**TN\_Oukaimeden**

**Schedule from 2020-07-01 to 2020-08-01**

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

**Night starting on the 2020-07-01**

*Moon illumination: 85.0 %*

*Sunset - Sunrise: 19h35 / 05h35*

*Civil/Naut./Astro. twilights: 20h07-05h03 / 20h41-04h29 / 21h17-03h53*

*Start-end of night (Naut. twil.): 20h41 to 04h29*

*Night duration (Naut. twil.): 7.811 h*

**From 20h41 to 01h10 : Sp2000+3057**

Note: Prio\_target

SPECULOOS : 77.5 h of obs over 200.0 h

Jmag= 10.67, SpT= 6.1

RA = 20 00 5.763, DEC = 30 57 32.101, filt=I+z , texp=20

**From 01h10 to 04h29 : Trappist-1h**

Note: Prio\_target

SPECULOOS : 1000.0 h of obs over 200.0 h

Jmag= 11.35, SpT= 7.4

RA = 23 06 29.372, DEC = -5 02 29.032, filt=I+z , texp=23

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

*Moon illumination: 92.0 %*

*Sunset - Sunrise: 19h35 / 05h36*

*Civil/Naut./Astro. twilights: 20h07-05h04 / 20h41-04h30 / 21h17-03h54*

*Start-end of night (Naut. twil.): 20h41 to 04h30*

*Night duration (Naut. twil.): 7.821 h*

**From 20h41 to 04h30 : Sp2000+3057**

Note: Prio\_target

SPECULOOS : 77.5 h of obs over 200.0 h

Jmag= 10.67, SpT= 6.1

RA = 20 00 5.763, DEC = 30 57 32.101, filt=I+z , texp=20

**Night starting on the 2020-07-03**

*Moon illumination: 97.0 %*

*Sunset - Sunrise: 19h35 / 05h36*

*Civil/Naut./Astro. twilights: 20h07-05h04 / 20h40-04h30 / 21h17-03h54*

*Start-end of night (Naut. twil.): 20h41 to 04h30*

*Night duration (Naut. twil.): 7.832 h*

**From 20h41 to 04h30 : Sp2000+3057**

Note: Prio\_target

SPECULOOS : 77.5 h of obs over 200.0 h

Jmag= 10.67, SpT= 6.1

RA = 20 00 5.763, DEC = 30 57 32.101, filt=I+z , texp=20

**Night starting on the 2020-07-04**

*Moon illumination: 100.0 %*

*Sunset - Sunrise: 19h34 / 05h37*

*Civil/Naut./Astro. twilights: 20h07-05h05 / 20h40-04h31 / 21h17-03h55*

*Start-end of night (Naut. twil.): 20h41 to 04h31*

*Night duration (Naut. twil.): 7.844 h*

**From 20h41 to 04h31 : Sp2000+3057**

Note: Prio\_target

SPECULOOS : 77.5 h of obs over 200.0 h

Jmag= 10.67, SpT= 6.1

RA = 20 00 5.763, DEC = 30 57 32.101, filt=I+z , texp=20

**Night starting on the 2020-07-05**

*Moon illumination: 100.0 %*

*Sunset - Sunrise: 19h34 / 05h37*

*Civil/Naut./Astro. twilights: 20h06-05h05 / 20h40-04h32 / 21h16-03h55*

*Start-end of night (Naut. twil.): 20h40 to 04h31*

*Night duration (Naut. twil.): 7.857 h*

**From 20h40 to 00h46 : Sp2000+3057**

Note: Prio\_target

SPECULOOS : 77.5 h of obs over 200.0 h

Jmag= 10.67, SpT= 6.1

RA = 20 00 5.763, DEC = 30 57 32.101, filt=I+z , texp=20

**From 00h46 to 04h31 : Trappist-1g**

Note: Prio\_target

SPECULOOS : 1000.0 h of obs over 200.0 h

Jmag= 11.35, SpT= 7.4

RA = 23 06 29.372, DEC = -5 02 29.032, filt=I+z , texp=23

**Night starting on the 2020-07-06**

*Moon illumination: 98.0 %*

*Sunset - Sunrise: 19h34 / 05h38*

*Civil/Naut./Astro. twilights: 20h06-05h06 / 20h40-04h32 / 21h16-03h56*

*Start-end of night (Naut. twil.): 20h40 to 04h32*

*Night duration (Naut. twil.): 7.87 h*

**From 20h40 to 04h32 : Sp2000+3057**

Note: Prio\_target

SPECULOOS : 77.5 h of obs over 200.0 h

Jmag= 10.67, SpT= 6.1

RA = 20 00 5.763, DEC = 30 57 32.101, filt=I+z , texp=20

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

*Moon illumination: 93.0 %*

*Sunset - Sunrise: 19h34 / 05h38*

