

# Bhoonidhi Vista

## Online Visualization and Exploration of Multi-mission EO Data



# Preface

- Satellite data has been employed for many societal applications, including change detection, feature monitoring, and disaster support.
- The pre-requisite for some of these applications is to visualize the geo-referenced satellite data with overlays of administrative or feature layers to identify the regions.
- Efficient visualization has been proven to provide solutions for diverse applications ranging from navigation to disease monitoring

# Introduction

Bhoonidhi VISTA - Visualization of Terrestrial Acquisitions is a visualization portal providing full resolution multi-mission data visualization capabilities



# BHOONIDHI

We enable access to our extensive archive of Remote Sensing data from 44 satellites, including Indian and Foreign Remote Sensing sensors acquired over 31 years. We also facilitate the Regional distribution of Sentinel and LandSat-8 data in India.



# Salient Features

- Multi Mission- Multi Sensor support
- Visualization layers published incrementally upon each acquisition
- Multiple Visualization and analysis modes
- Bhoonidhi-VISTA Time Lapse animation

# Visualization & Analysis Modes

- Day-wise layer visualization
- Latest cycle visualization
- Date-range visualization
- Change visualization through time-lapse animation over selected AOI
- Change analysis using comparison slider
- Elementary impact measurement using measurement tools

# Missions Supported

- EOS-04
- Resourcesat-2 AWIFS, LISS-3 and L4MX
- Resourcesat-2A AWIFS, LISS-3 and L4MX
- Sentinel 1A
- Sentinel 2A and 2B
- Landsat-8 RGB and Brightness Temperature
- Landsat-8 RGB
- Upcoming missions:
  - Cartosat-2S
  - Oceansat-2 & 3

# Additional Capabilities

- Provides essential insights for decision-making in diverse application domains.
- Saves users the need to search, download/purchase satellite data and process it for visualization.
- Administrative and infrastructure overlays are available for the users to overlay on visualization layers.



