



**JABATAN UKUR DAN PEMETAAN MALAYSIA (JUPEM)**  
Bahagian Ukur Geodetik



**DATA RUKYAH MATAHARI DAN BULAN**  
**Menara UMSKAL, W.P. Labuan**  
**[ 5°16'43" U, 115°10'25" T, 40 m ]**  
**Terbias**  
**Delta T 75.4 saat**

| Bulan Terbenam : 19:53:00 |       |               | 13/09/2026    | Matahari Terbenam : 18:21:00 |              |                |
|---------------------------|-------|---------------|---------------|------------------------------|--------------|----------------|
| Umur Hilal : 56j 26m      |       |               |               | Ijtimak : 11:27 (2026-9-11)  |              |                |
| Tarikh                    | Waktu | Altitud Bulan | Azimuth Bulan | Altitud MH                   | Azimuth MH   | Jarak Lengkung |
| 13/09/2026                | 17:21 | 34° 46' 06"   | 252° 35' 16"  | 13° 53' 50"                  | 272° 32' 27" | 27° 35' 50"    |
| 13/09/2026                | 17:22 | 34° 32' 06"   | 252° 39' 24"  | 13° 38' 58"                  | 272° 33' 39" | 27° 36' 11"    |
| 13/09/2026                | 17:23 | 34° 18' 06"   | 252° 43' 29"  | 13° 24' 07"                  | 272° 34' 52" | 27° 36' 33"    |
| 13/09/2026                | 17:24 | 34° 04' 06"   | 252° 47' 33"  | 13° 09' 16"                  | 272° 36' 04" | 27° 36' 54"    |
| 13/09/2026                | 17:25 | 33° 50' 05"   | 252° 51' 34"  | 12° 54' 25"                  | 272° 37' 16" | 27° 37' 16"    |
| 13/09/2026                | 17:26 | 33° 36' 04"   | 252° 55' 33"  | 12° 39' 35"                  | 272° 38' 29" | 27° 37' 38"    |
| 13/09/2026                | 17:27 | 33° 22' 03"   | 252° 59' 30"  | 12° 24' 44"                  | 272° 39' 42" | 27° 37' 59"    |
| 13/09/2026                | 17:28 | 33° 08' 02"   | 253° 03' 25"  | 12° 09' 54"                  | 272° 40' 54" | 27° 38' 21"    |
| 13/09/2026                | 17:29 | 32° 54' 00"   | 253° 07' 17"  | 11° 55' 04"                  | 272° 42' 07" | 27° 38' 43"    |
| 13/09/2026                | 17:30 | 32° 39' 58"   | 253° 11' 08"  | 11° 40' 14"                  | 272° 43' 20" | 27° 39' 05"    |
| 13/09/2026                | 17:31 | 32° 25' 56"   | 253° 14' 57"  | 11° 25' 24"                  | 272° 44' 34" | 27° 39' 27"    |
| 13/09/2026                | 17:32 | 32° 11' 54"   | 253° 18' 43"  | 11° 10' 35"                  | 272° 45' 47" | 27° 39' 49"    |
| 13/09/2026                | 17:33 | 31° 57' 52"   | 253° 22' 28"  | 10° 55' 46"                  | 272° 47' 00" | 27° 40' 11"    |
