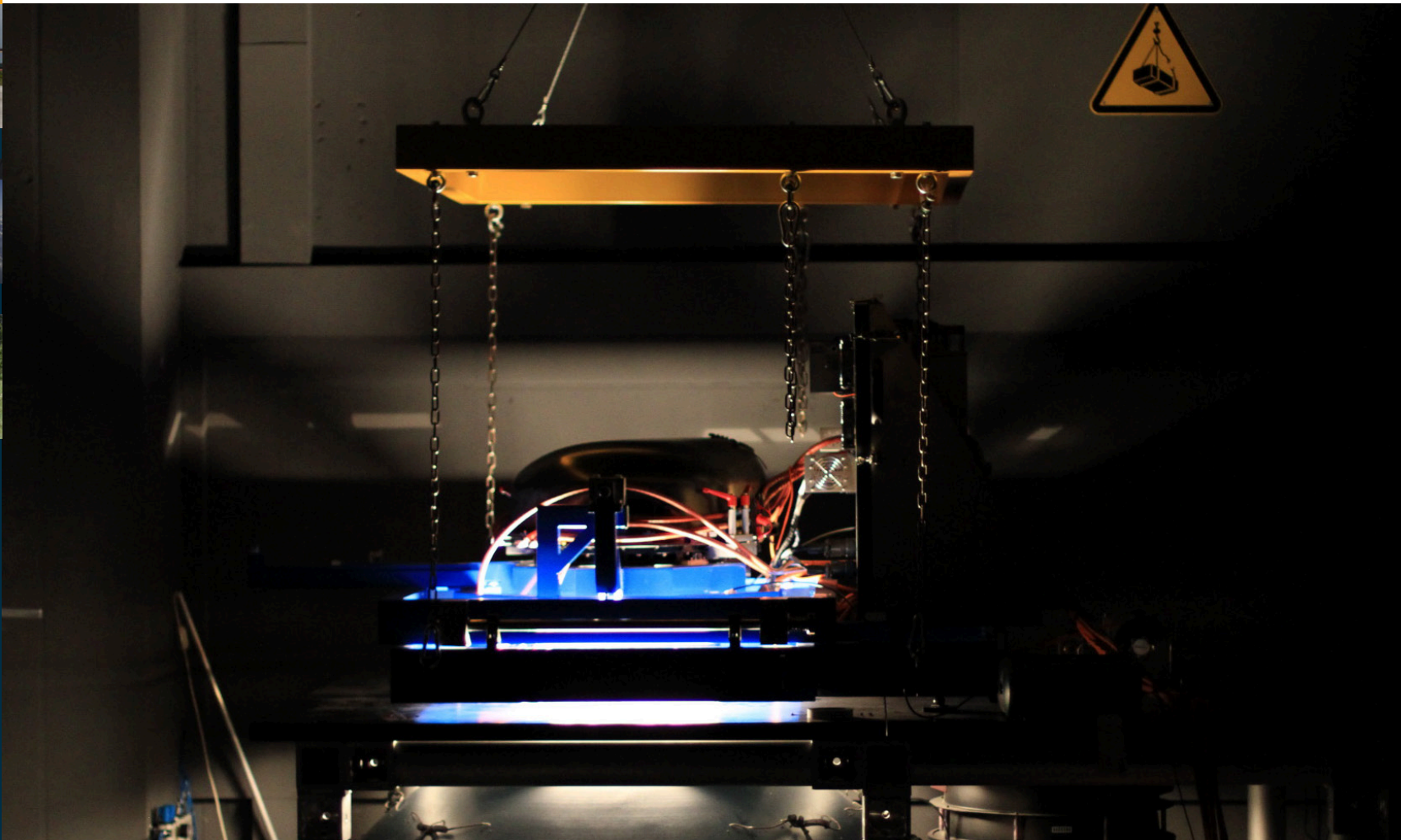
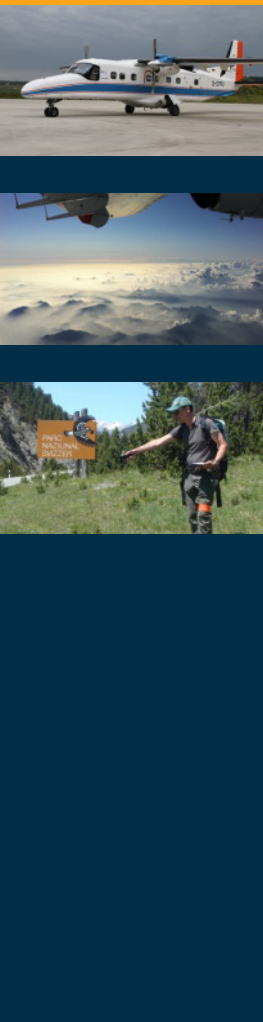


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Airborne PRISM Experiment



University of
Zurich ^{UZH}



APEX Products in Earth System Science

Cryosphere

Surface water content

Snow grain size

Impurities

...

Biosphere

Pigment composition

Fluorescence

LAI

...

Lithosphere

Abundance of clay vs.sand

Soil organic matter

Mineral composition

...

Hydrosphere

Suspended sediments

Yellow substance

Chlorophyll

...

Atmosphere

NO₂

Water vapour

Aerosols

...

