

KG  
11366  
v. 737

STAR PLACES

1875.0













8 21 8



# Reduction of Argelanders zones for 1842.0 to 1875.0

$$m \text{ for } 1858.5 = 3.04192$$

$$n \quad " \quad " = 20.0558 = 1.33405$$

$$\frac{da}{dt} \text{ for } 1858.5 \text{ for } 1842 \text{ to } 1875 = 1^{\circ} 41' 37.3 + 44.123 \sin a \text{ long}$$

$$= 1^{\circ} 41' 37.3 + 1.64466 \sin a \text{ cos}$$

$$\frac{d\delta}{dt} \text{ for } 1842 \text{ to } 1875 = 66184 \cos a$$

$$= 282070 \cos a$$

33 da  $\frac{d\alpha}{dt}$  a 1842 . a 1875 Com da  $\frac{d\alpha}{dt}$  sec. band 33 da  $\frac{d\alpha}{dt}$  5 sec. band Sum a 1875  
 33 d  $\frac{d\alpha}{dt}$  a 1842 a 1875 or d  $\frac{d\alpha}{dt}$  sec. band 33 d  $\frac{d\alpha}{dt}$  sec. band Sum a 1875

+1<sup>m</sup> 41<sup>s</sup> 0 0 12.38 0 1 53

53 49 19.6

+1 41<sup>s</sup> 0 0 23.75 0 2 05 3.0871 +0388<sup>s</sup> +1 41.874<sup>s</sup> -194<sup>s</sup> +1 41.68 0 2 5.43  
 11<sup>"</sup> 2 50 31 25.7 50 42.4 20.053 -013<sup>"</sup> +11<sup>"</sup> 1.75 +.06 +11 1.81 50 42 27.5

0.0 3.167

52.56 2.8

1 42 0 1 40.84 3 23 3.0963 .0388 1 42.179 -194 1 41.98 3 22.82  
 11 2 50 32 37.5 50 33.6 20.052 -.074 11 172 +.07 11 1.79 50 43 39.3

1 54.46

49 55 37.7

2 39.5

51 22 30.1

2 21.45

51 26 16.1

1 41.7 2 38.75 0 4 17 3.1025 .0388 1 42.383 -194 1 42.189 4 17.34  
 11<sup>"</sup> 2 50 17 57.1 50 28.9 20.051 .017 11 1.69 +.08 11 1.77 50 28 58.9

2 44.78

51 33 50.3

1 42.2 3 40.93 0 5 22 3.1096 .0388 1 42.617 -193 1 42.424 5 22.85  
 11<sup>"</sup> 2 49 52 23.7 50 03.4 20.049 .019 11 1.62 +.09 11 1.71 50 3 25.4

1 42.1 4 38.9 5 46 3.1137 .0386 1 42.752 -193 1 42.539 5 46.45  
 11<sup>"</sup> 2 49 45 20 49 56.1 20.048 .021 11 1.59 +.10 11 1.68 49 56 37

4 32.26

51 29 59.9

4 23.73

51 3 27.0

1 42.4 4 38.4 6 41 3 12.06 +0390 1 42.987 -195 1 42.787 6 41.63  
 11 2 50 27 12.1 51 5 2 20.046 -022 11 1.52 +.11 11 1.63 51 8 13.7

5 47.27

51 25 34.8



33  $\frac{dw}{dt}$  a 1842 a 1875 cond  $\frac{dw}{dt}$  second 33  $\frac{dw}{dt}$  second sum a 1875  
 33  $\frac{dw}{dt}$  s 1842 s 1875 con.  $\frac{dw}{dt}$  second 33  $\frac{dw}{dt}$  s second sum s 1875

1 42.7 0 26 23.98 0 8 06 3.1305 .040 +1 43.307 -200 1 43.11 0 8 7.09  
 11 2 50 44 16.7 50 55.3 20.041 -024" +11' 1.35 +.11" 11 15 50 55 18.2

1 42.7 6 28.36 0 8 11 3.1316 .040 1 43.343 -200 1 43.14 8 11.50  
 11 2" 50 43 6.1 50 54.1 20.041 .024 +1 43.343 .12 11 15 50 54 7.6

6 30.78  
 54 6 3.5

7 24.1  
 54 8 59.8

7 11.78  
 51 9 28.3

7 12.40  
 51 9 26.1

7 49.35  
 54 59 23.1

8 53.58  
 54 6 11.6

1 43.4 9 22.46 0 11 06 3.1535 .041 1 43.995 -205 1 43.75 11 6.21  
 11 1" 50 33 17.4 50 44.3 20.030 -.030 11 1.00 +.15 11 1.1 50 44 14.5

9 22.95  
 51 9 18.2

9 56.68  
 51 32 11.7

10 14.38  
 52 2 56.4

10 33.76  
 51 17 42.2

10 39.86  
 52 25 12.9

10 68.74  
 52 8 33.8



$93 \frac{da}{dt}$  a1842 . a1845 on da a1845 33da 52.2.0 sum a1845  
 $33 \frac{da}{dt}$  S1842 S1845 corda " " 33da 58.2.0 " S1845