Resourcesat-2

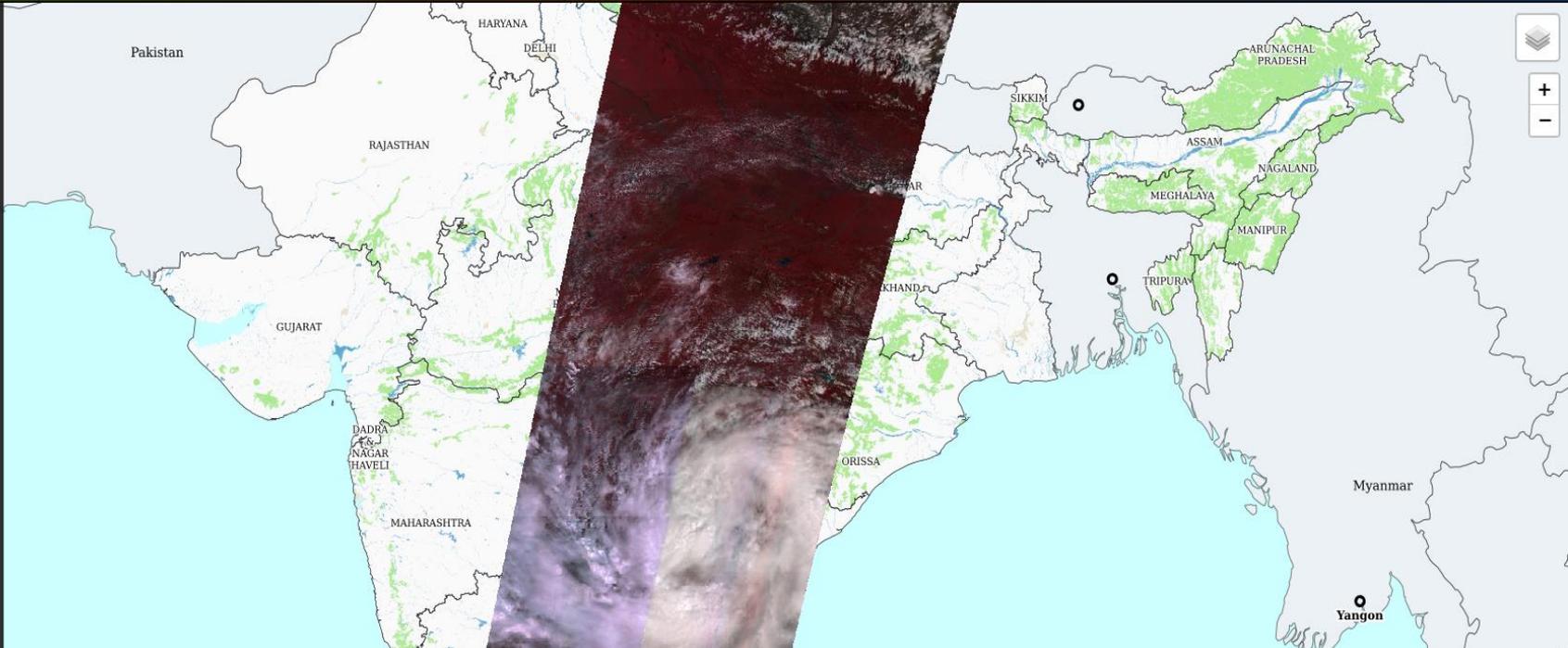
W

STANDARD

27 September 2021

27 September 2021

View Data





Resourcesat-2

AWIFS

