

**Rajah di muka .....**

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## CERAPAN MATAHARI BAGI AZIMUT

 Penilik Leo Che Yong Hari Jumaat Tarikh 1/12/06 Bulan 12 Tahun 2006

 Stesen 2 T.R. 3 B.K. 3 Ms. 3 Tiodolait (Jenis) 3 1 Bah. Aras Ufuk = a 3

 Formula : 
$$\text{Kosain AZIMUT} = \frac{\text{Kos P} - \text{Sain } \delta \text{ Sain } \infty}{\text{Kos } \delta \text{ Kos } \infty}$$
JAS 80/79 Jalan Relasik Maxis  
 Pembetulan Aras =  $\frac{a}{8} (\leq R - \leq L) \text{ tenjen } \infty$ 

| Waktu                   |   | Ufuk               |      |                                                                    | Gelem-bong |        | Pugak |                      |   | Tilikan ①                              | Bila waktu jam tangan tidak dalam lingkungan 3 minit daripada waktu piawai. Hitung waktu umum. |             | W.U. = 12° + W.T.K. - G |                  |     |    |
|-------------------------|---|--------------------|------|--------------------------------------------------------------------|------------|--------|-------|----------------------|---|----------------------------------------|------------------------------------------------------------------------------------------------|-------------|-------------------------|------------------|-----|----|
| J                       | m | P.Ki.              | T.R. | °                                                                  | '          | °      | '     | °                    | ' |                                        | T.G. Bujur Origin                                                                              | J           | m                       | W.T.K.           | +   |    |
|                         |   |                    |      | 162                                                                | 00         | 00     |       |                      |   |                                        |                                                                                                |             |                         | G. Bujur         | -   |    |
|                         |   |                    |      | 113                                                                | 29         | 10     |       |                      |   |                                        |                                                                                                |             |                         | E                | -   |    |
|                         |   |                    |      | 112                                                                | 51         | 23     |       |                      |   |                                        |                                                                                                |             |                         | W.U. penilikan ① |     |    |
|                         |   | P.Ka               |      | 292                                                                | 52         | 93     |       |                      |   |                                        |                                                                                                |             |                         | Sela             | +   |    |
|                         |   |                    |      | 293                                                                | 27         | 23     |       |                      |   |                                        |                                                                                                |             |                         | W.U. Penilikan ② |     |    |
| Purata ①                |   | T.R.               |      |                                                                    |            |        |       |                      |   |                                        |                                                                                                | Penilikan ① |                         | Penilikan ②      |     |    |
| J                       | m |                    |      |                                                                    |            |        |       |                      |   | Sudutistiwa pada ( ) jam U.T. 1/5      | 21                                                                                             | 49          | 43                      | 21               | 49  |    |
| 820                     |   |                    |      |                                                                    |            |        |       |                      |   | Selisih 29 ±                           |                                                                                                |             | 8                       |                  |     |    |
|                         |   | Purata Ke matahari |      | 113                                                                | 08         | 55     |       |                      |   | Biasan & Bedalihat                     | Sudutistiwa pada waktu penilikan U/S                                                           | 21          | 49                      | 51               | 21  | 49 |
|                         |   | Purata Ke TR.      |      |                                                                    |            |        |       |                      |   | Tinjau Dilaras                         | Jarak kutub = P                                                                                |             |                         |                  |     |    |
| J                       | m | P.Ki.              | T.R. |                                                                    |            |        |       |                      |   | Tilikan ②                              | G. Lintang = 0                                                                                 |             |                         |                  |     |    |
|                         |   |                    |      | 113                                                                | 35         | 01     |       |                      |   |                                        | Tinjau dilaras = 0                                                                             |             |                         |                  |     |    |
|                         |   |                    |      | 113                                                                | 01         | 48     |       |                      |   |                                        | Azimut Matahari yang dikira                                                                    | 113         | 47                      | 23               | 113 | 52 |
|                         |   | P.Ka               |      | 293                                                                | 03         | 10     |       |                      |   |                                        | Azimut (Purata ke matahari)                                                                    |             |                         |                  |     |    |
|                         |   |                    |      | 293                                                                | 35         | 23     |       |                      |   |                                        | Selisih = Az - Tilikan                                                                         |             | 38                      | 28               |     | 38 |
| Purata ②                |   | T.R.               |      |                                                                    |            |        |       |                      |   | T.R. yang ditilik (Purata ke TR)       |                                                                                                |             |                         |                  |     |    |
| J                       | m |                    |      |                                                                    |            |        |       |                      |   | T.R. Sebenar (Sel + T.R. yang ditilik) | 162                                                                                            | 38          | 28                      | 162              | 32  |    |
|                         |   |                    |      |                                                                    |            |        |       |                      |   | Purata Tinjau                          | Aras ±                                                                                         |             |                         |                  |     |    |
|                         |   | Purata Ke matahari |      | 113                                                                | 19         | 36     |       |                      |   | Biasan & Bedalihat                     | Tirisan ±                                                                                      |             |                         |                  |     |    |
|                         |   | Purata Ke TR.      |      |                                                                    |            |        |       |                      |   | Tinjau Dilaras                         | Bearing Gerid T.R.                                                                             | 162         | 37                      | 49               | 162 | 37 |
| Kordinat Origin U/S     |   | 55.961             | m    | Kordinat Origin 1/B                                                |            | 217.59 | m     | Purata Bg Gerid T.R. |   | 162° 37' 49"                           |                                                                                                |             |                         |                  |     |    |
| Stesen U/S              |   | 58.51              | m    | Stesen 1/B                                                         |            | 238.6  | m     | Ditilik oleh         |   | 1/12/06.                               |                                                                                                |             |                         |                  |     |    |
| Jumlah/Sel 1/S          |   | 50.110             | m    | Jumlah/Sel T/B                                                     |            | 21.373 | m     | Dihitung oleh        |   |                                        |                                                                                                |             |                         |                  |     |    |
| Jumlah/Sel. x 0.03256 ± |   | -0° 27' 12"        |      | Sel. G. Bujur = $\frac{\text{Jum. Sel.}}{\text{Sel.}}$ x 0.03246 ± |            | 11.37  | "     | Tarikh               |   |                                        |                                                                                                |             |                         |                  |     |    |
| G. Lintang Origin U     |   | 3 40 49            |      | Sel. G. Bujur x Sain G. Lintang =                                  |            |        |       |                      |   |                                        |                                                                                                |             |                         |                  |     |    |
| G. Lintang Stesen U     |   | 3 13 37            |      | T (-) / B (+) Tirisan =                                            |            | 39"    |       |                      |   |                                        |                                                                                                |             |                         |                  |     |    |

