How to use JASMES Wildfire Monitor

Ver.1 : 2021/03/09

Ver.2 : 2022/02/01

How to use JASMES Wildfire Monitor

The JASMES Wildfire Monitor is a Wildfire detection system using the Fire radiative power (FRP) and Wildfire detection algorithm based on the L1B data observed by the onboard optical sensor SGLI of the Climate Change Observation Mission GCOM-C.

This document describes how to use the JASMES forest fire monitor.

■Overview

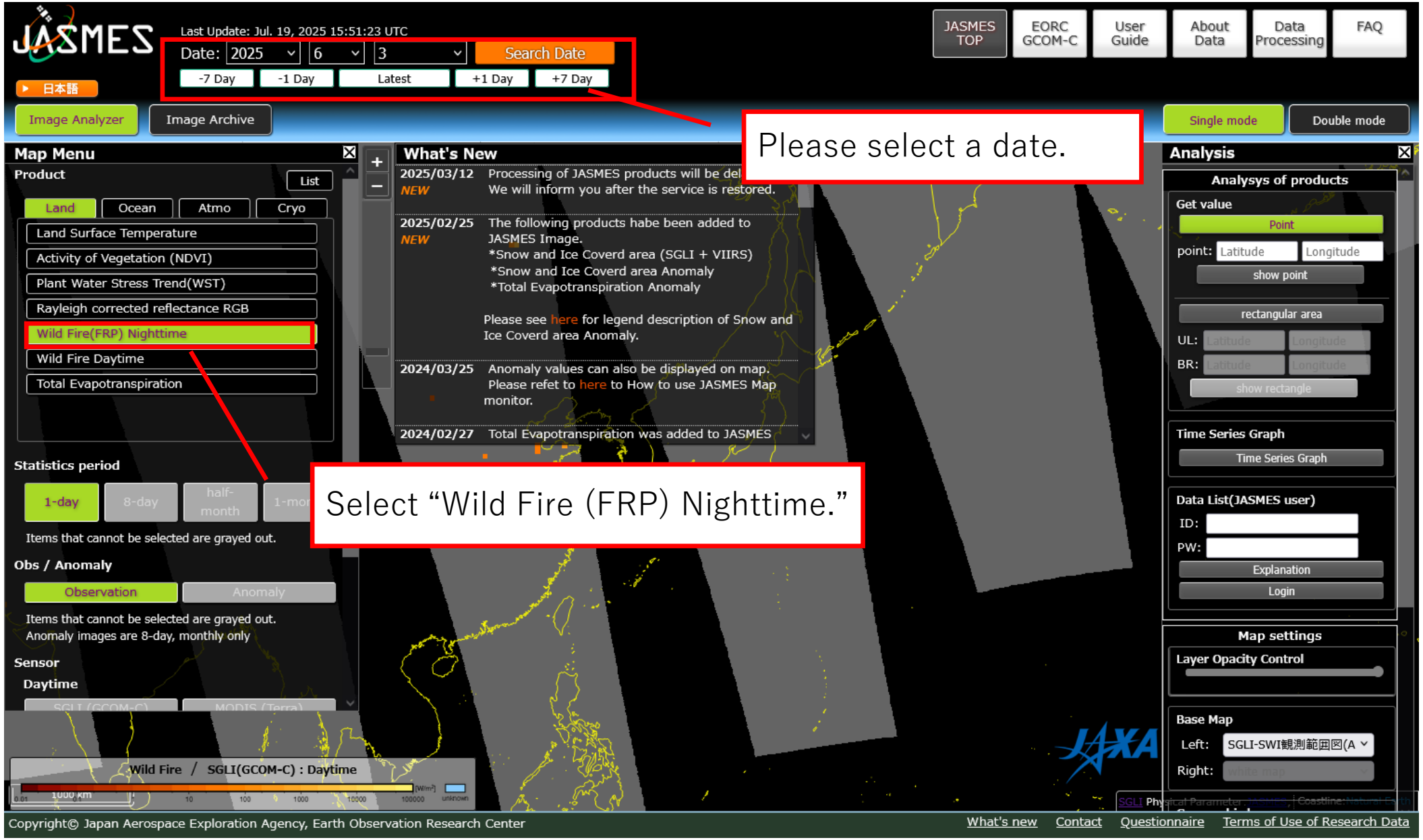
- Results with high confidence(Reliability：2～5) are drawn on the map for daytime and nighttime respectively.

