7:41	0:03 0:21 +0:50
2660	2	(2806)	" (60)	7:57 8:57	0:37 1:37 +1:08
2661	3	(2819)	" (26)	9:09 9:35	1:49 2:15 +2:02
2662	4	(2823)	" (26)	9:46 10:12	2:26 2:52 +2:39

25-7	5	C	Ne 35 ¹	22.4	24.7	24.3	
"	"	B	"	22.0	23.7	23.4	
"	"	C	"	21.8	23.2	22.8	
25-7	5	B	Ne 35 ⁰	22.8	25.2	25.1	e
"	"	C	"	22.7	24.9	24.9	e
"	"	B	"	22.2	24.3	24.0	
25-7	5	B	Ne 35 ¹	23.8	25.9	25.9	e
"	"	C	"	23.1	25.5	25.3	
"	"	B	"	22.8	25.0	24.8	
"	"	C	"	22.5	24.0	23.6	
"	"	B	"	22.2	23.1	22.8	
"	"	C	"	22.1	22.7	22.6	
"	"	B	"	22.1	22.4	22.3	
"	"	C	"	22.1	22.1	22.0	
"	"	B	"	21.9	21.9	21.7	
25-7	5	B	Ne 35	21.2	23.6	23.4	e
"	"	C	"	20.5	22.8	22.4	Casi no hay L _H
"	"	B	"	20.1	21.8	21.5	e
"	"	C	"	19.7	21.2	21.0	

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		10-11/III/62	K.	T.S.	T.U.	
2663	5	(3089)	103a-E (13)	10:24 10:37	3:04 3:17	+2:40
2664	6	(3090)	" (8)	10:47 10:55	3:22 3:35	+3:01
2665	7	(3457)	" (8)	11:17 11:25	3:52 4:05	+2:43
2666	8	(3462)	" (24)	11:35 11:59	4:15 4:39	+3:08
2667	9	(4140)	" (3)	12:08 12:11	4:48 4:51	+1:41.5
	10	(4403)	" (72)	13:06 14:18	5:46 6:58	+2:31
		(5...)	" (30)			

		12-13/III/62	K.	T.S.	T.U.	
2668	1	(3330)	102a-E (18)	9:29 9:47	2:01 2:19	+1:15
2669	2	(3415)	" (23)	9:57 10:20	2:29 2:52	+1:36
2670	3	(3442)	" (24)	10:34 10:58	3:06 3:30	+2:09
2671	4	(3447)	" (3)	11:06 11:09	3:38 3:41	+2:30
2672	5	(3448)	" (36)	11:18 11:54	3:50 4:26	+2:59
2673	6	(4422)	" (36)	12:09 12:45	4:41 5:17	+0:55

		14-15/III/62	K.	T.S.	T.U.	
2674	1	(3206)	103a-E (12)	9:14 9:26	1:37 1:49	+1:12
2675	2	(3213)	" (23)	9:33 9:56	1:56 2:19	+1:36.5
2676	3	(3227)	" (42)	10:08 10:50	2:31 3:13	+2:20
2677	4	(3250)	" (48)	11:17 12:05	3:40 4:28	+3:29
2678	5	(4390)	" (8)	12:19 12:27	4:42 4:50	+1:05
2679	6	(4403)	" (72)	12:43 13:55	5:06 6:18	+1:58
	7	(4800)	" (54)			

		15-16/III/62	K.	T.S.	T.U.	
2680	7	(2774)	103a-E (70)	7:25 8:35	23:45 0:55	+0:45

25-7	5	B	№ 35 ^Δ	19.7	20.7	20.6	
"	"	C	"	19.6	20.5	20.5	
"	"	B	"	19.5	20.1	20.1	
"	"	C	"	19.4	20.0	19.8	
"	"	B	"	19.2	19.6	19.6	e
"	"	B	"	19.3	19.2	18.9	+10

25-7	5	B	№ 35 ^Δ	19.6	20.7	20.6	(Hay lin de e. № 6507)?
"	"	C	"	19.6	20.4	20.3	
"	"	B	"	19.6	20.1	20.0	+3
"	"	C	"	19.6	20.0	20.0	
"	"	B	"	19.6	19.8	19.6	Hay una lin de 226300A
"	"	C	"	19.5	19.5	19.5	+10

25-7	5	B	№ 35 ^Δ	21.6	23.1	23.0	
"	"	C	"	21.5	22.9	22.8	
"	3	B	"	21.3	22.5	22.4	+10
"	5	C	"	21.0	21.9	21.7	
"	"	B	"	20.8	21.6	21.6	Hay exp. 4 ^m
"	"	C	"	20.6	21.3	21.1	-17

25-7	5	B	№ 35 ^Δ	21.5	24.0	23.7	23.5
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120	15-16/III/62	K	T.S.	T.V.
2681	8	(2819)	103a-E (26)	8:55 9:21 1:15 1:41 +1:48
2682	9	(2847)	" (58)	9:30 10:28 1:50 2:48 +2:36
2683	10	(3035)	" (17)	10:42 10:59 3:02 3:19 +3:06
2684	11	(3084)	" (10)	11:09 11:19 3:29 3:39 +3:24,5
2685	12	(3466)	" (17)	11:44 12:01 4:04 4:21 +3:13
2686	13	(4415)	" (28)	13:09 13:37 5:29 5:57 +2:00,5
2687	14	(4590)	" (20)	13:47 14:07 6:07 6:27 +2:00
2688	15	(5056)	" (5 ^a)	14:19 6:39 +0:58

16-17/III/62 K. T.S. ~~T.V.~~
 1 (3467) 103a-E (17)

J-J	19-20/III/62			
2689	1	α Cma	I-N (20 ^s)	10:20 10:28 20 HR 2491
2690	2	μ Cen	(25 ^m)	11:10 11:35 5193
2691	3	δ Cen	(20 ^m)	11 ^h 47 - 12 ^h 07 4621
2692	4	δ Cru	(20 ^m)	12 ^h 19 - 12 ^h 39 4656

J-J	20-21/III/62			
2036	1	205 G Car	I-N (25 ^m)	12 ^h 47 ^m - 13 ^h 17 4140
1.6 BI	2	α Cru (2)	(4 ^m)	13 ^h 26 - 13 ^h 30 ^m 4730
1.5 BI	3	β Cru (3)	ϵ CMK (5 ^m)	13 ^h 39 ^m - 13 ^h 45 ^m 4853
J-J-C.	21/II			8 ^h 16
1.6 BI	2696	ϵ Cma		8 ^h 16 - 8 ^h 20 ^m 2618
3.2 B5p	2697	θ^2 Cma 2653		8 ^h 34 - 8 ^h 54 ^m 2653

25-7	5	C	Ne 35 ²	21.3	22.9	22.7	
"	"	B	"	21.1	22.4	22.1	
"	"	C	"	21.2	21.8	21.7	
"	"	B	"	21.2	21.7	21.7	
"	"	C	"	21.2	21.5	21.3	+ 23 (139)
"	"	B	"	20.9	21.1	21.0	
"	"	C	"	20.7	20.9	20.9	
"	"	B	"	20.6	20.8	20.8	Hev exp. 10 ⁵ ,

25-7 5 B
T.U.

