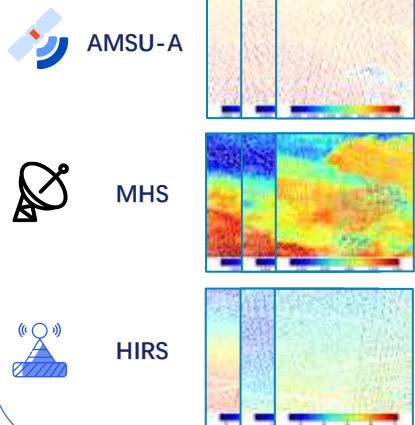
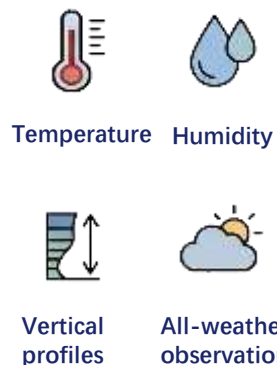


Multi-source Earth System Data

1 Atmosphere Sounding



2 Station Data



3 Event Records

- EM-DAT
- Humanitarian Stats
 - Socio-economic Indicators



ObsCrisis-Bench

Global Coverage and Dataset



62 Countries

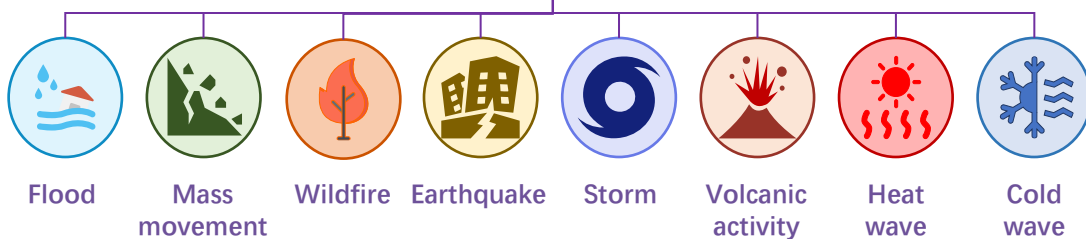
127 Events

4202 VQA samples

7 Continent

Disaster Taxonomy

Level1: 8 Disaster Categories



Level2: 28 Disaster Subcategories

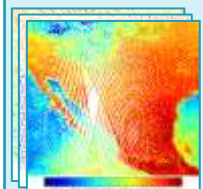


Lifecycle-oriented Evaluation

Timeline

1 Pre-disaster

- Risk Detection
- Type Classification
 - Arrival Time Prediction
 - Initial Duration Prediction

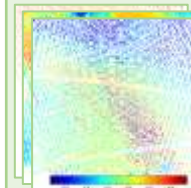


Q: Based on the satellite observation at t1, assess the risk of an impending disaster.

A: Yes

2 During-disaster

- Active Termination Prediction

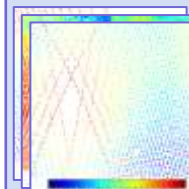


Q: Predict the remaining duration of the disaster event based on observation at t16.

A: 10

3 Post-disaster

- Humanitarian Burden
- Socio-economic Intensity
 - Magnitude Deduction



Q: Predict the total number of deaths caused by the disaster. Input Range: t1. Context: Country: Algeria, Location: Béjaïa, Bouira...

A: 32.5