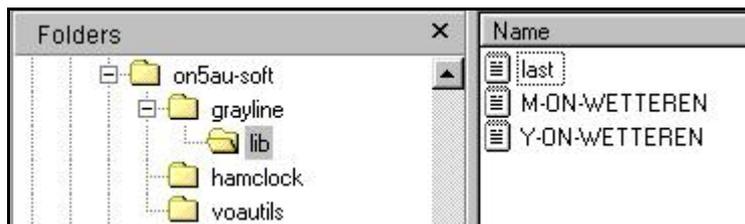
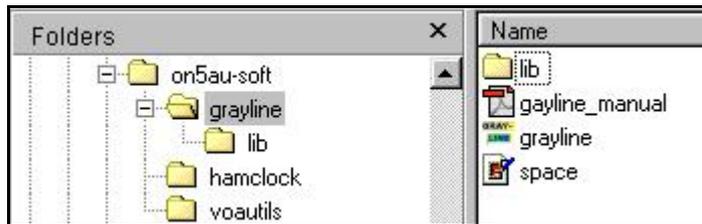


# GRAYLINE MANUAL

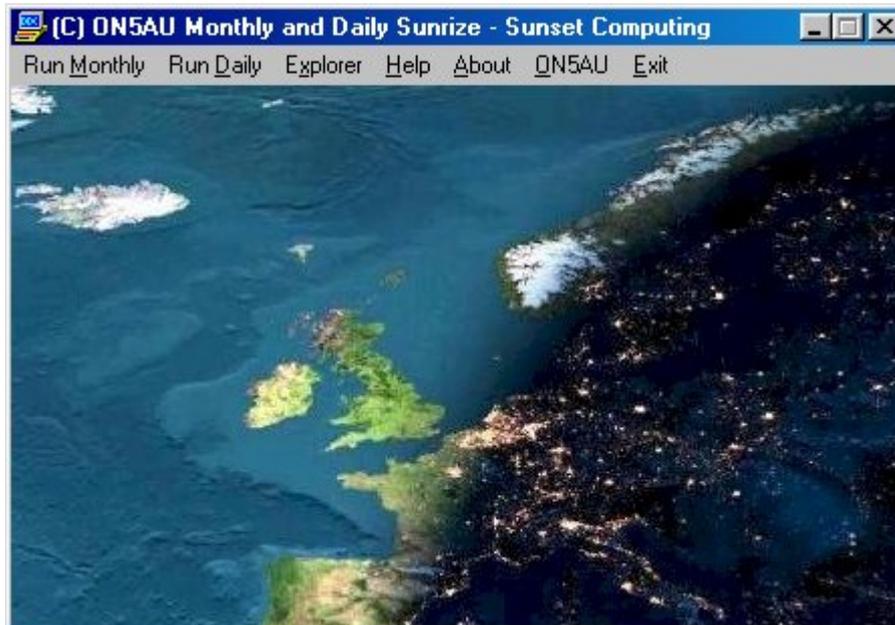
## HOW to INSTALL?



Double Click the icon of the downloaded **grayline\_install** file. This will create **C:\on5au-soft\grayline\** folder and extract the 3 files: **grayline.exe – space.gif** and **grayline\_manual.pdf**, also 1 subfolder **lib**, containing the files: **last.txt**, **M-ON-WETTEREN.txt** and **Y-ON-WETTEREN.txt**.



