**TNOuka**

**Schedule from 2020-01-28 to 2020-02-10**

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

*Manu*

**Night starting on the 2020-01-28**

*Moon illumination: 13.0 %*

*Sunset - Sunrise: 17h58 / 07h29*

*Civil/Naut./Astro. twilights: 18h28-07h00 / 18h57-06h31 / 19h26-19h26*

*Start-end of night (Naut. twil.): 18h57 to 06h31*

*Night duration (Naut. twil.): 11.556 h*

**From 18h57 to 00h40 : Sp0510+2714**

Note: Prio\_target

SPECULOOS : 40.518 h of obs over 200.0 h

Jmag= 10.7, SpT= 6.4

RA = 05 10 20.061, DEC = 27 14 1.871, texp=10 , filt=I+z

**From 00h40 to 06h31 : Sp1016+2751**

Note: Prio\_target

SPECULOOS : 52.9018 h of obs over 60.0 h

Jmag= 11.99, SpT= 6.2

RA = 10 16 34.645, DEC = 27 51 48.825, texp=10 , filt=I+z

**Night starting on the 2020-01-29**

*Moon illumination: 20.0 %*

*Sunset - Sunrise: 17h59 / 07h29*

*Civil/Naut./Astro. twilights: 18h29-06h59 / 18h58-06h30 / 19h26-19h26*

*Start-end of night (Naut. twil.): 18h58 to 06h30*

*Night duration (Naut. twil.): 11.533 h*

**From 18h58 to 00h40 : Sp0510+2714**

Note: Prio\_target

SPECULOOS : 40.518 h of obs over 200.0 h

Jmag= 10.7, SpT= 6.4

RA = 05 10 20.061, DEC = 27 14 1.871, texp=10 , filt=I+z

**From 00h41 to 06h30 : Sp1016+2751**

Note: Prio\_target

SPECULOOS : 52.9018 h of obs over 60.0 h

Jmag= 11.99, SpT= 6.2

RA = 10 16 34.645, DEC = 27 51 48.825, texp=10 , filt=I+z

**Night starting on the 2020-01-30**

*Moon illumination: 28.0 %*

*Sunset - Sunrise: 18h00 / 07h28*

*Civil/Naut./Astro. twilights: 18h29-06h59 / 18h58-06h30 / 19h27-19h27*

*Start-end of night (Naut. twil.): 18h59 to 06h30*

*Night duration (Naut. twil.): 11.511 h*

**From 18h59 to 00h40 : Sp0510+2714**

Note: Prio\_target

SPECULOOS : 40.518 h of obs over 200.0 h

Jmag= 10.7, SpT= 6.4

RA = 05 10 20.061, DEC = 27 14 1.871, texp=10 , filt=I+z

**From 00h41 to 06h30 : Sp1016+2751**

Note: Prio\_target

SPECULOOS : 52.9018 h of obs over 60.0 h

Jmag= 11.99, SpT= 6.2

RA = 10 16 34.645, DEC = 27 51 48.825, texp=10 , filt=I+z

**Night starting on the 2020-01-31**

*Moon illumination: 36.0 %*

*Sunset - Sunrise: 18h01 / 07h28*

*Civil/Naut./Astro. twilights: 18h30-06h58 / 18h59-06h29 / 19h28-19h28*

*Start-end of night (Naut. twil.): 19h00 to 06h29*

*Night duration (Naut. twil.): 11.489 h*

**From 19h00 to 00h41 : Sp0510+2714**

Note: Prio\_target

SPECULOOS : 40.518 h of obs over 200.0 h

Jmag= 10.7, SpT= 6.4

RA = 05 10 20.061, DEC = 27 14 1.871, texp=10 , filt=I+z

**From 00h41 to 06h29 : Sp1016+2751**

Note: Prio\_target

SPECULOOS : 52.9018 h of obs over 60.0 h

Jmag= 11.99, SpT= 6.2

RA = 10 16 34.645, DEC = 27 51 48.825, texp=10 , filt=I+z

**Night starting on the 2020-02-01**

*Moon illumination: 46.0 %*

*Sunset - Sunrise: 18h02 / 07h27*