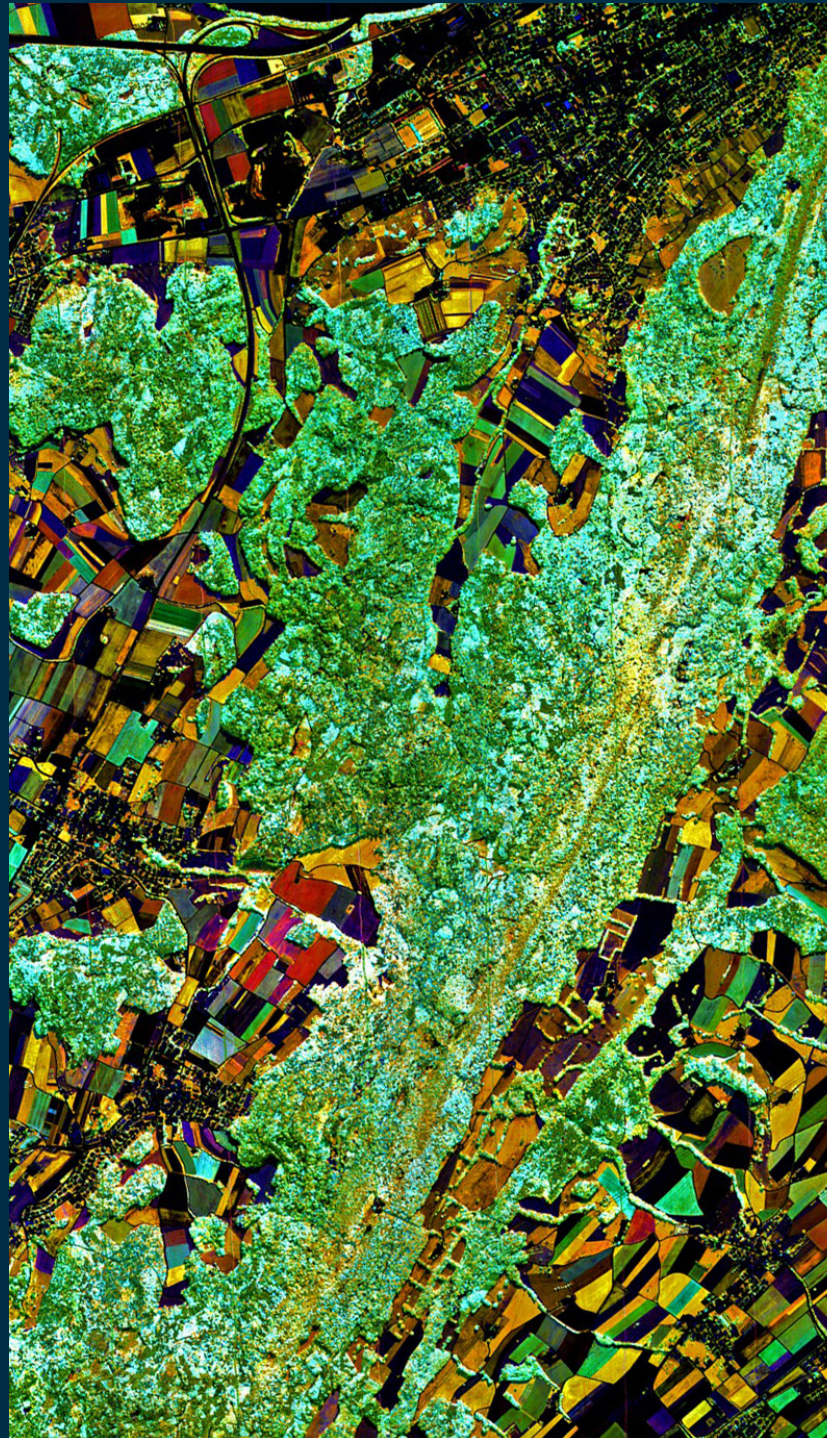


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APEX Performance

Spectral Range	380.5 – 971.7 nm VNIR 941.2 – 2501.5 nm SWIR
Spectral Bands	Up to 532 (Default: 312)
SSI	0.45 – 7.5 nm 5 – 10 nm
FWHM	0.7 – 9.7 nm 6.2 – 12 nm
Spatial	1000 Pixel
Ground Resolution	0.5 – 1.75m @ 1000 – 3500m AGL
FOV	28 Degrees