Make if you wish, a program shortcut to your desktop

**MENU-BAR****RunMonthly – RunDaily – Explorer – Help – About – ON5AU - Exit***The main window.*

**INPUT LOCATION DATA**

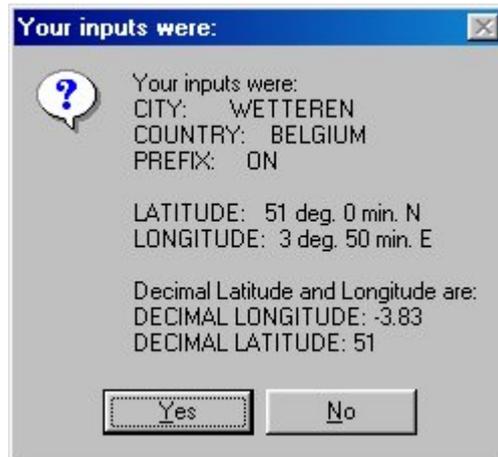
Location Name  
WETTEREN City  
BELGIUM Country  
ON Prefix

Latitude  
51 Degrees  South  
0 Minutes  North = default

Longitude  
3 Degrees  East  
50 Minutes  West = default

OK Cancel

*The input Latitude / Longitude input dialog box.*



*The confirm message window.*

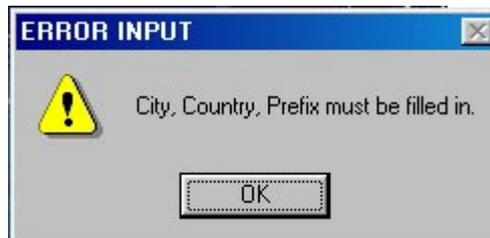
**RunMonthly** Compute the sunrise and sunset times for a given location, at date 1, 11 and 21 of each month, (a total of 36).

**RunDaily** Compute the sunrise and sunset times for a given location for every day of the year, (a total of 365).

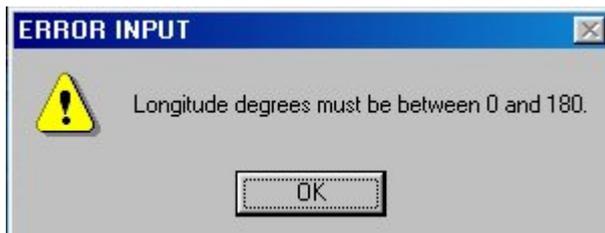
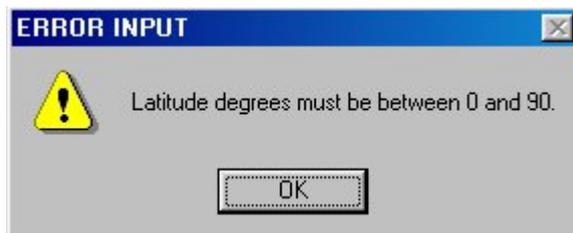
Either **RunMonthly** or **RunDaily** opens an dialog box to input:

- City, the location name.
- Country, the location country name.
- Prefix, the country DXCC prefix.
- The location coordinates: Latitude and Longitude degrees and minutes. North or South and East or West are defined by radio buttons, whereof North and West are preset.

If an input field is not defined then a notice window is displayed to tell you what fields were forgotten.



If an incorrect Latitude or Longitude degree or minute value is defined then a notice window is displayed and tell you which value is to big.



When everything is defined and after a OK click a message window is displayed to confirm your inputs. At the same window you find also the computed decimal location coordinates

For both computing options are the results stored in two \*.txt files, one is named **last.txt** and is each computing Run overwritten, the second is named **M-prefix-city** or **Y-prefic-city**. M- stands for a monthly (three date a month) and y- stands for a yearly (every day) computing. The prefix is the given country DXCC prefix and city is the given location name.

```

last - Kladblok
Bestand  Bewerken  Zoeken  Help
BELGIUM      - ON -      WETTEREN

Longitude :3 50' E      -3.83 E
Latitude  :51 0' N      51 N

Times UTC

Date          Sunrise      Sunset
Jan 01        7.48        15.48
Jan 11        7.45        16.00
Jan 21        7.36        16.16
Feb 01        7.22        16.34
Feb 11        7.06        16.52
Feb 21        6.47        17.10
Mar 01        6.30        17.24
Mar 11        6.08        17.41
Mar 21        5.46        17.58
Apr 01        5.21        18.16
Apr 11        4.59        18.32
Apr 21        4.38        18.49
May 01        4.19        19.05
May 11        4.01        19.21
May 21        3.47        19.35
Jun 01        3.36        19.49
Jun 11        3.30        19.58
Jun 21        3.30        20.03
Jul 01        3.34        20.03
Jul 11        3.43        19.58
Jul 21        3.54        19.48
Aug 01        4.09        19.32
Aug 11        4.25        19.15

