

Station: Kanyakumari

Location: Longitude : 77.50 E Latitude : 8.08 N

| Date       | Moonrise | Moonset | Sunrise | Sunset |
|------------|----------|---------|---------|--------|
|            | h. m.    | h. m.   | h. m.   | h. m.  |
| 2017/12/27 | 13- 5    | 0-41    | 6-31    | 18-11  |
| 2017/12/28 | 13-52    | 1-33    | 6-32    | 18-11  |
| 2017/12/29 | 14-41    | 2-26    | 6-32    | 18-12  |
| 2017/12/30 | 15-35    | 3-23    | 6-32    | 18-12  |
| 2017/12/31 | 16-33    | 4-23    | 6-33    | 18-13  |
| 2018/ 1/ 1 | 17-35    | 5-26    | 6-33    | 18-13  |
| 2018/ 1/ 2 | 18-39    | 6-30    | 6-34    | 18-14  |
| 2018/ 1/ 3 | 19-43    | 7-34    | 6-34    | 18-14  |
| 2018/ 1/ 4 | 20-44    | 8-33    | 6-35    | 18-15  |
| 2018/ 1/ 5 | 21-42    | 9-29    | 6-35    | 18-15  |
| 2018/ 1/ 6 | 22-36    | 10-19   | 6-35    | 18-16  |
| 2018/ 1/ 7 | 23-28    | 11- 7   | 6-36    | 18-16  |
| 2018/ 1/ 8 | -----    | 11-52   | 6-36    | 18-17  |
| 2018/ 1/ 9 | 0-17     | 12-35   | 6-36    | 18-17  |
| 2018/ 1/10 | 1- 5     | 13-17   | 6-37    | 18-18  |
| 2018/ 1/11 | 1-52     | 14- 0   | 6-37    | 18-18  |
| 2018/ 1/12 | 2-39     | 14-43   | 6-37    | 18-19  |
| 2018/ 1/13 | 3-27     | 15-28   | 6-38    | 18-19  |
| 2018/ 1/14 | 4-14     | 16-14   | 6-38    | 18-20  |
| 2018/ 1/15 | 5- 3     | 17- 1   | 6-38    | 18-20  |
| 2018/ 1/16 | 5-51     | 17-50   | 6-38    | 18-21  |
| 2018/ 1/17 | 6-38     | 18-38   | 6-39    | 18-21  |
| 2018/ 1/18 | 7-25     | 19-27   | 6-39    | 18-22  |
| 2018/ 1/19 | 8-10     | 20-14   | 6-39    | 18-22  |
| 2018/ 1/20 | 8-54     | 21- 2   | 6-39    | 18-22  |
| 2018/ 1/21 | 9-37     | 21-50   | 6-39    | 18-23  |
| 2018/ 1/22 | 10-19    | 22-38   | 6-39    | 18-23  |
| 2018/ 1/23 | 11- 2    | 23-27   | 6-39    | 18-24  |
| 2018/ 1/24 | 11-47    | -----   | 6-40    | 18-24  |
| 2018/ 1/25 | 12-33    | 0-17    | 6-40    | 18-25  |
| 2018/ 1/26 | 13-23    | 1-11    | 6-40    | 18-25  |
| 2018/ 1/27 | 14-16    | 2- 7    | 6-40    | 18-25  |
| 2018/ 1/28 | 15-15    | 3- 6    | 6-40    | 18-26  |
| 2018/ 1/29 | 16-16    | 4- 8    | 6-40    | 18-26  |
| 2018/ 1/30 | 17-20    | 5-11    | 6-40    | 18-26  |
| 2018/ 1/31 | 18-22    | 6-12    | 6-40    | 18-27  |
| 2018/ 2/ 1 | 19-23    | 7-11    | 6-40    | 18-27  |
| 2018/ 2/ 2 | 20-21    | 8- 5    | 6-40    | 18-27  |
