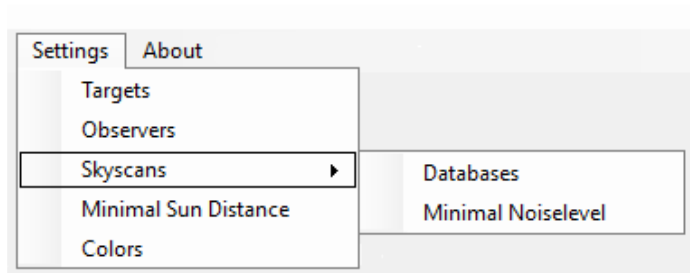


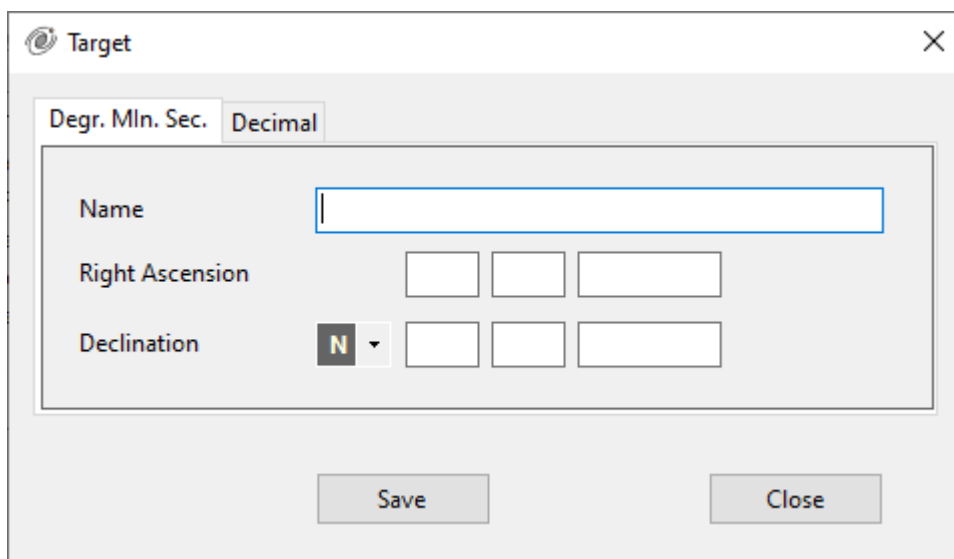
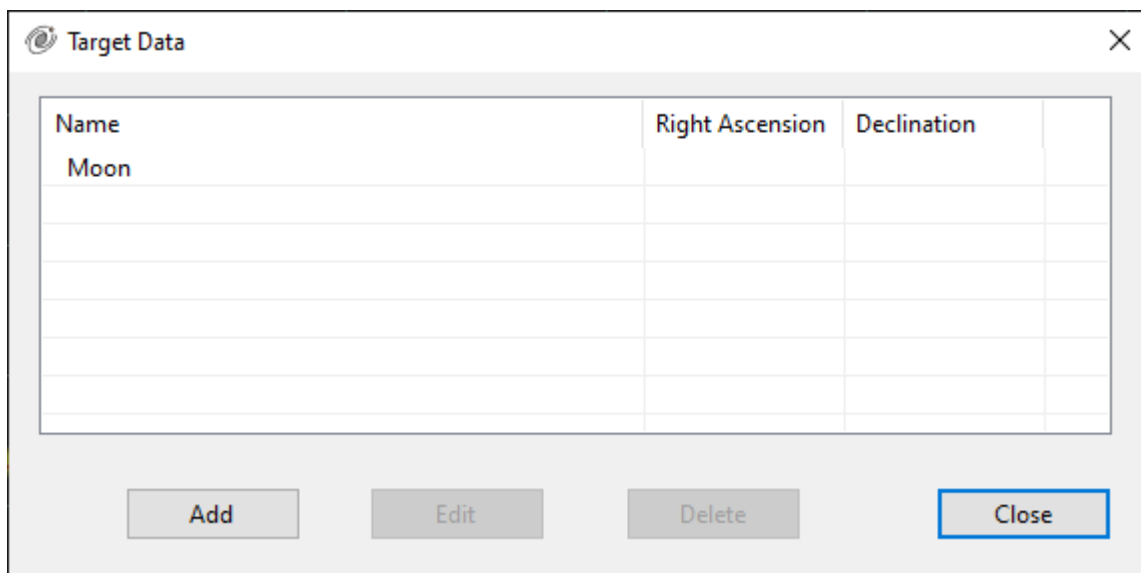
A simple program to see if it makes sense to make a connection via the moon in your own environment.

Menu Settings



With **Targets** can also optionally add, modify and remove celestial bodies. With the moon, removal is not possible.

The position can be set with degrees, minutes, seconds and decimal degrees.



The own location can be set with **Observers**

Location	Latitude	Longitude	Height
HN50AA00	40.000000	-30.000000	0

Add Edit Delete Close

QTH locator Degr. Min. Sec. Decimal

Location

Locator

Height (m)

Save Close

The location can be set with QTH, degrees, minutes, seconds and decimal degrees to the correct values for your own location.

With **SkyScans/Databases**, an exported database from SkyScanner e.g. “Exported database - 2025-01-15 22.19.49.csv” can be added. The Data folder is checked first, but such a file can also be selected in another folder.