| 13/09/2026                | 17:34 | 31° 43' 49"   | 253° 26' 10"  | 10° 40' 57"                  | 272° 48' 14" | 27° 40' 33"    |
| 13/09/2026                | 17:35 | 31° 29' 47"   | 253° 29' 51"  | 10° 26' 08"                  | 272° 49' 28" | 27° 40' 55"    |
| 13/09/2026                | 17:36 | 31° 15' 44"   | 253° 33' 30"  | 10° 11' 20"                  | 272° 50' 41" | 27° 41' 17"    |
| 13/09/2026                | 17:37 | 31° 01' 41"   | 253° 37' 07"  | 09° 56' 32"                  | 272° 51' 55" | 27° 41' 39"    |
| 13/09/2026                | 17:38 | 30° 47' 37"   | 253° 40' 42"  | 09° 41' 45"                  | 272° 53' 10" | 27° 42' 01"    |
| 13/09/2026                | 17:39 | 30° 33' 34"   | 253° 44' 15"  | 09° 26' 57"                  | 272° 54' 24" | 27° 42' 23"    |
| 13/09/2026                | 17:40 | 30° 19' 30"   | 253° 47' 46"  | 09° 12' 10"                  | 272° 55' 38" | 27° 42' 45"    |
| 13/09/2026                | 17:41 | 30° 05' 27"   | 253° 51' 16"  | 08° 57' 24"                  | 272° 56' 53" | 27° 43' 08"    |
| 13/09/2026                | 17:42 | 29° 51' 23"   | 253° 54' 43"  | 08° 42' 38"                  | 272° 58' 08" | 27° 43' 30"    |
| 13/09/2026                | 17:43 | 29° 37' 19"   | 253° 58' 09"  | 08° 27' 52"                  | 272° 59' 23" | 27° 43' 52"    |
| 13/09/2026                | 17:44 | 29° 23' 14"   | 254° 01' 33"  | 08° 13' 07"                  | 273° 00' 38" | 27° 44' 15"    |
| 13/09/2026                | 17:45 | 29° 09' 10"   | 254° 04' 56"  | 07° 58' 23"                  | 273° 01' 53" | 27° 44' 37"    |
| 13/09/2026                | 17:46 | 28° 55' 05"   | 254° 08' 16"  | 07° 43' 39"                  | 273° 03' 08" | 27° 45' 00"    |
| 13/09/2026                | 17:47 | 28° 41' 01"   | 254° 11' 35"  | 07° 28' 56"                  | 273° 04' 24" | 27° 45' 22"    |
| 13/09/2026                | 17:48 | 28° 26' 56"   | 254° 14' 53"  | 07° 14' 13"                  | 273° 05' 40" | 27° 45' 45"    |
| 13/09/2026                | 17:49 | 28° 12' 51"   | 254° 18' 08"  | 06° 59' 31"                  | 273° 06' 55" | 27° 46' 07"    |
| 13/09/2026                | 17:50 | 27° 58' 46"   | 254° 21' 22"  | 06° 44' 50"                  | 273° 08' 12" | 27° 46' 30"    |
| 13/09/2026                | 17:51 | 27° 44' 40"   | 254° 24' 34"  | 06° 30' 10"                  | 273° 09' 28" | 27° 46' 52"    |