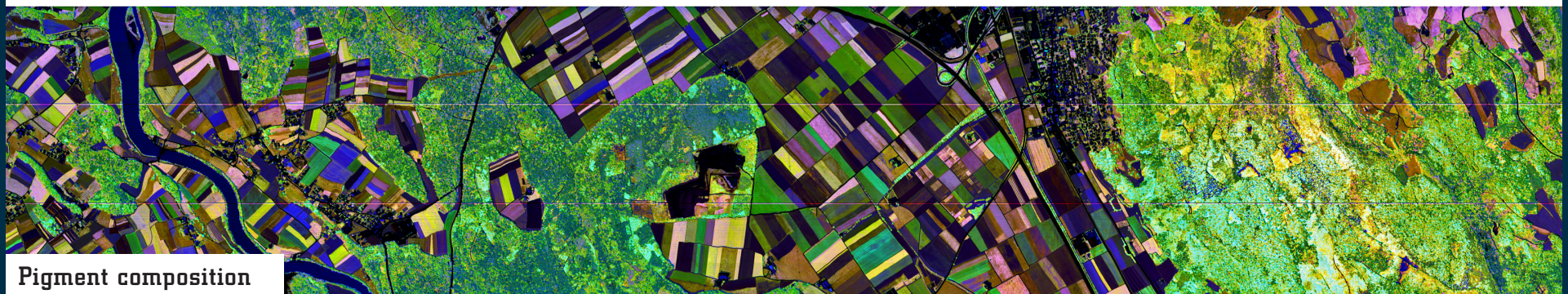
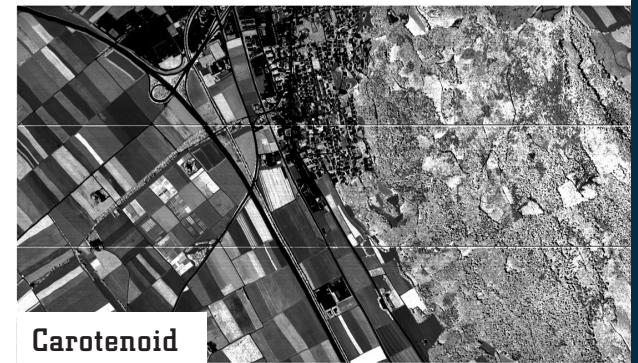
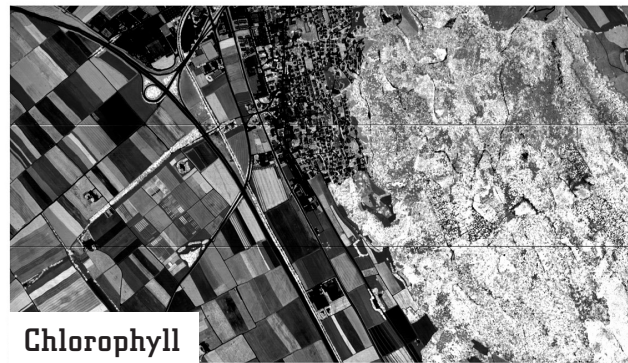
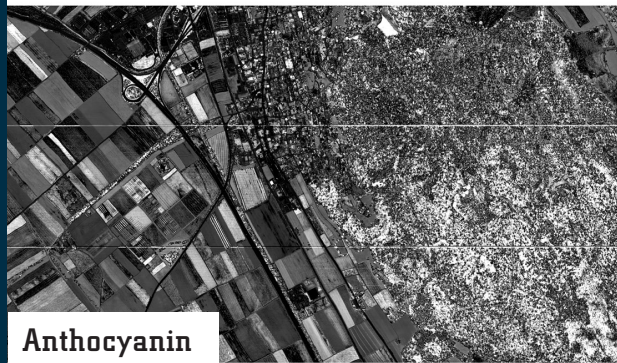


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3D VegLab, RSL Supersite, Laegeren, Switzerland

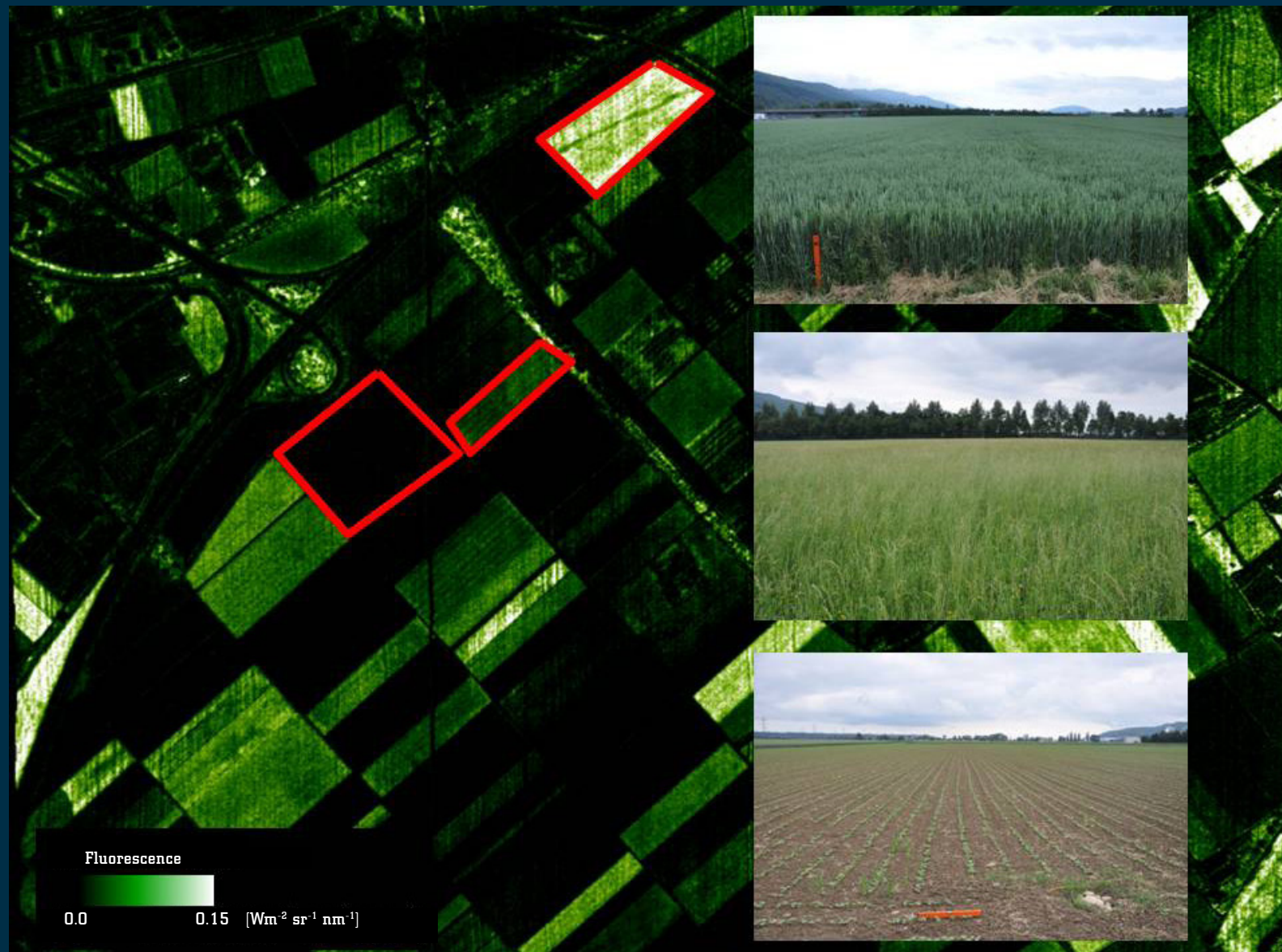
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Pigment Composition of Vegetated Ecosystems