| 2018/ 2/ 3 | 21-16    | 8-56    | 6-40    | 18-27  |
| 2018/ 2/ 4 | 22- 8    | 9-44    | 6-40    | 18-28  |
| 2018/ 2/ 5 | 22-58    | 10-29   | 6-40    | 18-28  |
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| 2018/ 2/10 | 2-10     | 14-10   | 6-39    | 18-29  |
| 2018/ 2/11 | 2-58     | 14-57   | 6-39    | 18-29  |
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| 2018/ 2/16 | 6-52     | 18-59   | 6-38    | 18-30  |
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| 2018/ 2/20 | 9-46     | 22-14   | 6-36    | 18-31  |
| 2018/ 2/21 | 10-31    | 23- 6   | 6-36    | 18-31  |
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| 2018/ 2/23 | 12- 9    | -----   | 6-35    | 18-31  |
| 2018/ 2/24 | 13- 4    | 0-56    | 6-35    | 18-31  |
| 2018/ 2/25 | 14- 2    | 1-55    | 6-35    | 18-31  |
| 2018/ 2/26 | 15- 2    | 2-55    | 6-34    | 18-31  |
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| 2018/ 3/ 8 | -----    | 11-18   | 6-30    | 18-31  |

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| 2018/ 3/12 | 2-28  | 14-27 | 6-28 | 18-31 |
| 2018/ 3/13 | 3-16  | 15-16 | 6-28 | 18-31 |
| 2018/ 3/14 | 4- 1  | 16- 4 | 6-27 | 18-31 |
| 2018/ 3/15 | 4-47  | 16-53 | 6-27 | 18-31 |
| 2018/ 3/16 | 5-31  | 17-42 | 6-26 | 18-31 |
| 2018/ 3/17 | 6-15  | 18-30 | 6-26 | 18-31 |
| 2018/ 3/18 | 6-59  | 19-20 | 6-25 | 18-31 |
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| 2018/ 3/20 | 8-29  | 21- 2 | 6-24 | 18-31 |
| 2018/ 3/21 | 9-17  | 21-56 | 6-24 | 18-31 |
| 2018/ 3/22 | 10- 7 | 22-52 | 6-23 | 18-30 |
| 2018/ 3/23 | 11- 0 | 23-50 | 6-23 | 18-30 |
| 2018/ 3/24 | 11-56 | ----- | 6-22 | 18-30 |
| 2018/ 3/25 | 12-54 | 0-48  | 6-22 | 18-30 |
| 2018/ 3/26 | 13-53 | 1-47  | 6-21 | 18-30 |
| 2018/ 3/27 | 14-52 | 2-44  | 6-21 | 18-30 |
| 2018/ 3/28 | 15-50 | 3-39  | 6-20 | 18-30 |
| 2018/ 3/29 | 16-46 | 4-31  | 6-19 | 18-30 |
| 2018/ 3/30 | 17-40 | 5-21  | 6-19 | 18-30 |
| 2018/ 3/31 | 18-32 | 6- 8  | 6-18 | 18-30 |
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| 2018/ 4/28 | 17-15 | 4-48  | 6- 6 | 18-29 |
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| 2018/ 4/30 | 18-55 | 6-17  | 6- 5 | 18-29 |
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| 2018/ 5/12 | 3-28  | 15-50 | 6- 2 | 18-30 |
| 2018/ 5/13 | 4-13  | 16-41 | 6- 2 | 18-31 |
| 2018/ 5/14 | 4-59  | 17-35 | 6- 2 | 18-31 |