25-7 2 24 25:24:20 Ne 180⁵
" 3 14 3 39 "
" 3 51 4 11 "
" 4 23 4 43 "

id 4 47 5 12 id
5 21 5 25
5 35 5 40
0 12 0 26
0 30 0 50

Ne intermedium for velocity

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21-22/III/62

Universal

HR

Exposic.

5.8 B3 2692 W Ma 2749 9:07 9:40 30^m3.6 B3 2699 X Car 3117 9:55 10:20 25^m~~3.7 B3 0 Vel 3447 28^m~~J² + C²

T.U.

2000

22/23 marzo

4.4 B5 2700	y Vel	8:34 - 9:34	0:37 - 1:27	HR 2106	60 ^m
3.8 B2 2711	K C Ma	2538 9:50 - 10:25	1:14 - 2:19	HR 2538	35
2.4 B5 p 2702	γ C Ma ³	10:33 - 10:45	2:26 - 2:38	HR 2827	12 ^m
3.7 B3 2703	0 Vel	10:57 - 11:24	2:50 - 3:17	3447	27 ^m
2.6 B3 2704	K Vel	11:34 - 11:49	3:26 - 3:42	3734	15 ^m
3.6 B8 2705	AW Car	3 11:58 - 12:28	3:55 - 4:25	4037	30 ^m

23-24/III/62

J² + C²

IN

1.7 B2 2705	β Ori	8:17 - 8:25	00:09 23:57 - 0:16	HR 1790	7 ^m
2.0 B1 2706	β C Ma	8:57 - 8:59	0:40 - 0:48	2294	8 ^m
4.4 B5 2707	α C Ma (ista)	9:13 - 10:13	1:02 - 2:02	2596	60 ^m
2.3 B3 2708	γ Pup	10:28 - 10:40	2:17 - 2:29	3165	12
4.2 B3 2709	γ Car	10:55 - 11:40	2:44 - 3:30	3663	45 ^m
3.0 B0 6 2710	α Car	11:53 - 12:11	3:43 - 4:05	4199	18 ^m

24-25

25-7

T.V.
MOB 1 36
Dop.

Ne 180°

 $I = 1R$

Cap. tapa para el m. antiguo
 Peligro se detuvo, se rompió cable
 — arreglo al día siguiente.

Imágenes muy nubladas y grandes
 $\phi = 1, 2R$ HU 2705A

$\phi = 0,9R$ Imágenes buenas HU 2705 B

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28-29/III/62 K				T. S.	T. V.			
2711	1	(4022)	103a-E (54)	11:39	12:33	8:07	4:01	+1:55
2712	2	(4644)	" (54)	13:16	14:10	4:44	5:38	+1:34

29-30/III/62 K				T. S.	T. V.			
2713	3	(2855)	103a-E (25)	7:57	8:22	23:22	23:47	+0:45.5
2714	4	(2873)	" (36)	8:32	9:08	23:57	0:33	+1:24
2715	5	(2897)	" (64)	9:28	10:32	0:53	1:57	+2:30
2716	6	(4022)	" (54)	11:25	12:19	2:50	3:44	+1:42

30-31/III/62 K.				T. S.	T. V.			
2717	7	(2921)	103a-E (30)	8:13	8:43	23:34	0:04	+0:55
2718	8	(2928)	" (30)	8:53	9:23	0:14	0:44	+1:35
2719	9	0 Pup (3034)	" (10)	9:31	9:41	0:52	1:02	+1:51
2720	10	(3135)	" (56)	9:52	10:48	1:13	2:09	+2:23
2721	11	(3955)	" (80)	11:10	12:30	2:31	3:51	+1:52
2722	12	(4653)	" (66)	13:02	14:08	4:23	5:29	+1:25
2723	13	5 Chm (4679)	" (8)	14:17	14:25	5:38	5:46	+2:07

2-3/IV/62 K.				T. S.	T. V.			
2724	1	(3004)	103a-E (26)	8:30	8:56	23:38	0:04	+1:00
2725	2	(3016)	" (70)	9:17	10:27	0:25	1:35	+2:09
2726	3	(3020)	" (57)	10:34	11:31	1:42	2:39	+3:19
2727	4	(3568)	" (66)	11:46	12:52	2:54	4:00	+3:26
2728	5	(4389)	" (72)	13:23	14:35	4:31	5:43	+2:42
2729	6	(5030)	" (76)	14:58	16:14	6:06	7:22	+2:17
2730	7	(5915)	47 lib u (44)	16:32	17:16	7:40	8:24	+1:03

25-7	5	B	№ 35 ¹	21.7	23.3	23.0	
"	"	C	"	21.2	22.3	22.0	

25-7	5	B	№ 35 ¹	25.2	27.9	27.7	e
"	"	C	"	24.3	27.4	27.1	
"	"	B	"	23.6	26.2	25.8	+20
"	"	C	"	22.8	24.6	24.3	

25-7	5	B	№ 35 ¹	24.8	27.2	27.0	e
"	"	C	"	24.3	26.5	26.3	
"	"	B	"	24.0	26.1	26.0	e
"	"	C	"	23.8	25.7	25.4	+10 e
"	"	B	"	24.1	25.0	24.8	
"	"	C	"	24.0	24.5	24.4	
"	"	B	"	23.9	24.4	24.4	

25-7	5	B	№ 35	16.7	18.5	18.3	
"	"	C	"	15.0	17.7	17.3	
"	"	B	"	14.3	16.2	15.9	
"	"	C	"	14.0	15.3	14.9	
"	"	B	"	13.0	13.8	13.5	
"	"	C	"	12.5	12.8	12.5	
"	"	B	"	12.2	12.1	12.0	