RSL Supersite, Oensingen, Switzerland

Chlorophyll Fluorescence

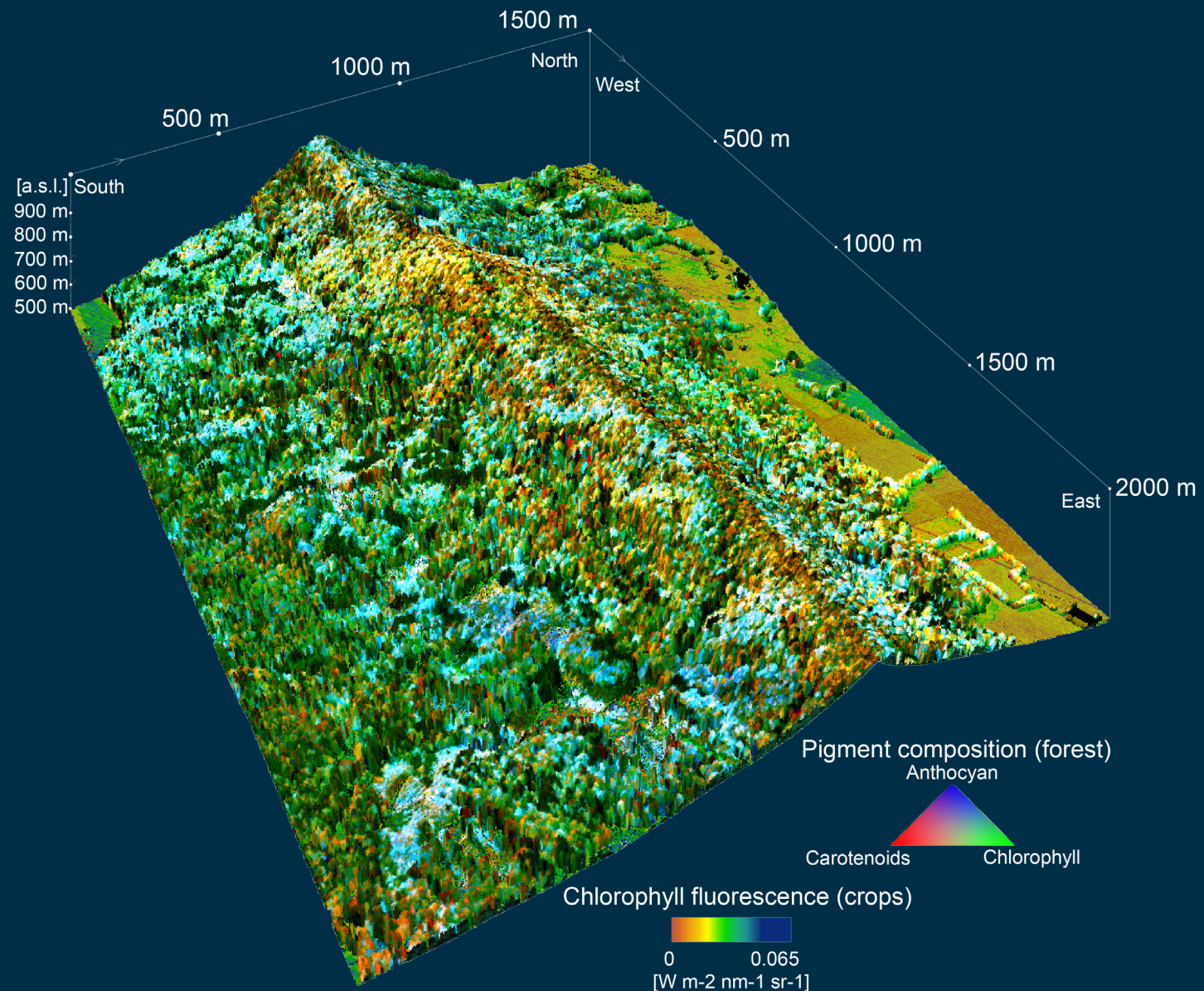


RSL Supersite, Oensingen, Switzerland

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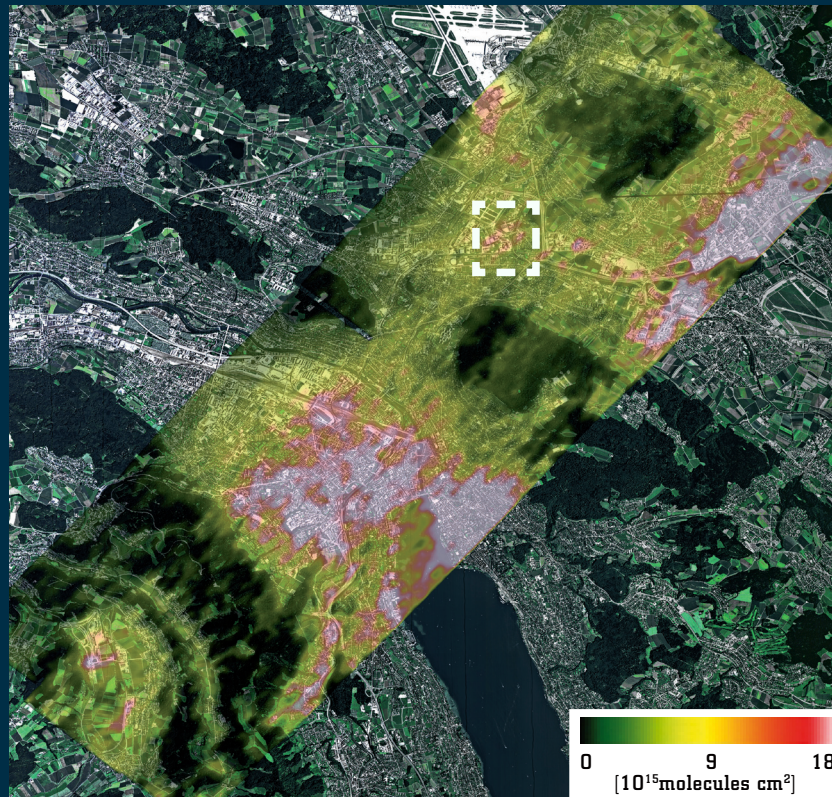
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Airborne PRISM Experiment