File	Scandate	Frequency	Max. Noiselevel	Min. Noiselevel	Zones

Add Remove Close

With **SkyScans/Minimal Noise Level**, you can select a higher minimum noise level.

In some environments, the difference in levels is so small that it makes sense to select a higher level to achieve a continuous period.

Minimal Noiselevel

Noiselevel

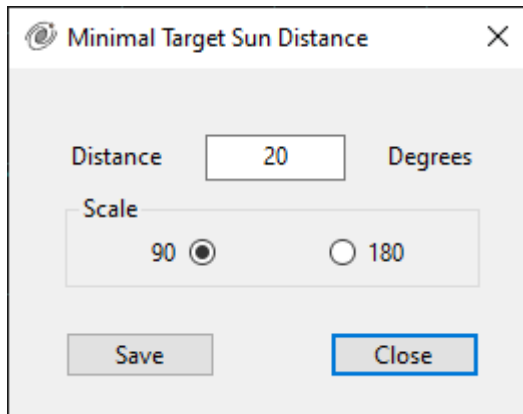
Minimal -32,80 dBm

Maximal -27,89 dBm

- ☐ -32,35 dBm
- ☒ -31,91 dBm
- ☐ -31,46 dBm
- ☐ -31,01 dBm
- ☐ -30,57 dBm
- ☐ -30,12 dBm
- ☐ -29,68 dBm
- ☐ -29,23 dBm
- ☐ -28,78 dBm
- ☐ -27,89 dBm

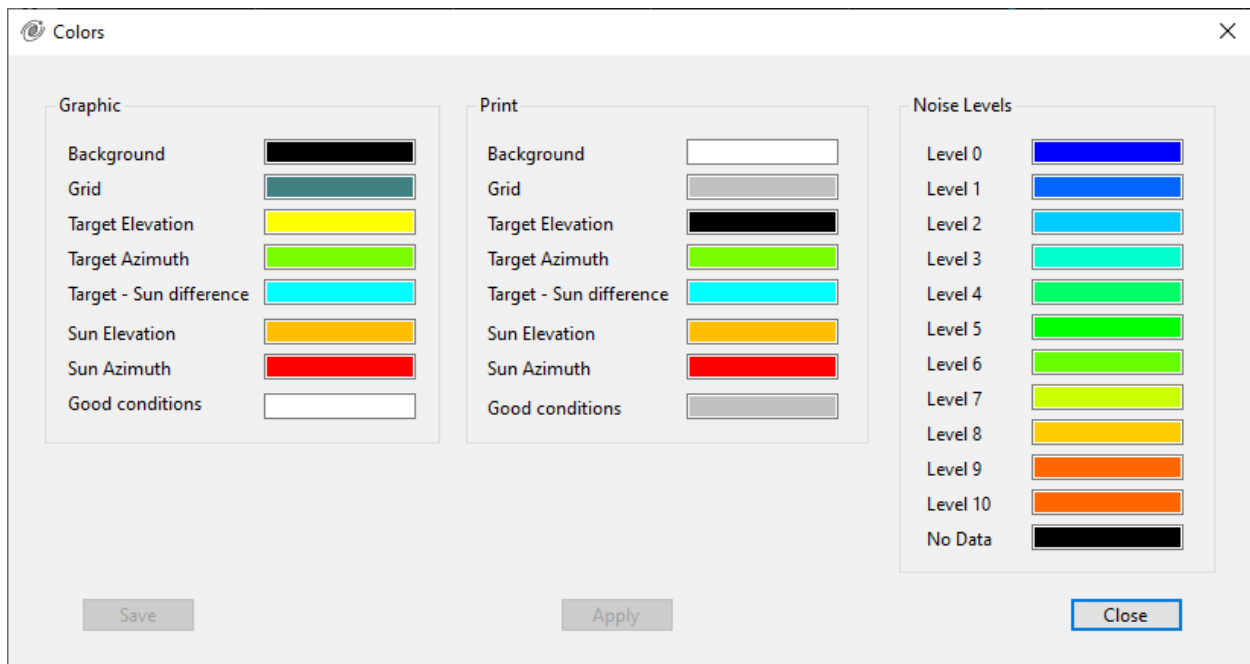
Save Close

With **Minimal Target Sun Distance** you can set when it makes no sense to make a connection via the moon if the sun is too close to the moon. The Distance Moon – Sun graph will then turn red. SkyScanner has the ability to scan around the sun. This allows you to determine when the noise level from the sun no longer affects receiving. You can also set the maximum value for the graph to 90 or 180 degrees here.



A dialog box titled "Minimal Target Sun Distance" with a close button (X) in the top right corner. It contains a "Distance" input field with the value "20" and the unit "Degrees". Below this is a "Scale" section with two radio buttons: "90" (which is selected) and "180". At the bottom are "Save" and "Close" buttons.

Finally, **Colors** allows you to set all the graph colors and the Skyscanner Noise Levels.



A dialog box titled "Colors" with a close button (X) in the top right corner. It is divided into three main sections: "Graphic", "Print", and "Noise Levels".