126	3-4/17/62	K.	T.S.	T.U.
2731	1 (3023)	103a-E (40)	9:55 10:35	11:00 11:40 +2:31
	9-10/17/62	K.	T.S.	T.U.
2732	1 16Pup (3192)	103a-E (8)	9:11 9:19	23:53 0:01 +1:10
2733	2 (3195)	" (68)	9:29 10:37	0:11 1:19 +1:58
2734	3 (3219)	" (57)	10:50 11:47	1:32 2:29 +3:11
2735	4 (4038)	" (54)	12:34 13:28	3:16 4:10 +2:50
2736	5 (4406)	" (32)	13:41 14:13	4:23 4:55 +2:37
2737	6 (4830)	" (42)	14:24 15:06	5:06 5:48 +2:07.5
2738	7 (5036)	" (48)	15:18 16:06	6:00 6:48 +2:25
2739	8 (5684)	" (78)	16:18 17:36	7:00 8:18 +1:43
	9 (6397)	" (26)	17:49 18:15	8:31 8:57 +0:53
	10-11/17/62	K.	T.S.	T.U.
2740	1 (3058)	103a-E (44)	9:11 9:55	23:49 0:33 +1:47
2741	2 (3074)	" (68)	10:05 11:13	0:43 1:51 +2:51
2742	3 (3525)	" (48)	11:33 12:21	2:11 2:59 +3:10
2743	4 (3654)	" (15)	12:33 12:48	3:11 3:26 +3:33
2744	5 (4390) ♂ Cen	" (8)	13:00 13:08	3:38 3:46 +1:47
2745	6 ♀ Cen (4638)	" (6)	13:17 13:23	3:55 4:01 +1:13
2746	A ♂ Cen (4743)	" (6)	13:37 13:43	4:15 4:21 +1:17
2747	B (4806)	" (72)	13:59 15:11	4:37 5:49 +2:01
2748	K (5661)	" (40)	15:42 16:22	6:20 7:00 +0:52

25-7 4 B Wc 35¹ 16.3 18.1 17.9

25-7 5 B Wc 35¹ 16.9 18.3 18.9

" " C " 16.7 18.1 17.8 (e)

" " B " 16.1 17.4 17.1

" " C " 15.9 16.7 16.4

" " B " 15.7 16.1 16.0

" " C " 15.7 16.0 15.9 e

" " B " 15.5 15.8 15.7 (e?)

" " C " 15.3 15.5 15.5

" " B " 15.3 15.4 15.3

25-7 5 B Wc 35¹ 18.9 20.2 20.0

" " C " 18.3 20.0 19.6

" " B " 18.0 19.3 19.0

" " C " 17.6 18.8 18.8

" " B " 17.5 18.7 18.7

" " C " 17.4 18.6 18.6

" " B " 17.3 18.5 18.5 HR 4743

" " C " 17.1 18.1 17.9 +10 Rep. can 60m

" " B " 16.9 17.6 17.6

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11-12/IV/62 K.				T. S.	T. U.			
2749	1	(3088)	103a-E (36)	8:59	9:35	23:32	0:08	+1:26
2750	2	(3091)	" (24)	9:47	10:11	0:20	0:44	+2:07
2751	3	(3107)	" (64)	10:24	11:28	0:57	2:01	+3:02
2752	4	(3456)	" (20)	11:39	11:59	2:12	2:32	+3:09.5
2753	5	(3672)	" (46)	12:09	12:55	2:42	3:28	+3:20.5
2754	6	γ Mus (4773)	" (6)	13:24	13:30	3:57	4:03	+0:59
2755	7	α Mus (4798)	" (1)	13:41	13:42	4:14	4:15	+1:09
2756	8	(4848)	" (14)	14:03	14:17	4:36	4:50	+1:27.5
2757	9	κ Cen (4890)	" (54)	14:31	15:25	5:04	5:58	+2:08
2758	10	(5026)	" (32)	15:41	16:13	6:14	6:46	+2:40.5
2759	11	(5839) ψ^2 Lup	(14)	16:42	16:56	7:15	7:29	+1:11
2760	12	(6131)	" (14)	17:07	17:21	7:40	7:54	+0:49

13-14/IV/62 K.				T. S.	T. U.			
2761	1	(3118)	103a-E (52)	8:48	9:40	23:14	0:06	+1:19.5
2762	2	(3129)	" (10)	9:48	9:58	0:14	0:24	+1:58
2763	3	(3137)	" (48)	10:05	10:53	0:31	1:19	+2:33

15-16/IV/62 K.				T. S.	T. U.			
2764	1	(3142)	103a-E (70)	9:16	10:26	23:35	0:45	+1:55
2765	2	(3498)	" (10)	11:06	11:16	1:25	1:35	+2:28
2766	3	(3527)	" (13)	11:26	11:39	1:45	1:58	+2:46
2767	4	(3582)	" (16)	11:54	12:10	2:13	2:29	+3:09
2768	5	(3642)	" (14)	12:21	12:35	2:40	2:54	+3:26
2769	6	(4890) κ Cen	" (40)	12:54	13:34	3:13	3:53	+0:26

25-7	4	B	w/35 ^Δ	18.8	20.6	20.5	
"	5	C	"	18.4	20.2	20.1	
"	"	B	"	18.0	19.8	19.4	
"	"	C	"	17.8	19.1	19.0	Rep. con 10 ^m
"	"	B	"	17.6	18.9	18.6	
"	"	C	"	17.3	18.2	18.2	
"	"	B	"	17.3	18.2	18.2	
"	"	C	"	17.2	18.0	18.0	
"	"	B	"	17.1	17.9	17.7	Rep. con 40 ^m
"	"	C	"	16.8	17.5	17.4	
"	"	B	"	16.6	17.1	17.1	
"	"	C	"	16.5	17.0	17.0	e (ausplazada)
25-7	4	B	w/35 ^Δ	17.0	19.2	18.9	
"	5	C	"	16.9	18.5	18.5	
"	"	B	"	16.6	18.2	18.0	
25-7	5	B	w/35 ^Δ	16.2	18.1	17.7	
"	"	C	"	15.6	17.0	17.0	e
"	"	B	"	15.5	16.9	16.8	
"	"	C	"	15.3	16.4	16.3	
"	"	B	"	15.1	16.2	16.1	e
"	"	C	"	14.8	16.0	15.8	e! Rep. con 20 ^m -30 ^m

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16-17/IV/62 K				T.S.	T.V.	
2770	7	(3179)	103a-E (62)	8:55 9:57	23:09 0:11	+1:23,5
2771	8	(3186)	" (70)	10:34 11:44	0:48 1:58	+3:07
2772	9	(3629)	" (62)	11:56 12:58	2:10 3:12	+3:24
2773	10	(4808)	" (60)	13:21 14:21	3:35 4:35	+1:17
2774	11	(5056)	" (15)	14:38 14:38:15	4:52 4:52:15	+1:17