Biosphere Products combined with LIDAR

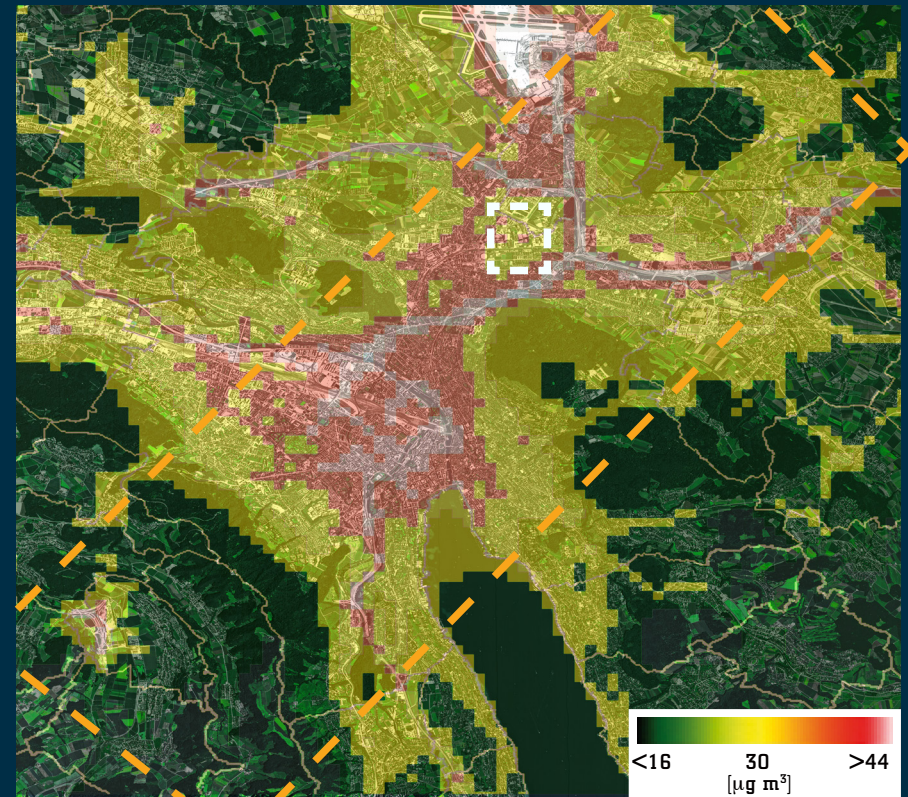


RSL Supersite, Laegeren, Switzerland

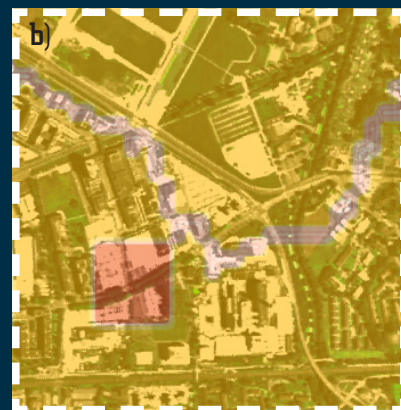
Vertical Column Densities of Atmospheric NO₂



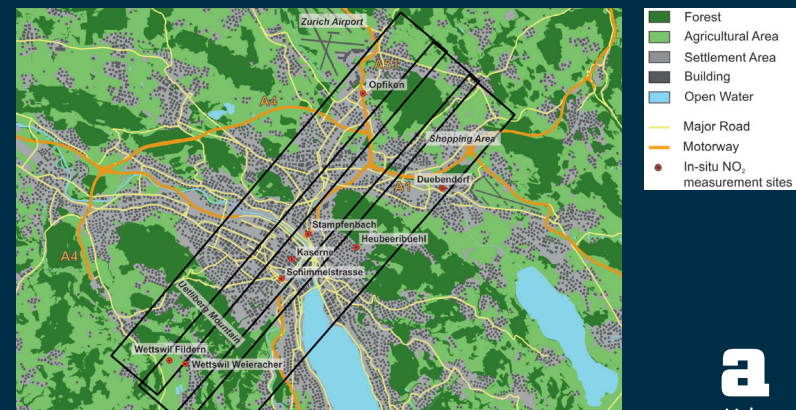
APEX NO₂ layer over APEX RGB Mosaic, Zurich, Switzerland



