

Planning Tools for Landscape Photography



DISCOVER THE LIGHT
PHOTOGRAPHY

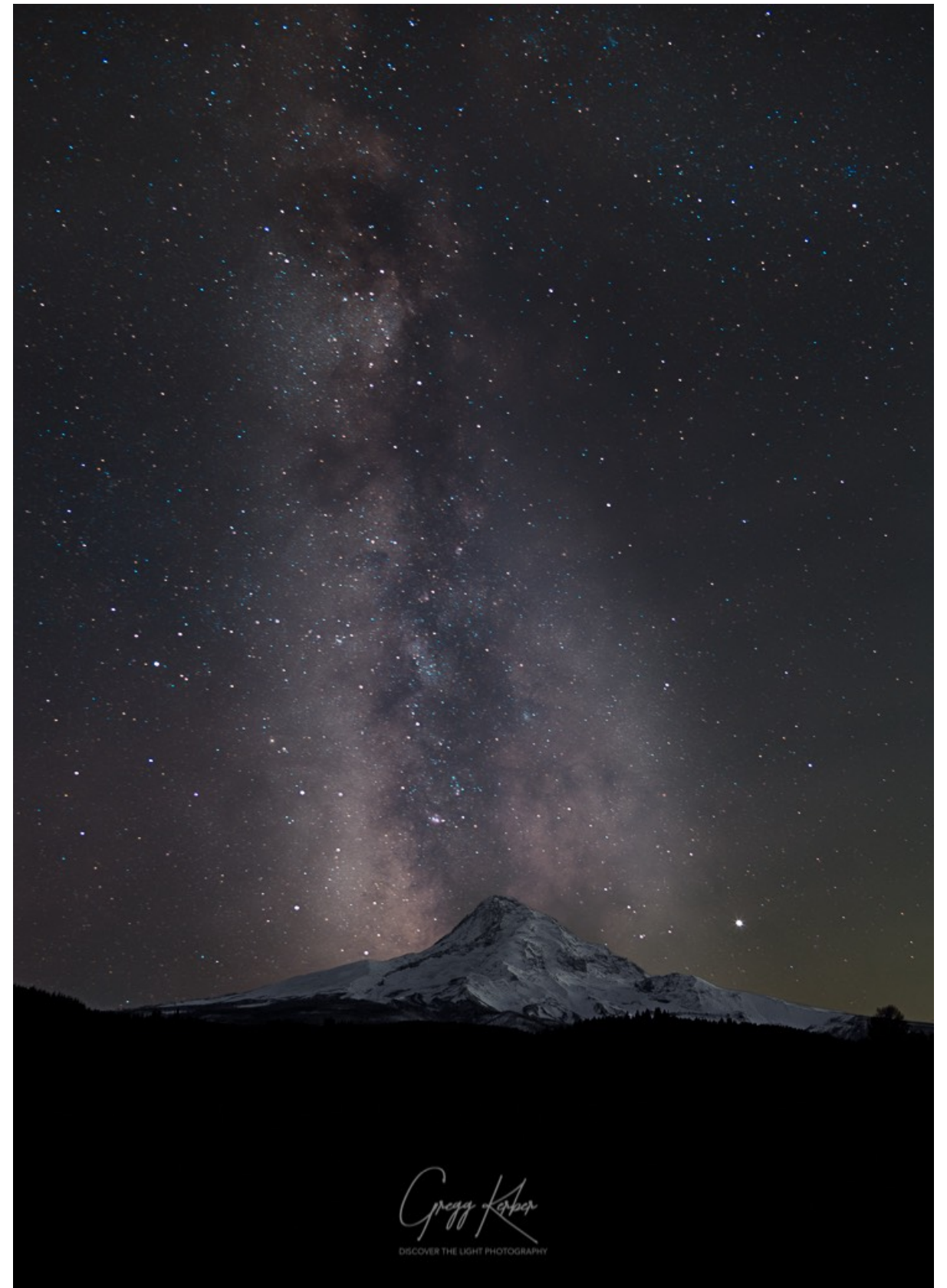
TPE and PhotoPills

Example Images Planned with TPE and PhotoPills

Sunlight on grain silos



Milky Way over Mt. Hood



Sunlight over Wizard Falls



© GREGG KERBER

Milky Way over Wizard Falls



Sunrise over Fort Rock



Sunrise in the Gorge



Full moon over
Mt. Hood
from Larch Mountain



© GREGG KERBER

TPE/PhotoPills Overview

Capabilities

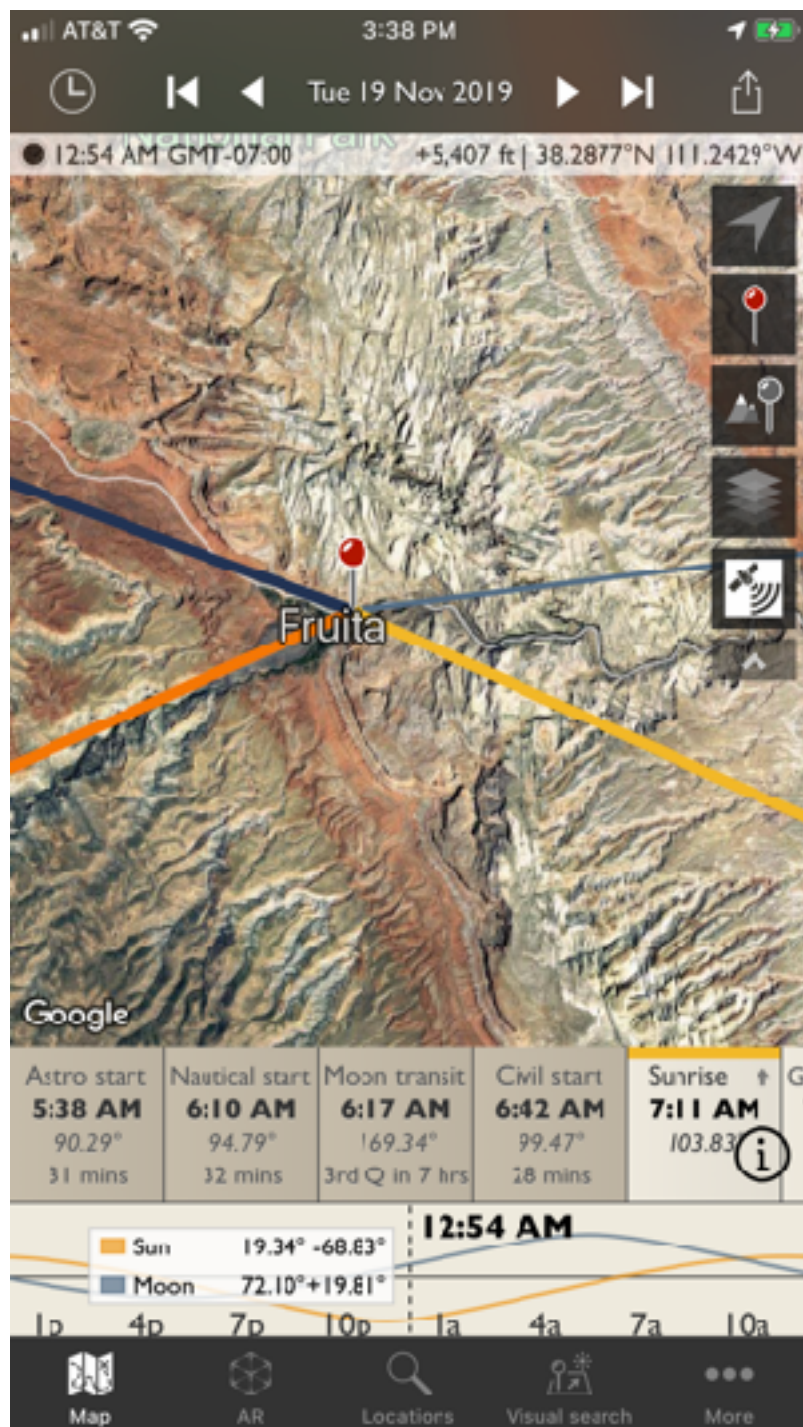
Capability	TPE	PhotoPills	Notes
Sun	✓	✓✓	PhotoPills - more information in separate section
Moon	✓	✓✓	PhotoPills - more information in separate section
Milky Way	✓	✓✓	TPE - Separate mode PhotoPills - more functionality
Shadow Length	✓	✓✓	PhotoPills - more functionality
Time Bar	✓	✓	
Several Map Types	✓✓	✓	TPE - more maps
Augmented Reality	✓	✓✓	PhotoPills - more functionality
Find Locations	✓✓	✓	TPE - better at finding locations
Save Locations	✓✓	✓	TPE - easier to use
Events	✓	✓	Moon phases, sun and moon transit, etc
Twilight periods	✓✓	✓	TPE - easier to access
Find Specific Event	✓✓	✓	TPE - more functionality