17-18/IV/62 K.				T.S.	T.V.	
2775	1	(3456)	103a-E (10)	11:00 11:10	1:12 1:22	+2:28
2776	2	(3466)	" (17)	11:23 11:40	1:35 1:52	+2:54
2777	3	(3467)	" (17)	12:02 12:19	2:14 2:31	+3:33
2778	4	(3476)	" (18)	12:29 12:47	2:41 2:59	+3:59
2779	5	(4018)	" (70)	13:00 14:10	3:12 4:22	+3:27
2780	6	(4890) KC ⁵⁰	" (20)	14:29 14:49	4:41 5:01	+1:52

23-24/IV/62 K.				T.S.	T.V.	
2781	1	(3283)	103a-E (18)	9:46 10:04	23:33 23:51	+1:37
2782	2	(3293)	" (50)	10:12 11:02	23:59 0:49	+2:19
2783	3	(3375)	" (80)	11:18 12:38	1:05 2:25	+3:31
2784	4	110m (4390)	" (4)	13:08 13:12	2:55 2:59	+1:54
2785	5a	(5027)	" (56)	13:28 14:24	3:15 4:11	+0:40
2786	6a	(5034)	" (80)	14:36 15:56	4:23 5:43	+1:59
2787	7	(5035)	" (12)	16:02 16:14	5:49 6:01	+2:51

25-26/IV/62 K				T.S.	T.V.	
2788	1	(3186)	103a-E (50)	9:56 10:46	23:34 0:24	+2:18

25-7	5	B	$\sqrt{c} 35^{\Delta}$	15.7	18.0	17.7	
"	"	C	"	14.6	16.8	16.4	e? Rep. com 50 ^m
"	"	B	"	14.3	15.7	15.4	
"	"	C	"	13.8	14.8	14.6	
"	"	B	"	13.4	14.4	14.4	Rep. com 30 ³

25-7	5	B	$\sqrt{c} 35^{\Delta}$	16.5	17.4	17.4	
"	"	C	"	16.5	17.3	17.3	
"	"	B	"	16.4	17.1	17.1	
"	"	C	"	16.3	17.1	17.1	
"	"	B	"	16.1	16.8	16.7	e
"	"	C	"	16.0	16.4	16.4	e?

25-7	5	B	$\sqrt{c} 35^{\Delta}$	14.3	16.1	16.0	
"	"	C	"	13.6	15.7	15.4	
"	2	B	"	13.4	14.8	14.4	
"	4	C	"	12.8	13.8	13.8	
"	5	B	"	12.4	13.5	13.3	e
"	"	C	"	12.2	13.0	12.6	
"	"	B	"	11.6	12.3	12.2	

25-7	5	B	$\sqrt{c} 35^{\Delta}$	13.5	15.7	15.4	e?
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25-26/IV/62 K.			T.S.	T.U.		
2789	2	(3194)	103a-E (26)	11:02 11:28	0:40 1:06	+3:08
2790	3	(3239)	" (52)	11:39 12:31	1:17 2:09	+3:54
2791	4	(3878)	" (72)	12:42 13:54	2:20 3:32	+3:36
2792	5	(5036)	" (40)	14:23 15:03	4:01 4:41	+1:25
2793	6	(5056)	67 ^W " (30)	15:14 15:14,5	4:52 4:52,5	+1:52

26-27/IV/62 K.			T.S.	T.U.		
2794	7	(3949)	103a-E (72)	12:16 13:28	1:51 3:03	+2:58,5
2795	8	(4206)	" (40)	13:42 14:22	3:17 3:57	+3:24
2796	9	(5281)	" (70)	14:42 15:52	4:17 5:27	+1:16
2797	10	(5292)	" (74)	16:00 17:14	5:35 6:49	+2:34
2798	11	(6175)	" (1)	17:28 17:29	7:03 7:04	+0:57

27-28/IV/62 K.			T.S.	T.U.		
2799	1	(3322)	103a-E (58)	9:47 10:45	23:17 0:15	+1:54
2800	2	(3356)	" (40)	10:58 11:38	0:28 1:08	+2:51
2801	3	(3593)	" (52)	11:47 12:39	1:17 2:09	+3:15
2802	4	(3858)	" (12)	12:53 13:05	2:23 2:35	+3:21
2803	5	(3946)	" (58)	13:20 14:18	3:50 4:48	+3:53

28-29/IV/62 K.			T.S.	T.U.		
2804	6	(3388)	103a-E (66)	9:14 10:20	22:42 23:48	+1:18
2805	7	(3453)	" (57)	10:31 11:28	23:59 0:56	+2:23
2806	8	(3490)	" (68)	11:47 12:55	1:15 2:23	+3:39

25-7 5 C We 35³ 12.8 14.8 14.7

" " " B " " 12.0 14.2 13.8

" " " C " " 11.0 12.9 12.5 +10 Subexperte

" " " B " " 10.2 11.6 11.3 Subexperte

" " " C " " 10.2 11.1 11.1

25-7 5 B We 35¹ 11.3 13.2 12.8

" " " C " " 10.6 12.1 11.9

" " " B " " 10.0 11.4 11.0

" " " C " " 9.5 10.4 10.1

" " " B " " 9.2 9.7 9.7

25-7 5 B We 35³ 12.6 16.5 16.1

" " " C " " 12.1 15.2 14.9 [e]

" " " B " " 11.2 14.3 13.8 [e]

" " " C " " 10.7 13.3 13.2 e

" " " B " " 10.8 12.7 12.4 [e]

25-7 5 B We 35³ 14.2 15.8 15.6

" " " C " " 13.6 15.3 15.0

" " " B " " 13.4 14.7 14.5 +6

30/√-1/√/62 K.

T. S.

T. V.

2807	1	(3539)	103a-E	(50)	10:08	10:58	23:26	0:16	+1:42.5	
2808	2	(3560)	"	(44)	11:02	11:46	0:20	1:04	+2:32	
2809	3	(3562)	"	(64)	11:57	13:01	1:15	2:19	+3:36	
2810	4	(4009)	"	(52)	13:22	14:14	2:40	3:32	+3:39	
2811	5	(5036)	"	(50)	14:33	15:23	3:51	4:41	+1:40	
2812	6	(5285)	cen	"	(10)	15:47	15:57	5:05	5:15	+1:50
2813	7	(5730)	K'Aps	"	(32)	16:18	16:50	5:36	6:08	+1:09

2-3/√/62 K.

T. S.

T. V.

2814	8	(3147)	103a-E	(38)	9:52	10:30	23:03	23:41	+2:15
2815	9	(3600)	"	(29)	10:42	11:11	23:53	0:22	+1:58.5
2816	10	(3658)	"	(40)	11:19	11:59	0:30	1:10	+2:31
2817	11	(3878)	"	(72)	12:15	13:27	1:26	2:38	+3:09.5
2818	12	(5316)	"	(19)	14:46	15:05	3:57	4:16	+0:46
2819	13	(5320)	"	(36)	15:18	15:54	4:29	5:05	+1:25

3-4/√/62 K.