STANDARD

Latest Cycle

08 May 2022

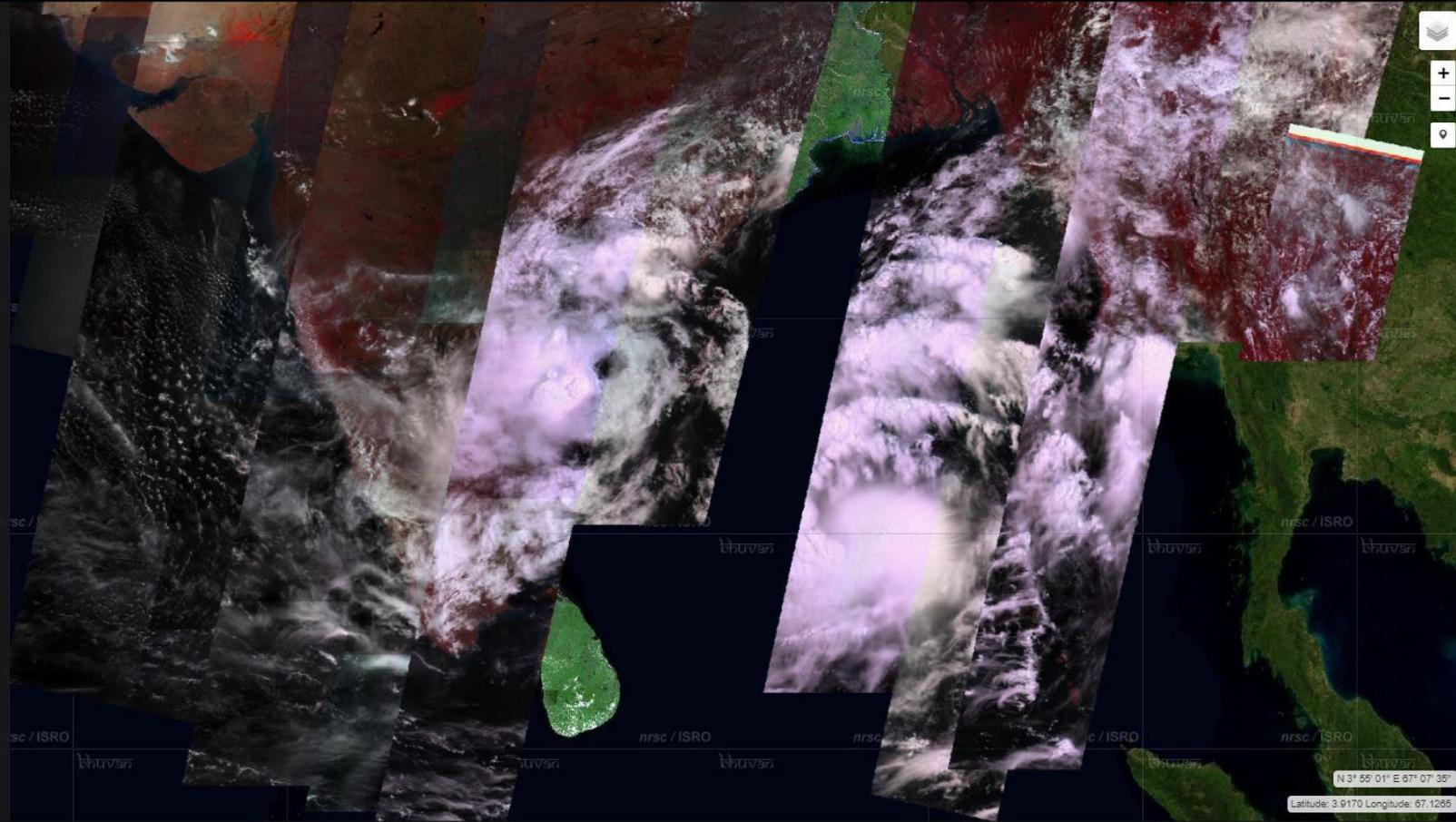
11 May 2022

View Data

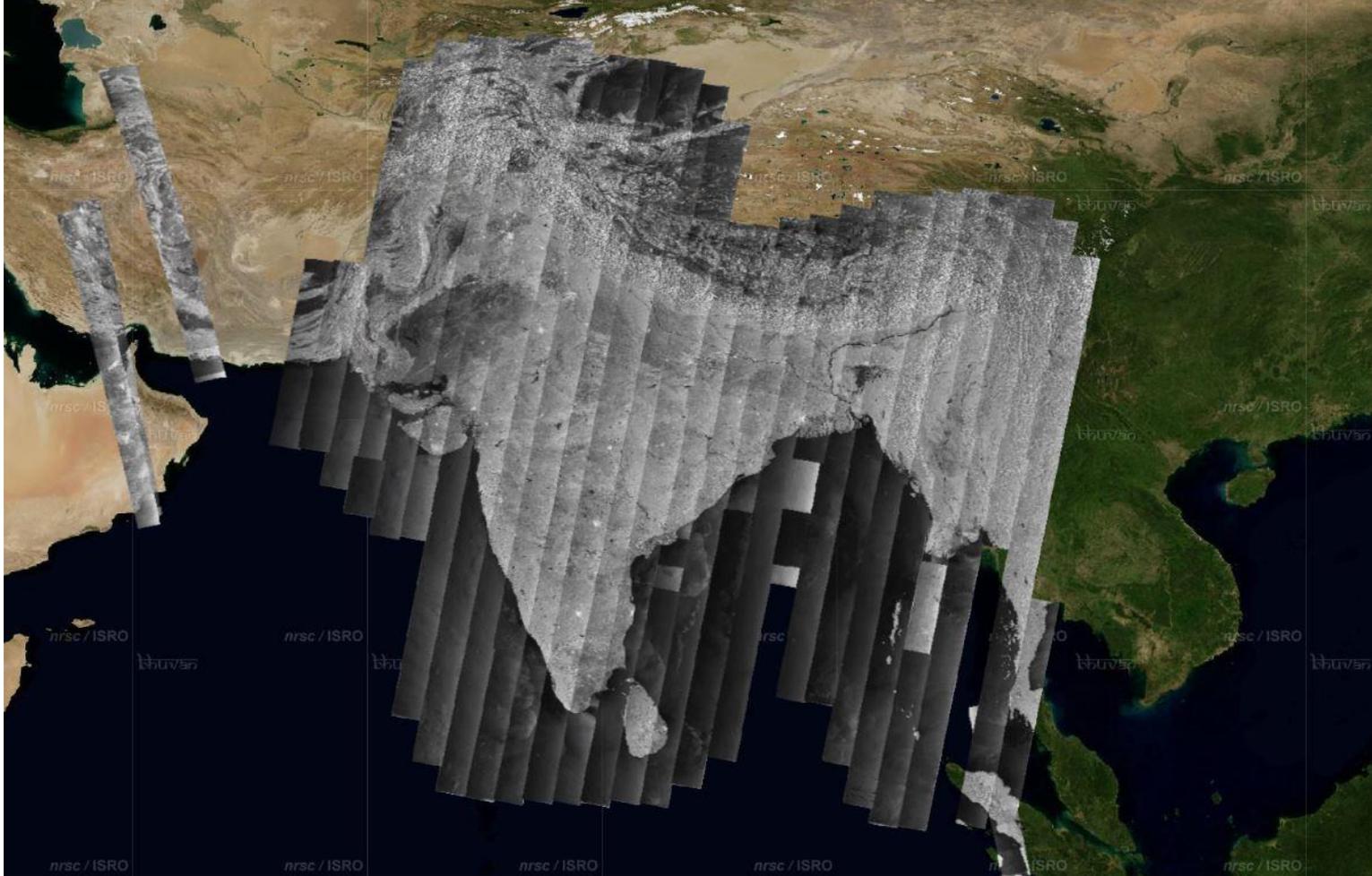