*Civil/Naut./Astro. twilights: 20h06-05h06 / 20h40-04h33 / 21h16-03h57*

*Start-end of night (Naut. twil.): 20h40 to 04h33*

*Night duration (Naut. twil.): 7.884 h*

**From 20h40 to 04h33 : Sp2000+3057**

Note: Prio\_target

SPECULOOS : 77.5 h of obs over 200.0 h

Jmag= 10.67, SpT= 6.1

RA = 20 00 5.763, DEC = 30 57 32.101, filt=I+z , texp=20

**Night starting on the 2020-07-08**

*Moon illumination: 87.0 %*

*Sunset - Sunrise: 19h34 / 05h39*

*Civil/Naut./Astro. twilights: 20h06-05h07 / 20h39-04h33 / 21h15-03h57*

*Start-end of night (Naut. twil.): 20h40 to 04h33*

*Night duration (Naut. twil.): 7.899 h*

**From 20h40 to 04h33 : Sp2000+3057**

Note: Prio\_target

SPECULOOS : 77.5 h of obs over 200.0 h

Jmag= 10.67, SpT= 6.1

RA = 20 00 5.763, DEC = 30 57 32.101, filt=I+z , texp=20

**Night starting on the 2020-07-09**

*Moon illumination: 80.0 %*

*Sunset - Sunrise: 19h34 / 05h39*

*Civil/Naut./Astro. twilights: 20h06-05h07 / 20h39-04h34 / 21h15-03h58*

*Start-end of night (Naut. twil.): 20h39 to 04h34*

*Night duration (Naut. twil.): 7.915 h*

**From 20h39 to 04h34 : Sp1757+7042**

Note: Prio\_target

SPECULOOS : 63.75 h of obs over 200.0 h

Jmag= 11.45, SpT= 5.3

RA = 17 57 15.418, DEC = 70 42 1.117, filt=I+z , texp=38

**Night starting on the 2020-07-10**

*Moon illumination: 72.0 %*

*Sunset - Sunrise: 19h33 / 05h40*

*Civil/Naut./Astro. twilights: 20h05-05h08 / 20h39-04h35 / 21h14-03h59*

*Start-end of night (Naut. twil.): 20h39 to 04h34*

*Night duration (Naut. twil.): 7.932 h*

**From 20h39 to 04h34 : Sp1757+7042**

Note: Prio\_target

SPECULOOS : 63.75 h of obs over 200.0 h

Jmag= 11.45, SpT= 5.3

RA = 17 57 15.418, DEC = 70 42 1.117, filt=I+z , texp=38

**Night starting on the 2020-07-11**

*Moon illumination: 63.0 %*

*Sunset - Sunrise: 19h33 / 05h40*

*Civil/Naut./Astro. twilights: 20h05-05h08 / 20h38-04h35 / 21h14-04h00*

*Start-end of night (Naut. twil.): 20h39 to 04h35*

*Night duration (Naut. twil.): 7.949 h*

**From 20h39 to 04h35 : Sp1757+7042**

Note: Prio\_target

SPECULOOS : 63.75 h of obs over 200.0 h

Jmag= 11.45, SpT= 5.3

RA = 17 57 15.418, DEC = 70 42 1.117, filt=I+z , texp=38

**Night starting on the 2020-07-12**

*Moon illumination: 53.0 %*

*Sunset - Sunrise: 19h33 / 05h41*

*Civil/Naut./Astro. twilights: 20h05-05h09 / 20h38-04h36 / 21h13-04h00*

*Start-end of night (Naut. twil.): 20h38 to 04h36*

*Night duration (Naut. twil.): 7.967 h*

**From 20h38 to 04h36 : Sp1757+7042**

Note: Prio\_target

SPECULOOS : 63.75 h of obs over 200.0 h

Jmag= 11.45, SpT= 5.3

RA = 17 57 15.418, DEC = 70 42 1.117, filt=I+z , texp=38

**Night starting on the 2020-07-13**

*Moon illumination: 44.0 %*

*Sunset - Sunrise: 19h33 / 05h41*

*Civil/Naut./Astro. twilights: 20h04-05h10 / 20h37-04h36 / 21h13-04h01*

*Start-end of night (Naut. twil.): 20h38 to 04h36*

*Night duration (Naut. twil.): 7.985 h*

**From 20h38 to 04h36 : Sp1757+7042**

Note: Prio\_target

SPECULOOS : 63.75 h of obs over 200.0 h

Jmag= 11.45, SpT= 5.3

RA = 17 57 15.418, DEC = 70 42 1.117, filt=I+z , texp=38

**Night starting on the 2020-07-14**

*Moon illumination: 35.0 %*

*Sunset - Sunrise: 19h32 / 05h42*

*Civil/Naut./Astro. twilights: 20h04-05h10 / 20h37-04h37 / 21h12-04h02*

*Start-end of night (Naut. twil.): 20h37 to 04h37*

*Night duration (Naut. twil.): 8.005 h*

**From 20h37 to 04h37 : Sp1757+7042**

Note: Prio\_target