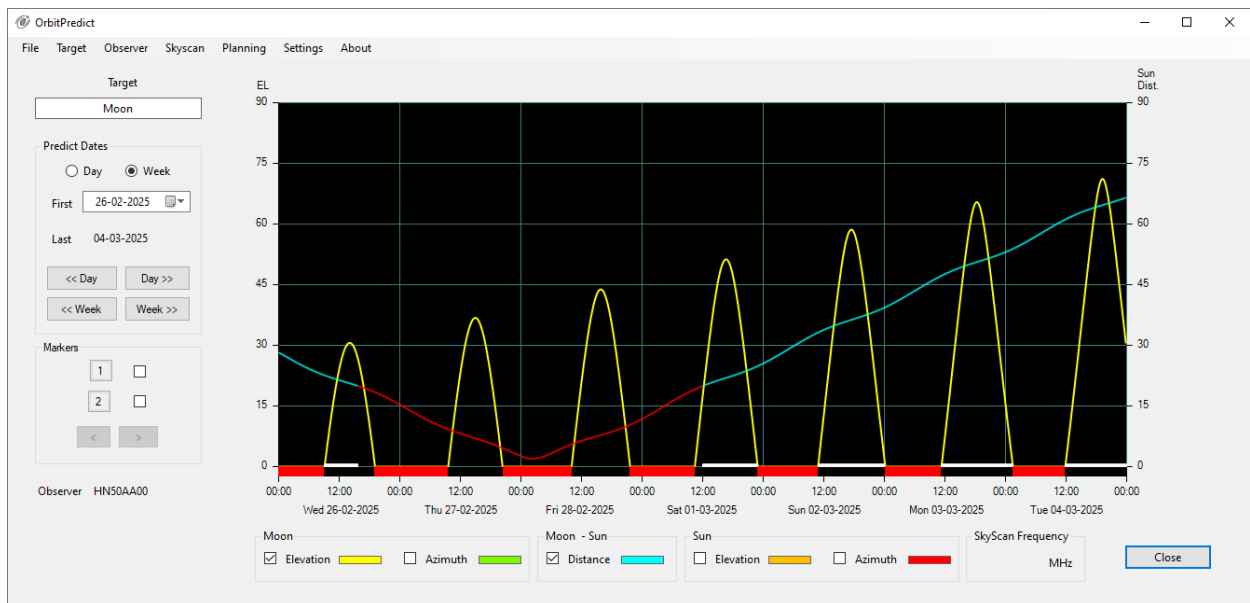
- Graphic**: Contains color selection boxes for Background (black), Grid (dark grey), Target Elevation (yellow), Target Azimuth (green), Target - Sun difference (cyan), Sun Elevation (orange), Sun Azimuth (red), and Good conditions (white).
- Print**: Contains color selection boxes for Background (white), Grid (grey), Target Elevation (black), Target Azimuth (green), Target - Sun difference (cyan), Sun Elevation (orange), Sun Azimuth (red), and Good conditions (grey).
- Noise Levels**: Contains color selection boxes for Level 0 (blue), Level 1 (blue), Level 2 (cyan), Level 3 (cyan), Level 4 (green), Level 5 (green), Level 6 (green), Level 7 (yellow-green), Level 8 (yellow), Level 9 (orange), Level 10 (orange), and No Data (black).

At the bottom are "Save", "Apply", and "Close" buttons.

Usage

When the application is started, depending on how a previous session was closed, the daily or weekly overview will be presented. By default, the weekly overview and the elevation of the moon and the distance between the sun and the moon are selected.

Weekly overview



The weekly overview starts then with today's date.

The white bar indicates when the distance between the sun and the moon is more than the minimum distance.

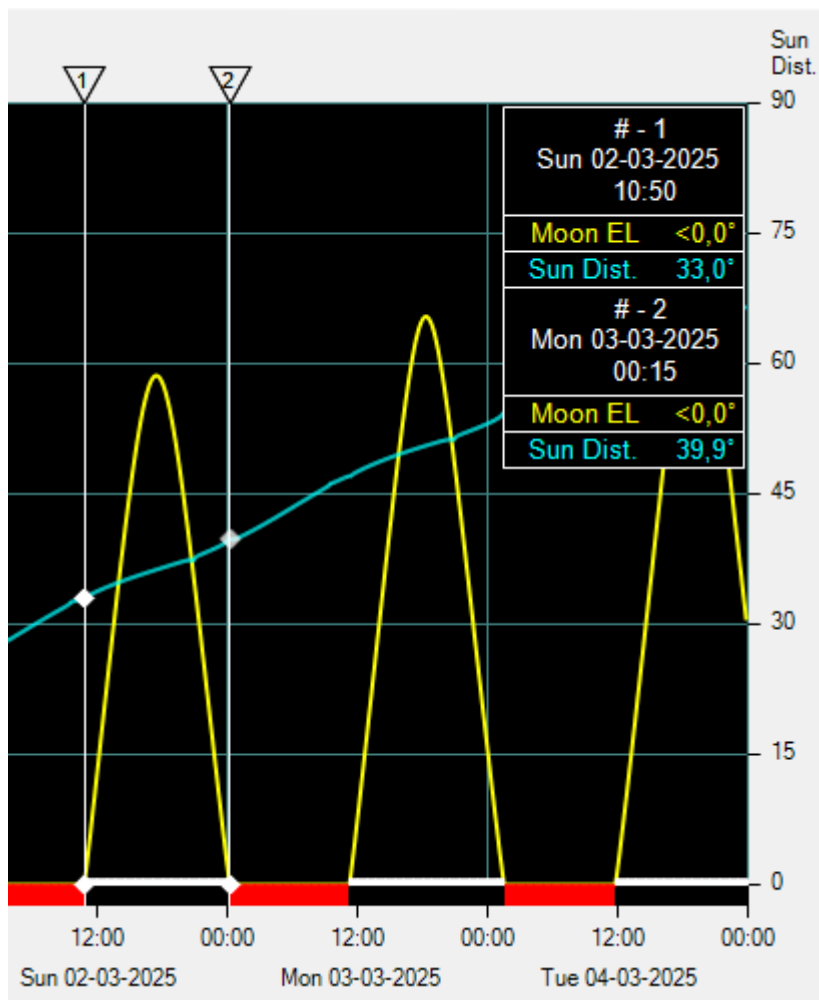
The bar below that's for SkyScanner data. If that's not available as in this example, it is red when the moon is below the horizon and black to indicate that there is no SkyScanner data.