| 2018/ 5/15 | 5-49  | 18-31 | 6- 2 | 18-31 |
| 2018/ 5/16 | 6-42  | 19-31 | 6- 2 | 18-31 |
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| 2018/ 5/18 | 8-39  | 21-34 | 6- 1 | 18-31 |
| 2018/ 5/19 | 9-41  | 22-34 | 6- 1 | 18-32 |
| 2018/ 5/20 | 10-41 | 23-32 | 6- 1 | 18-32 |
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| 2018/ 5/24 | 14-21 | 2- 2  | 6- 1 | 18-33 |
| 2018/ 5/25 | 15-12 | 2-46  | 6- 1 | 18-33 |
| 2018/ 5/26 | 16- 1 | 3-31  | 6- 1 | 18-33 |

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| 2018/ 5/27 | 16-49 | 4-14  | 6- 1 | 18-33 |
| 2018/ 5/28 | 17-39 | 4-58  | 6- 1 | 18-34 |
| 2018/ 5/29 | 18-28 | 5-44  | 6- 1 | 18-34 |
| 2018/ 5/30 | 19-18 | 6-29  | 6- 1 | 18-34 |
| 2018/ 5/31 | 20- 8 | 7-17  | 6- 1 | 18-34 |
| 2018/ 6/ 1 | 20-56 | 8- 5  | 6- 1 | 18-34 |
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| 2018/ 6/ 4 | 23-14 | 10-30 | 6- 1 | 18-35 |
| 2018/ 6/ 5 | 23-57 | 11-18 | 6- 1 | 18-36 |
| 2018/ 6/ 6 | ----- | 12- 5 | 6- 1 | 18-36 |
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| 2018/ 6/11 | 3-37  | 16-15 | 6- 2 | 18-37 |
| 2018/ 6/12 | 4-27  | 17-13 | 6- 2 | 18-37 |
| 2018/ 6/13 | 5-23  | 18-14 | 6- 2 | 18-38 |
| 2018/ 6/14 | 6-22  | 19-18 | 6- 2 | 18-38 |
| 2018/ 6/15 | 7-25  | 20-20 | 6- 3 | 18-38 |
| 2018/ 6/16 | 8-28  | 21-21 | 6- 3 | 18-38 |
| 2018/ 6/17 | 9-30  | 22-18 | 6- 3 | 18-39 |
| 2018/ 6/18 | 10-29 | 23-11 | 6- 3 | 18-39 |
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| 2018/ 6/20 | 12-18 | ----- | 6- 4 | 18-39 |
| 2018/ 6/21 | 13- 9 | 0-46  | 6- 4 | 18-39 |
| 2018/ 6/22 | 13-59 | 1-31  | 6- 4 | 18-40 |
| 2018/ 6/23 | 14-47 | 2-13  | 6- 4 | 18-40 |
| 2018/ 6/24 | 15-36 | 2-57  | 6- 5 | 18-40 |
| 2018/ 6/25 | 16-24 | 3-42  | 6- 5 | 18-40 |
| 2018/ 6/26 | 17-14 | 4-27  | 6- 5 | 18-40 |
| 2018/ 6/27 | 18- 3 | 5-14  | 6- 5 | 18-41 |
| 2018/ 6/28 | 18-52 | 6- 1  | 6- 5 | 18-41 |
| 2018/ 6/29 | 19-40 | 6-50  | 6- 6 | 18-41 |
| 2018/ 6/30 | 20-27 | 7-39  | 6- 6 | 18-41 |
| 2018/ 7/ 1 | 21-12 | 8-26  | 6- 6 | 18-41 |
| 2018/ 7/ 2 | 21-55 | 9-14  | 6- 6 | 18-41 |
| 2018/ 7/ 3 | 22-37 | 10- 1 | 6- 7 | 18-42 |
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| 2018/ 7/ 5 | 24- 0 | 11-34 | 6- 7 | 18-42 |
| 2018/ 7/ 6 | ----- | 12-21 | 6- 7 | 18-42 |
| 2018/ 7/ 7 | 0-42  | 13-10 | 6- 8 | 18-42 |
| 2018/ 7/ 8 | 1-27  | 14- 1 | 6- 8 | 18-42 |