SPECULOOS : 63.75 h of obs over 200.0 h

Jmag= 11.45, SpT= 5.3

RA = 17 57 15.418, DEC = 70 42 1.117, filt=I+z , texp=38

**Night starting on the 2020-07-15**

*Moon illumination: 26.0 %*

*Sunset - Sunrise: 19h32 / 05h42*

*Civil/Naut./Astro. twilights: 20h03-05h11 / 20h36-04h38 / 21h12-04h03*

*Start-end of night (Naut. twil.): 20h37 to 04h38*

*Night duration (Naut. twil.): 8.025 h*

**From 20h37 to 04h38 : Sp1757+7042**

Note: Prio\_target

SPECULOOS : 63.75 h of obs over 200.0 h

Jmag= 11.45, SpT= 5.3

RA = 17 57 15.418, DEC = 70 42 1.117, filt=I+z , texp=38

**Night starting on the 2020-07-16**

*Moon illumination: 18.0 %*

*Sunset - Sunrise: 19h31 / 05h43*

*Civil/Naut./Astro. twilights: 20h03-05h12 / 20h36-04h39 / 21h11-04h03*

*Start-end of night (Naut. twil.): 20h37 to 04h39*

*Night duration (Naut. twil.): 8.045 h*

**From 20h37 to 04h39 : Sp1757+7042**

Note: Prio\_target

SPECULOOS : 63.75 h of obs over 200.0 h

Jmag= 11.45, SpT= 5.3

RA = 17 57 15.418, DEC = 70 42 1.117, filt=I+z , texp=38

**Night starting on the 2020-07-17**

*Moon illumination: 11.0 %*

*Sunset - Sunrise: 19h31 / 05h44*

*Civil/Naut./Astro. twilights: 20h02-05h12 / 20h35-04h39 / 21h10-04h04*

*Start-end of night (Naut. twil.): 20h36 to 04h40*

*Night duration (Naut. twil.): 8.066 h*

**From 20h36 to 00h27 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**From 00h27 to 04h40 : Sp2335-0223**

Note: Prio\_target

SPECULOOS : 3.0 h of obs over 200.0 h

Jmag= 9.15, SpT= 4.9

RA = 23 35 10.463, DEC = -2 23 20.615, texp=28 , filt=r

**Night starting on the 2020-07-18**

*Moon illumination: 5.0 %*

*Sunset - Sunrise: 19h31 / 05h44*

*Civil/Naut./Astro. twilights: 20h02-05h13 / 20h35-04h40 / 21h10-04h05*

*Start-end of night (Naut. twil.): 20h35 to 04h40*

*Night duration (Naut. twil.): 8.088 h*

**From 20h35 to 04h40 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-19**

*Moon illumination: 1.0 %*

*Sunset - Sunrise: 19h30 / 05h45*

*Civil/Naut./Astro. twilights: 20h01-05h13 / 20h34-04h41 / 21h09-04h06*

*Start-end of night (Naut. twil.): 20h34 to 04h41*

*Night duration (Naut. twil.): 8.111 h*

**From 20h34 to 04h41 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-20**

*Moon illumination: 0.0 %*

*Sunset - Sunrise: 19h30 / 05h45*

*Civil/Naut./Astro. twilights: 20h01-05h14 / 20h34-04h42 / 21h08-04h07*

*Start-end of night (Naut. twil.): 20h34 to 04h42*

*Night duration (Naut. twil.): 8.134 h*

**From 20h34 to 04h42 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-21**

*Moon illumination: 1.0 %*

*Sunset - Sunrise: 19h29 / 05h46*

*Civil/Naut./Astro. twilights: 20h00-05h15 / 20h33-04h42 / 21h07-04h08*

*Start-end of night (Naut. twil.): 20h33 to 04h42*

*Night duration (Naut. twil.): 8.157 h*

**From 20h33 to 04h42 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-22**

*Moon illumination: 5.0 %*

*Sunset - Sunrise: 19h29 / 05h47*

*Civil/Naut./Astro. twilights: 20h00-05h15 / 20h32-04h43 / 21h07-04h09*

*Start-end of night (Naut. twil.): 20h33 to 04h43*

*Night duration (Naut. twil.): 8.181 h*

**From 20h33 to 04h43 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-23**

*Moon illumination: 11.0 %*

*Sunset - Sunrise: 19h28 / 05h47*

*Civil/Naut./Astro. twilights: 19h59-05h16 / 20h31-04h44 / 21h06-04h10*

*Start-end of night (Naut. twil.): 20h32 to 04h44*