Yearly modelled averages of surface NO₂ concentrations



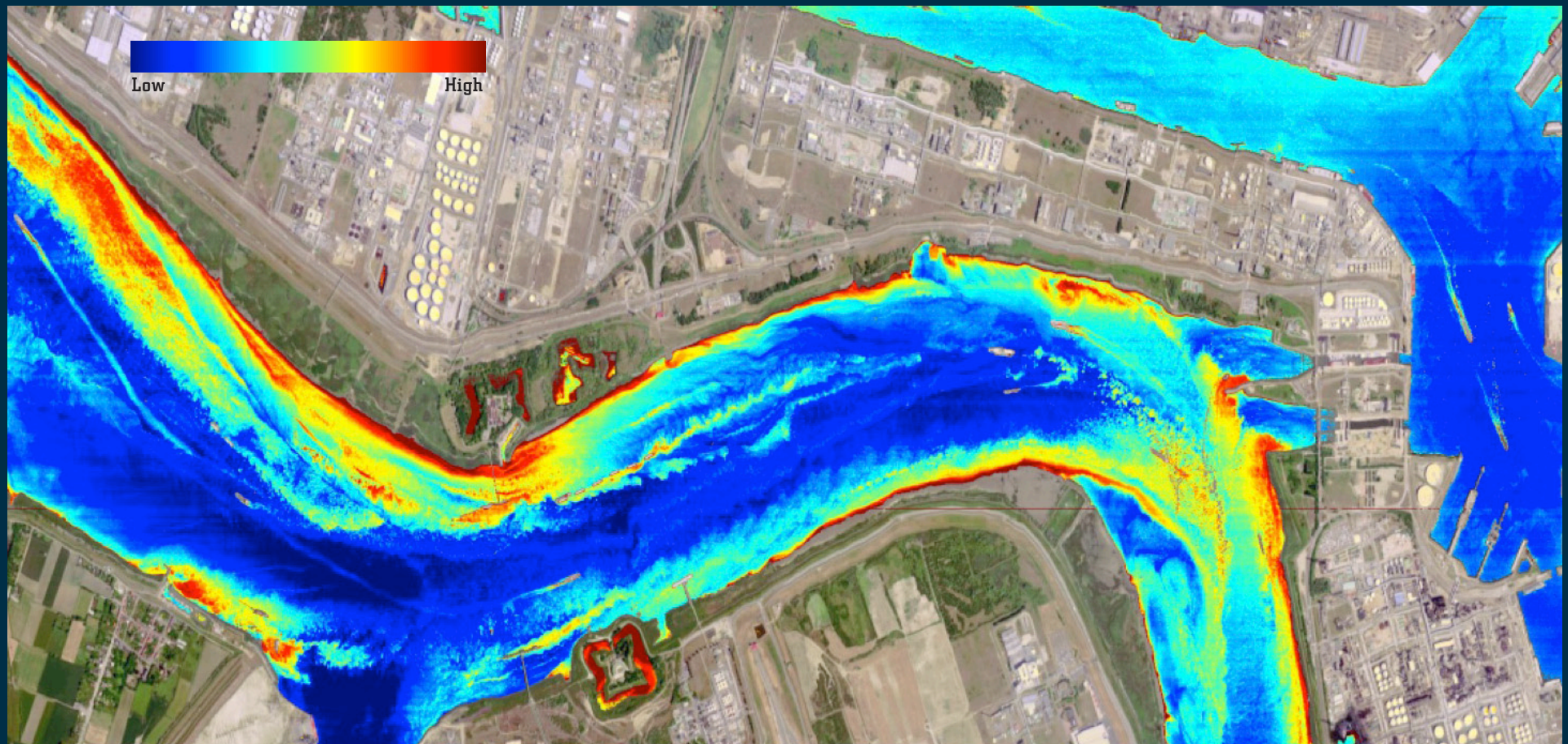
Focus on incineration plant: a) APEX measurement, b) yearly modelled average



Map of Zurich and surrounding area. Flightlines are indicated in black.