1 44.0 11 17.48

11 2 51 0 44.4

11 47.53

52 25.97

12 17.44

52 14 48.7

12 56.02

52 16 34.3

12 56.16

52 14 35.1

14 7.81

52 12 33.6

14 19.96

52 18 54.8

14 43.12

54 54 54.0

1 44.7 14 50.22 0 16 35 3.1895 +.0486 +1 45.254 - .208 1 45.05 0 16 35.24

11 2 50 19 3.8 50 30 6 20.001 -.041 11 0.03 +.20 11 0.2 50 30 4.0

14 53.08

54 55 30.3

15 24.77

17 10 3.1956 .0424

1 45.405 - 2.12

1 45.24

17 10.71

1 44.5 50.346 19.0

50 57 21 19.993 -.043

10 59.77 +.21

11 00.0

50 57 19.0

15 30.47

52 17 9.0

15 43.70

52 56 54.7

15 47.11

51 8 39.2

1 44.9 15 49.15

52 21 17.8



$33 \frac{da}{dt}$  a1842. a1875  $ca \frac{da}{dt}$  s2. w  $33 \frac{da}{dt}$  s.s.2. a Sam a1875  
 $33 \frac{dy}{dt}$  s1842 s1875  $cor. \frac{dy}{dt}$  " s  $33 \frac{dy}{dt}$  s.s.2. s " s1875

1 449 0 15 50.25

11 0 54 42 16.2

0 15 59.01

52 24 37.2

16 20.80

51 0 56.8

16 266.6

52 59 52.7

1 452 16 44.78

18 35 3.2054 0426

1 45.779 -212 1 45.59

18 35.37

11 45.2 50 41 41.0

50 52 41 19.988 -045

10 59.61 +22 10 59.8 50 52 40.8

17 8.81

54 7 5.2

17 266.4

54 50 18.1

17 32.23

54 36 55.8

55 17 53.6

53 38 18.2

18 186.6

53 57 44.1

1 45.8 19 9.57

20 55 3.2215 0430

1 46.309 -210 1 46.10

20 55.67

10 45.8 50 35 21.6

50 46 21 19.971 051

10 59.05 +26 10 59.3 50 46 20.9

19 218.7

50 2 26.1

19 286.5

54 22 14.8

20 286.4

53 56 47.4

1 46.1 20 303.9

10 59 52 26 52.2



33 da 1142. 1175 corda 5.2. a 33 da 5.2. a sum 1175  
 33 da 1142 1175 corda 11 33 da 5.2. a sum 1175  
 0 1 41.0 20 52.3  
 10 59.52 30 89.5

21 02.9  
 52 9 28.4

22 53.63  
 52 12 23.3

23 41.0  
 51 57 59.1

23 28.46  
 52 7 42.9

1 41.8 23 52.80 25 40 3.2568 .0448 1 47.474 -221 1 47.25 25 40.05  
 10 58.50 51 19.3 51 02 17 19.929 -.061 10 57.66 +31 10 58.0 51 02 17.3

1 47.0 24 21.63 26 07 3.2671 .0445 1 47.616 -222 1 47.39 26 9.02  
 10 47.8 50 58 51.1 51 07 49 19.924 .062 10 57.49 +31 10 57.8 51 9 48.9

24 26.44  
 51 49 19.7

1 47.0 24 33.52 26 21 3.2656 .0444 1 47.765 .222 1 47.54 26 21.46  
 10 47.8 50 47 44.8 50 58 43 19.923 .0442 .062 10 57.46 31 10 57.8 50 58 42.6

25 28.2  
 51 47 27.8

25 86.0  
 51 59 35.5

1 47.2 25 55.89 27 43 3.2696 .0442 1 47.898 .222 1 47.68 27 43.5  
 10 47.2 50 34 46.2 50 45 43 19.908 .065 10 56.9 32 10 57.3 50 45 43.5

1 47.5 26 18.13 28 06 3.2743 .0448 1 48.052 .224 1 47.88 28 59.6  
 10 57.5 50 49 57.4 51 00 48 19.904 .065 10 56.94 .32 10 57.2 51 0 48.6

1 47.5 26 32.23 28 20 3.2770 .0450 1 48.141 -.225 1 47.92 28 20.15  
 10 57 50 58 20.3 51 09 17 19.901 .065 10 56.74 .32 10 57.1 51 9 17.4