  Nighttime：FRP(W/m^2)　*If the value is unknown, it is drawn in light blue

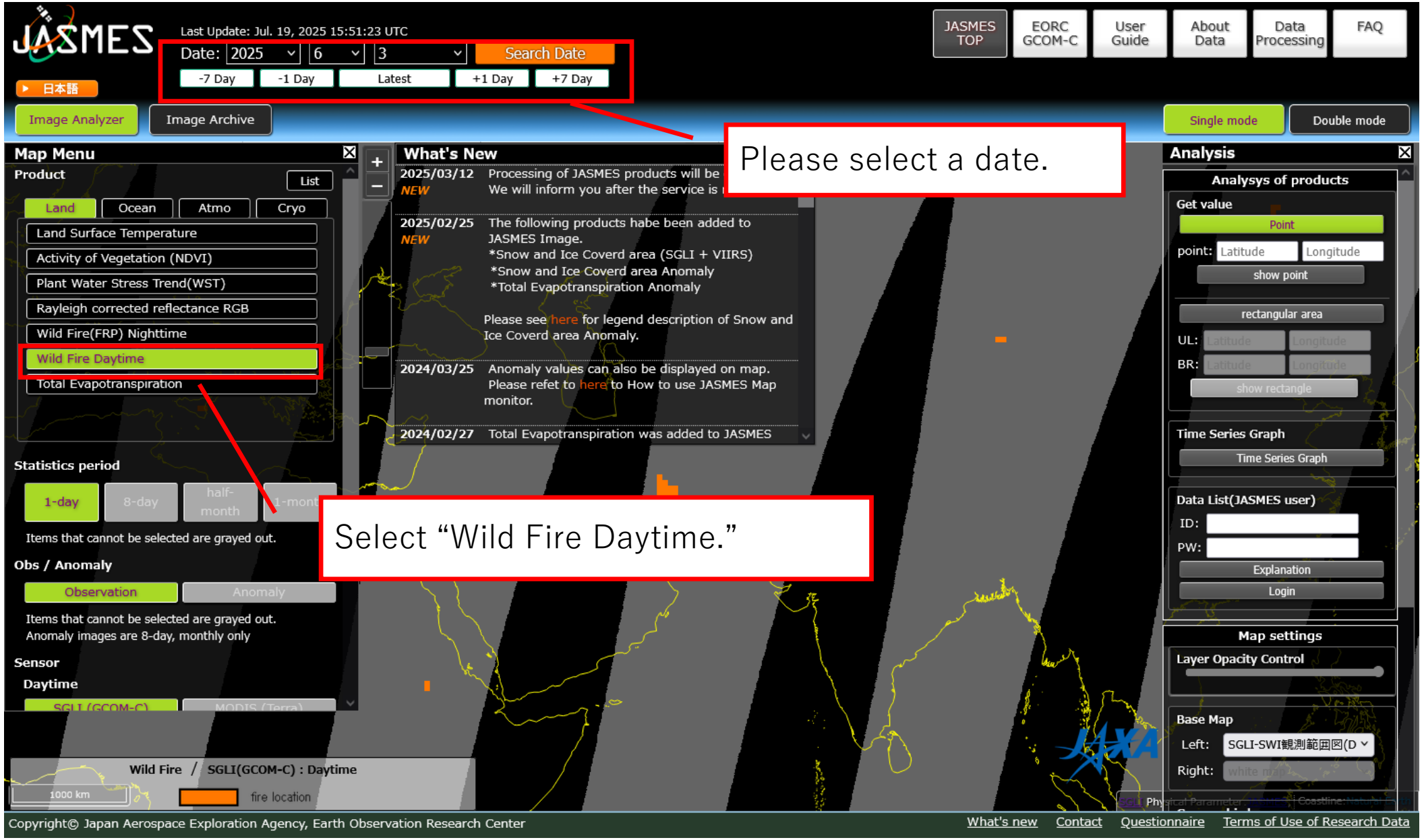
  Daytime：Location of fire detection

- The spatial resolution switches according to the zoom level.
  For more information, please click here.
- You can retrieve daily csv data for Wildfire detection points.
  For more information, please click here.