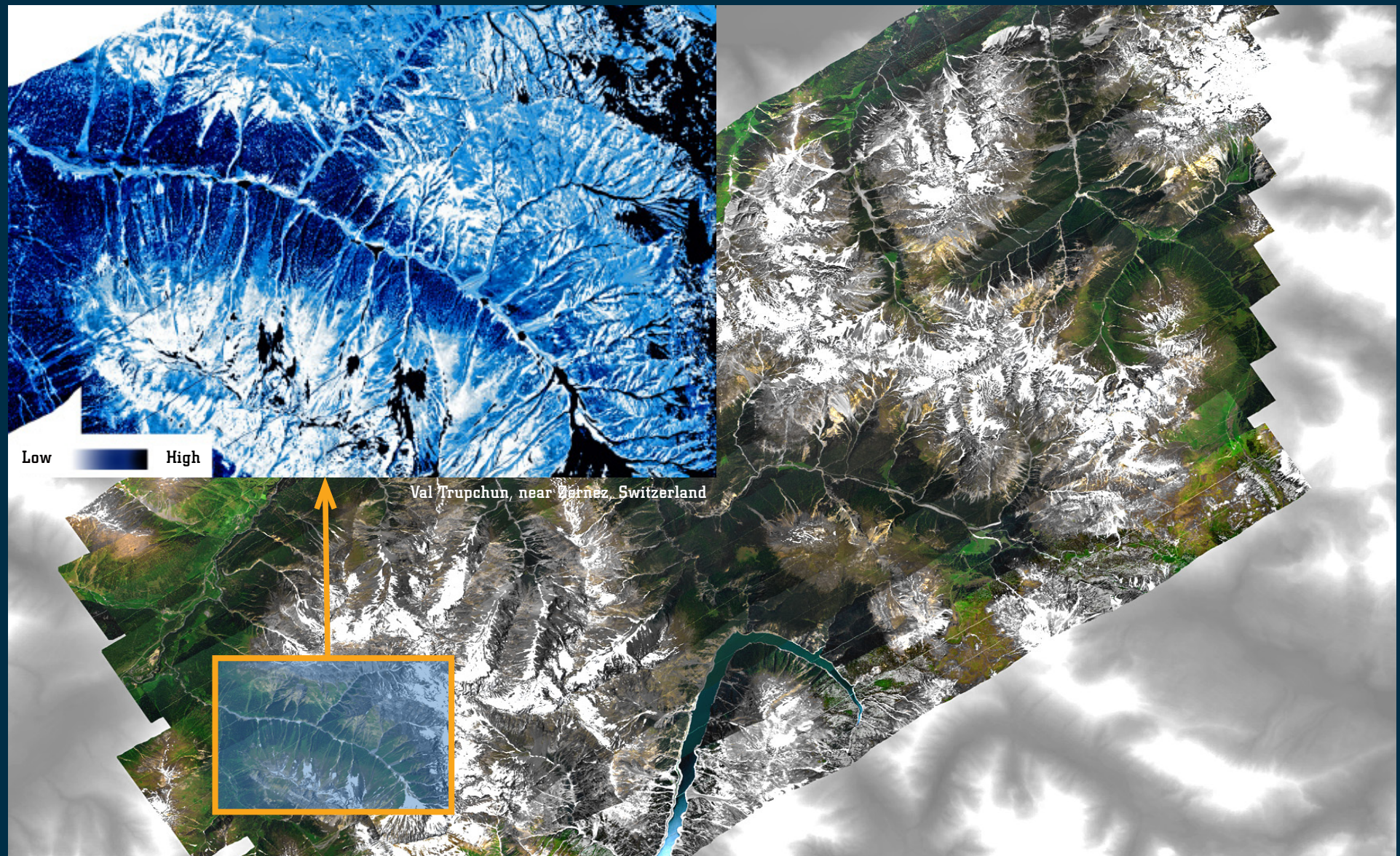
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Suspended Sediments