```

*The results are displayed by Notepad or another default editor. The above illustration shows the monthly results.*

```

last - Kladblok
Bestand  Bewerken  Zoeken  Help

BELGIUM      - ON -      WETTEREN

Longitude :3 50' E      -3.83 E
Latitude  :51 0' N      51 N

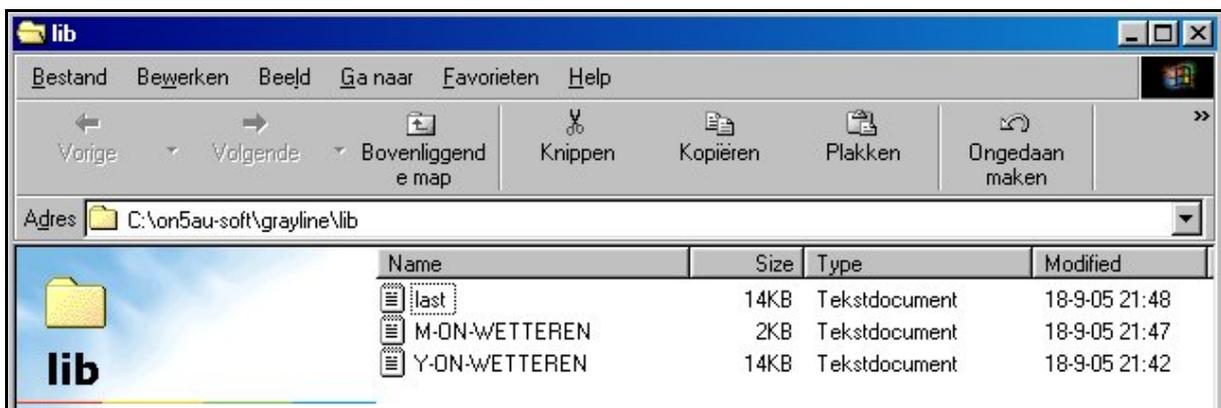
Times UTC

Date          Sunrise      Sunset
Jan  1        7.48         15.48
Jan  2        7.48         15.49
Jan  3        7.48         15.50
Jan  4        7.47         15.51
Jan  5        7.47         15.53
Jan  6        7.47         15.54
Jan  7        7.47         15.55
Jan  8        7.46         15.56
Jan  9        7.46         15.58
Jan 10        7.45         15.59
Jan 11        7.45         16.00
Jan 12        7.44         16.02
Jan 13        7.43         16.03
Jan 14        7.43         16.05
Jan 15        7.42         16.06
Jan 16        7.41         16.08
Jan 17        7.40         16.09
Jan 18        7.39         16.11
Jan 19        7.38         16.12
Jan 20        7.37         16.14
Jan 21        7.36         16.16
Jan 22        7.35         16.17
Jan 23        7.34         16.19

```

The results are displayed by Notepad or another default editor. The above illustration shows the daily results.

**Explorer** Open the folder `c:\on5au\grayline\lib\` where all the computed files are saved. You can always view earlier made calculations.



**Help** The **Help** option displays a brief notice message screen.



**About** The **About** option displays some info and the program Version.



**ON5AU** Option connect you to my website, where you can find monthly Predictions as hourly prediction graphs for the beacons and for the 40 CQ-DX zones. Also **On-Line** (2 hour log screens) live **NCDXF / IARU** worldwide Beacons monitoring, to allow you to compare predictions and the real propagation properties.

**Exit** Closes the program.

**GRAYLINE**  
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**WETTEREN (BELGIUM) 19 August 2005.**  
**ON5AU. M.H. De Canck.**