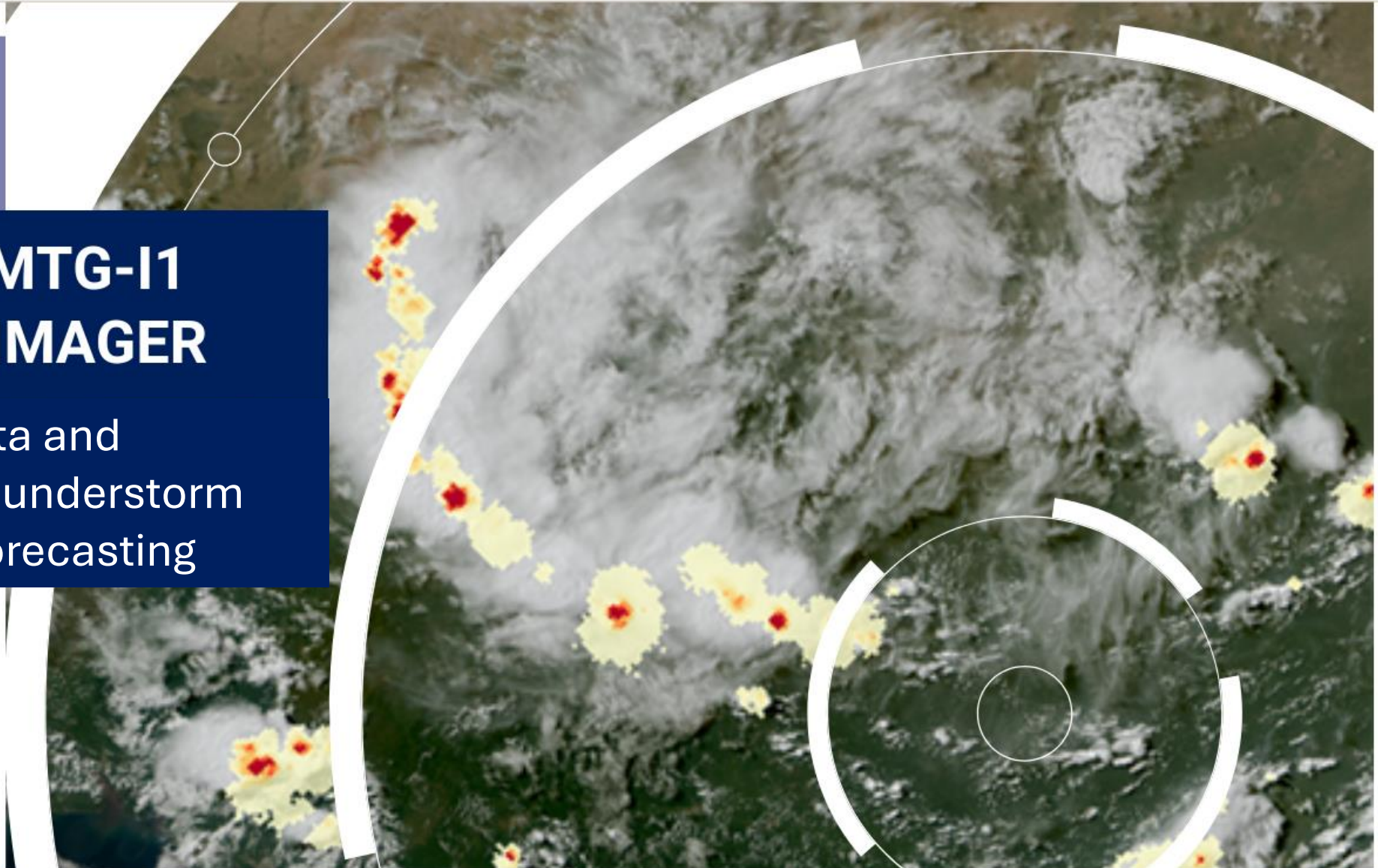


SHORT COURSE  
5 SEPT. 2024  
7-11 UTC

## EUMETSAT MTG-I1 LIGHTNING IMAGER

Background, data and  
application in thunderstorm  
detection and forecasting





## An intergovernmental organisation with 30 member states



AUSTRIA



BELGIUM



BULGARIA



CROATIA



CZECHIA



DENMARK



ESTONIA



FINLAND



FRANCE



GERMANY



GREECE



HUNGARY



ICELAND



IRELAND



ITALY



LATVIA



LITHUANIA



LUXEMBOURG



THE NETHERLANDS



NORWAY



POLAND



PORTUGAL



ROMANIA



SLOVAK  
REPUBLIC



SLOVENIA



SPAIN



SWEDEN



SWITZERLAND



TURKEY



UNITED KINGDOM





## EUMETSAT mission

### Primary objective:

Establish, maintain and exploit European systems of meteorological satellites.

### Further objective:

Contribute to the operational monitoring of the climate and the detection of global climatic changes.



- Providing observations and data services for operational weather and Earth system monitoring and forecasting, and for climate services.
- Establishing additional capabilities in partnerships with the European Union and other satellite operators to achieve synergy with our own satellite missions for the common benefit of Member States and partners.
- Strong international collaborations within Europe, the US, and Africa as well as others.



# Launch of next-generation satellites 2022-2027

www.eumetsat.int

Year

2022

2023

2024

2025

2026

2027

MTG-I1



MTG-I1 launch



MTG-S1



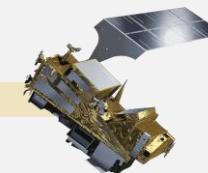
MTG-S1 launch



Metop-SGA1



Metop-SGA1 launch



MTG-I2



MTG-I2 launch



Metop-SGB1



Metop-SGB1 launch



System Integration, Verification and Validation

Launch Campaign

Commissioning



- Imagery mission implemented by two MTG-I satellites
- Full disc imagery every 10 minutes in 16 bands
- Fast imagery of Europe every 2.5 minutes
- **New Lightning Imager (LI)**
- Start of operations in 2023
- Operational exploitation: ~2023-2043



# Today's Short Course AGENDA

www.eumetsat.int

## Introduction

09:05 – 09:30 **Introduction to lightning** (Sven- Erik Enno – EUMETSAT)

09:30 – 10:00 **LI instrument and LI data – acquisition, filtering, processing and products** (Bartolomeo Viticchie – EUMETSAT)

10:00 – 10:25 **LI performance (live examples, monitoring...)** (Sven-Erik Enno – EUMETSAT)

Q & A

10:30 – 10:50 **Accessing and Downloading LI data via EUMETSAT's Pull Data Access Services** (Noemi Marsico – EUMETSAT)

10:50 – 11:10 **Visualization of LI – SIFT demo, Satpy introduction** (Andrea Meraner - EUMETSAT)

Q & A

BREAK

11:25 – 11:45 **LI data visualization and comparison with other lightning location systems using Jupyter Notebooks** (Sven-Erik Enno – EUMETSAT)

11:45 – 12:15 **European NMHSs presentations – The use of LI data at Météo France, the improvement of NWCSAF convection products** (Jean-Marc Moisselin – Météo France)

12:15 – 12:45 **Storms over Europe with LI data – case studies and findings in different LI products** (Tomáš Púčik - ESSL)

Q & A

**Q&A and feedback survey: [slido.com](https://www.slido.com) #EUMSC46**