

Tentti 06-1 NA 2000

Pvm. 9.8.2000

GMT= 07:24:12

Taivaankappale

ylär.

HE = 8 m

DR

Lat. 48 20,0

Dubhe

alar.

Long. -47 -5,0

|            |   |    |      |
|------------|---|----|------|
| hi         | = | 24 | 1,6  |
| i          | = |    | -3,5 |
| ho         | = | 23 | 58,1 |
| dip        | = |    | -5,0 |
| ha         | = | 23 | 53,1 |
| Pääkorj.   | = |    | -2,2 |
| -30'       | = |    |      |
| L,U        | = |    |      |
| lisäkorj.  | = |    |      |
| lisäk.ref. | = |    |      |
| ht         | = | 23 | 50,9 |
| Hc         | = | 23 | 49,5 |
| dH         | = | 0  | 1,4  |

HP

|            |  |     |      |
|------------|--|-----|------|
| GHA h      |  | 63  | 4,8  |
| m+s        |  | 6   | 4,0  |
| SHA/v corr |  | 194 | 4,5  |
| GHA        |  | 263 | 13,3 |
| DR long W  |  | -47 | -5,0 |
| LHA =      |  | 216 | 8,3  |

HC = 23 49,5  
Zn = 17 45,9

TS =(desim.) 17,8

|        |    |      |
|--------|----|------|
| dec.   |    | d    |
|        | 61 | 45,1 |
| dcorr. |    | 0,0  |
| dec.   | 61 | 45,1 |

dec. N 61 45,1

Pvm. 9.8.2000

GMT= 07:25:15

Taivaankappale

ylär.

DR 2

Lat. 48 20,0

Jupiter

alar.

Long. -47 -5,0

|            |   |    |      |
|------------|---|----|------|
| hi         | = | 45 | 54,7 |
| i          | = |    | -3,5 |
| ho         | = | 45 | 51,2 |
| dip        | = |    | -5,0 |
| ha         | = | 45 | 46,2 |
| Pääkorj.   | = |    | -0,9 |
| -30'       | = |    |      |
| L,U        | = |    |      |
| lisäkorj.  | = |    |      |
| lisäk.ref. | = |    |      |
| ht         | = | 45 | 45,3 |
| Hc         | = | 45 | 47,3 |
| dH         | = | 0  | -2,0 |

HP

|            |  |     |      |
|------------|--|-----|------|
| GHA h      |  | 357 | 31,2 |
| m+s        |  | 6   | 18,8 |
| SHA/v corr |  |     | 0,9  |
| GHA        |  | 3   | 50,8 |
| DR long W  |  | -47 | -5,0 |
| LHA =      |  | 316 | 45,8 |

HC = 45 47,3  
Zn = 113 11,7

TS =(desim.) 113,2

|        |    |      |
|--------|----|------|
| dec.   |    | d    |
|        | 20 | 39,7 |
| dcorr. |    | 0,0  |
| dec.   | 20 | 39,7 |

dec. N 20 39,7

|     |     |      |
|-----|-----|------|
| Fix |     |      |
|     | 48  | 21,9 |
|     | -47 | -7,1 |

NAVIGEO

LASKENTALOMAKE

NA-C

Tentti 06-2 NA 2000

Pvm. 2.9.2000

GMT= 09:24:40

Taivaankappale Aurinko ylär. alar. X

HE = 6 m DR

Lat. -46 -5,0  
Long. 71 30,0

|            |   |    |      |
|------------|---|----|------|
| hi         | = | 30 | 38,0 |
| i          | = |    | 2,4  |
| ho         | = | 30 | 40,4 |
| dip        | = |    | -4,3 |
| ha         | = | 30 | 36,1 |
| Pääkorj.   | = |    | 14,4 |
| -30'       | = |    |      |
| L,U        | = |    |      |
| lisäkorj.  | = |    |      |
| lisäk.ref. | = |    |      |
| ht         | = | 30 | 50,5 |
| Hc         | = | 30 | 50,0 |
| dH         | = | 0  | 0,5  |

|            |     |      |
|------------|-----|------|
| GHA h      | 315 | 41,6 |
| m+s        | 6   | 10,0 |
| SHA/v corr |     |      |
| GHA        | 321 | 51,6 |
| DR long E  | 71  | 30,0 |
| LHA =      | 33  | 21,6 |

|        |          |
|--------|----------|
| dec.   | d        |
| 5      | 8,4 -0,9 |
| dcorr. | -0,4     |
| dec.   | 5 8,0    |

HC = 30 50,0  
Zn = 320 22,1

dec. N 5 8,0

TS =(desim.) 320,4

Pvm. 2.9.2000

GMT= 13:25:32

Taivaankappale Altair ylär. alar.