This close-up shows the 'Predict Dates' section. It includes radio buttons for 'Day' and 'Week', with 'Week' selected. The 'First' date is 26-02-2025 and the 'Last' date is 04-03-2025. Below these are four buttons: '<< Day', 'Day >>', '<< Week', and 'Week >>'.

With First you can set a different date for the first day and with the buttons <<Day Day >> and <<Week Week >> you can shift the overview forward and backward one day or week respectively.

This close-up shows the 'Markers' section. It includes two markers, 1 and 2, each with an unchecked checkbox. Below these are two buttons: '<' and '>'.

2 markers can be set to get more information from a certain point in the graph.

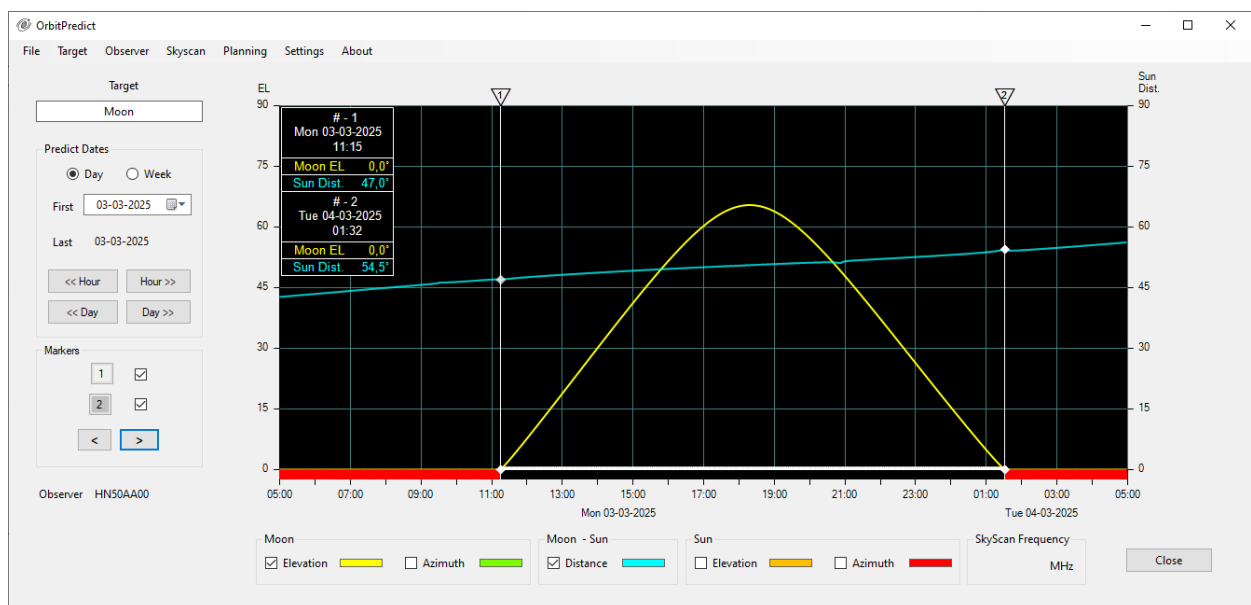


If the checkbox for a marker is selected, the marker is positioned at the beginning of the graph and can then be moved to a certain position with the mouse and placed with a click of the left mouse button. The marker then can be moved by dragging the relevant triangle at the top of the graph with the left mouse button. The marker can also be moved with the < and > buttons, but this must be activated for the marker in question by clicking the button next to the checkbox. The marker position information is shown in the box at the top right. If it's in the way, you can drag it to a better position with the left mouse button.

Moon		Moon - Sun		Sun	
<input checked="" type="checkbox"/> Elevation		<input type="checkbox"/> Azimuth		<input checked="" type="checkbox"/> Distance	
<input type="checkbox"/> Elevation		<input type="checkbox"/> Azimuth			

Checking one of the checkboxes will also show those lines.