1 47.6 27 05.4  
 10 57 54 50 7.8



33 da	airr.	airr	enda	S.2. a	33 da	S.2. a	Sum	airr
33 da	airr	airr	enda	S.2. a	33 da	S.2. a	Sum	airr
0 29 47.0	27 977	0 29 07	3.2813	.0449	1 48.83	-.225	1 48.06	0 28 57.53
10 57 50	47 30	50 58 00	19.8912	.070	10 56.44	+.35	10 56.8	50 57 59.6
1 477	27 3232	29 20	3.2836	.0451	1 48.389	.226	1 48.13	29 20.45
10 59 50	54 135	51 05 10	19.891	.070	10 56.40	.35	10 56.8	51 05 10.3

28 1354  
54 20 497

28 9231  
54 21 177

28 4483  
51 22 45.6

28 5631  
51 6 40.8

29 525  
54 25 495

29 926  
51 6 577

1 484	29 1414	31 05	3.2918	.0445	1 48.630	.222	1 48.85	31 6.99
10 56 50	21 38.4	00 32 34	19.870	.073	10 55.71	.36	10 56.1	30 32 34.5
1 48.9	29 2403	31 12	3.2936	.0449	1 48.689	.225	1 48.46	31 12.99
10 56 50	35 16.6	50 46 13	19.875	.073	10 55.88	.36	10 56.2	50 46 12.8

29 2626  
57 28 395

1 484	29 4080	31 29	3.2950	.0447	1 48.735	.222	1 48.51	31 29.31
10 50 50	28 58.6	50 34 55	19.865	.074	10 55.55	.37	10 55.9	50 34 54.5
1 481	29 5858	31 48	3.2981	.0449	1 48.838	.225	1 48.61	31 48.49
10 56 50	31 16.9	50 42 12	19.862	.075	10 55.54	.37	10 55.9	50 42 12.3

30 384  
51 45 529

1 482	30 583	31 57
10 56	53 50	274



33da dr	with 42	all 75	cm. da dr	s. 2. a	33da dr	s. 2. a	sum	all 75
33da dr	with 42	all 75	cm. da dr	s. 2. a	33da dr	s. 2. a	sum	all 75
1 482 0 30 22.51		0 32 11	3.2979	0446	1 48331	2.232	1 48600	32 11.11
10 56 50 9 29.4		50 20 25	19.867	.075	10 5561	+ .37	10 56.0 50 20	25.4
1 483 30 23.21		32 12	3.3016	.0452	1 48953	226	1 48.73	32 11.94
10 56 50 35 31.2		50 46 27	19.867	-.075	10 5561	38	10 56.0 50 46	27.2
	30 45.72							
	51 41 38.0							
1 484 31 11.5		33 00	3.3015	0448	1 48950	.221	1 48.73	33 0.58
10 55 49 53 46.9		50 04 42	19.847	.077	10 54.96	38	10 55.3 50 4	42.2
1 485 31 32.51		33 21	3.3043	0443	1 49042	221	1 48.82	33 21.33
10 55 49 57 25.1		50 08 20	19.842	.077	10 54.79	38	10 55.2 50 8	24.3
	32 8.68							
	51 56 23.0							
1 488 32 8.1		33 58	3.3102	0446	1 49237	.229	1 49.01	33 5.82
10 55 50 7 57		50 18 01	19.835	.079	10 54.56	40	10 55.0 50 4	0.7
	32 22.15							
	52 8 39.3							
	32 29.20							
	51 49 23.8							
	33 9.39							
	53 5 27.0							
	35 28.16							
	53 30 35.5							
	35 28.93							
	53 17 9.6							
	36 19.44							
	54 21 19.8							
	36 50.56							
	54 6 56.7							
1 498 36 54.57								
10 54 54 26 12.6								



33da	u142.	anti	Carda	2.2.a	33da	55.2a	Sum	anti
33dy	u142	anti	Carda	8.2.v	33dy	55.2.v	Sum	anti
1 4980	36 5465	0 38 44						
10 54 53	47 13.2	53 58 07						

36 5.05  
53 37 44.8

37 14.8  
53 25 27

37 15.20  
54 26 26.3

37 39.19  
54 16 45.5

37 52.13  
53 45 8.2

1 50.3	38 19.26	40 10 23.470	.0452	1 50.452	-.226	1 50.23	40 9.49
10 52 49 47	24.1	49 58 17 19.747	.093	10 51.65	+ 46	10 52.1 49 58	16.2

38 23.3  
52 16 18.3

1 50.4	38 9.16	40 38 3.3534	0455	1 50.563	22.9	1 50.33	40 37.49
10 53 49 49	54.9	50 00 48 19.740	.094	10 51.92	.47	10 51.9 50 0	46.8

39 34.2  
52 55 14.6

39 36.98  
53 17 54.0

40 12.90  
53 8 52.7

40 22.56  
53 8 9.27

1 50.8	41 30.08	43 22 3.3714	.02458	1 51.257	-.229	1 51.03	43 21.11
10 50 49 46	6.0	49 56 56 19.696	-.100	10 49.97	+ .50	10 50.5 49 56	56.5

1 51.0 42 4.04  
10 50 51 25 44.9



1875phae.proj.1741.