How to use JASMES Wildfire Monitor (Nighttime)



How to use JASMES Wildfire Monitor (Daytime)

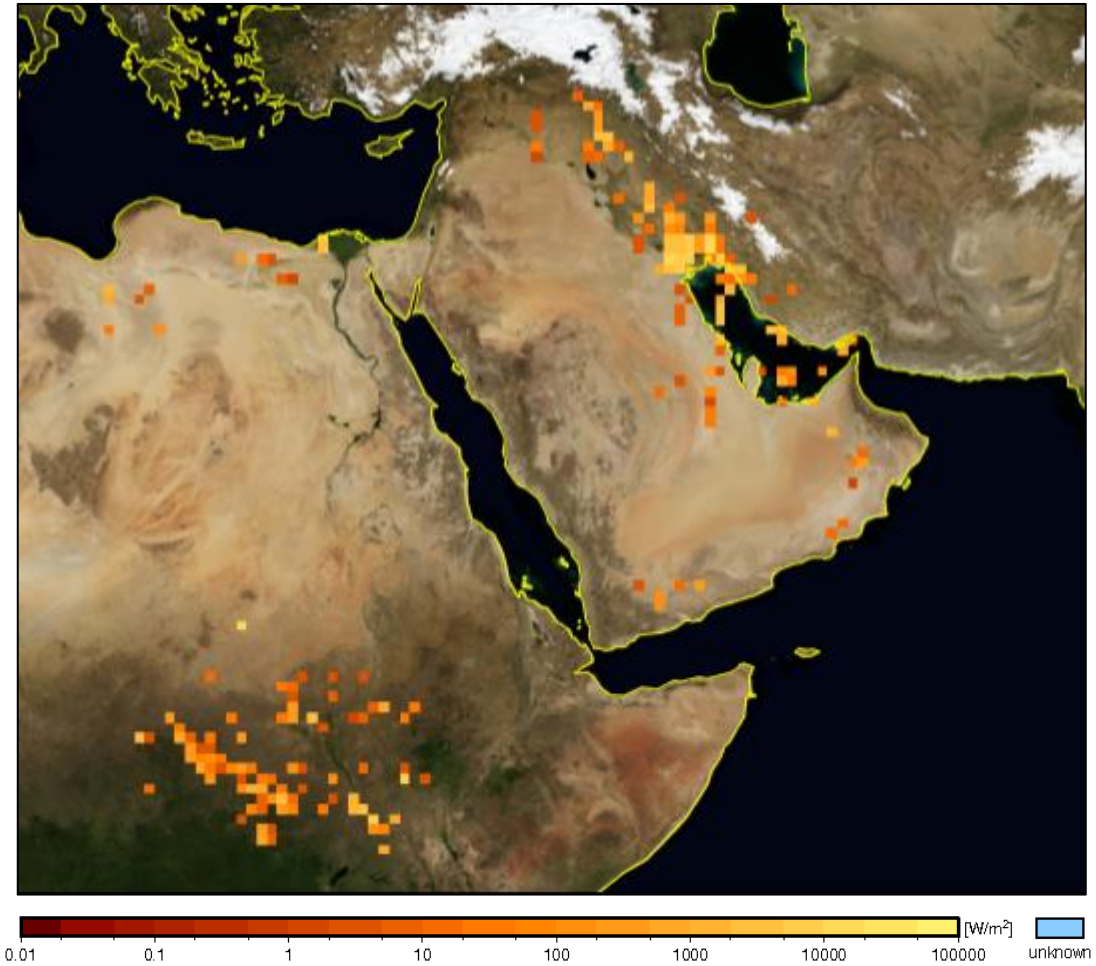


How to use JASMES Wildfire Monitor (Nighttime)

Zoom level	Spatial resolution	Min	Max	Data
1-7	0.5 degree grid	0.01	100000	Accumulated 250 m resolution FRP (W/m^2) in 0.5 degree grid
8-10	0.05 degree grid	0.01	1000	FRP(W/m^2)integrated in 0.05 degree grid*$(250m)^2$/0.05 degree grid area
11-	0.01 degree grid	0.01	40000	FRP(W/m^2)integrated in 0.01 degree grid*$(250m)^2$/0.01 degree grid area

How to use JASMES Wildfire Monitor (Nighttime)　(Zoom level 1～7)

