

The highest & lowest temperature records in China were both broken in 2023

Sentinel-2 MSI acquired on 07 January 2023 at 03:11:21 UTC
Sentinel-3 SLSTR LST acquired on 22 January 2023 at 02:22:36 UTC
Sentinel-2 MSI acquired on 16 July 2023 at 03:05:31 UTC
Sentinel-3 SLSTR LST acquired on 16 July 2023 at 04:31:13 UTC
Sentinel-1 CSAR IW acquired on 17 July 2023 at 12:01:52 UTC

Author(s): Sentinel Vision team, VisioTerra, France - svp@visioterra.fr

Keyword(s): Weather, climate change, heatwave, coldwave, drought, endorheic basin, China

Fig. 1 - S3 SLSTR (22.01.2023 & 16.07.2023) - The Chinese temperature extrema have been broken 6 months apart.

[2D view](#)

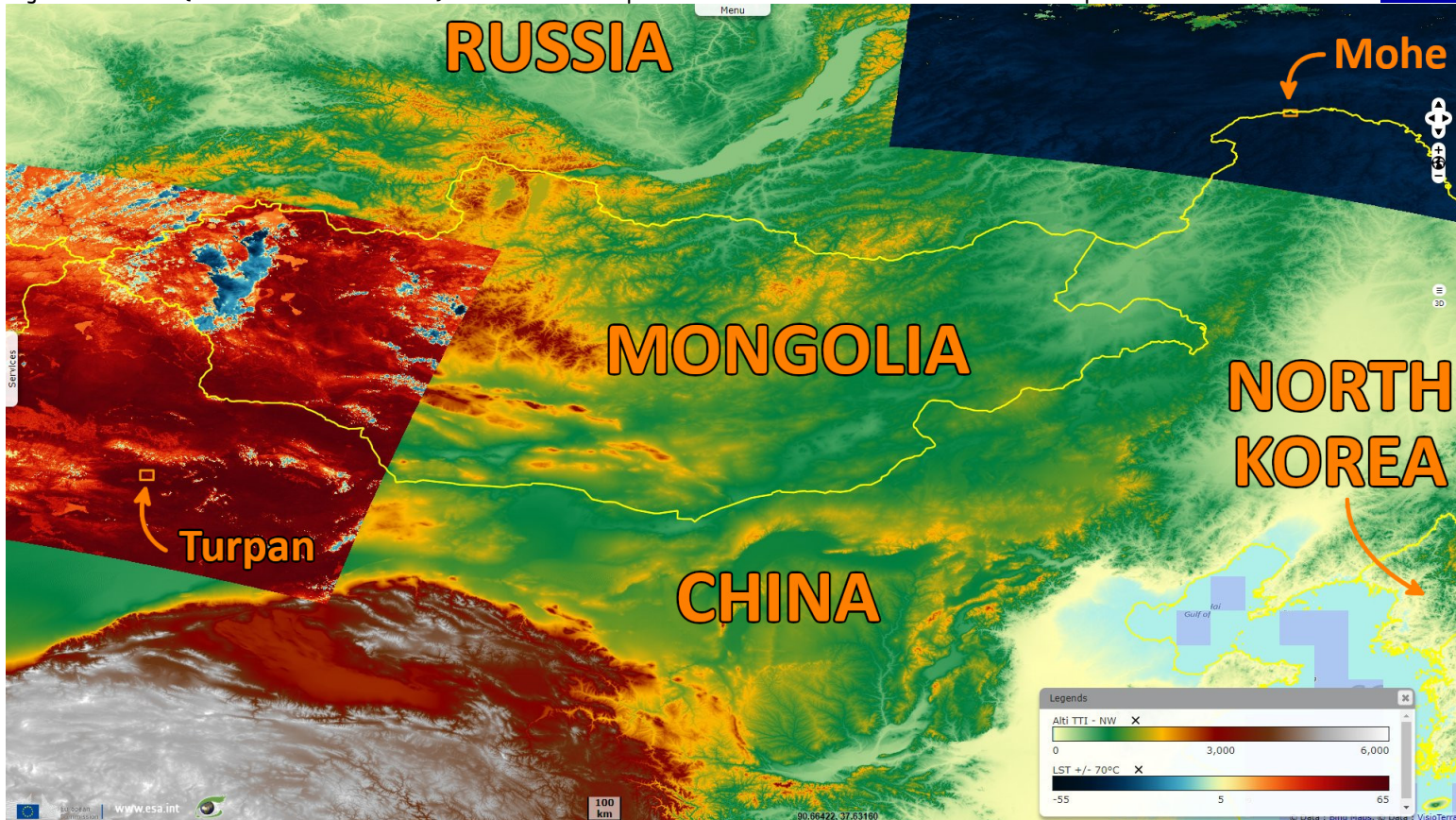
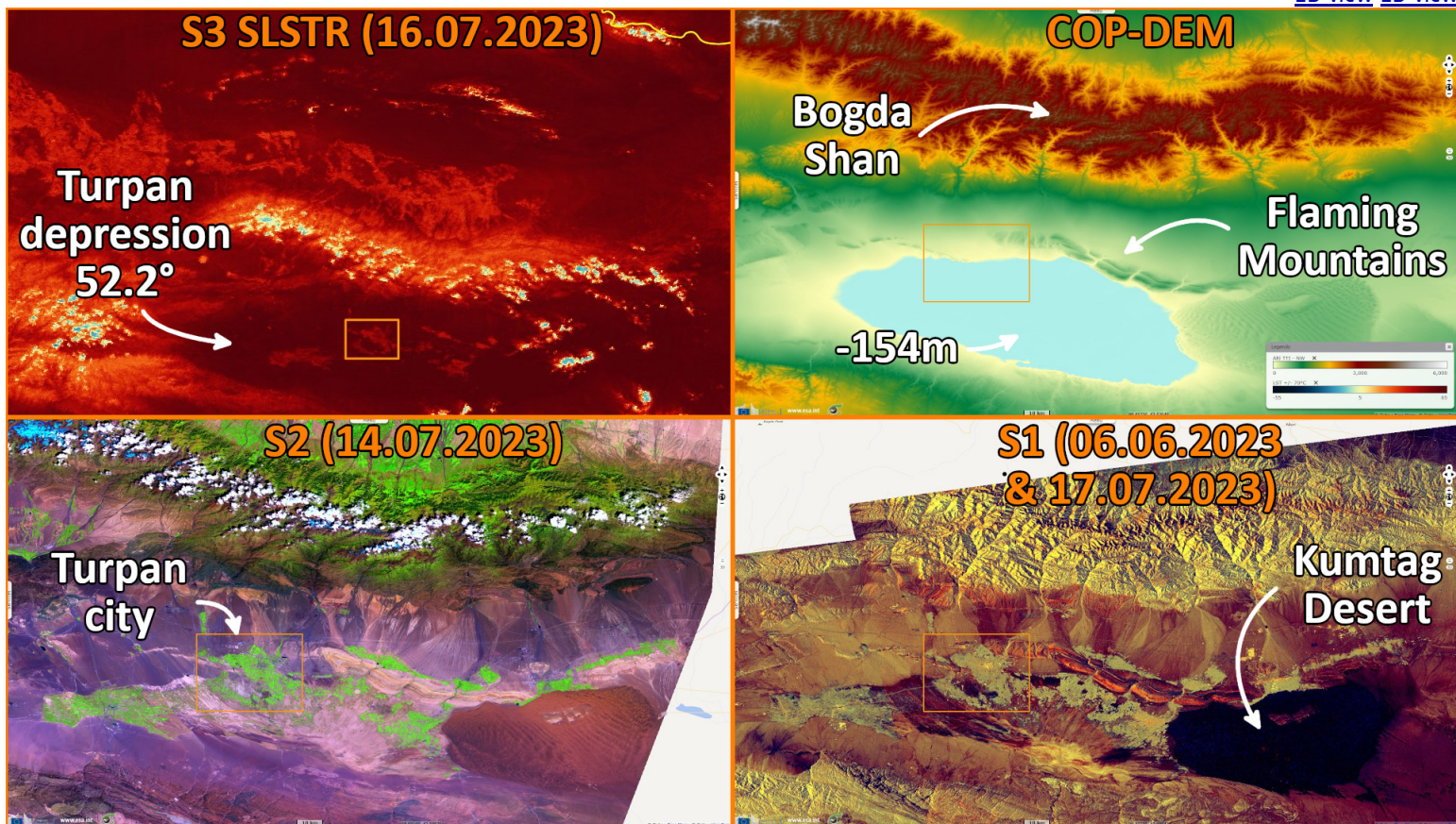
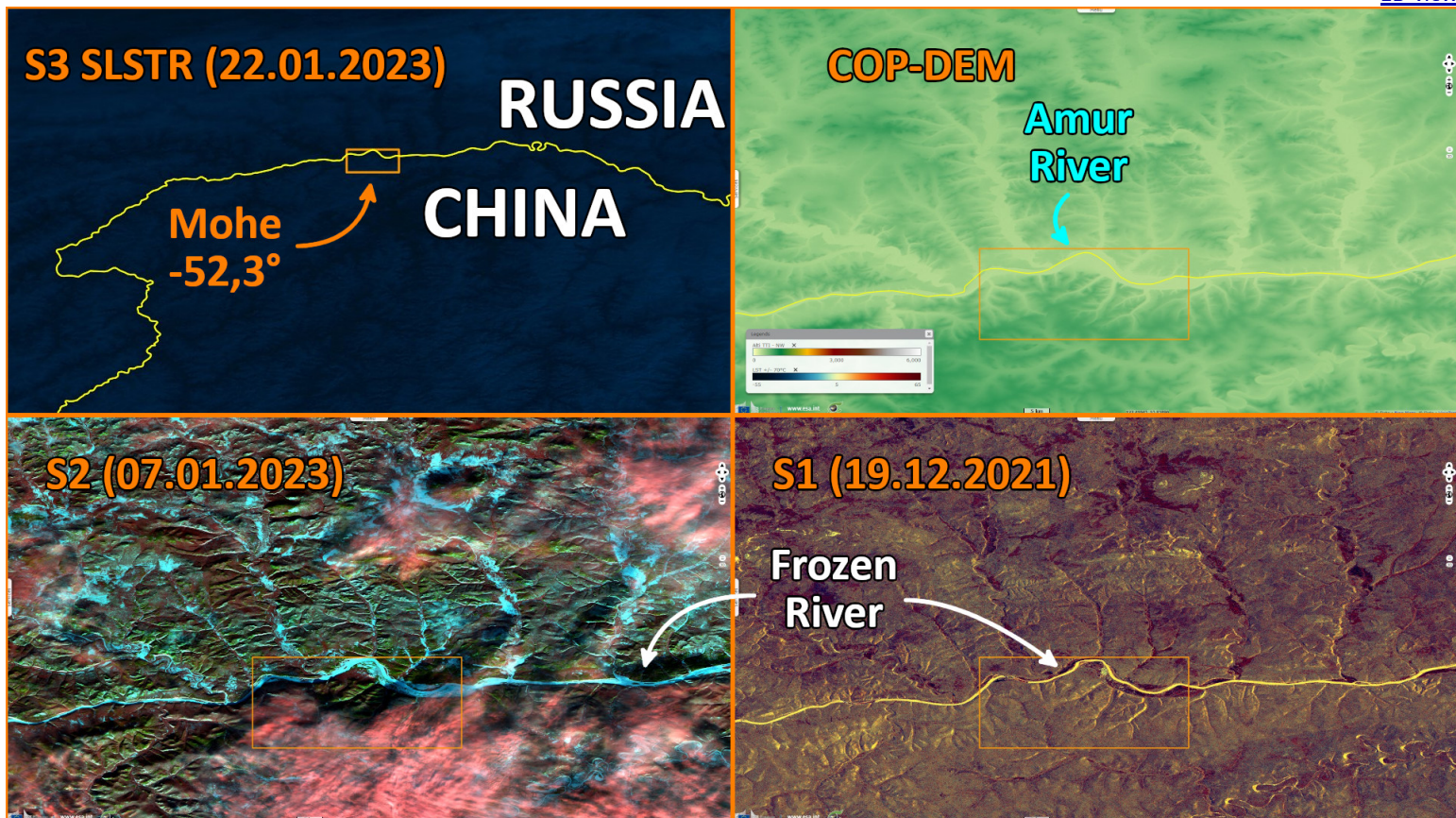


