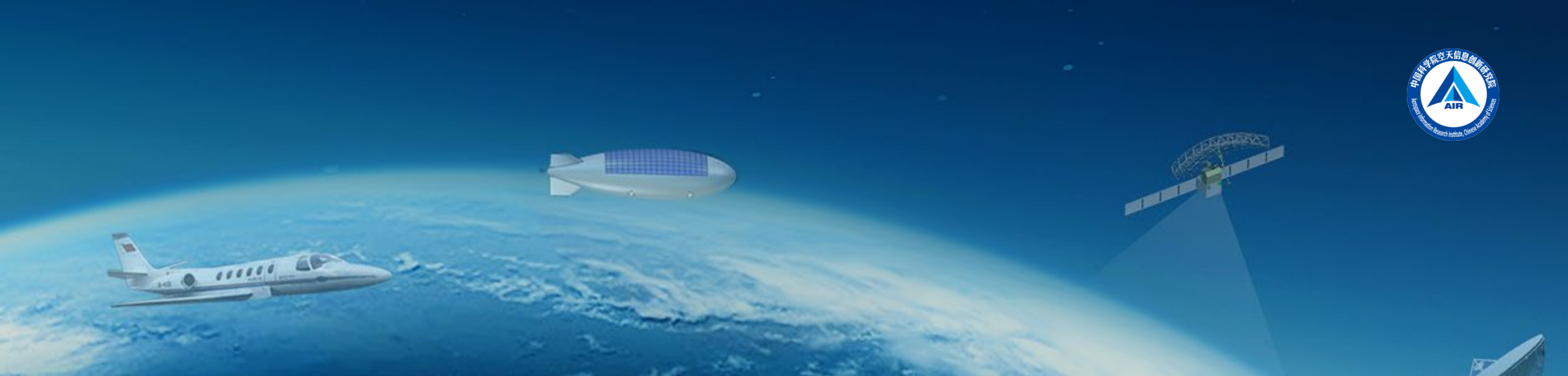




# **Update from Aerospace Information Research Institute, Chinese Academy of Sciences (AIRCAS)**

**LIU Jie**

**Oct 15, 2025**



As IRDR Host Institution

AIRCAS: provides full **operational support** to the IPO, and **explore potential cooperations** with IRDR and its community, during IRDR Phase II.



# 1. Operational Support

- for personnel management

## 01 Oversight

AIRCAS's Director-General consult on the appointment of ED and ED's annual assessment and contract renewal with SC chair

## 02 Staff employment

Comprehensive **on-boarding services** for IPO staff

## 03 Support for international staff

**Visa/residential assistance** , eg: Kerry-Ann Morris, Science and Communication Officer....

- for IPO funds management

- Assists with seed fund transfer and contract establishment
- Support CAST's annual audit currently underway
- Complies with Chinese law and financial regulations and procedures of AIRCAS....

**Provides dedicated office space, working environment and publication support, etc.**



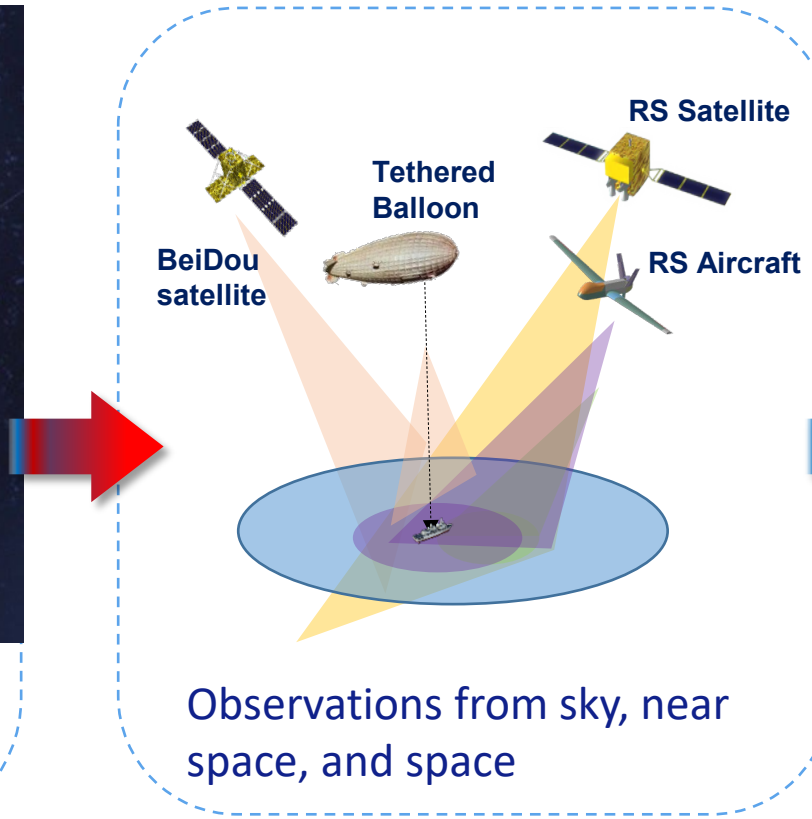
## 2. Technical Support | Full-Chain R&D System of AIRCAS