*Civil/Naut./Astro. twilights: 18h31-06h58 / 19h00-06h29 / 19h29-19h29*

*Start-end of night (Naut. twil.): 19h00 to 06h28*

*Night duration (Naut. twil.): 11.467 h*

**From 19h00 to 00h40 : Sp0510+2714**

Note: Prio\_target

SPECULOOS : 40.518 h of obs over 200.0 h

Jmag= 10.7, SpT= 6.4

RA = 05 10 20.061, DEC = 27 14 1.871, texp=10 , filt=I+z

**From 00h41 to 06h28 : Sp1016+2751**

Note: Prio\_target

SPECULOOS : 52.9018 h of obs over 60.0 h

Jmag= 11.99, SpT= 6.2

RA = 10 16 34.645, DEC = 27 51 48.825, texp=10 , filt=I+z

**Night starting on the 2020-02-02**

*Moon illumination: 56.0 %*

*Sunset - Sunrise: 18h02 / 07h26*

*Civil/Naut./Astro. twilights: 18h32-06h57 / 19h01-06h28 / 19h29-19h29*

*Start-end of night (Naut. twil.): 19h01 to 06h28*

*Night duration (Naut. twil.): 11.444 h*

**From 19h01 to 00h41 : Sp0714+3702**

Note: Prio\_target

SPECULOOS : 17.0 h of obs over 200.0 h

Jmag= 11.98, SpT= 7.5

RA = 07 14 3.919, DEC = 37 02 46.025, texp=55 , filt=I+z

**From 00h41 to 06h28 : Sp1016+2751**

Note: Prio\_target

SPECULOOS : 52.9018 h of obs over 60.0 h

Jmag= 11.99, SpT= 6.2

RA = 10 16 34.645, DEC = 27 51 48.825, texp=10 , filt=I+z

**Night starting on the 2020-02-03**

*Moon illumination: 65.0 %*

*Sunset - Sunrise: 18h03 / 07h26*

*Civil/Naut./Astro. twilights: 18h33-06h56 / 19h02-06h27 / 19h30-19h30*

*Start-end of night (Naut. twil.): 19h02 to 06h27*

*Night duration (Naut. twil.): 11.422 h*

**From 19h02 to 00h41 : Sp0714+3702**

Note: Prio\_target

SPECULOOS : 17.0 h of obs over 200.0 h

Jmag= 11.98, SpT= 7.5

RA = 07 14 3.919, DEC = 37 02 46.025, texp=55 , filt=I+z

**From 00h41 to 06h27 : Sp1016+2751**

Note: Prio\_target

SPECULOOS : 52.9018 h of obs over 60.0 h

Jmag= 11.99, SpT= 6.2

RA = 10 16 34.645, DEC = 27 51 48.825, texp=10 , filt=I+z

**Night starting on the 2020-02-04**

*Moon illumination: 75.0 %*

*Sunset - Sunrise: 18h04 / 07h25*

*Civil/Naut./Astro. twilights: 18h34-06h56 / 19h03-06h27 / 19h31-19h31*

*Start-end of night (Naut. twil.): 19h03 to 06h27*

*Night duration (Naut. twil.): 11.4 h*

**From 19h03 to 00h41 : Sp0714+3702**

Note: Prio\_target

SPECULOOS : 17.0 h of obs over 200.0 h

Jmag= 11.98, SpT= 7.5

RA = 07 14 3.919, DEC = 37 02 46.025, texp=55 , filt=I+z

**From 00h41 to 06h27 : Sp1016+2751**

Note: Prio\_target

SPECULOOS : 52.9018 h of obs over 60.0 h

Jmag= 11.99, SpT= 6.2

RA = 10 16 34.645, DEC = 27 51 48.825, texp=10 , filt=I+z

**Night starting on the 2020-02-05**

*Moon illumination: 83.0 %*

*Sunset - Sunrise: 18h05 / 07h24*

*Civil/Naut./Astro. twilights: 18h34-06h55 / 19h03-06h26 / 19h32-19h32*

*Start-end of night (Naut. twil.): 19h26 to 06h27*

*Night duration (Naut. twil.): 11.011 h*

**From 19h26 to 00h41 : Sp0840+1824**

Note: Prio\_target

SPECULOOS : 66.343 h of obs over 200.0 h