Fig. 2 - S3 SLSTR (16.07.2023); COP-DEM; S2 (14.07.2023); S1 (06.06.2023 & 17.07.2023) - +52.2°C were logged on 17 July 2023. [2D view](#) [2D view](#)
[2D view](#) [2D view](#)















In China's arid northwest, temperatures reached 52.2°C in Turpan depression, smashing the previous record by 1.9°C.

Fig. 3 - S3 SLSTR (22.01.2023); COP-DEM; S2 (07.01.2023); S1 (19.12.2021) - Mohe measured -53°C on 22 January 2023, [2D view](#) [2D view](#) [2D view](#)
[2D view](#)



Just 6 months before, the northernmost city of China had measured -53°C. It is also feared China may face another severe drought this year like it did in 2022.

The views expressed herein can in no way be taken to reflect the official opinion of the European Space Agency or the European Union.
Contains modified Copernicus Sentinel data 2023, processed by VisioTerra.

More on European Commission space:							
More on ESA:				S-1 website	S-2 website	S-3 website	
More on Copernicus program:				SciHub portal	CopHub portal	Inthub portal	Colhub portal
More on VisioTerra:				Sentinel Vision Portal	Envisat+ERS portal	Swarm+GOCE portal	CryoSat portal



Funded by the EU and ESA

SED-1325-SentinelVision