Sumber : Perisian AIMS JUPEM



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**[ 5°16'43" U, 115°10'25" T, 40 m ]**  
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**Delta T 75.4 saat**

| Bulan Terbenam : 19:53:00 |       |               | 13/09/2026    | Matahari Terbenam : 18:21:00 |              |                |
|---------------------------|-------|---------------|---------------|------------------------------|--------------|----------------|
| Umur Hilal : 56j 26m      |       |               |               | Ijtimak : 11:27 (2026-9-11)  |              |                |
| Tarikh                    | Waktu | Altitud Bulan | Azimuth Bulan | Altitud MH                   | Azimuth MH   | Jarak Lengkung |
| 13/09/2026                | 17:52 | 27° 30' 35"   | 254° 27' 45"  | 06° 15' 30"                  | 273° 10' 44" | 27° 47' 15"    |
| 13/09/2026                | 17:53 | 27° 16' 29"   | 254° 30' 54"  | 06° 00' 52"                  | 273° 12' 01" | 27° 47' 38"    |
| 13/09/2026                | 17:54 | 27° 02' 24"   | 254° 34' 01"  | 05° 46' 15"                  | 273° 13' 18" | 27° 48' 01"    |
| 13/09/2026                | 17:55 | 26° 48' 18"   | 254° 37' 07"  | 05° 31' 39"                  | 273° 14' 35" | 27° 48' 24"    |
| 13/09/2026                | 17:56 | 26° 34' 12"   | 254° 40' 12"  | 05° 17' 04"                  | 273° 15' 52" | 27° 48' 46"    |
| 13/09/2026                | 17:57 | 26° 20' 06"   | 254° 43' 14"  | 05° 02' 31"                  | 273° 17' 09" | 27° 49' 09"    |
| 13/09/2026                | 17:58 | 26° 06' 00"   | 254° 46' 16"  | 04° 47' 59"                  | 273° 18' 27" | 27° 49' 32"    |
| 13/09/2026                | 17:59 | 25° 51' 54"   | 254° 49' 15"  | 04° 33' 29"                  | 273° 19' 45" | 27° 49' 55"    |
| 13/09/2026                | 18:00 | 25° 37' 47"   | 254° 52' 14"  | 04° 19' 01"                  | 273° 21' 03" | 27° 50' 18"    |
| 13/09/2026                | 18:01 | 25° 23' 41"   | 254° 55' 10"  | 04° 04' 35"                  | 273° 22' 21" | 27° 50' 42"    |
| 13/09/2026                | 18:02 | 25° 09' 34"   | 254° 58' 06"  | 03° 50' 11"                  | 273° 23' 39" | 27° 51' 05"    |
| 13/09/2026                | 18:03 | 24° 55' 28"   | 255° 01' 00"  | 03° 35' 51"                  | 273° 24' 58" | 27° 51' 28"    |
| 13/09/2026                | 18:04 | 24° 41' 21"   | 255° 03' 52"  | 03° 21' 33"                  | 273° 26' 17" | 27° 51' 51"    |