T. S.

T. V.

2820	1	(3691)	103a-E	(50)	10:17	11:07	23:25	0:15	+1:31
2821	2	(3943)	"	(74)	11:16	12:30	0:24	1:38	+2:00
2822	3	(3944)	"	(64)	12:54	13:58	2:02	3:06	+3:34
2823	4	(5358)	"	(10)	15:01	15:11	4:09	4:19	+0:52
2824	5	(5375)	"	(62)	15:23	16:25	4:31	5:33	+1:37.5

4-5/√/62 K.

T. S.

T. V.

2825	6	(2468)	103a-E	(46)	10:32	11:18	23:34	0:20	+3:17
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25-7	5	B	№35 ^Δ	15.9	17.9	17.7	Hay defecto de la placa
"	"	C	"	15.6	17.4	17.1	
"	"	B	"	15.3	16.9	16.6	
"	"	C	"	15.1	16.2	16.1	e
"	"	B	"	14.8	15.8	15.7	
"	"	C	"	14.6	15.5	15.4	
"	"	B	"	14.4	15.3	15.1	e

25-7	5	B	№35 ^Δ	14.6	16.6	16.4	e
"	"	C	"	13.7	16.0	15.8	
"	"	B	"	13.1	15.4	15.1	
"	"	C	"	12.4	14.5	13.7	+16
"	"	B	"	11.7	12.7	12.6	e
"	"	C	"	11.4	12.4	12.2	

25-7	5	B	№35 ^Δ	14.4	15.6	15.5	
"	"	C	"	13.6	15.1	14.8	+8
"	"	B	"	11.8	14.1	13.7	+6
"	"	C	"	11.2	12.4	12.4	
"	"	B	"	10.6	12.1	11.7	

25-7	5	C	№35 ^Δ	16.0	17.7	17.5	+10 e
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11-12/VII/62 Y.; Gl.; Sch.; K.

Ensayo de la cámara Meinel: (103a-0)

	1	Zunka	10 seg.	Superelemento
CM 1	2	K Cen	5 min	
CM 2	3	K Cen	5 min	
CM 3	4	η Cen	5 min	
CM 4	5	W Cen	10 min	

W Cen: 13^h 23^m; -47° 20'.30/VII-1/VIII/62 Y.; Gl.; K

Ensayo de la cámara Meinel: (103a-0)

CM 5	1	K Cen	1 min
CM 6	2	K Cen	1 min

11-12/VII/62 K.

T. S.

T. U.

Q = 40^h_{min}

HU 2826	1	(6524)	^{Sec} 103a-E (30 ^s)	18:15	18:55	2:49	2:49.5	+0:46
2827	2	(6524)	" (60 ^s)	18:23	18:24	3:57	2:58	+0:54
2828	3	(6960)	" (33)	19:46	20:19	4:19	4:52	+1:32

12-13/VII/62 K.

T. S.

T. U.

2829	4	(5378)	103a-E (20)	14:42	15:02	23:12	23:32	+0:32
2830	5	(5395)	T'Lup " (20)	15:11	15:31	23:41	0:01	+0:58
2831	6	(5425)	σLup " (20)	15:41	16:01	0:11	0:31	+1:22
2832	7	(5453)	PLup " (14)	16:11	16:25	0:41	0:55	+1:43
2833	8	(5736)	" (18)	16:42	17:30	1:12	2:00	+1:42

$R_c = 25,5$

25-7 4 A de 35¹ 11,0 12,5 12,5

" " B " 10,9 12,4 12,4

42-11 5 C de 50¹ 10,3 11,8 11,7 +2 - e? hacer exposición de 38m.

25-7 5 A de 120¹ 10,2 12,1 11,9

" " B " 9,8 11,8 11,6

" " C " 9,6 11,3 11,1

" " A " 9,3 11,0 10,9

" " B " 8,9 10,6 10,3

12-13/vi/62 K			T.S.	T.V.		
2834	9	(6215)	103a-E (64)	17:42 18:46	2:12 3:16	+1:32
2835	10	(6219)	" (52)	18:58 19:50	3:28 4:20	+2:42
2836	11	(6804)	" (44)	20:06 20:50	4:36 5:20	+2:21
2837	12	(7623)	o'Sgr u (14)	21:16 21:30	5:46 6:00	+1:28

16-17/vii/62 K			T.S.	T.V.		
2838	1	(5469)	103a-E (140 ^d)	14:56.5	23:11 23:23	+0:20
2839	2	(5471)	" (10 ^m)	15:16 15:26	23:30 23:40	+0:42
2840	3	(5500)	" (80)	15:40 17:00	23:54 25:14	+1:36
2841	4	(6397)	" (60)	17:57 18:57	26:11 27:11	+1:16

17-18/viii/62 K			T.S.	T.V.		
2842	5	(5469)	o Lup 103a-E (140 ^d)	15:16 15:18.3	23:27 26:29.3	+0:40
2843	6	(5539)	" (90 ^m)	15:34 17:04	23:45 25:15	+1:30
2844	7	(6083)	" (50)	17:41 18:31	25:51 26:41	+1:48
2845	8	(6510)	< Ara u (3)	18:42 18:45	26:52 26:55	+1:16
2846	9	(6938)	o Tel u (50)	18:59 19:49	27:09 27:59	+0:56.5
2847	10	(7527)	" (150)	20:08 22:38	28:18 30:48	+1:38

18-19/viii/62 K			T.S.	T.V.		
2848	1	(5528)	o Lup 103a-E (20)	14:52 15:12	22:58 23:18	+0:14
2849	2	(5625)	" (100)	15:22 17:02	23:28 1:08	+1:07
2850	3	(6167)	" (130)	17:14 19:24	1:20 3:30	+1:45
	4	(6960)	" (44)	19:45 20:29	3:51 4:35	+1:37
	5	(7121)	" (80 ^d)	20:55	5:01 5:02:20	+2:05

25-7	5	C	Ne 120 ^Δ	8.8	10.1	9.4	+2
"	"	A	"	8.7	9.4	9.2	
"	"	B	"	8.5	9.0	8.8	
"	"	C	"	8.2	8.7	8.7	

25-7	5	A	Ne 120 ^Δ	6.3	7.3	7.3	
"	"	B	"	6.2	7.2	7.2	
"	"	C	"	5.6	7.0	6.6	+40
"	"	A	"	4.7	6.0	5.8	e

25-7	5	B	Ne 120 ^Δ	7.9	9.2	9.2	
"	"	C	"	7.4	9.0	8.8	+20
"	"	A	"	6.7	8.2	8.0	
"	"	B	"	6.5	7.9	7.9	e
"	"	C	"	6.4	7.7	7.6	
"	"	A	"	6.2	7.4	7.4	+20 e?