Capabilities

Capability	TPE	PhotoPills	Notes
Geodesics	✓	✓	
Geodesics Profile	✓✓		TPE - shows line of sight information
3D	✓✓		TPE - Separate App
Meteor Showers	✓	✓✓	PhotoPills - more functionality
Field of View	✓	✓✓	TPE - Separate App PhotoPills - more functionality
Depth of Field		✓✓	Separate section
Hyperfocal Table		✓✓	Separate section
Equivalent Exposure		✓✓	Separate section
Extended Sun and Moon Information		✓✓	Separate section
Star Trails		✓✓	Separate section
Time Lapse		✓✓	Separate section
Timer		✓✓	Separate section

Screen Layouts

Screen Layout



TPE



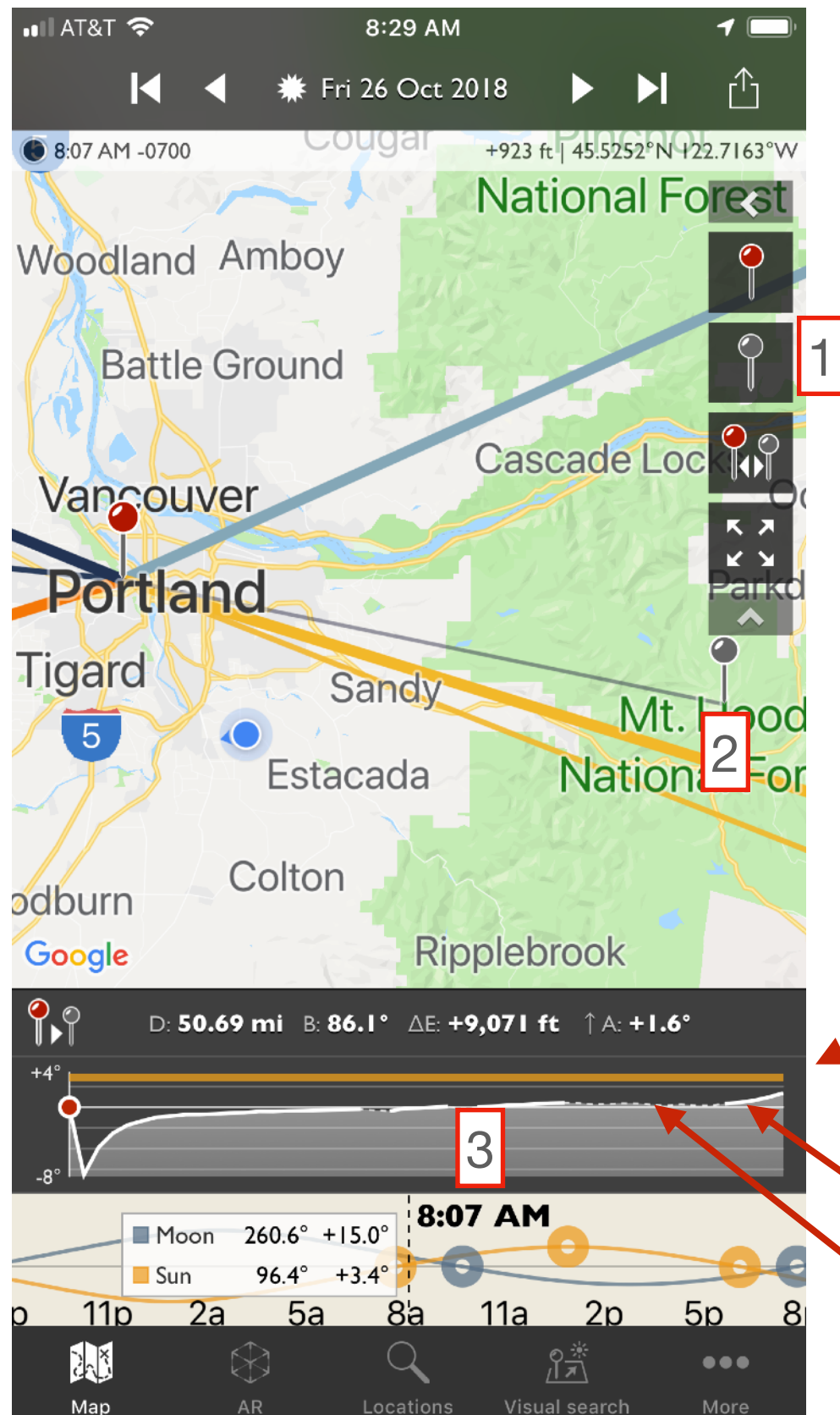
PhotoPills

Events

Events

- New moon
- Full moon
- Moon at apogee (farthest from Earth)
- Moon at perigee (closest to Earth)
- First quarter moon
- Third quarter moon
- Solstice
- Equinox
- Eclipse (solar or lunar)
- Meteor shower