| 13/09/2026                | 18:05 | 24° 27' 14"   | 255° 06' 43"  | 03° 07' 18"                  | 273° 27' 36" | 27° 52' 14"    |
| 13/09/2026                | 18:06 | 24° 13' 07"   | 255° 09' 32"  | 02° 53' 07"                  | 273° 28' 55" | 27° 52' 38"    |
| 13/09/2026                | 18:07 | 23° 59' 00"   | 255° 12' 21"  | 02° 39' 00"                  | 273° 30' 14" | 27° 53' 01"    |
| 13/09/2026                | 18:08 | 23° 44' 53"   | 255° 15' 07"  | 02° 24' 58"                  | 273° 31' 34" | 27° 53' 24"    |
| 13/09/2026                | 18:09 | 23° 30' 46"   | 255° 17' 53"  | 02° 11' 01"                  | 273° 32' 54" | 27° 53' 48"    |
| 13/09/2026                | 18:10 | 23° 16' 38"   | 255° 20' 37"  | 01° 57' 11"                  | 273° 34' 14" | 27° 54' 11"    |
| 13/09/2026                | 18:11 | 23° 02' 31"   | 255° 23' 19"  | 01° 43' 27"                  | 273° 35' 34" | 27° 54' 35"    |
| 13/09/2026                | 18:12 | 22° 48' 24"   | 255° 26' 01"  | 01° 29' 50"                  | 273° 36' 55" | 27° 54' 58"    |
| 13/09/2026                | 18:13 | 22° 34' 16"   | 255° 28' 41"  | 01° 16' 22"                  | 273° 38' 16" | 27° 55' 22"    |
| 13/09/2026                | 18:14 | 22° 20' 08"   | 255° 31' 19"  | 01° 03' 03"                  | 273° 39' 37" | 27° 55' 46"    |
| 13/09/2026                | 18:15 | 22° 06' 01"   | 255° 33' 57"  | 00° 49' 55"                  | 273° 40' 58" | 27° 56' 09"    |
| 13/09/2026                | 18:16 | 21° 51' 53"   | 255° 36' 33"  | 00° 36' 58"                  | 273° 42' 20" | 27° 56' 33"    |
| 13/09/2026                | 18:17 | 21° 37' 45"   | 255° 39' 08"  | 00° 24' 12"                  | 273° 43' 42" | 27° 56' 57"    |
| 13/09/2026                | 18:18 | 21° 23' 38"   | 255° 41' 41"  | 00° 11' 36"                  | 273° 45' 04" | 27° 57' 21"    |
| 13/09/2026                | 18:19 | 21° 09' 30"   | 255° 44' 13"  | -00° 00' 50"                 | 273° 46' 26" | 27° 57' 45"    |
| 13/09/2026                | 18:20 | 20° 55' 22"   | 255° 46' 44"  | -00° 13' 11"                 | 273° 47' 49" | 27° 58' 09"    |
| 13/09/2026                | 18:21 | 20° 41' 14"   | 255° 49' 14"  | -00° 25' 35"                 | 273° 49' 12" | 27° 58' 33"    |
| 13/09/2026                | 18:22 | 20° 27' 06"   | 255° 51' 43"  | -00° 38' 13"                 | 273° 50' 35" | 27° 58' 57"    |