25-7	5	A	Ne 120 ^Δ	7.2	9.1	9.1	+2
"	"	B	"	6.2	8.7	8.5	
"	"	C	"	5.2	7.6	7.2	
"	"	A	"	5.0	6.7	6.5	
"	"	B	"	4.6	6.0	6.0	

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19-20/VII/62 K.

T.S.

T.U.

2851	6	(5885)	103a-E (24)	16:23	16:57	0:35	0:59	+0:57
2852	7	(5904)	" (24)	17:07	17:31	1:09	1:33	+1:28,5
2853	8	(5283)	" (130)	17:53	20:03	1:55	4:05	+2:05
2854	9	(6822)	" (40)	20:38	21:18	4:40	5:20	+2:46
2855	10	(7121)	" (2)	21:37	21:39	5:39	5:41	+2:47

22-23/VII/62 K.

T.S.

T.U.

2856	1	(5626)	103a-E (16)	15:33	15:49	23:24	24:40	+0:36,5
2857	2	(5651)	" (28)	15:57	16:25	23:48	0:16	+1:02
2858	3	(5695)	" (4)	16:31	16:35	0:22	0:26	+1:16
2859	4	(5704)	" (22)	16:47	17:09	0:38	1:00	+1:40
2860	5	(5708)	" (8)	17:17	17:25	1:08	1:16	+2:03
2861	6	(5712)	" (24)	17:40	18:04	1:31	1:55	+2:33
2862	7	(5776)	" (3)	18:08	18:11	1:59	2:02	+2:39
2863	8	(6716)	" (60)	18:53	19:53	2:44	3:44	+1:25,5
2864	9	(6960)	" (44)	20:12	20:56	4:03	4:47	+2:05

24-25/VIII/62 K.

T.S.

T.U.

2865	1	(5764)	103a-E (60)	16:20	17:20	0:03	1:03	+1:21
2866	2	(5780)	" (36)	17:43	18:19	1:26	2:02	+2:30
2867	3	(6772)	" (150)	18:42	21:12	2:25	4:55	+1:52,3

25-26/VIII/62 K.

T.S.

T.U.

2868	1	(5781)	103a-E (28)	16:10	16:38	23:50	0:18	+0:53
2869	2	(5781)	" (28)	16:43	17:11	0:23	0:51	+1:26

25-7	5	C We 120 ¹	5.9	7.4	7.2	
"	"	A "	5.6	7.0	6.9	
"	"	B "	5.1	6.4	6.2	+20 [e]
"	"	C "	4.5	5.6	5.3	+6
"	"	A "	4.4	5.1	5.1	

25-7	5	A We 120 ²	7.9	9.5	9.5	
"	"	B "	7.4	9.4	9.2	Mag defects on the place.
"	"	C "	7.1	9.0	9.0	
"	"	A "	6.9	8.8	8.7	
"	"	B "	6.8	8.6	8.6	
"	"	C "	6.7	8.3	8.2	
"	"	A "	6.6	8.0	8.0	
"	"	B "	5.9	7.4	7.3	
"	"	C "	5.5	7.0	6.8	[e]

25-7	5	A We 120 ³	5.2	7.0	6.7	+10
"	"	B "	4.8	6.2	6.0	+4
"	"	C "	4.1	5.5	5.2	20

25-7	5	A	5.7	6.3	6.2	
"	"	B We 120 ³	5.6	6.2	6.1	

142	1-2/VIII/62	K.	T. S.	T. U.
2870	1 (5651)	103a-E (28)	16:33 17:01	23:45 0:13 +1:39
2871	2 (5812)	" (8)	17:12 17:20	0:24 0:32 +1:42
2872	3 (5873)	" (80)	17:33 18:53	0:45 2:05 +2:27
2873	4 (6823)	" (88)	19:33 21:01	2:45 4:13 +2:07

	3-4/VIII/62	K.	T. S.	T. U.
2874	5 (5902)	103a-E (32)	16:15 16:47	23:19 23:51 +0:42
2875	6 (5906)	" (60)	17:02 18:02	0:06 1:06 +1:42,5
2876	7 (5907)	" (44)	18:30 19:14	1:34 2:18 +3:03

	5-6/VIII/62	K.	T. S.	T. U.
2877	1 (6028)	103a-E (24)	16:58 17:22	23:54 0:18 +1:02
2878	2 (6115)	" (24)	17:37 18:01	0:33 0:57 +1:27
2879	3 (6142)	" (50)	18:14 19:04	1:10 2:00 +2:12
2880	4 (6929)	" (120)	19:38 21:38	2:34 4:34 +2:13,5

	15-16/VIII/62	K.	T. S.	T. U.
2881	1 (6265)	103a-E (40)	17:36 18:16	23:53 0:33 +1:07
2882	2 (6261)	" (100)	18:36 20:16	0:53 2:33 +2:37

	16-17/VIII/62	K.	T. S.	T. U.
2883	3 (6263)	103a-E (90)	17:35 19:05	23:48 2:18 +1:31

	17-18/VIII/62	K.	T. S.	T. U.
2884	1 (5907)	103a-E (50)	17:29 18:19	23:38 0:28 +2:05

25-7	5	A	$\sqrt{e} 120^\Delta$	10.3	11.8	11.7	+6
"	"	B	"	10.1	11.7	11.6	
"	"	C	"	9.9	11.2	11.0	+20
"	"	A	"	9.5	10.5	10.3	+20

Hay una forma de empujarlos pero no ha.

25-7	5	B	$\sqrt{e} 120^\Delta$	14.5	15.0	15.0	+6
"	"	C	"	13.9	15.0	14.8	+20
"	"	A	"	13.8	14.7	14.6	+30

25-7	5	A	$\sqrt{e} 120^\Delta$	19.7	18.7	18.8	+2
"	"	B	"	19.0	19.0	19.1	+4
"	"	C	"	18.5	19.2	19.2	+20 e
"	"	A	"	18.3	19.2	19.2	+50 e

25-7	5	A	$\sqrt{e} 120^\Delta$	13.2	15.4	15.2	+10
"	"	B	"	12.4	14.7	14.4	+40

25-7	5	C	$\sqrt{e} 120^\Delta$	13.4	14.7	14.5	+40
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25-7	5	A	$\sqrt{e} 120^\Delta$	15.3	17.3	17.0	+30
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17-18/VIII/62 K.			T. S.	T. U.
2885	2	(6265) 103a-E (40)	19:06 19:46	1:15 1:55 +2:37
2886	3	(6823) " (100)	20:38 22:18	2:47 4:24 +3:18