Line of Sight



1. Tap gray pin.
2. Gray pin appears.
3. Move gray pin to deserted location.
4. Profile chart appears.

Profile Chart

- Distance between red and gray pins (D)
- Difference in elevation between red and gray pins (ΔE)
- Bearing of red-gray direction (B)
- Altitude angle from red to gray pin ($\uparrow A$)
- Sun (yellow line) or moon (blue line) position relative to profile
- Solid lines in profile indicate visible land features as viewed from red pin location
- Dashed lines in profile indicate land features not visible from red pin location

PhotoPills



1. Move to black pin top panel.
2. Tap red/black pin icon (black pin appears).
3. Move black pin to deserted location.

Find Sun or Moon at
Specific Location

TPE (Visual Search)

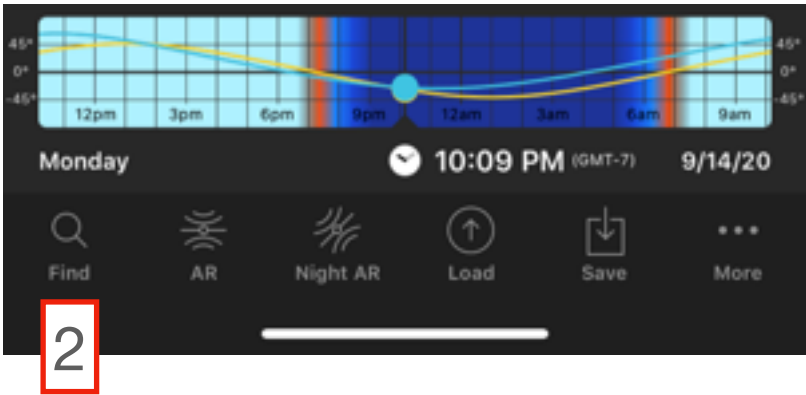
1. Set red and gray pins.
2. Tap Visual Search.
3. Set parameters for search.
4. Perform search.
5. Select best match from search results.

The screenshot shows the 'Visual Search' app interface on a mobile device. The status bar at the top indicates 'AT&T' service, signal strength, Wi-Fi, the time '1:27 PM', and battery level. The app title 'Visual Search' is prominently displayed in bold black text. Below the title, there are several sections for configuring the search:

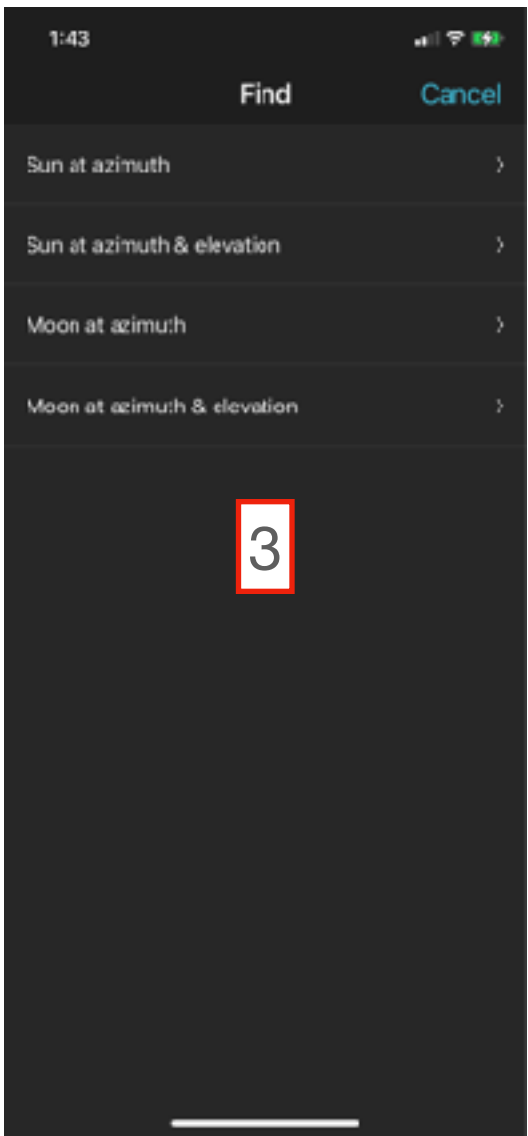
- BODY**: A section with a 'Body' label and two buttons, 'Sun' and 'Moon', where 'Sun' is currently selected.
- SEARCH PARAMETERS**: A section containing several input fields and buttons:
 - 'Find' with buttons 'Rise/Set' and 'Az/Alt', where 'Az/Alt' is selected.
 - 'Target altitude °' with a text input field containing '-0.2'.
 - 'Azimuth (compass) °' with a text input field containing '74.7'.
 - 'Tolerance ±°' with a text input field containing '2.00'.
 - 'Align disc' with three radio button icons; the middle one is selected.
 - 'Priority' with buttons 'Altitude' and 'Azimuth', where 'Altitude' is selected.
- A message: 'Parameters match geodetics results.'
- DATE**: A section with a 'Start date' label and a date/time picker showing 'Fri 26 Oct, 2018 -0700' with a right arrow.
- Duration**: A section with a 'Duration' label and four buttons: '6m', '1y', '2y', and '5y', where '6m' is selected.