 P.Ki. - Penyilang Kiri  
 P.Ka - Penyilang Kanan

 T.R. - Tanda Rujuk  
 Sel - Selisih

 W.U. - Waktu Umum  
 W.T.K. - Waktu Tempatan Ketara

Tarikh ..... Aras

Dibuat untuk .....

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Daripada ..... JRS 80179

Ke .....

| Pandangan Belakang | Pandangan Antara | Pandangan Hadapan      | Naik   | Turun | Aras Yang Dilaras | Jarak | Catilan   |
|--------------------|------------------|------------------------|--------|-------|-------------------|-------|-----------|
| 0.922              | (3.02)           | (2.61)                 |        |       | 77.262            |       | 78M F1082 |
|                    | 0.795            | (2.61)                 |        |       | 77.389            |       | F3        |
|                    | 2.483            | (8.15)                 |        |       | 75.701            |       | F10       |
| 1.044              | (3.73)           | 2.100                  | (6.89) |       |                   |       | CP        |
| 1.092              | (3.58)           | 2.000                  | (6.56) |       |                   |       |           |
| 1.271              | (4.17)           | <del>2.726</del> 1.726 | (5.56) |       |                   |       |           |
| 1.697              | (5.00)           | 1.743                  | (5.72) |       |                   |       |           |
| 1.821              | (5.20)           | 1.839                  | (4.82) |       |                   |       |           |
| 1.841              | "                | 1.842                  | (4.94) |       |                   |       |           |
| 1.851              | (5.60)           | 1.859                  | (4.90) |       |                   |       |           |
| 1.859              | (5.51)           | 1.881                  | (4.92) |       |                   |       |           |
| 1.871              | (5.52)           | 1.889                  | (5.10) |       |                   |       |           |
| 1.883              | (4.80)           | 1.911                  | (4.96) |       |                   |       |           |
| 1.882              | (5.03)           | 1.901                  | (5.00) |       |                   |       |           |
| 1.881              | (5.00)           | 1.911                  | (5.00) |       |                   |       |           |
| 1.881              | (5.11)           | 1.907                  | (5.10) |       |                   |       |           |
| 1.881              | (5.00)           | 1.885                  | (5.14) |       |                   |       |           |
| 1.884              | (5.00)           | 1.881                  | (5.10) |       |                   |       |           |
| 1.870              | (5.00)           | 1.889                  | (5.00) |       |                   |       |           |
| 1.870              | (5.00)           | 1.885                  | (5.14) |       |                   |       |           |
| 27.858             | ✓                | 29.902                 | ✓      |       | 39.718            |       | 78M F1082 |

