

# Introducing constellr's HiVE thermal data



## Satellite

Owned by constellr, SkyBee-1 and SkyBee-2 are advanced thermal infrared satellites that deliver precise land surface temperatures. The mission is currently under assessment as an ESA Third Party Mission (TPM)

## Launch

JAN/JUN  
2025

SkyBee-1 and SkyBee-2 launched in 2025. Both satellites are part of the HiVE thermal infrared constellation

## ESA support

Prior to becoming a TPM under assessment, ESA support via the InCubed programme and the Copernicus Contributing Missions programme helped constellr demonstrate its thermal sensing technology

## Data access

As a TPM under assessment, limited amounts of HiVE data are made available to users upon submission of a Project Proposal subject to evaluation and acceptance of ESA and constellr








## Products

Two land surface temperature products are available to users, with the following specifications:

	LSTprecision	LSTfusion
<b>Spatial resolution</b>	30 m	30 m
<b>Scene size</b>	15 km x 15 km	50 km x 50 km
<b>Temperature accuracy</b>	< 1 - 2 Kelvin	< 5 Kelvin
<b>Temporal coverage</b>	Q3 2025 - present	2016 - present

## Applications

HiVE can support a wide range of research topics, including:

-  Agricultural water stress detection
-  Ecosystem and forest health assessments
-  Drought and crop yield forecasting
-  Urban heat mapping studies
-  Infrastructure and industrial site monitoring

Find out how to request access to HiVE data:  
[earth.esa.int/eogateway/announcement-of-opportunity/constellr](https://earth.esa.int/eogateway/announcement-of-opportunity/constellr)