DR 2

Lat. -46 -15,9  
Long. 72 13,4

|            |   |    |      |
|------------|---|----|------|
| hi         | = | 26 | 36,6 |
| i          | = |    | 2,4  |
| ho         | = | 26 | 39,0 |
| dip        | = |    | -4,3 |
| ha         | = | 26 | 34,7 |
| Pääkorj.   | = |    | -1,9 |
| -30'       | = |    |      |
| L,U        | = |    |      |
| lisäkorj.  | = |    |      |
| lisäk.ref. | = |    |      |
| ht         | = | 26 | 32,8 |
| Hc         | = | 26 | 32,0 |
| dH         | = | 0  | 0,8  |

|            |     |      |
|------------|-----|------|
| GHA h      | 183 | 52,9 |
| m+s        | 6   | 24,1 |
| SHA/v corr | 62  | 17,8 |
| GHA        | 252 | 34,8 |
| DR long E  | 72  | 13,4 |
| LHA =      | 324 | 48,2 |

|        |        |
|--------|--------|
| dec.   | d      |
| 8      | 52,4   |
| dcorr. | 0,0    |
| dec.   | 8 52,4 |

HC = 26 32,0  
Zn = 39 32,0

dec. N 8 52,4

TS =(desim.) 39,5

|           |
|-----------|
| Fix       |
| -46 -15,1 |
| 72 13,8   |

NAVIGEO

LASKENTALOMAKE

NA-C

Tentti 2006/3a

Pvm. 28.2.2000

GMT= 13:24:03

Taivaankappale Aurinko ylär. alar. X

HE = 7 m DR I-korj. 4

Lat. 45 39,0 Long. -17 -51,0

|            |   |    |      |
|------------|---|----|------|
| hi         | = | 36 | 0,8  |
| i          | = |    | 4,0  |
| ho         | = | 36 | 4,8  |
| dip        | = |    | -4,7 |
| ha         | = | 36 | 0,1  |
| Pääkorj.   | = |    | 14,9 |
| -30'       | = |    |      |
| L,U        | = |    |      |
| lisäkorj.  | = |    |      |
| lisäk.ref. | = |    |      |
| ht         | = | 36 | 15,0 |
| Hc         | = | 36 | 15,2 |
| dH         | = | 0  | -0,2 |

|           |     |       |
|-----------|-----|-------|
| GHA h     | 11  | 50,4  |
| m+s       | 6   | 0,8   |
| SHA       |     |       |
| v-corr    |     | 0,0   |
| GHA       | 17  | 51,2  |
| DR long W | -17 | -51,0 |
| LHA =     | 0   | 0,2   |

|        |    |           |
|--------|----|-----------|
| dec.   |    | d         |
|        | -8 | -6,2 -0,9 |
| dcorr. |    | -0,4      |
| dec.   | -8 | -5,8      |

dec. S 8 5,8

HC = 36 15,2  
Zn = 180 0,2

TS =(desim.) 180,0

Tentti 2006/3b

Pvm. 28.2.2000

GMT= 15:25:00

Taivaankappale Aurinko ylär. alar.

HE = 9 m DR 2 I-korj. 3,5

Lat. 45 57,0 Long. -17 -5,5

|            |   |    |      |
|------------|---|----|------|
| hi         | = | 29 | 4,9  |
| i          | = |    | 3,5  |
| ho         | = | 29 | 8,4  |
| dip        | = |    | -5,3 |
| ha         | = | 29 | 3,1  |
| Pääkorj.   | = |    | 14,3 |
| -30'       | = |    |      |
| L,U        | = |    |      |
| lisäkorj.  | = |    |      |
| lisäk.ref. | = |    |      |
| ht         | = | 29 | 17,4 |
| Hc         | = | 29 | 17,4 |
| dH         | = | 0  | 0,0  |

|           |     |      |
|-----------|-----|------|
| GHA h     | 41  | 50,7 |
| m+s       | 6   | 15,0 |
| SHA       |     |      |
| v-corr    |     | 0,0  |
| GHA       | 48  | 5,7  |
| DR long W | -17 | -5,5 |
| LHA =     | 31  | 0,2  |

|        |    |           |
|--------|----|-----------|
| dec.   |    | d         |
|        | -8 | -4,3 -0,9 |
| dcorr. |    | -0,4      |
| dec.   | -8 | -3,9      |