At the bottom, there is a navigation bar with five icons and labels: 'Map', 'AR', 'Locations', 'Visual search' (which is highlighted), and 'More'.

PhotoPills (Find)



1. Set red and black pins.
2. Tap Find.
3. Choose sun or moon search.
4. Set parameters.
5. Perform search.
6. Select best match from search results.



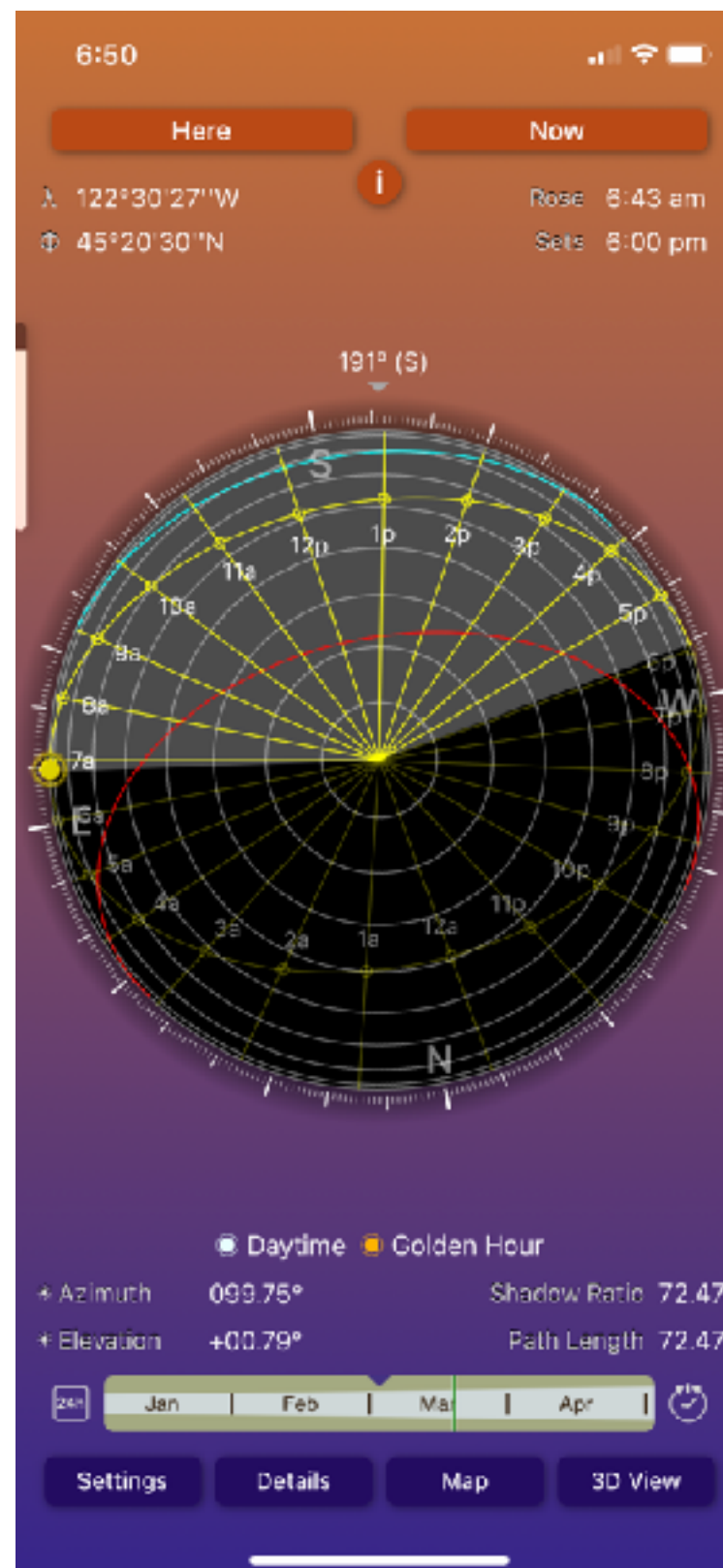
Sun Surveyor

Sun Surveyor



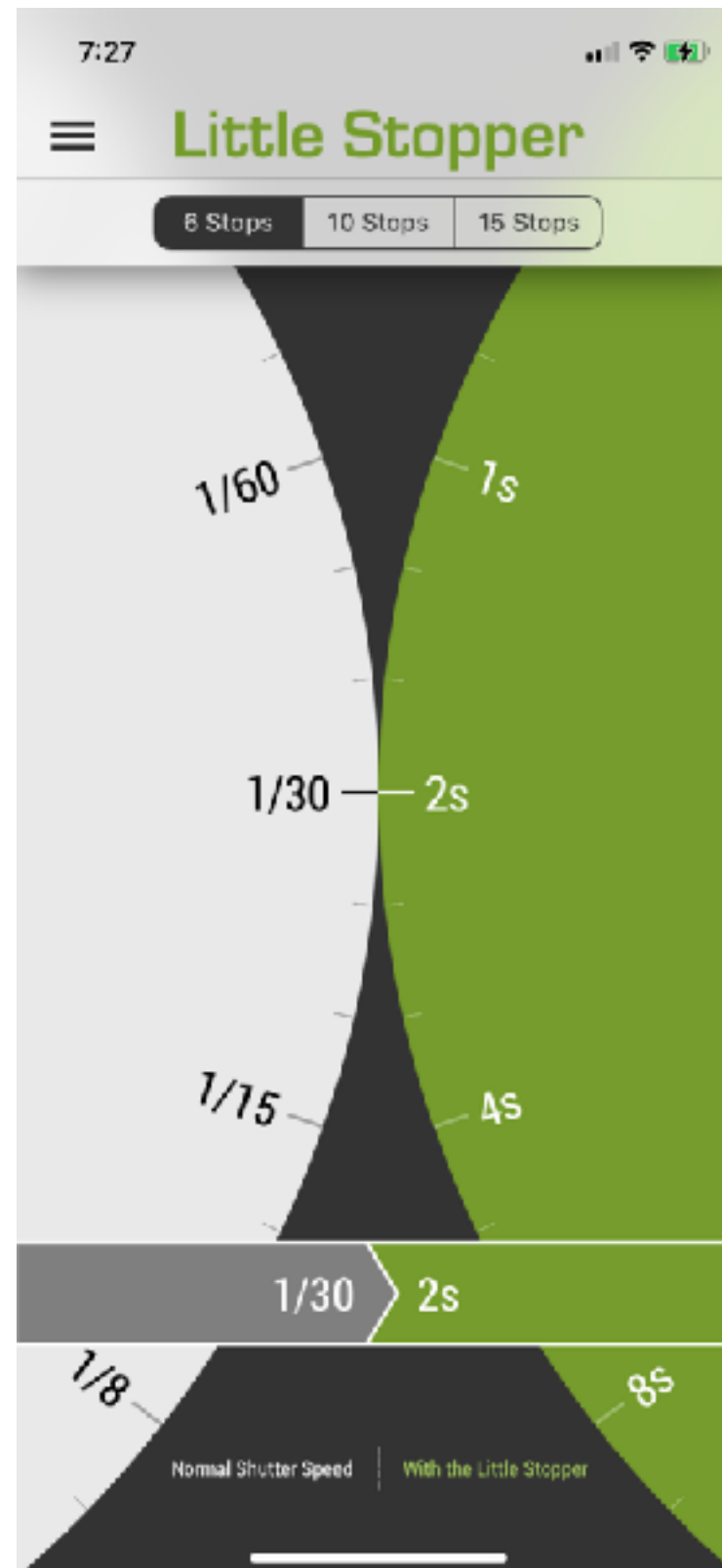
Sun Seeker

Sun Seeker



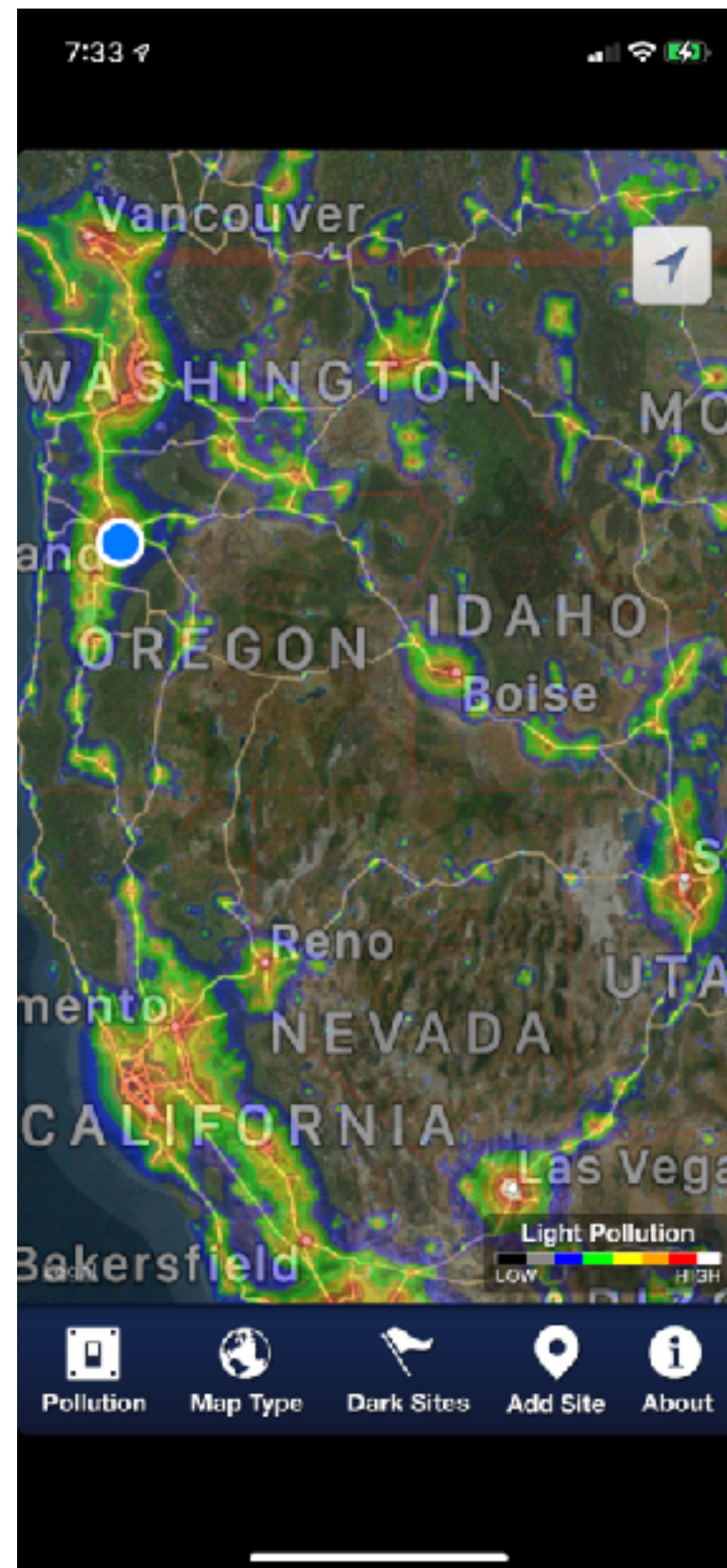