Daily overview

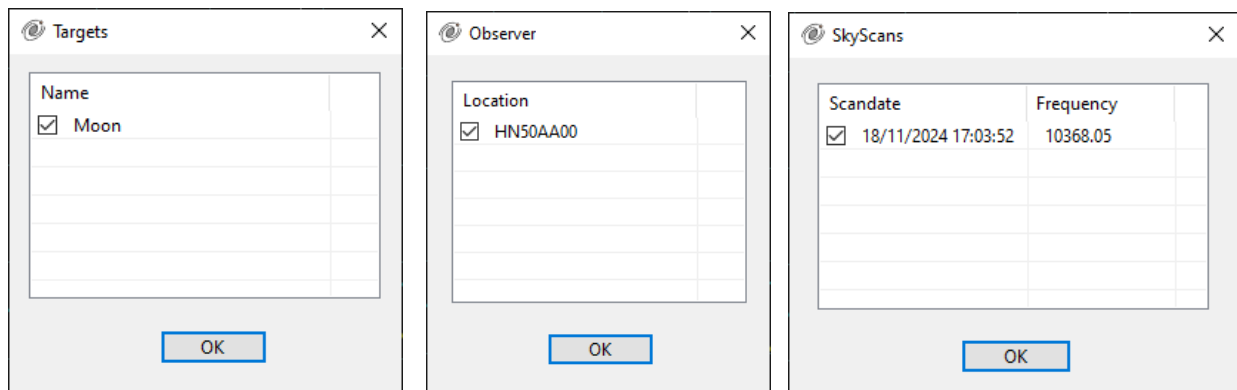


This screen can be switched to in 2 ways, via the Day selection button or by clicking on the date below the graph in the weekly overview. Here you can look more closely at when the moon is visible. And here too a date can be chosen.

As already indicated, the panel with the marker values can be placed in a different position.

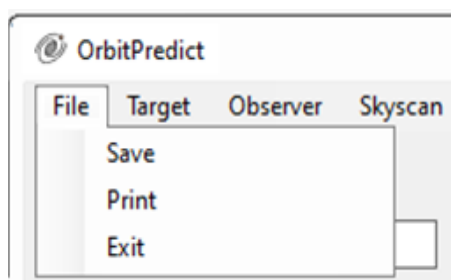
In this overview the graph can be moved forward and backward one day or one hour. The range of the hours is somewhat limited, it can be moved forward a maximum of 12 hours, in this example 6 hours

Menu's Target, Observers en SkyScans

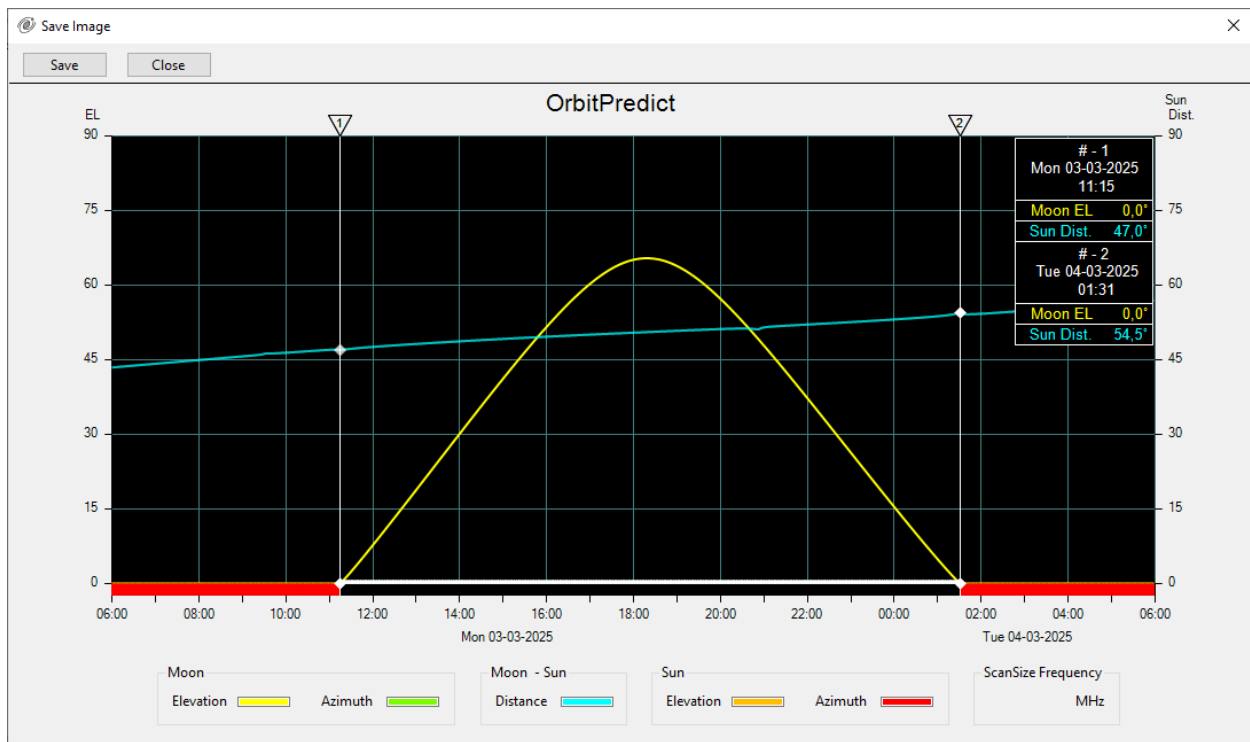


These menus allow you to select from the various data entered.