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| 2018/ 7/10 | 3- 7  | 15-55 | 6- 8 | 18-42 |
| 2018/ 7/11 | 4- 3  | 16-57 | 6- 8 | 18-42 |
| 2018/ 7/12 | 5- 4  | 18- 0 | 6- 9 | 18-42 |
| 2018/ 7/13 | 6- 7  | 19- 3 | 6- 9 | 18-42 |
| 2018/ 7/14 | 7-12  | 20- 4 | 6- 9 | 18-42 |
| 2018/ 7/15 | 8-14  | 21- 0 | 6- 9 | 18-42 |
| 2018/ 7/16 | 9-14  | 21-53 | 6-10 | 18-42 |
| 2018/ 7/17 | 10-10 | 22-41 | 6-10 | 18-42 |
| 2018/ 7/18 | 11- 4 | 23-28 | 6-10 | 18-42 |
| 2018/ 7/19 | 11-55 | ----- | 6-10 | 18-42 |
| 2018/ 7/20 | 12-44 | 0-12  | 6-10 | 18-42 |
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| 2018/ 7/22 | 14-22 | 1-40  | 6-11 | 18-42 |
| 2018/ 7/23 | 15-11 | 2-25  | 6-11 | 18-42 |
| 2018/ 7/24 | 16- 0 | 3-11  | 6-11 | 18-42 |
| 2018/ 7/25 | 16-49 | 3-58  | 6-11 | 18-42 |
| 2018/ 7/26 | 17-37 | 4-46  | 6-11 | 18-41 |
| 2018/ 7/27 | 18-24 | 5-35  | 6-11 | 18-41 |
| 2018/ 7/28 | 19-10 | 6-23  | 6-12 | 18-41 |
| 2018/ 7/29 | 19-54 | 7-11  | 6-12 | 18-41 |
| 2018/ 7/30 | 20-36 | 7-58  | 6-12 | 18-41 |
| 2018/ 7/31 | 21-18 | 8-45  | 6-12 | 18-40 |
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| 2018/ 8/ 4 | ----- | 11-54 | 6-12 | 18-40 |
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| 2018/ 8/ 8 | 2-46  | 15-40 | 6-13 | 18-38 |
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| 2018/ 8/10 | 4-50  | 17-44 | 6-13 | 18-38 |
| 2018/ 8/11 | 5-54  | 18-43 | 6-13 | 18-37 |
| 2018/ 8/12 | 6-56  | 19-39 | 6-13 | 18-37 |
| 2018/ 8/13 | 7-55  | 20-30 | 6-13 | 18-37 |

|            |       |       |      |       |
|------------|-------|-------|------|-------|
| 2018/ 8/14 | 8-51  | 21-19 | 6-13 | 18-36 |
| 2018/ 8/15 | 9-45  | 22- 6 | 6-13 | 18-36 |
| 2018/ 8/16 | 10-37 | 22-51 | 6-13 | 18-35 |
| 2018/ 8/17 | 11-27 | 23-37 | 6-13 | 18-35 |
| 2018/ 8/18 | 12-17 | ----- | 6-13 | 18-35 |
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| 2018/ 8/27 | 19-17 | 6-42  | 6-12 | 18-30 |
| 2018/ 8/28 | 19-59 | 7-29  | 6-12 | 18-30 |
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| 2018/ 9/12 | 8-24  | 20-42 | 6-10 | 18-22 |
| 2018/ 9/13 | 9-17  | 21-29 | 6-10 | 18-21 |
| 2018/ 9/14 | 10- 8 | 22-15 | 6-10 | 18-21 |
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| 2018/ 9/21 | 15-49 | 3- 3  | 6- 9 | 18-17 |
| 2018/ 9/22 | 16-32 | 3-51  | 6- 9 | 18-16 |
| 2018/ 9/23 | 17-15 | 4-38  | 6- 9 | 18-15 |