Sumber : Perisian AIMS JUPEM



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|---------------------------|-------|---------------|---------------|------------------------------|--------------|----------------|
| Umur Hilal : 56j 26m      |       |               |               | Ijtimak : 11:27 (2026-9-11)  |              |                |
| Tarikh                    | Waktu | Altitud Bulan | Azimuth Bulan | Altitud MH                   | Azimuth MH   | Jarak Lengkung |
| 13/09/2026                | 18:23 | 20° 12' 58"   | 255° 54' 10"  | -00° 51' 22"                 | 273° 51' 58" | 27° 59' 21"    |
| 13/09/2026                | 18:24 | 19° 58' 50"   | 255° 56' 36"  | -01° 05' 22"                 | 273° 53' 22" | 27° 59' 45"    |
| 13/09/2026                | 18:25 | 19° 44' 42"   | 255° 59' 01"  | -01° 20' 36"                 | 273° 54' 46" | 28° 00' 09"    |
| 13/09/2026                | 18:26 | 19° 30' 33"   | 256° 01' 25"  | -01° 37' 18"                 | 273° 56' 10" | 28° 00' 33"    |
| 13/09/2026                | 18:27 | 19° 16' 25"   | 256° 03' 48"  | -01° 55' 29"                 | 273° 57' 35" | 28° 00' 57"    |
| 13/09/2026                | 18:28 | 19° 02' 17"   | 256° 06' 09"  | -02° 14' 55"                 | 273° 58' 59" | 28° 01' 22"    |
| 13/09/2026                | 18:29 | 18° 48' 09"   | 256° 08' 29"  | -02° 35' 06"                 | 274° 00' 24" | 28° 01' 46"    |
| 13/09/2026                | 18:30 | 18° 34' 01"   | 256° 10' 48"  | -02° 55' 30"                 | 274° 01' 50" | 28° 02' 11"    |
| 13/09/2026                | 18:31 | 18° 19' 52"   | 256° 13' 06"  | -03° 15' 38"                 | 274° 03' 15" | 28° 02' 35"    |
| 13/09/2026                | 18:32 | 18° 05' 44"   | 256° 15' 23"  | -03° 35' 13"                 | 274° 04' 41" | 28° 02' 59"    |
| 13/09/2026                | 18:33 | 17° 51' 36"   | 256° 17' 39"  | -03° 54' 07"                 | 274° 06' 08" | 28° 03' 24"    |
| 13/09/2026                | 18:34 | 17° 37' 27"   | 256° 19' 54"  | -04° 12' 20"                 | 274° 07' 34" | 28° 03' 49"    |
| 13/09/2026                | 18:35 | 17° 23' 19"   | 256° 22' 07"  | -04° 29' 56"                 | 274° 09' 01" | 28° 04' 13"    |
| 13/09/2026                | 18:36 | 17° 09' 11"   | 256° 24' 20"  | -04° 47' 04"                 | 274° 10' 28" | 28° 04' 38"    |
| 13/09/2026                | 18:37 | 16° 55' 03"   | 256° 26' 31"  | -05° 01' 59"                 | 274° 11' 56" | 28° 05' 03"    |
| 13/09/2026                | 18:38 | 16° 40' 54"   | 256° 28' 41"  | -05° 19' 18"                 | 274° 13' 24" | 28° 05' 27"    |
| 13/09/2026                | 18:39 | 16° 26' 46"   | 256° 30' 50"  | -05° 35' 25"                 | 274° 14' 52" | 28° 05' 52"    |
| 13/09/2026                | 18:40 | 16° 12' 38"   | 256° 32' 59"  | -05° 51' 09"                 | 274° 16' 20" | 28° 06' 17"    |
| 13/09/2026                | 18:41 | 15° 58' 30"   | 256° 35' 06"  | -06° 06' 41"                 | 274° 17' 49" | 28° 06' 42"    |
| 13/09/2026                | 18:42 | 15° 44' 21"   | 256° 37' 12"  | -06° 22' 03"                 | 274° 19' 18" | 28° 07' 07"    |
| 13/09/2026                | 18:43 | 15° 30' 13"   | 256° 39' 17"  | -06° 37' 19"                 | 274° 20' 48" | 28° 07' 32"    |
| 13/09/2026                | 18:44 | 15° 16' 05"   | 256° 41' 21"  | -06° 52' 29"                 | 274° 22' 18" | 28° 07' 57"    |
| 13/09/2026                | 18:45 | 15° 01' 57"   | 256° 43' 24"  | -07° 07' 35"                 | 274° 23' 48" | 28° 08' 22"    |
| 13/09/2026                | 18:46 | 14° 47' 49"   | 256° 45' 26"  | -07° 22' 37"                 | 274° 25' 18" | 28° 08' 47"    |
| 13/09/2026                | 18:47 | 14° 33' 41"   | 256° 47' 27"  | -07° 37' 37"                 | 274° 26' 49" | 28° 09' 12"    |
| 13/09/2026                | 18:48 | 14° 19' 33"   | 256° 49' 27"  | -07° 52' 34"                 | 274° 28' 20" | 28° 09' 37"    |
| 13/09/2026                | 18:49 | 14° 05' 25"   | 256° 51' 25"  | -08° 07' 30"                 | 274° 29' 52" | 28° 10' 03"    |
| 13/09/2026                | 18:50 | 13° 51' 18"   | 256° 53' 23"  | -08° 22' 25"                 | 274° 31' 24" | 28° 10' 28"    |
| 13/09/2026                | 18:51 | 13° 37' 10"   | 256° 55' 20"  | -08° 37' 18"                 | 274° 32' 56" | 28° 10' 53"    |
| 13/09/2026                | 18:52 | 13° 23' 02"   | 256° 57' 16"  | -08° 52' 10"                 | 274° 34' 29" | 28° 11' 19"    |
| 13/09/2026                | 18:53 | 13° 08' 55"   | 256° 59' 12"  | -09° 07' 02"                 | 274° 36' 02" | 28° 11' 44"    |