Menu File

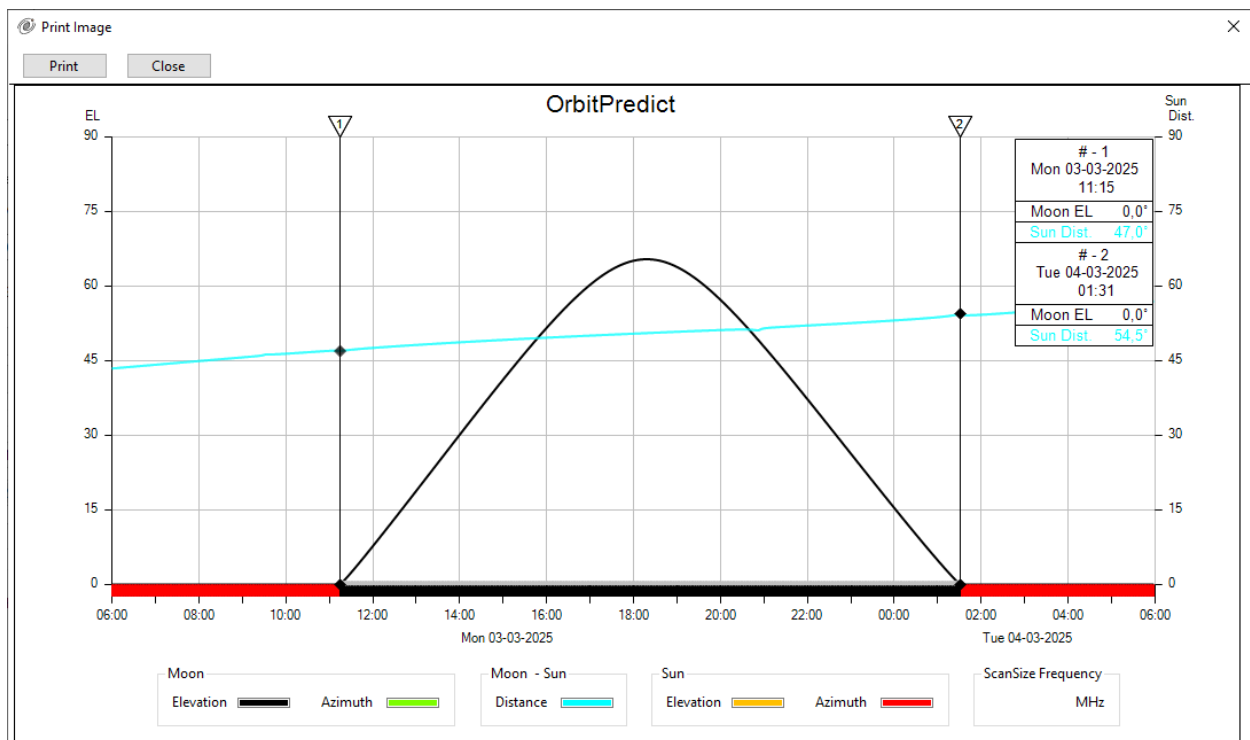


This menu allows you to save or print the shown graph. When you select **Save**, the image below will appear.



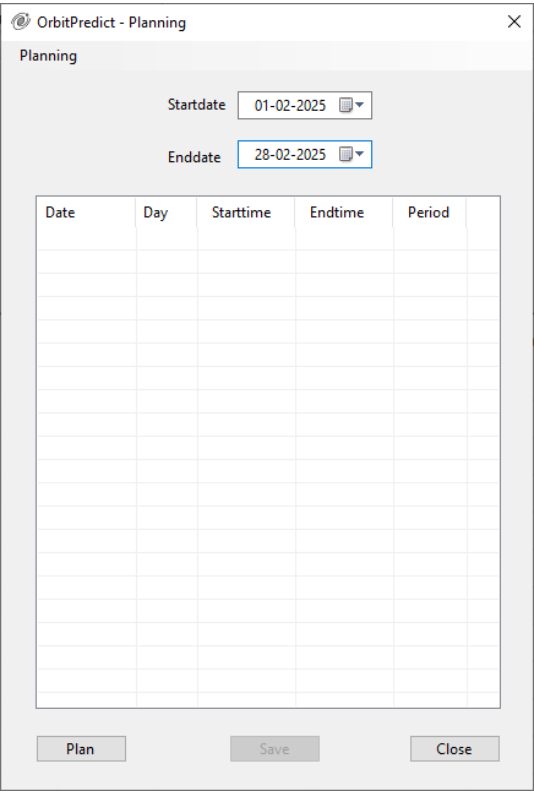
The presented view is saved.

The same applies to **Print** but then with the colors that were chosen for printing.

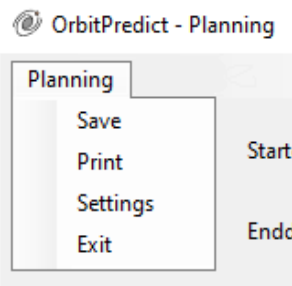


Menu Planning

When this menu item is selected the screen below will appear.