18-19/VIII/62 K.			T. S.	T. U.
2887	4	(5910) 103a-E (120)	16:56 18:56	23:01 1:01 +2:06
	5	(5893) " (100)	17:52 19:52	3:11 4:37

20-21/VIII/62 K.			T. S.	T. U.
2888	5	(6155) 103a-E (40)	17:31 18:11	23:29 0:09 +1:23
2889	6	(6622) " (100)	18:35 20:15	0:33 2:13 +1:41

23-24/VIII/62 K.			T. S.	T. U.
2890	1	(6155) 103a-E (20)	16:48 17:08	22:34 22:54 +0:30
2891	2	(6164) " (60)	17:17 18:17	23:03 0:03 +1:16.5
2892	3	(6265) " (50)	18:27 19:17	0:13 1:03 +2:04
2893	4	(6848) " (130)	19:49 21:59	1:35 3:45 +2:41

24-25/VIII/62 K.			T. S.	T. U.
2894	5	(6261) 103a-E (120)	17:22 19:22	23:04 1:04 +1:34
	6	(6727) " (150)	19:28 21:58	1:10 3:40 +2:46

27-28/VIII/62 K.			T. S.	T. U.
2895	1	(6692) 103a-E (80)	18:17 19:37	23:48 1:08 +1:05
2896	2	(6762) " (90)	20:04 21:34	1:35 3:05 +2:48

25-7	+5	B	W _e 120°	13.8	16.1	15.9	+30
"	"	C	"	13.2	14.9	14.5	+30

25-7	-5	A	W _e 120°	9.3	11.6	11.1	+20 e?
"	"	B					

25-7	+5	C	W _e 120°	8.7	10.5	10.3	+10
"	"	A	"	8.0	9.7	9.4	+60

25-7	5b	A	W _e 120°	8.8	9.8	9.7	
"	"	B	"	8.1	9.5	9.4	-10 [e]
"	"	C	"	7.8	9.0	8.8	+20
"	"	A	"	7.1	8.3	7.8	+20

25-7	5b	B	W _e 120°	9.5	11.0	10.8	-20
"	"	C	"	9.0	10.2		-100

25-7	5b	A	W _e 120°	10.0	12.3	12.0	
"	"	B	"	8.8	10.9	10.6	

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29-30/VIII/62 K. T.S. T.V.
 HU 2897 3 (6265) 103a-E (160) 17:42 20:22 23:05 1:45 +2:14

1-2/IX/62 K. T.S. T.V.
 2898 1 (6261) 103a-E (60) 18:34 19:34 23:43 0:43 +2:14
 2899 2 (6727) " (150) 20:06 22:36 1:15 3:45 +3:22

4-5/IX/62 K. T.S. T.V.
 2900 3 (6621) 103a-E (90) 18:52 20:22 23:49 1:19 +1:53

8-9/IX/62 K. T.S. T.V.
 2901 1 (6260)[10] 103a-E (40) 18:22 19:02 23:03 23:43 +1:52
 2902 2 (6263)[11] " (90) 19:09 20:39 23:50 1:20 +3:04

11-12/IX/62 K. T.S. T.V.
 2903 3 (6535) " (60) 18:31 19:31 23:01 0:01 +1:31

12-13/IX/62 K. T.S. T.V. F=369
 2904 1 (6535) 103a-E (40) 18:27 19:07 22:53 23:33 +1:17
 2905 2 (6261)[8] " (60) 19:25 20:25 23:51 0:51 +3:06

13-14/IX/62 K. T.S. T.V.
 2906 3 (6535) 103a-E (40) 18:24 19:09 22:51 23:31 +1:18,5
 4 Enjugo I-N 1:08
 5 " " "

25-7 5 A We 120^Δ 8.5 10.9 10.6

25-7 5 A We 120^Δ 16.7 18.2 18.2 +10 [e]
 " " B " 16.4 17.9 17.7

25-7 5 C We 120^Δ 14.6 17.2 17.0 +20

25-7 5 A We 120^Δ 12.2 14.2 14.1
 " " B " 11.1 13.4 13.2 +10

25-7 2 C We 120^Δ 10.0 12.1 12.0

25-7 5 A We 120^Δ 11.3 12.7 12.6
 " " B " 11.1 12.2 12.0 +20 [e]

25-7 5 C We 120^Δ 13.3 14.5 14.5 e
 " " A We 180^Δ
 " " B We 6^m

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24-25/VI/63

K.

T. S

T. U.

1
2
3103a-F
"
"

Ensayo de las placas 103a-F

22/VIII/63

K

Ensayo con la muestra

1
2
3
4
5
6F = 25,5
= 24,5
= 23,5
= 22,5
= 21,5
= 20,5103a-E
"
"
"
"
"

20-21/XI/63

K.

T. S.

T. U.

1

5 Phe (338) 103a-D (68)

24-25/II/64

K

T. S.

T. U.

1
2
3
4— 103a-F
— 103a-E
x CMA (2491) 103a-F
" " 102a-F3^d 8:35 35:3 2:10 10:03
3^d 8:50 50:3 2:25 25:03

25-26/II/64

K

T. S.

T. U.

v 2907
v 2908
v 29091
2
3x CMA (2491) 103a-F
" " " "
" " " "15^A 8:35 8:35:15 2:05 2:05:15 +1:52
10^A 8:41 8:41:10 2:11 2:11:10 +1:58
5^A 9:25 9:25:05 2:55 2:55:05 +2:42

25-7

A \angle 30°

"

B \angle 120°

"

A \angle 40° \angle 40°

posiciones del portachasis.

25-7

A \angle 40°

"

C "

"

A "

"

C "

"

A "

"

C "

 $F = 23.0$

vea p. 63

16-5

1 \angle 4°

25-7

A \angle 120°

"

B "

"

5

A \angle 60°

24°

"

"

B "

24°

 $F_c = 25.5$

25-7

3

A \angle 40°

25°

"

4

B \angle 60°

"

"

5

C "

