

# Qaasuitsup (Greenland) peat wildfire

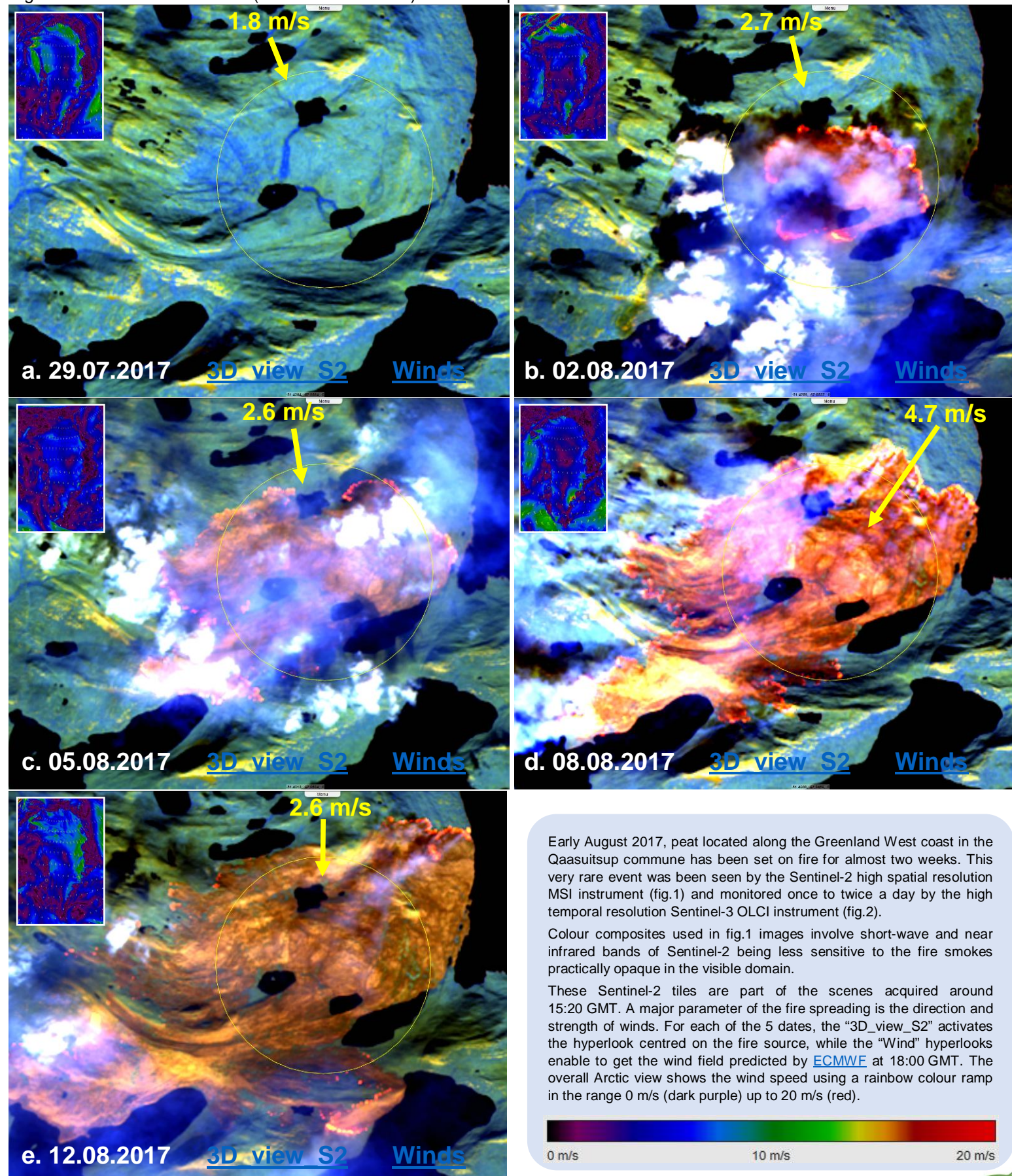
## August 2017 - Views from Sentinel-2 and Sentinel-3

### Sentinel-2 MSI

- Sentinel-2 MSI acquired on 29.07.2017, 02.08.2017, 05.08.2017, 08.08.2017, 12.08.2017

[3D-stack](#) [S2 3D animation](#)

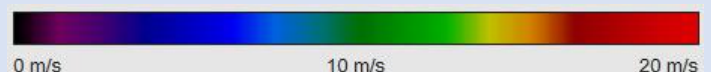
Fig.1: Sentinel-2 MSI - 12-11-8 (SWIR2-SWIR1-NIR) colour composites.



Early August 2017, peat located along the Greenland West coast in the Qaasuitsup commune has been set on fire for almost two weeks. This very rare event was seen by the Sentinel-2 high spatial resolution MSI instrument (fig.1) and monitored once to twice a day by the high temporal resolution Sentinel-3 OLCI instrument (fig.2).

Colour composites used in fig.1 images involve short-wave and near infrared bands of Sentinel-2 being less sensitive to the fire smokes practically opaque in the visible domain.

These Sentinel-2 tiles are part of the scenes acquired around 15:20 GMT. A major parameter of the fire spreading is the direction and strength of winds. For each of the 5 dates, the "3D\_view\_S2" activates the hyperlook centred on the fire source, while the "Wind" hyperlooks enable to get the wind field predicted by [ECMWF](#) at 18:00 GMT. The overall Arctic view shows the wind speed using a rainbow colour ramp in the range 0 m/s (dark purple) up to 20 m/s (red).



# Sentinel-3 OLCI

- Sentinel-3 OLCI acquired on 31.07.2017, 01.08.2017, ..., 16.08.2017, 21.08.2017

[S3 3D animation](#)

Fig.2: Sentinel-3 MSI - 10-6-3 (R-G-B) natural colour composites - Too cloudy images have not been retained.