| 2018/ 9/24 | 17-57 | 5-25  | 6- 9 | 18-15 |
| 2018/ 9/25 | 18-38 | 6-12  | 6- 9 | 18-14 |
| 2018/ 9/26 | 19-21 | 7- 0  | 6- 9 | 18-14 |
| 2018/ 9/27 | 20- 4 | 7-48  | 6- 9 | 18-13 |
| 2018/ 9/28 | 20-50 | 8-38  | 6- 8 | 18-13 |
| 2018/ 9/29 | 21-39 | 9-31  | 6- 8 | 18-12 |
| 2018/ 9/30 | 22-31 | 10-25 | 6- 8 | 18-12 |
| 2018/10/ 1 | 23-27 | 11-22 | 6- 8 | 18-11 |
| 2018/10/ 2 | ----- | 12-20 | 6- 8 | 18-10 |
| 2018/10/ 3 | 0-24  | 13-19 | 6- 8 | 18-10 |
| 2018/10/ 4 | 1-24  | 14-16 | 6- 8 | 18- 9 |
| 2018/10/ 5 | 2-23  | 15-11 | 6- 8 | 18- 9 |
| 2018/10/ 6 | 3-23  | 16- 4 | 6- 8 | 18- 8 |
| 2018/10/ 7 | 4-20  | 16-55 | 6- 8 | 18- 8 |
| 2018/10/ 8 | 5-16  | 17-44 | 6- 7 | 18- 7 |
| 2018/10/ 9 | 6- 9  | 18-31 | 6- 7 | 18- 7 |
| 2018/10/10 | 7- 3  | 19-18 | 6- 7 | 18- 6 |
| 2018/10/11 | 7-55  | 20- 5 | 6- 7 | 18- 6 |
| 2018/10/12 | 8-47  | 20-52 | 6- 7 | 18- 6 |
| 2018/10/13 | 9-40  | 21-41 | 6- 7 | 18- 5 |
| 2018/10/14 | 10-30 | 22-29 | 6- 7 | 18- 5 |
| 2018/10/15 | 11-21 | 23-19 | 6- 7 | 18- 4 |
| 2018/10/16 | 12-10 | ----- | 6- 7 | 18- 4 |
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| 2018/10/18 | 13-43 | 0-56  | 6- 7 | 18- 3 |
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| 2018/10/20 | 15-10 | 2-31  | 6- 7 | 18- 2 |
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| 2018/10/22 | 16-33 | 4- 5  | 6- 7 | 18- 1 |
| 2018/10/23 | 17-16 | 4-53  | 6- 7 | 18- 1 |
| 2018/10/24 | 18- 0 | 5-42  | 6- 7 | 18- 1 |
| 2018/10/25 | 18-46 | 6-31  | 6- 8 | 18- 1 |
| 2018/10/26 | 19-35 | 7-24  | 6- 8 | 18- 0 |
| 2018/10/27 | 20-26 | 8-19  | 6- 8 | 18- 0 |
| 2018/10/28 | 21-22 | 9-17  | 6- 8 | 18- 0 |
| 2018/10/29 | 22-19 | 10-15 | 6- 8 | 17-59 |
| 2018/10/30 | 23-19 | 11-14 | 6- 8 | 17-59 |
| 2018/10/31 | ----- | 12-12 | 6- 8 | 17-59 |

|            |       |       |      |       |
|------------|-------|-------|------|-------|
| 2018/11/ 1 | 0-18  | 13- 7 | 6- 8 | 17-59 |
| 2018/11/ 2 | 1-16  | 13-59 | 6- 8 | 17-58 |
| 2018/11/ 3 | 2-12  | 14-49 | 6- 9 | 17-58 |
| 2018/11/ 4 | 3- 6  | 15-37 | 6- 9 | 17-58 |
| 2018/11/ 5 | 3-59  | 16-23 | 6- 9 | 17-58 |
| 2018/11/ 6 | 4-52  | 17- 9 | 6- 9 | 17-58 |
| 2018/11/ 7 | 5-44  | 17-55 | 6- 9 | 17-58 |
| 2018/11/ 8 | 6-36  | 18-42 | 6-10 | 17-58 |
| 2018/11/ 9 | 7-28  | 19-31 | 6-10 | 17-58 |
| 2018/11/10 | 8-20  | 20-20 | 6-10 | 17-57 |
| 2018/11/11 | 9-12  | 21-10 | 6-10 | 17-57 |