24.7

150		25-26/II/64 K.		T.S.	T.U.	A.h.m.
x 2910	4	(3498)	103a-F (12)	9:49 10:01	3:19 3:31	+1:11
		26-27/II/64 K.		T.S.	T.U.	
x 2911		(2815)	103a-F (40)	8:20 9:00	1:47 2:27	+1:23
		2-3/III/64 K.		T.S.	T.U.	A.P.m.
v 2912	1	(2224)	103a-F (58)	7:42 8:40	0:48 1:46	+2:00
		4-5/III/64 K.		T.S.	T.U.	
x 2913	1	(2180)	103a-F (16)	7:35 7:51	0:35 0:51	+1:37
x 2914	2	(3605) (AB)	" (18)	10:49 11:07	3:49 4:07	+1:59
x 2915	3	(4074)	" (6)	11:28 11:34	4:27 4:33	+1:12
x 2916	4	(4205)	" (8)	12:00 12:08	4:59 5:07	+1:22
x 2917	5	(4537)	" (5)	12:42 12:48	5:42 5:47	+0:58
x 2918	6	(4674)	" (10)	13:01 13:11	6:00 6:10	+0:50
		6-7/III/64 K.		T.S.	T.U.	
x 2919	1	(2182)	103a-F (35)	7:35 8:10	0:26 1:01	+1:45
x 2920	2	(3549)	" (28)	9:18 9:46	2:10 2:38	+0:42
		9-10/III/64 K.		T.S.	T.U.	
x 2921	1	(2181)	103a-F (16)	7:13 7:29	23:53 0:09	+1:16
x 2922	2	(2187)	" (36)	8:02 8:38	0:42 1:18	+2:14
x 2923	3	(2691)	" (26)	8:51 9:17	1:31 1:57	+2:00
x 2924	4	(2746)	103a-F (26)	9:33 9:59	2:12 2:38	+2:35

25-7	5	A de 60°	24.5	24.4	+ 2 ^m	e
25-7	4	^(N-E) Viento A de 60°	26.7	26.7	+ 4 ^m	Anunciado por el Viento
25-7	5	A de 60°	25.3	25.2	se nubló.	
25-7	5 d	A de 46°	21.7	21.7	+ 4 ^m	se nubló
"	" d, p	B de 40°	19.6	19.5	+ 8 ^m	
"	"	C "	19.0	19.0	+ 2 ^m	
"	5	A "	18.4	18.4		rep. 6 ^m
"	"	B "	17.7	17.6	e	rep. 4 ^m
"	4 d	C "	17.2	17.2	+ 2 ^m	rep. 9 ^m
25-7	3 d	A de 40°	18.8	18.7	+ 5 ^m	Viento rep.
"	"	B "	17.8	17.8	+ 8 ^m	se nubló
25-7	5 d	A de 40°	23.0	22.9	+ 1 ^m	132° 15'
"	"	B "	22.8	22.7	+ 3 ^m	
"	"	C "	22.6	22.5	+ 2 ^m + 3 ^m	
"	5	A de 60°	22.4	22.3	+ 2 ^m	

α Per20:22 | $-56^{\circ}53'$

18 45

1:37

20:22

16:50

13:37

20:22

17:32

21:50

11 10
24
10 46

13 45

10 46

2 03

57
32
25

11 13

13 45

10 48

-

18.5

2 41.5

2 40.5

13 45

11 11.5

2 20

13 40

11 07.5

2 41.5

al estado II a O

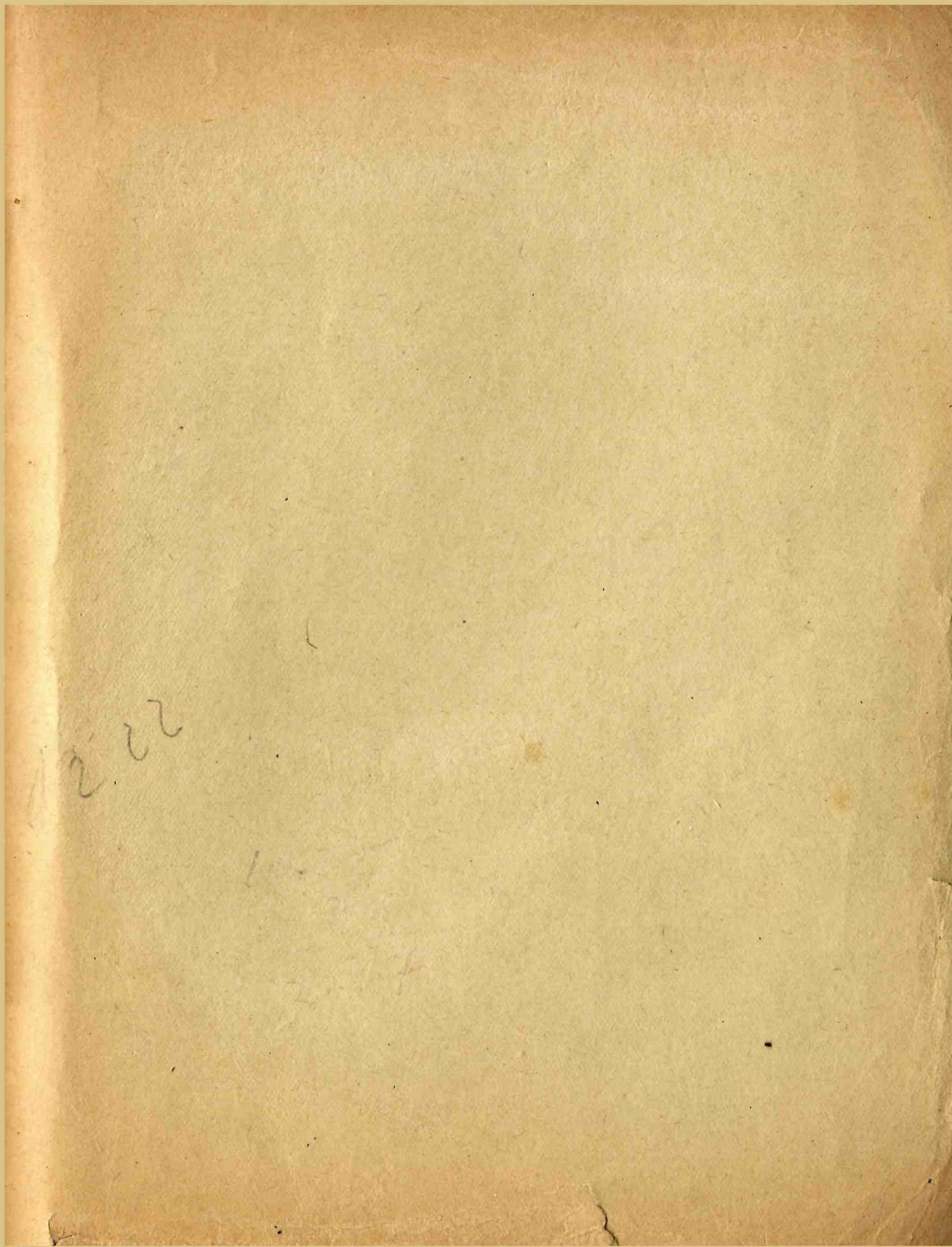
16:32

-10:32

7 70

5 23

2 47



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