**TNOuka**

**Schedule from 2020-01-20 to 2020-02-01**

**(Total time = 0hr, technical loss = 0hr, weather loss = 0hr, Exotime = 0hr, cometime = 0hr, chilean time = 0hr)**

*Khalid*

**Night starting on the 2020-01-20**

Moon illumination: 19.0 %

*Sunset / Sunrise: 2020-01-20 16:17 / 2020-01-21 03:54*

*Civil/Naut./Astro. twilights: 2020-01-20 16:43/2020-01-21 03:28 , 2020-01-20 17:09/2020-01-21 03:02 , 2020-01-20 17:36/2020-01-22 02:36*

*Start-end of night (Naut. twil.): 2020-01-20 18:51:00.008 to 2020-01-21 06:33:40.021*

*Night duration (Naut. twil.): 11.711 h*

**From 2020-01-20 18:51 to 2020-01-21 00:38 : Sp0557+1708**

Note: Prio\_target

SPECULOOS : 29.0 hours of obs over 60

Jmag= 11.8, SpT= 6.0

RA=89.33 deg, DEC= 17.14 deg, Config: {'texp=55', 'filt=I+z'}

**From 2020-01-21 00:38 to 2020-01-21 06:33 : Sp1037+3011**

Note: Prio\_target

SPECULOOS : 0.0 hours of obs over 60

Jmag= 11.79, SpT= 6.1

RA=159.37 deg, DEC= 30.19 deg, Config: {'texp=55', 'filt=I+z'}

**Night starting on the 2020-01-21**

Moon illumination: 11.0 %

*Sunset / Sunrise: 2020-01-21 16:17 / 2020-01-22 03:55*

*Civil/Naut./Astro. twilights: 2020-01-21 16:43/2020-01-22 03:29 , 2020-01-21 17:09/2020-01-22 03:03 , 2020-01-21 17:36/2020-01-23 02:37*

*Start-end of night (Naut. twil.): 2020-01-21 18:52:00.008 to 2020-01-22 06:33:20.008*

*Night duration (Naut. twil.): 11.689 h*

**From 2020-01-21 18:52 to 2020-01-22 00:38 : Sp0557+1708**

Note: Prio\_target

SPECULOOS : 29.0 hours of obs over 60

Jmag= 11.8, SpT= 6.0

RA=89.33 deg, DEC= 17.14 deg, Config: {'texp=55', 'filt=I+z'}

**From 2020-01-22 00:39 to 2020-01-22 06:33 : Sp1037+3011**

Note: Prio\_target

SPECULOOS : 0.0 hours of obs over 60

Jmag= 11.79, SpT= 6.1

RA=159.37 deg, DEC= 30.19 deg, Config: {'texp=55', 'filt=I+z'}

**Night starting on the 2020-01-22**

Moon illumination: 5.0 %

*Sunset / Sunrise: 2020-01-22 16:17 / 2020-01-23 03:55*

*Civil/Naut./Astro. twilights: 2020-01-22 16:43/2020-01-23 03:29 , 2020-01-22 17:09/2020-01-23 03:03 , 2020-01-22 17:36/2020-01-24 02:37*

*Start-end of night (Naut. twil.): 2020-01-22 18:52:40.008 to 2020-01-23 06:33:00.008*

*Night duration (Naut. twil.): 11.672 h*

**From 2020-01-22 18:52 to 2020-01-23 00:38 : Sp0557+1708**

Note: Prio\_target

SPECULOOS : 29.0 hours of obs over 60

Jmag= 11.8, SpT= 6.0

RA=89.33 deg, DEC= 17.14 deg, Config: {'texp=55', 'filt=I+z'}

**From 2020-01-23 00:39 to 2020-01-23 06:33 : Sp1037+3011**

Note: Prio\_target

SPECULOOS : 0.0 hours of obs over 60

Jmag= 11.79, SpT= 6.1

RA=159.37 deg, DEC= 30.19 deg, Config: {'texp=55', 'filt=I+z'}

**Night starting on the 2020-01-23**

Moon illumination: 2.0 %

*Sunset / Sunrise: 2020-01-23 16:18 / 2020-01-24 03:55*

*Civil/Naut./Astro. twilights: 2020-01-23 16:43/2020-01-24 03:30 , 2020-01-23 17:09/2020-01-24 03:04 , 2020-01-23 17:36/2020-01-25 02:38*

*Start-end of night (Naut. twil.): 2020-01-23 18:53:20.008 to 2020-01-24 06:32:40.021*

*Night duration (Naut. twil.): 11.656 h*

**From 2020-01-23 18:53 to 2020-01-24 00:38 : Sp0557+1708**

Note: Prio\_target

SPECULOOS : 29.0 hours of obs over 60

Jmag= 11.8, SpT= 6.0

RA=89.33 deg, DEC= 17.14 deg, Config: {'texp=55', 'filt=I+z'}

**From 2020-01-24 00:39 to 2020-01-24 06:32 : Sp1037+3011**

Note: Prio\_target

SPECULOOS : 0.0 hours of obs over 60

Jmag= 11.79, SpT= 6.1

RA=159.37 deg, DEC= 30.19 deg, Config: {'texp=55', 'filt=I+z'}

**Night starting on the 2020-01-24**

Moon illumination: 0.0 %

*Sunset / Sunrise: 2020-01-24 16:18 / 2020-01-25 03:56*

*Civil/Naut./Astro. twilights: 2020-01-24 16:43/2020-01-25 03:30 , 2020-01-24 17:09/2020-01-25 03:04 , 2020-01-24 17:36/2020-01-26 02:38*