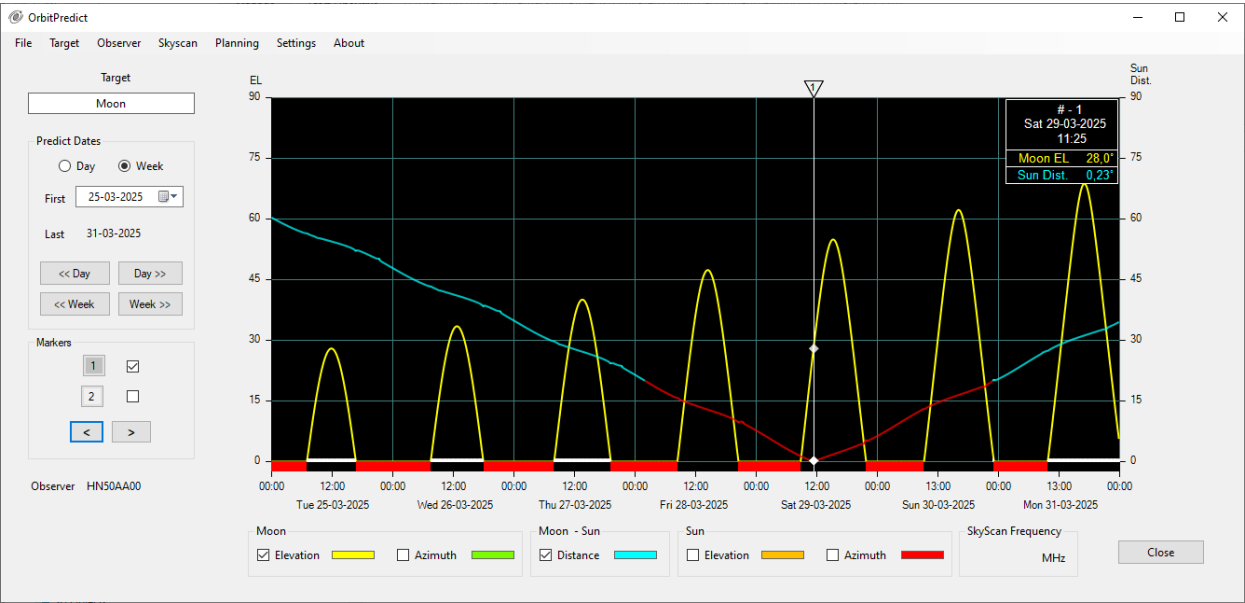


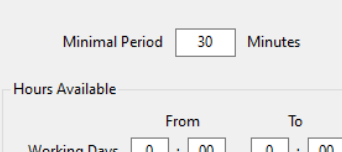
Here you can set the period to be planned.



The **Settings** menu item allows you to make additional settings.

The last week of March the conditions look like below.





The screenshot shows a 'Settings' dialog box with a title bar containing a gear icon and the text 'Settings'. The dialog has a close button (X) in the top right corner. The main content area is divided into two sections. The first section, 'Minimal Period', has a label 'Minimal Period' followed by a text input field containing '30' and the unit 'Minutes'. The second section, 'Hours Available', is enclosed in a light gray border and has a label 'Hours Available'. It contains two rows of time selection controls. The first row is for 'Working Days' and the second for 'Weekend'. Each row has a label, a time input field (HH : MM), and a 'To' label followed by another time input field (HH : MM). The 'Working Days' row shows '0 : 00' for both start and end times. The 'Weekend' row also shows '0 : 00' for both start and end times. Below these rows is a checkbox labeled 'No Limits' which is checked. At the bottom of the dialog, there is a 'Set Markers' checkbox, which is also checked. The bottom of the dialog features two buttons: 'Save' on the left and 'Close' on the right, which is highlighted with a blue border.

Settings

Minimal Period 30 Minutes

Hours Available

From To

Working Days 0 : 00 0 : 00

Weekend 0 : 00 0 : 00

No Limits ☒

Set Markers ☒

Save Close

[illegible]

The screenshot shows a 'Settings' dialog box with a close button (X) in the top right corner. The 'Minimal Period' section has a value of '60' in a text box, followed by the label 'Minutes'. The 'Hours Available' section has a title 'Hours Available' and two rows of time selection. The first row is for 'Working Days' with 'From' and 'To' columns. The 'From' column has a time of '18 : 00' and the 'To' column has a time of '23 : 00'. The second row is for 'Weekend' with 'From' and 'To' columns. The 'From' column has a time of '9 : 00' and the 'To' column has a time of '23 : 30'. Below these rows is a checkbox labeled 'No Limits' which is currently unchecked. At the bottom of the dialog is a checkbox labeled 'Set Markers' which is checked. There are two buttons at the bottom: 'Save' on the left and 'Close' on the right, which is highlighted with a blue border.