Scheldt River, Belgium

Continuous Fields of Columnar Surface Water content

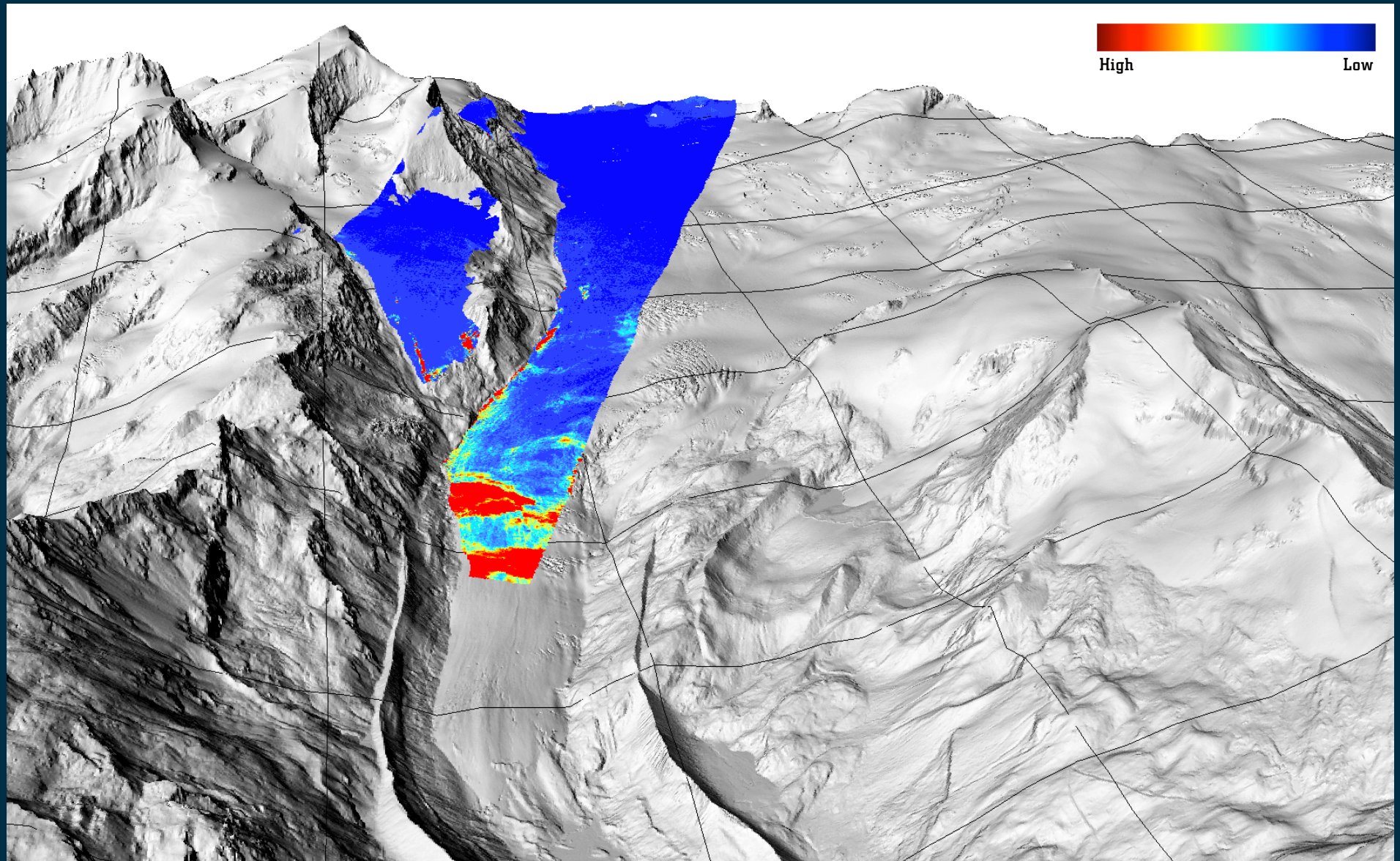


The Swiss National Park, Switzerland

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Snow Grainsize Index combined with LIDAR

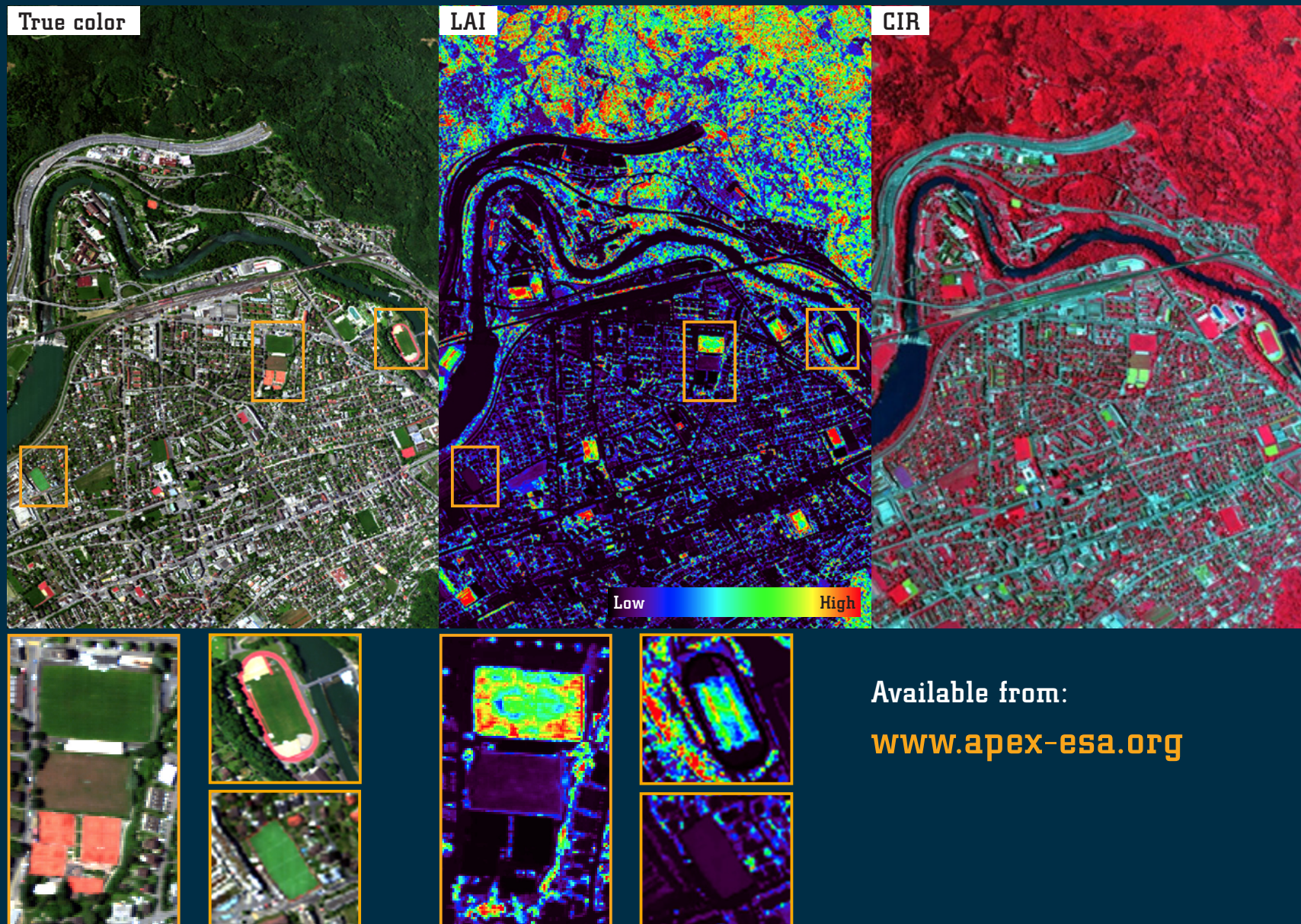


Findelenglacier, Valais, Switzerland

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APEX Open Science Data



Available from:
www.apex-esa.org



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