| 2018/11/12 | 10- 2 | 21-59 | 6-11 | 17-57 |
| 2018/11/13 | 10-50 | 22-48 | 6-11 | 17-57 |
| 2018/11/14 | 11-37 | 23-37 | 6-11 | 17-57 |
| 2018/11/15 | 12-22 | ----- | 6-12 | 17-57 |
| 2018/11/16 | 13- 5 | 0-24  | 6-12 | 17-57 |
| 2018/11/17 | 13-47 | 1-11  | 6-12 | 17-57 |
| 2018/11/18 | 14-27 | 1-57  | 6-13 | 17-57 |
| 2018/11/19 | 15- 9 | 2-43  | 6-13 | 17-57 |
| 2018/11/20 | 15-52 | 3-31  | 6-13 | 17-58 |
| 2018/11/21 | 16-36 | 4-20  | 6-14 | 17-58 |
| 2018/11/22 | 17-25 | 5-12  | 6-14 | 17-58 |
| 2018/11/23 | 18-16 | 6- 7  | 6-15 | 17-58 |
| 2018/11/24 | 19-12 | 7- 5  | 6-15 | 17-58 |
| 2018/11/25 | 20-10 | 8- 5  | 6-15 | 17-58 |
| 2018/11/26 | 21-11 | 9- 6  | 6-16 | 17-58 |
| 2018/11/27 | 22-12 | 10- 6 | 6-16 | 17-59 |
| 2018/11/28 | 23-12 | 11- 3 | 6-17 | 17-59 |
| 2018/11/29 | ----- | 11-57 | 6-17 | 17-59 |
| 2018/11/30 | 0- 8  | 12-47 | 6-18 | 17-59 |
| 2018/12/ 1 | 1- 3  | 13-35 | 6-18 | 18- 0 |
| 2018/12/ 2 | 1-56  | 14-20 | 6-18 | 18- 0 |
| 2018/12/ 3 | 2-46  | 15- 5 | 6-19 | 18- 0 |
| 2018/12/ 4 | 3-38  | 15-51 | 6-19 | 18- 1 |
| 2018/12/ 5 | 4-28  | 16-36 | 6-20 | 18- 1 |
| 2018/12/ 6 | 5-19  | 17-23 | 6-20 | 18- 1 |
| 2018/12/ 7 | 6-11  | 18-11 | 6-21 | 18- 2 |
| 2018/12/ 8 | 7- 3  | 19- 1 | 6-21 | 18- 2 |
| 2018/12/ 9 | 7-54  | 19-51 | 6-22 | 18- 2 |
| 2018/12/10 | 8-43  | 20-41 | 6-22 | 18- 3 |
| 2018/12/11 | 9-31  | 21-30 | 6-23 | 18- 3 |
| 2018/12/12 | 10-17 | 22-17 | 6-23 | 18- 3 |
| 2018/12/13 | 11- 0 | 23- 4 | 6-24 | 18- 4 |
| 2018/12/14 | 11-42 | 23-50 | 6-24 | 18- 4 |
| 2018/12/15 | 12-22 | ----- | 6-25 | 18- 5 |
| 2018/12/16 | 13- 3 | 0-35  | 6-25 | 18- 5 |
| 2018/12/17 | 13-44 | 1-22  | 6-26 | 18- 6 |
| 2018/12/18 | 14-26 | 2- 9  | 6-27 | 18- 6 |
| 2018/12/19 | 15-12 | 2-58  | 6-27 | 18- 7 |
| 2018/12/20 | 16- 1 | 3-51  | 6-28 | 18- 7 |
| 2018/12/21 | 16-55 | 4-47  | 6-28 | 18- 8 |
| 2018/12/22 | 17-53 | 5-47  | 6-29 | 18- 8 |
| 2018/12/23 | 18-55 | 6-49  | 6-29 | 18- 9 |
| 2018/12/24 | 19-58 | 7-52  | 6-30 | 18- 9 |
| 2018/12/25 | 21- 1 | 8-53  | 6-30 | 18-10 |
| 2018/12/26 | 22- 1 | 9-50  | 6-30 | 18-10 |
| 2018/12/27 | 22-58 | 10-43 | 6-31 | 18-11 |
| 2018/12/28 | 23-53 | 11-33 | 6-31 | 18-11 |
| 2018/12/29 | ----- | 12-20 | 6-32 | 18-12 |
| 2018/12/30 | 0-44  | 13- 5 | 6-32 | 18-12 |
| 2018/12/31 | 1-35  | 13-50 | 6-33 | 18-13 |

all times in local time ( = UT + 5.5h )