Time Interval : 3 seconds

Progress bar

Animate Data Help



Navigation icons: Home, Back, Forward, Zoom In, Zoom Out, Location





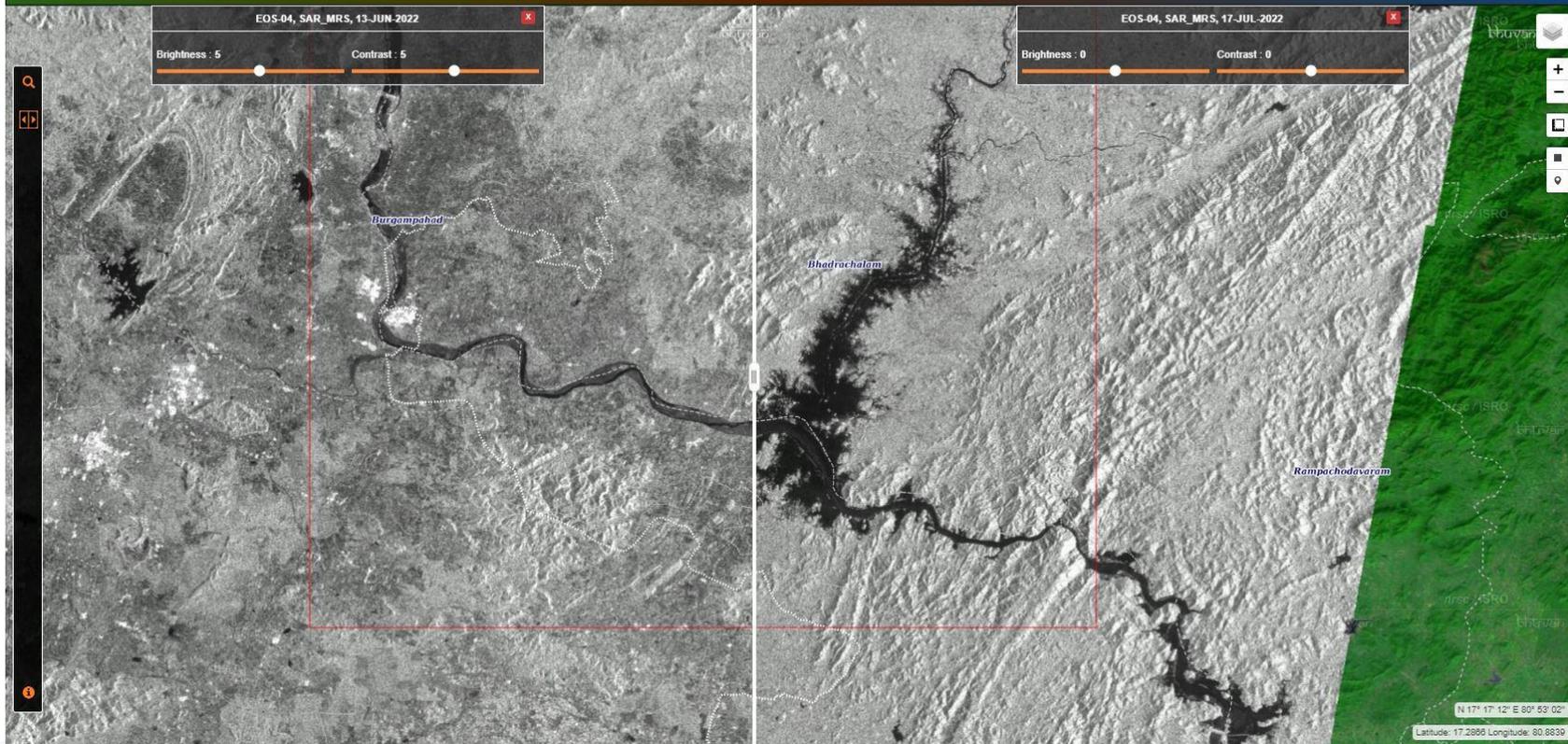
Bhoonidhi Vista







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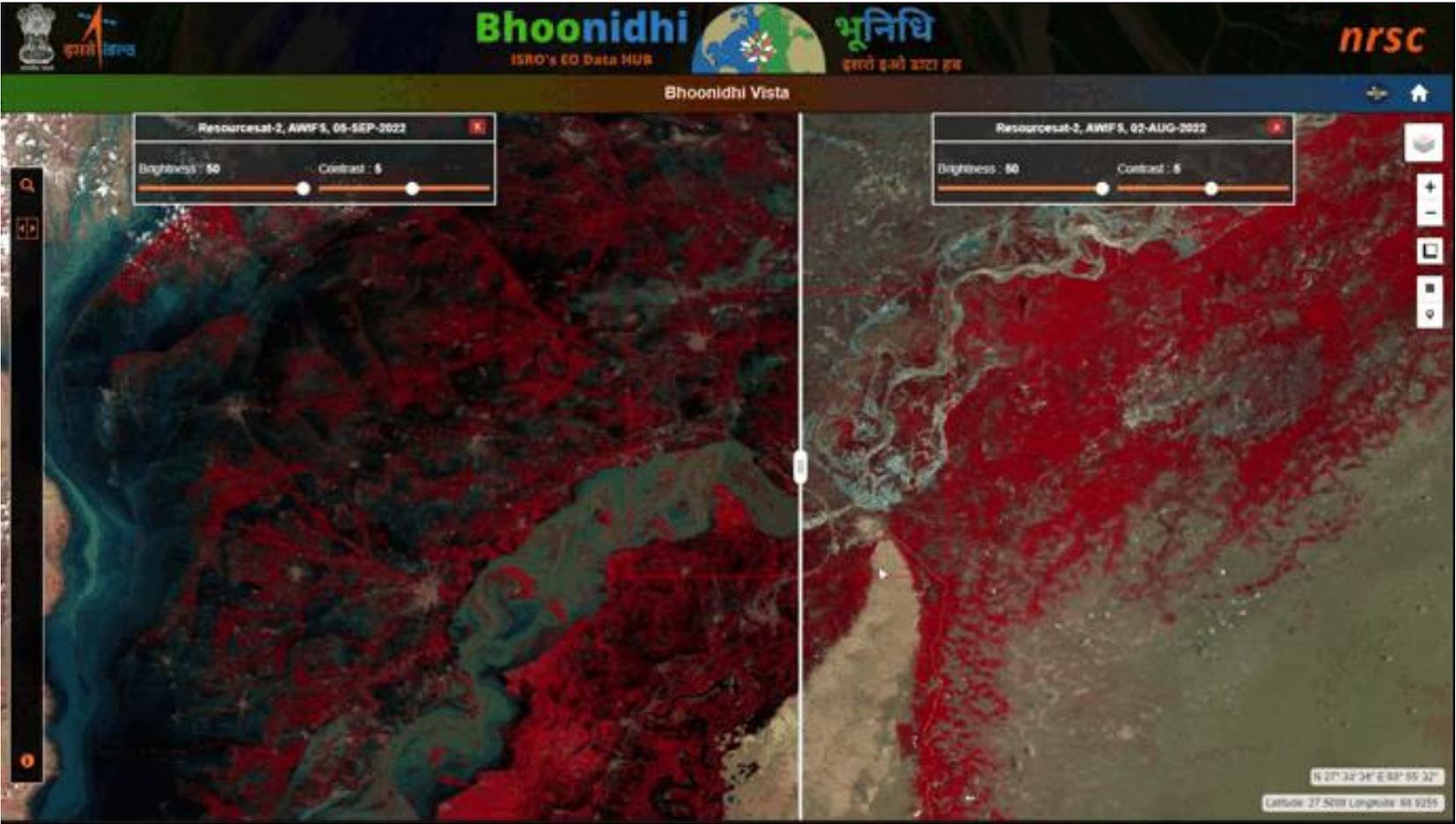