Sumber : Perisian AIMS JUPEM



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| Bulan Terbenam : 19:53:00 |       |               | 13/09/2026    | Matahari Terbenam : 18:21:00 |              |                |
|---------------------------|-------|---------------|---------------|------------------------------|--------------|----------------|
| Umur Hilal : 56j 26m      |       |               |               | Ijtimak : 11:27 (2026-9-11)  |              |                |
| Tarikh                    | Waktu | Altitud Bulan | Azimuth Bulan | Altitud MH                   | Azimuth MH   | Jarak Lengkung |
| 13/09/2026                | 18:54 | 12° 54' 48"   | 257° 01' 06"  | -09° 21' 53"                 | 274° 37' 36" | 28° 12' 10"    |
| 13/09/2026                | 18:55 | 12° 40' 40"   | 257° 02' 59"  | -09° 36' 44"                 | 274° 39' 10" | 28° 12' 35"    |
| 13/09/2026                | 18:56 | 12° 26' 33"   | 257° 04' 51"  | -09° 51' 35"                 | 274° 40' 44" | 28° 13' 01"    |
| 13/09/2026                | 18:57 | 12° 12' 26"   | 257° 06' 42"  | -10° 06' 25"                 | 274° 42' 18" | 28° 13' 27"    |
| 13/09/2026                | 18:58 | 11° 58' 19"   | 257° 08' 33"  | -10° 21' 15"                 | 274° 43' 53" | 28° 13' 52"    |
| 13/09/2026                | 18:59 | 11° 44' 13"   | 257° 10' 22"  | -10° 36' 04"                 | 274° 45' 29" | 28° 14' 18"    |
| 13/09/2026                | 19:00 | 11° 30' 06"   | 257° 12' 10"  | -10° 50' 54"                 | 274° 47' 05" | 28° 14' 44"    |
| 13/09/2026                | 19:01 | 11° 16' 00"   | 257° 13' 58"  | -11° 05' 44"                 | 274° 48' 41" | 28° 15' 10"    |
| 13/09/2026                | 19:02 | 11° 01' 53"   | 257° 15' 45"  | -11° 20' 33"                 | 274° 50' 18" | 28° 15' 36"    |
| 13/09/2026                | 19:03 | 10° 47' 47"   | 257° 17' 30"  | -11° 35' 22"                 | 274° 51' 55" | 28° 16' 02"    |
| 13/09/2026                | 19:04 | 10° 33' 42"   | 257° 19' 15"  | -11° 50' 12"                 | 274° 53' 32" | 28° 16' 28"    |
| 13/09/2026                | 19:05 | 10° 19' 36"   | 257° 20' 59"  | -12° 05' 01"                 | 274° 55' 10" | 28° 16' 54"    |
| 13/09/2026                | 19:06 | 10° 05' 31"   | 257° 22' 42"  | -12° 19' 51"                 | 274° 56' 49" | 28° 17' 20"    |
| 13/09/2026                | 19:07 | 09° 51' 26"   | 257° 24' 24"  | -12° 34' 40"                 | 274° 58' 28" | 28° 17' 46"    |
| 13/09/2026                | 19:08 | 09° 37' 21"   | 257° 26' 06"  | -12° 49' 29"                 | 275° 00' 07" | 28° 18' 12"    |
| 13/09/2026                | 19:09 | 09° 23' 16"   | 257° 27' 46"  | -13° 04' 19"                 | 275° 01' 47" | 28° 18' 38"    |
| 13/09/2026                | 19:10 | 09° 09' 12"   | 257° 29' 26"  | -13° 19' 08"                 | 275° 03' 27" | 28° 19' 05"    |
| 13/09/2026                | 19:11 | 08° 55' 08"   | 257° 31' 05"  | -13° 33' 58"                 | 275° 05' 08" | 28° 19' 31"    |
| 13/09/2026                | 19:12 | 08° 41' 05"   | 257° 32' 42"  | -13° 48' 47"                 | 275° 06' 49" | 28° 19' 57"    |
| 13/09/2026                | 19:13 | 08° 27' 02"   | 257° 34' 19"  | -14° 03' 37"                 | 275° 08' 30" | 28° 20' 24"    |
| 13/09/2026                | 19:14 | 08° 12' 59"   | 257° 35' 56"  | -14° 18' 26"                 | 275° 10' 13" | 28° 20' 50"    |
| 13/09/2026                | 19:15 | 07° 58' 57"   | 257° 37' 31"  | -14° 33' 16"                 | 275° 11' 55" | 28° 21' 17"    |
| 13/09/2026                | 19:16 | 07° 44' 55"   | 257° 39' 05"  | -14° 48' 05"                 | 275° 13' 38" | 28° 21' 43"    |
| 13/09/2026                | 19:17 | 07° 30' 54"   | 257° 40' 39"  | -15° 02' 55"                 | 275° 15' 22" | 28° 22' 10"    |
| 13/09/2026                | 19:18 | 07° 16' 53"   | 257° 42' 12"  | -15° 17' 45"                 | 275° 17' 06" | 28° 22' 37"    |
| 13/09/2026                | 19:19 | 07° 02' 53"   | 257° 43' 44"  | -15° 32' 34"                 | 275° 18' 50" | 28° 23' 04"    |
| 13/09/2026                | 19:20 | 06° 48' 54"   | 257° 45' 15"  | -15° 47' 24"                 | 275° 20' 36" | 28° 23' 30"    |
| 13/09/2026                | 19:21 | 06° 34' 56"   | 257° 46' 45"  | -16° 02' 14"                 | 275° 22' 21" | 28° 23' 57"    |

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