Jmag= 11.05, SpT= 6.0

RA = 08 40 29.635, DEC = 18 24 8.727, texp=15 , filt=I+z

**From 00h42 to 06h27 : Sp1016+2751**

Note: Prio\_target

SPECULOOS : 52.9018 h of obs over 60.0 h

Jmag= 11.99, SpT= 6.2

RA = 10 16 34.645, DEC = 27 51 48.825, texp=10 , filt=I+z

**Night starting on the 2020-02-06**

*Moon illumination: 91.0 %*

*Sunset - Sunrise: 18h06 / 07h24*

*Civil/Naut./Astro. twilights: 18h35-06h54 / 19h04-06h26 / 19h33-19h33*

*Start-end of night (Naut. twil.): 19h05 to 06h26*

*Night duration (Naut. twil.): 11.35 h*

**From 19h05 to 00h41 : Sp0516+5640**

Note: Prio\_target

SPECULOOS : 14.75 h of obs over 60.0 h

Jmag= 11.17, SpT= 6.0

RA = 05 16 53.594, DEC = 56 40 19.217, texp=10 , filt=I+z

**From 00h42 to 06h26 : Sp1153+0659**

Note: Prio\_target

SPECULOOS : 60.157 h of obs over 60.0 h

Jmag= 11.26, SpT= 6.1

RA = 11 53 52.677, DEC = 06 59 56.258, texp=15 , filt=I+z

**Night starting on the 2020-02-07**

*Moon illumination: 96.0 %*

*Sunset - Sunrise: 18h07 / 07h23*

*Civil/Naut./Astro. twilights: 18h36-06h54 / 19h05-06h25 / 19h33-19h33*

*Start-end of night (Naut. twil.): 19h05 to 06h25*

*Night duration (Naut. twil.): 11.333 h*

**From 19h05 to 00h41 : Sp0510+2714**

Note: Prio\_target

SPECULOOS : 40.518 h of obs over 200.0 h

Jmag= 10.7, SpT= 6.4

RA = 05 10 20.061, DEC = 27 14 1.871, texp=10 , filt=I+z

**From 00h42 to 06h25 : Sp1153+0659**

Note: Prio\_target

SPECULOOS : 60.157 h of obs over 60.0 h

Jmag= 11.26, SpT= 6.1

RA = 11 53 52.677, DEC = 06 59 56.258, texp=15 , filt=I+z

**Night starting on the 2020-02-08**

*Moon illumination: 99.0 %*

*Sunset - Sunrise: 18h08 / 07h22*

*Civil/Naut./Astro. twilights: 18h37-06h53 / 19h06-06h24 / 19h34-19h34*

*Start-end of night (Naut. twil.): 19h06 to 06h25*

*Night duration (Naut. twil.): 11.306 h*

**From 19h06 to 00h41 : Sp0510+2714**

Note: Prio\_target

SPECULOOS : 40.518 h of obs over 200.0 h

Jmag= 10.7, SpT= 6.4

RA = 05 10 20.061, DEC = 27 14 1.871, texp=10 , filt=I+z

**From 00h42 to 06h25 : Sp1153+0659**

Note: Prio\_target

SPECULOOS : 60.157 h of obs over 60.0 h

Jmag= 11.26, SpT= 6.1

RA = 11 53 52.677, DEC = 06 59 56.258, texp=15 , filt=I+z

**Night starting on the 2020-02-09**

*Moon illumination: 100.0 %*

*Sunset - Sunrise: 18h09 / 07h21*

*Civil/Naut./Astro. twilights: 18h38-06h52 / 19h06-06h24 / 19h35-19h35*

*Start-end of night (Naut. twil.): 19h07 to 06h24*

*Night duration (Naut. twil.): 11.283 h*

**From 19h07 to 22h58 : Sp0510+2714**

Note: Prio\_target

SPECULOOS : 40.518 h of obs over 200.0 h

Jmag= 10.7, SpT= 6.4

RA = 05 10 20.061, DEC = 27 14 1.871, texp=10 , filt=I+z

**From 00h05 to 06h24 : Sp1223-0858**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 60.0 h

Jmag= 11.86, SpT= 6.4

RA = 12 23 52.074, DEC = -8 58 43.502, texp=10 , filt=I+z