Settings

Minimal Period 60 Minutes

Hours Available

Working Days From To

18 : 00 23 : 00

Weekend 9 : 00 23 : 30

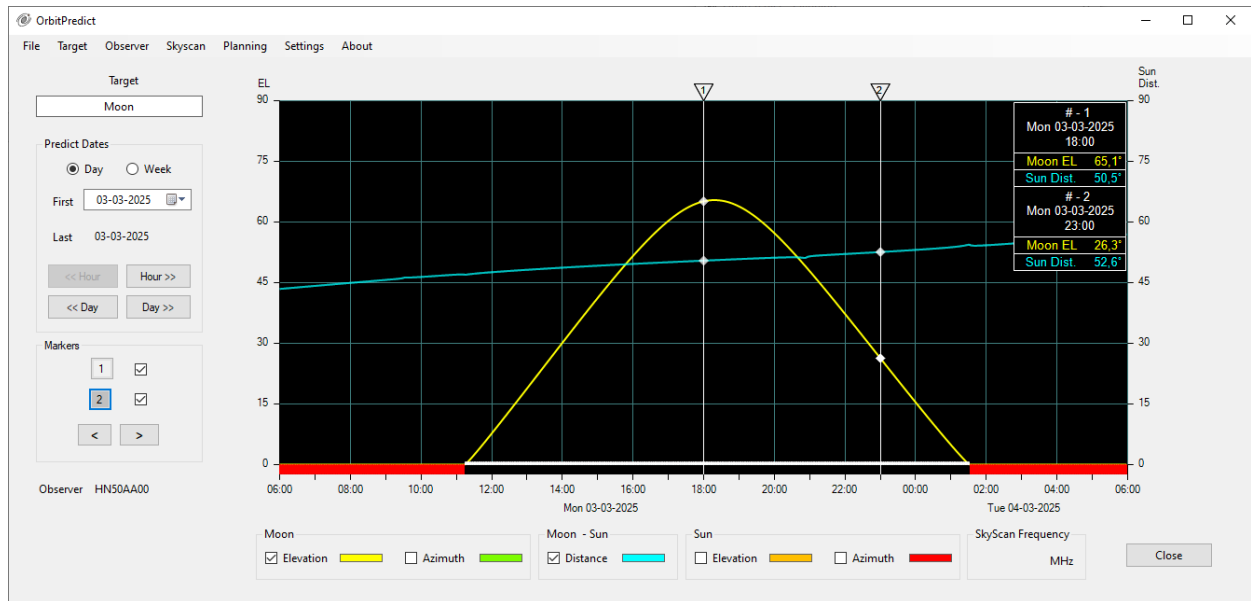
No Limits ☐

Set Markers ☒

Save Close

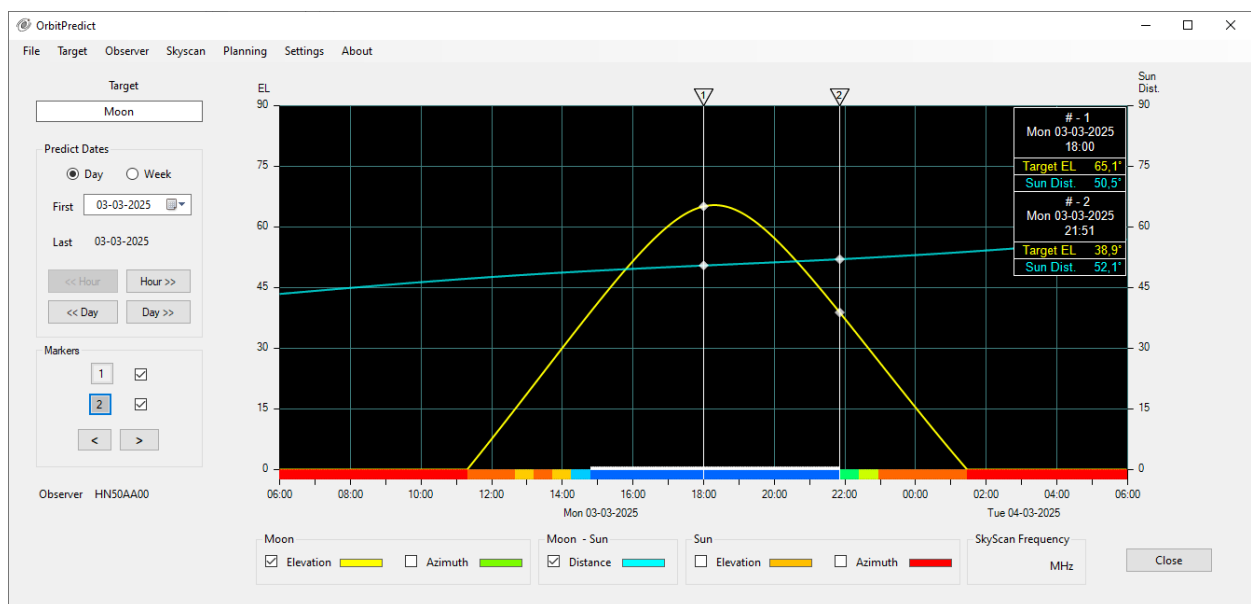
The **Save** button can be used to save the schedule as a text file.

If you want to see how the circumstances are on 3-3-2025, you can do that by clicking on the period in the list of that day. The daily overview is then shown with the markers at the beginning and end of the available period.



With SkyScanner data the image looks a bit different.

Here the conditions chosen were those scanned in my backyard with a 70 cm dish at 10 GHz and they are far from ideal.



With the settings below, the planning will also look different.

Settings

Minimal Period60Minutes

Hours Available

FromTo

Working Days18:0023:00

Weekend9:0023:30

No Limits

Set Markers

Save

Close

OrbitPredict - Planning

Planning

Startdate01-03-2025

Enddate31-03-2025

Date	Day	Starttime	Endtime	Period
01-03-2025	Sat	14:08	19:07	04:59
02-03-2025	Sun	13:48	20:33	06:45
03-03-2025	Mon	18:00	21:51	03:51
04-03-2025	Tue	21:04	22:48	01:44
05-03-2025	Wed	21:24	23:00	01:36
06-03-2025	Thu	18:00	19:44	01:44
07-03-2025	Fri	18:29	20:41	02:12
08-03-2025	Sat	19:31	21:45	02:14
09-03-2025	Sun	20:33	22:53	02:20
10-03-2025	Mon	21:10	23:00	01:50
23-03-2025	Sun	09:00	11:16	02:16
31-03-2025	Mon	18:00	19:43	01:43
"	Mon	20:01	21:44	01:43

Plan

Save

Close