*Start-end of night (Naut. twil.): 2020-01-24 18:54:20.008 to 2020-01-25 06:32:20.008*

*Night duration (Naut. twil.): 11.633 h*

**From 2020-01-24 18:54 to 2020-01-25 00:39 : Sp0557+1708**

Note: Prio\_target

SPECULOOS : 29.0 hours of obs over 60

Jmag= 11.8, SpT= 6.0

RA=89.33 deg, DEC= 17.14 deg, Config: {'texp=55', 'filt=I+z'}

**From 2020-01-25 00:39 to 2020-01-25 06:32 : Sp1037+3011**

Note: Prio\_target

SPECULOOS : 0.0 hours of obs over 60

Jmag= 11.79, SpT= 6.1

RA=159.37 deg, DEC= 30.19 deg, Config: {'texp=55', 'filt=I+z'}

**Night starting on the 2020-01-25**

Moon illumination: 1.0 %

*Sunset / Sunrise: 2020-01-25 16:18 / 2020-01-26 03:56*

*Civil/Naut./Astro. twilights: 2020-01-25 16:44/2020-01-26 03:31 , 2020-01-25 17:09/2020-01-26 03:05 , 2020-01-25 17:36/2020-01-27 02:39*

*Start-end of night (Naut. twil.): 2020-01-25 18:55:00.008 to 2020-01-26 06:32:20.021*

*Night duration (Naut. twil.): 11.622 h*

**From 2020-01-25 18:55 to 2020-01-26 00:39 : Sp0557+1708**

Note: Prio\_target

SPECULOOS : 29.0 hours of obs over 60

Jmag= 11.8, SpT= 6.0

RA=89.33 deg, DEC= 17.14 deg, Config: {'texp=55', 'filt=I+z'}

**From 2020-01-26 00:40 to 2020-01-26 06:32 : Sp1037+3011**

Note: Prio\_target

SPECULOOS : 0.0 hours of obs over 60

Jmag= 11.79, SpT= 6.1

RA=159.37 deg, DEC= 30.19 deg, Config: {'texp=55', 'filt=I+z'}

**Night starting on the 2020-01-26**

Moon illumination: 3.0 %

*Sunset / Sunrise: 2020-01-26 16:18 / 2020-01-27 03:57*

*Civil/Naut./Astro. twilights: 2020-01-26 16:44/2020-01-27 03:31 , 2020-01-26 17:09/2020-01-27 03:05 , 2020-01-26 17:36/2020-01-28 02:39*

*Start-end of night (Naut. twil.): 2020-01-26 18:56:20.008 to 2020-01-27 06:32:00.008*

*Night duration (Naut. twil.): 11.594 h*

**From 2020-01-26 18:56 to 2020-01-27 00:40 : Sp0557+1708**

Note: Prio\_target

SPECULOOS : 29.0 hours of obs over 60

Jmag= 11.8, SpT= 6.0

RA=89.33 deg, DEC= 17.14 deg, Config: {'texp=55', 'filt=I+z'}

**From 2020-01-27 00:40 to 2020-01-27 06:32 : Sp1037+3011**

Note: Prio\_target

SPECULOOS : 0.0 hours of obs over 60

Jmag= 11.79, SpT= 6.1

RA=159.37 deg, DEC= 30.19 deg, Config: {'texp=55', 'filt=I+z'}

**Night starting on the 2020-01-27**

Moon illumination: 7.0 %

*Sunset / Sunrise: 2020-01-27 16:18 / 2020-01-28 03:57*

*Civil/Naut./Astro. twilights: 2020-01-27 16:44/2020-01-28 03:31 , 2020-01-27 17:09/2020-01-28 03:06 , 2020-01-27 17:35/2020-01-29 02:40*

*Start-end of night (Naut. twil.): 2020-01-27 18:57:20.008 to 2020-01-28 06:31:40.008*

*Night duration (Naut. twil.): 11.572 h*

**From 2020-01-27 18:57 to 2020-01-28 00:40 : Sp0557+1708**

Note: Prio\_target

SPECULOOS : 29.0 hours of obs over 60

Jmag= 11.8, SpT= 6.0

RA=89.33 deg, DEC= 17.14 deg, Config: {'texp=55', 'filt=I+z'}

**From 2020-01-28 00:40 to 2020-01-28 06:31 : Sp1037+3011**

Note: Prio\_target

SPECULOOS : 0.0 hours of obs over 60

Jmag= 11.79, SpT= 6.1

RA=159.37 deg, DEC= 30.19 deg, Config: {'texp=55', 'filt=I+z'}