Focusing on **13** key areas across aerospace information, AIRCAS has formed a **full-chain R&D system** from space to ground



Microwave detection / optical payload  
/ electromagnetic detection /

**Payload and Devices**



Observations from sky, near  
space, and space

**Information Acquisition  
Platforms**



RS science / Digital Earth, RS product  
validation / RS application

**Information processing and  
applications**





# Technical Support | Big Science Research Infrastructure

## China Remote Sensing Satellite Ground Station

- Five ground stations
- Real-time data reception covering Chinese territory and 70% of the land area of Asia
- Abundant historic data archive

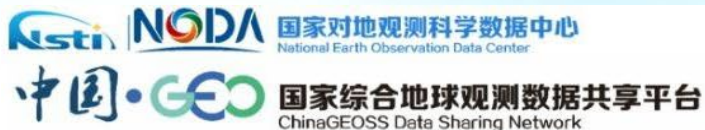
## Chinese Airborne Remote Sensing System

- Four remote sensing aircraft
- scientific experiments/satellite calibration and verification/**emergency monitoring and rescue** / flights for public welfare





# Technical Support | Data Sharing in Global DRR



<https://noda.ac.cn/>

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重点数据库 TOP EARTH OBSERVATION RESOURCES

生物多样性

能源和矿产管理

基础设施和交通管理

城市可持续发展

**灾害可恢复力**

粮食安全与可持续农业

公共卫生监督

水资源管理

汇交入口 HARVESTING ENTRANCE

[国家科技计划项目数据成果汇交](#)  
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数据服务 DATA SERVICE

总下载量(TB)  
5,033.53

总访问量(万人次)  
12,717.08

总注册量(人)  
74,992

总数据量(TB)  
3,358.48

[Dataset](#) [Image](#) [GEOAR](#)

DataClassifications [all]

Earth observation data produ...

Geophysical field data products >

Optical data products >

Microwave data products >

Information and deep proces...

Remote sensing inversion data products >

Remote sensing interpretation data



# Support for Capacity Building of DRR

## Series of SDGs Capacity Building Workshops for Developing Countries



### Innovating SDG

**Monitoring: Integrating  
Big Earth Data for Official  
Statistics**

*Nairobi, Kenya*

In Partnership with  
**PARIS21**



### Small Island Developing States Capacity Building Workshop on Utilizing Big Earth Data for SDGs

Serving **over 30** participants from **over 10** SIDs  
countries for 2 consecutive years – **2024** and **2025**

*Beijing, China*

In Partnership with  
**UNDESA**



### Potential Applications of Big Earth Data in Monitoring and Assessing the SDGs

*UN Headquarter, Nairobi*

In Partnership with  
**UNEP**



### 3. AIRCAS-IRDR Cooperation | Documents and Publications

**Jointly issued by SDGSAT-1 and IRDR on UNDRR website during 2024-2025 :**

#### 1. Assessment of the Libya flood based on high spatial night-time light data from SDGSAT-1

<https://www.preventionweb.net/publication/assessment-libya-flood-based-high-spatial-night-time-light-data-sdgsat-1>

#### 2. Assessment of Los Angeles wildfire based on multisource remote sensing data

<https://www.preventionweb.net/publication/assessment-los-angeles-wildfire-based-multisource-remote-sensing-data>

#### 3. Assessment of Xizang earthquake based on high spatial remote sensing data

<https://www.preventionweb.net/publication/assessment-xizang-earthquake-based-high-spatial-remote-sensing-data>

#### 4. Analysis of Gansu Jishishan earthquake based on nighttime light

<https://www.preventionweb.net/publication/analysis-gansu-jishishan-earthquake-based-nighttime-light>







# AIRCAS-IRDR Cooperation | Research Project

## Joint construction of disaster risk **knowledge base** and **Q&A system**

- Data Collection
- Data Cleaning
- Test Set Creation
- Knowledge Graph Design
- Knowledge Graph Implementation
- Open Science Knowledge Base
- Data Vectorization
- Model Pre-training and Fine-tuning
- System Integration, Deployment, and Testing



**Mission:** Powering Global Sustainable Development with Digital Technologies

## Advancing DSP with IRDR

- Ecosystem and Environment
- Food Security
- Resilient cities
- Water Resources
- **Climate Change and Disasters**
- Energy



# *Connecting AIRCAS with the Rest of the World*

*Active engagement from the IRDR communities is warmly welcomed !*





# Thank you !

**Aerospace Information Research Institute,  
Chinese Academy of Sciences (AIRCAS)**

**No.9 Dengzhuang South Road, Haidian District,  
Beijing 100094, China**

**international@aircas.ac.cn**

**www.aircas.ac.cn**