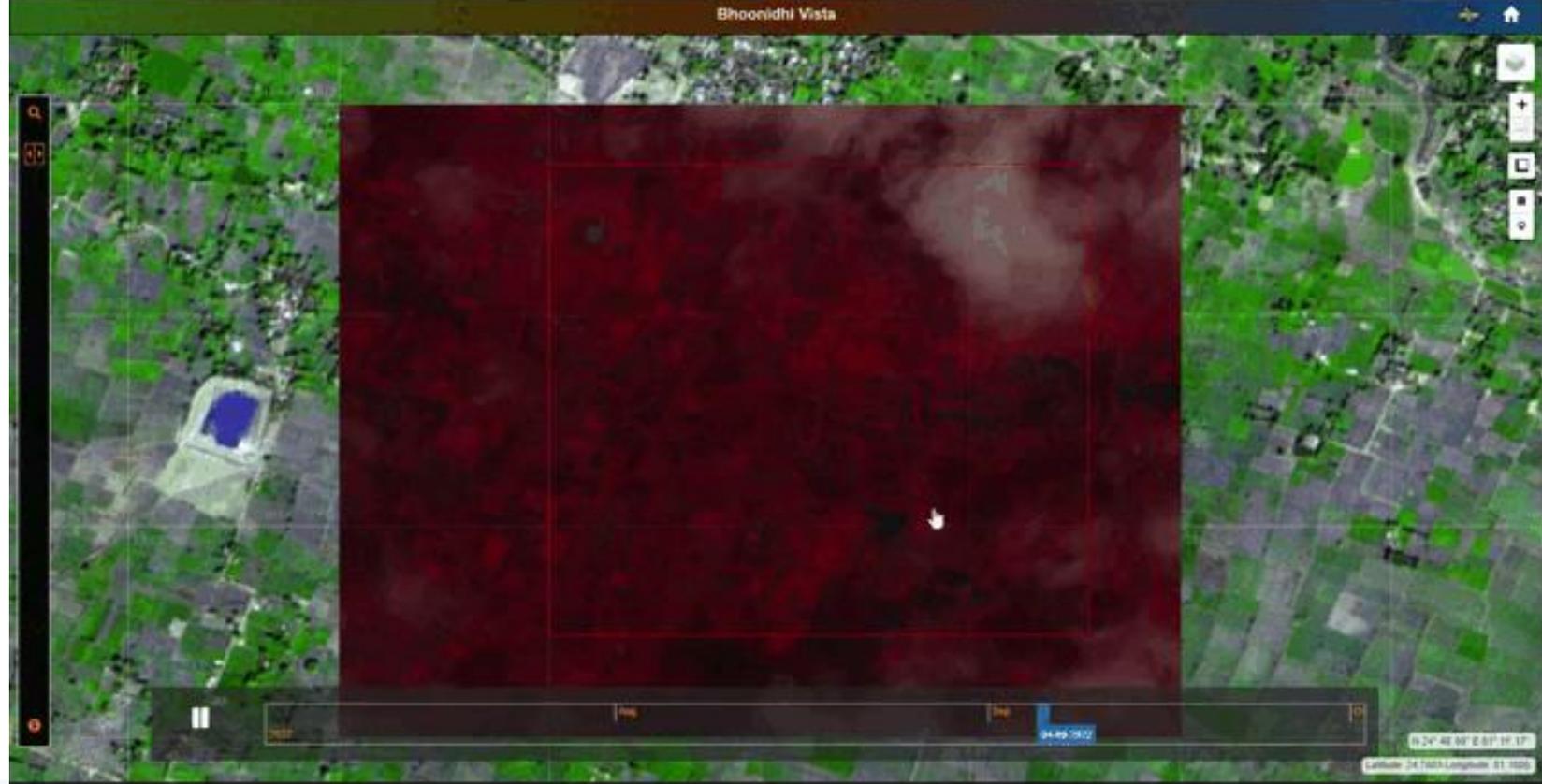




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## VISTA DEMO