*Night duration (Naut. twil.): 8.206 h*

**From 20h32 to 04h44 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-24**

*Moon illumination: 19.0 %*

*Sunset - Sunrise: 19h27 / 05h48*

*Civil/Naut./Astro. twilights: 19h58-05h17 / 20h31-04h45 / 21h05-04h10*

*Start-end of night (Naut. twil.): 20h32 to 04h45*

*Night duration (Naut. twil.): 8.231 h*

**From 20h32 to 23h35 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**From 23h35 to 03h09 : Trappist-1c**

Note: Prio\_target

SPECULOOS : 1000.0 h of obs over 200.0 h

Jmag= 11.35, SpT= 7.4

RA = 23 06 29.372, DEC = -5 02 29.032, filt=I+z , texp=23

**Night starting on the 2020-07-25**

*Moon illumination: 29.0 %*

*Sunset - Sunrise: 19h27 / 05h48*

*Civil/Naut./Astro. twilights: 19h58-05h18 / 20h30-04h45 / 21h04-04h11*

*Start-end of night (Naut. twil.): 20h31 to 04h46*

*Night duration (Naut. twil.): 8.257 h*

**From 20h31 to 04h46 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-26**

*Moon illumination: 40.0 %*

*Sunset - Sunrise: 19h26 / 05h49*

*Civil/Naut./Astro. twilights: 19h57-05h18 / 20h29-04h46 / 21h03-04h12*

*Start-end of night (Naut. twil.): 20h30 to 04h46*

*Night duration (Naut. twil.): 8.283 h*

**From 20h30 to 04h46 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-27**

*Moon illumination: 51.0 %*

*Sunset - Sunrise: 19h26 / 05h50*

*Civil/Naut./Astro. twilights: 19h56-05h19 / 20h28-04h47 / 21h02-04h13*

*Start-end of night (Naut. twil.): 20h29 to 04h47*

*Night duration (Naut. twil.): 8.31 h*

**From 20h29 to 04h47 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-28**

*Moon illumination: 63.0 %*

*Sunset - Sunrise: 19h25 / 05h50*

*Civil/Naut./Astro. twilights: 19h56-05h20 / 20h27-04h48 / 21h01-04h14*

*Start-end of night (Naut. twil.): 20h28 to 04h48*

*Night duration (Naut. twil.): 8.336 h*

**From 20h28 to 04h48 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-29**

*Moon illumination: 73.0 %*

*Sunset - Sunrise: 19h24 / 05h51*

*Civil/Naut./Astro. twilights: 19h55-05h20 / 20h27-04h48 / 21h00-04h15*

*Start-end of night (Naut. twil.): 20h27 to 04h49*

*Night duration (Naut. twil.): 8.364 h*

**From 20h27 to 04h49 : Sp2049+3336**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 11.5, SpT= 6.0

RA = 20 49 27.397, DEC = 33 36 50.967, filt=I+z , texp=20

**Night starting on the 2020-07-30**

*Moon illumination: 82.0 %*

*Sunset - Sunrise: 19h23 / 05h52*

*Civil/Naut./Astro. twilights: 19h54-05h21 / 20h26-04h49 / 20h59-04h16*

*Start-end of night (Naut. twil.): 20h27 to 04h50*

*Night duration (Naut. twil.): 8.392 h*

**From 20h27 to 23h55 : Sp1953+4424\_2**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 8.28, SpT= 5.2

RA = 19 53 55.284, DEC = 44 24 54.144, filt=r , texp=29

**From 23h56 to 04h50 : Sp2335-0223**

Note: Prio\_target

SPECULOOS : 3.0 h of obs over 200.0 h

Jmag= 9.15, SpT= 4.9

RA = 23 35 10.463, DEC = -2 23 20.615, texp=28 , filt=r

**Night starting on the 2020-07-31**

*Moon illumination: 90.0 %*

*Sunset - Sunrise: 19h23 / 05h52*

*Civil/Naut./Astro. twilights: 19h53-05h22 / 20h25-04h50 / 20h58-04h17*

*Start-end of night (Naut. twil.): 20h26 to 04h50*

*Night duration (Naut. twil.): 8.42 h*

**From 20h26 to 04h50 : Sp1953+4424\_2**

Note: Prio\_target

SPECULOOS : 0.0 h of obs over 200.0 h

Jmag= 8.28, SpT= 5.2

RA = 19 53 55.284, DEC = 44 24 54.144, filt=r , texp=29