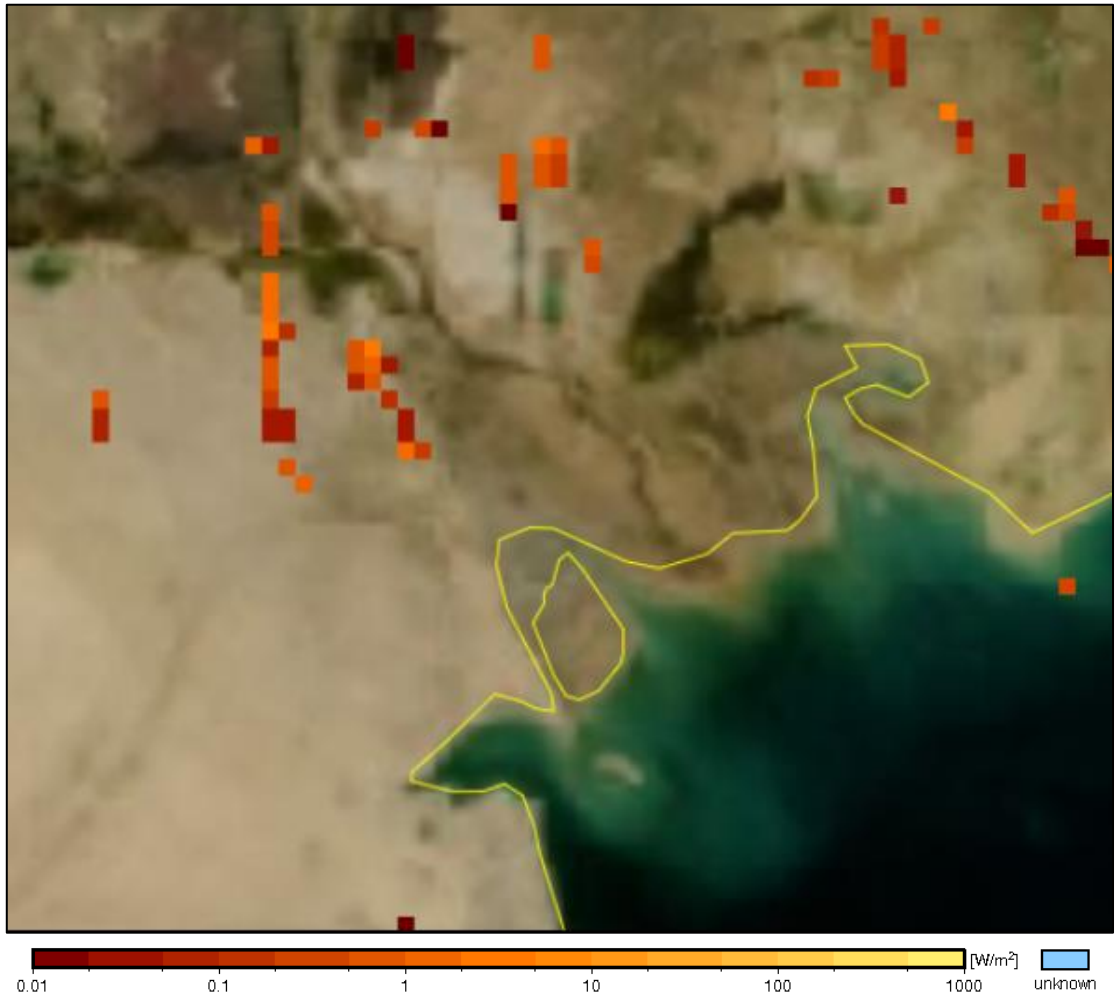
2021/01/03



- Display in a 0.5 degree grid to match the default zoom level of the map.
- The total 250 m resolution FRP (W/m2) within a 0.5 degree grid makes it easier to identify locations with high detection or high FRP when looking at the entire map.