dec. S 8 3,9

HC = 29 17,4  
Zn = 215 47,1

TS =(desim.) 215,8

NAVIGEO

LASKENTALOMAKE

NA-C

Tentti 2006/4

Pvm. 11.9.2000

GMT= 20:24:09

Taivaankappale ylär. alar. Arcturus

HE = 6 m DR i-korj. = -1,5

Lat. 59 22,0 Long. -17 -36,0

|            |   |    |      |    |
|------------|---|----|------|----|
| hi         | = | 28 | 54,5 |    |
| i          | = |    | -1,5 |    |
| ho         | = | 28 | 53,0 |    |
| dip        | = |    | -4,3 |    |
| ha         | = | 28 | 48,7 |    |
| Pääkorj.   | = |    | -1,8 |    |
| -30'       | = |    |      | HP |
| L,U        | = |    |      |    |
| lisäkorj.  | = |    |      |    |
| lisäk.ref. | = |    |      |    |
| ht         | = | 28 | 46,9 |    |
| Hc         | = | 28 | 44,8 |    |

|           |     |       |   |
|-----------|-----|-------|---|
| GHA h     | 291 | 8,4   |   |
| m+s       | 6   | 3,2   |   |
| SHA       | 146 | 5,1   | v |
| v-corr.   |     | 0,0   |   |
| GHA       | 83  | 16,7  |   |
| DR long W | -17 | -36,0 |   |
| LHA =     | 65  | 40,7  |   |

|        |         |
|--------|---------|
| dec.   | d       |
| 19     | 11,0    |
| dcorr. | 0,0     |
| dec.   | 19 11,0 |
| dec. N | 19 11,0 |

HC = 28 44,8  
Zn = 259 0,1

TS =(desim.) 259,0

Pvm. 11.9.2000

GMT= 20:25:44

Taivaankappale ylär. alar. Polaris

HE = 6 m DR 2 i-korj. = -1,5

Lat. 59 22,0 Long. -17 -36,0

|            |   |    |      |    |
|------------|---|----|------|----|
| hi         | = | 59 | 6,5  |    |
| i          | = |    | -1,5 |    |
| ho         | = | 59 | 5,0  |    |
| dip        | = |    | -4,3 |    |
| ha         | = | 59 | 0,7  |    |
| Pääkorj.   | = |    | -0,6 |    |
| -30'       | = |    |      | HP |
| L,U        | = |    |      |    |
| lisäkorj.  | = |    |      |    |
| lisäk.ref. | = |    |      |    |
| ht         | = | 59 | 0,1  |    |
| Hc         | = | 59 | 0,6  |    |
| dH         | = | 0  | -0,5 |    |

|            |     |       |   |
|------------|-----|-------|---|
| GHA h      | 291 | 8,4   |   |
| m+s        | 6   | 27,1  |   |
| SHA/v corr | 321 | 36,7  | v |
|            |     | 0,0   |   |
| GHA        | 259 | 12,2  |   |
| DR long W  | -17 | -36,0 |   |
| LHA =      | 241 | 36,2  |   |

|        |         |
|--------|---------|
| dec.   | d       |
| 89     | 15,7    |
| dcorr. | 0,0     |
| dec.   | 89 15,7 |
| dec. N | 89 15,7 |

HC = 59 0,6  
Zn = 1 15,7

TS =(desim.) 1,3

|     |       |
|-----|-------|
| Fix |       |
| 59  | 21,5  |
| -17 | -40,0 |

NAVIGEO

LASKENTALOMAKE

NAC

Tentti2006/Jokeri

Pvm. 11.9.2000

GMT= 05:25:00

Taivaankappale  
Kuu

ylär.   
alar.

HE = 12 m  
i-korj. = 0

DR Lat. 46 31,6  
Long. -178 -35,1

|            |   |     |      |
|------------|---|-----|------|
| hi         | = | 0   | 31,6 |
| i          | = |     | 0,0  |
| ho         | = | 0   | 31,6 |
| dip        | = |     | -6,1 |
| ha         | = | 0   | 25,5 |
| Pääkorj.   | = |     | 38,8 |
| -30'       | = |     |      |
| L,U        | = | 1,2 | 54,7 |
| lisäkorj.  | = |     |      |
| lisäk.ref. | = |     |      |
| ht         | = | 1   | 5,5  |
| Hc         | = | 1   | 5,5  |

|           |      |          |
|-----------|------|----------|
| GHA h     | 103  | 18,8     |
| m+s       | 5    | 57,9     |
| SHA       |      |          |
| v-corr.   |      | 5,3      |
| GHA       | 109  | 22,0     |
| DR long W | -178 | -35,1    |
| LHA       | =    | 290 46,9 |

|        |     |       |
|--------|-----|-------|
| dec.   |     | d     |
|        | -17 | -13,0 |
| dcorr. |     | -3,0  |
| dec.   | -17 | -10,0 |

dec. S 17 10,0

HC = 1 5,5  
Zn = 116 41,4

TS =(desim.) 116,7