Lee Stopper

Lee Stopper



Dark Sky

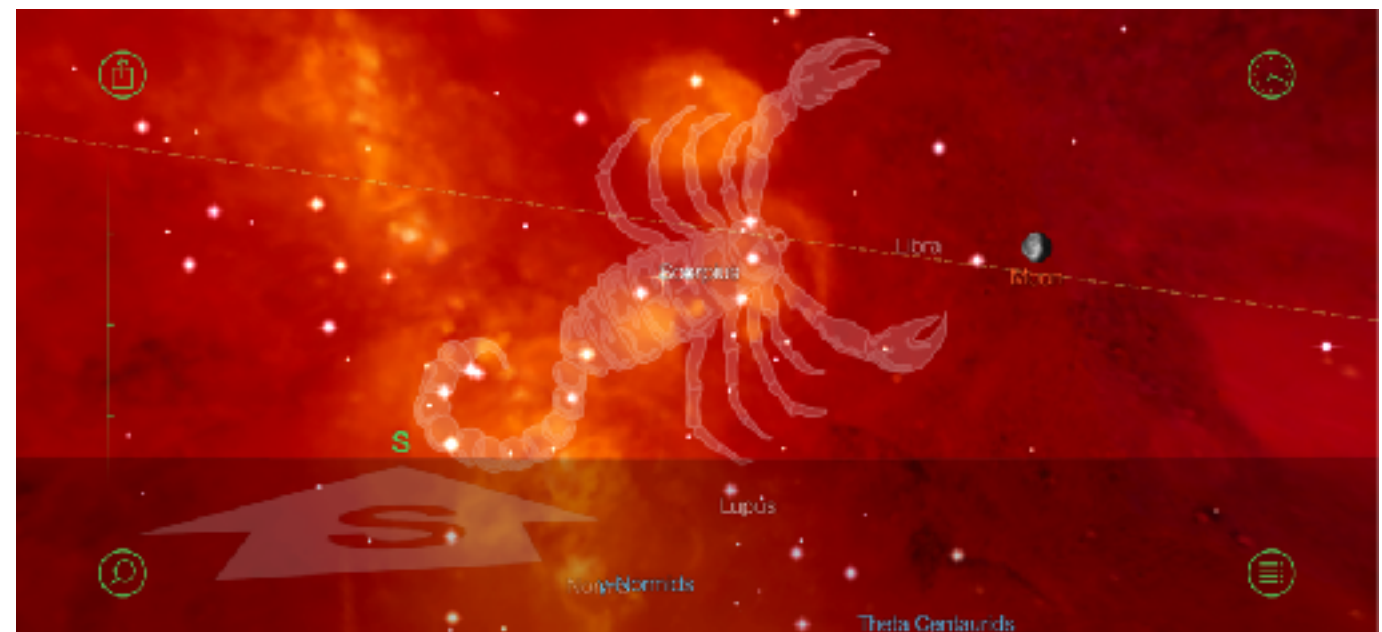
Dark Sky



Sky Guide Star Walk

Sky Guide

Star Walk



iCSC

< Favorites

Klondike

Clear Sky Chart

2021-03-02
Local Time
(GMT -8.0)

Tue
2 2
2 3 0 1 2 3 4 5 6 7 8 9

Wednesday
1 1 1 1 1 1 1 1 1 2 2 2 2
0 1 2 3 4 5 6 7 8 9 0 1 2 3

Thursday
1 1 1 1 1 1 1 1 2 2 2 2
0 1 2 3 4 5 6 7 8 9 0 1 2 3

Friday
1 1 1 1 1 1 1 1 2 2 2 2
0 1 2 3 4 5 6 7 8 9 0 1 2 3

Satu
0 1 2 3 4

Cloud Cover:

Transparency:

Seeing:

Darkness:

Smoke:

Wind:

Humidity:

Temperature:

% ZU21 R.Danko. forecast: R.Kahill data:

Canada

Canada

Cloud Cover

Overcast

90% covered

80% covered

70% covered

60% covered

50% covered

40% covered

30% covered

20% covered

10% covered

Clear

Transparency

Poor

Below Average

Average

Above average

Transparent

Seeing

Bad 1/5

Poor 2/5

Average 3/5

Good 4/5

Excellent 5/5

Wind

>45 mph

25 to 45 mph

17 to 28 mph

12 to 16 mph

6 to 11 mph

0 to 5 mph

Humidity

<25%

25% to 30%

30% to 35%

35% to 40%

40% to 45%

45% to 50%

50% to 55%

55% to 60%

60% to 65%

65% to 70%

70% to 75%

75% to 80%

80% to 85%

85% to 90%

90% to 95%

95% to 100%

Temperature

<-40F to -31F

-40F to -31F

-30F to -21F

-21F to -12F

-12F to -3F

-3F to 5F

5F to 14F

14F to 23F

23F to 32F

32F to 41F

41F to 50F

50F to 59F

59F to 68F

68F to 77F

77F to 85F

85F to 93F

93F to 104F

104F to 113F

>113F

All Charts

Map

Favorites

Info