How to use JASMES Wildfire Monitor (Nighttime)　(Zoom level 8～10)

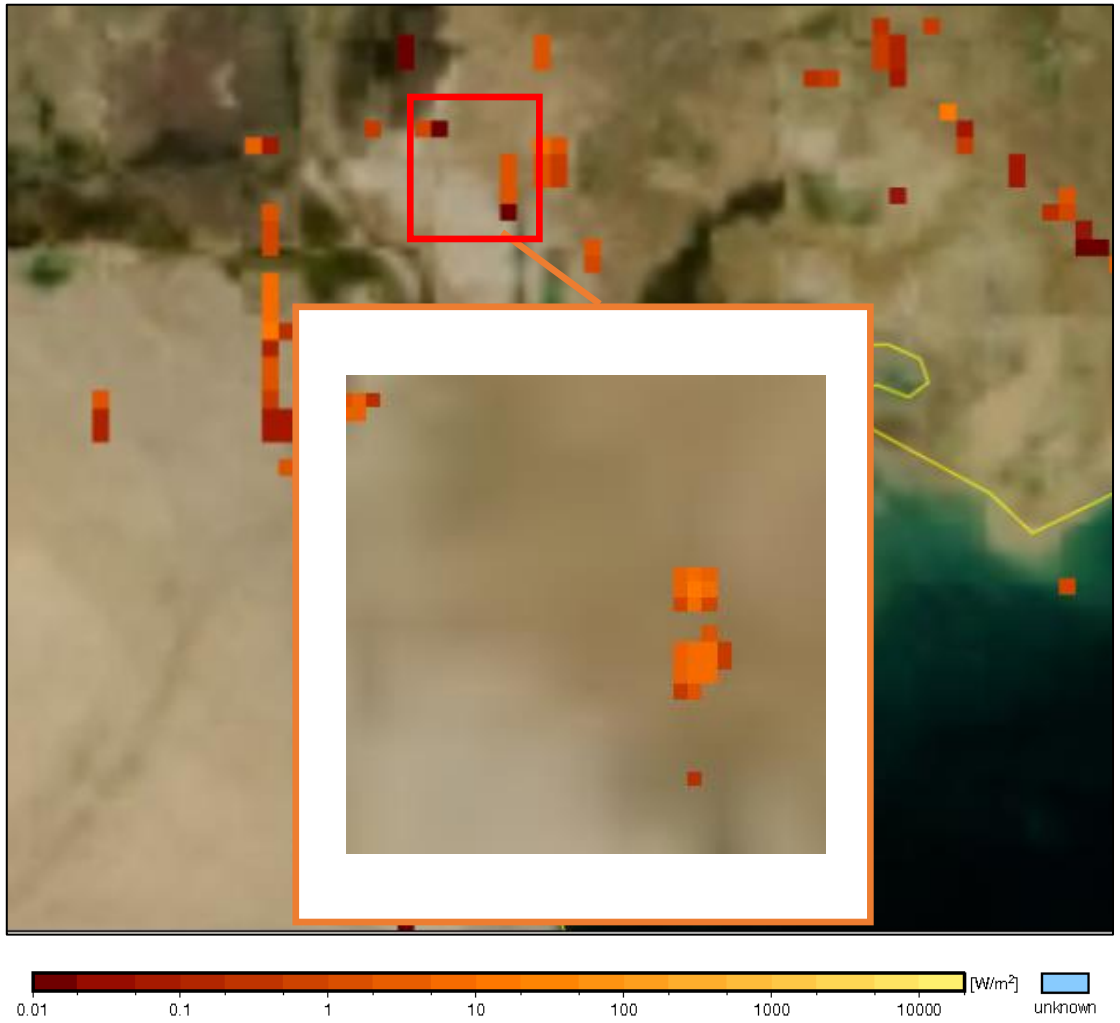
2021/01/03



- The grid shall be a 0.05 degree grid, suitable when the map is set at zoom level 8-10.
- FRP(W/m2)*(250m)2/grid area value
- Lattice area is the area at the equator (0.05 degree lattice) corrected by cos(center latitude)

How to use JASMES Wildfire Monitor (Nighttime)　(Zoom level 11～)

2021/01/03



- The grid shall be a 0.01 degree grid, suitable when the map is set at zoom level 11-.
- FRP(W/m2)*(250m)2/grid area value
- Lattice area is the area at the equator (0.05 degree lattice) corrected by cos(center latitude)

How to use JASMES Wildfire Monitor (Daytime)

Zoom level	Spatial resolution	Min	Max	Data
1-7	0.5 degree grid	-	-	Drawing when there is fire detection within 0.5 degree grid
8-10	0.05 degree grid	-	-	Drawing when there is fire detection within 0.05 degree grid
11-	0.01 degree grid	-	-	Drawing when there is fire detection within 0.01 degree grid