



# China

## National Astronomical Data Center

Chenzhou CUI

National Astronomical Data Center

National Astronomical Observatories, CAS

# China-VO Current Status

Home Chenzhou Cui welcome! Dashboard Logout ScienceCloud 简体中文

China-VO 中国虚拟天文台 Observation Data Tools Cloud Public

进入图库

公众超新星搜寻项目

热点新闻  
ADASS: 天文中最懂计算机的人和计算机中最喜欢天文...  
大数据, 引领天文科普教育未来新方向  
国家天文科学数据中心建设运行实施方案通过专家组论证...

CVO2019来了! 天文信息学年度盛会邀您相约大庆...  
获取国际望远镜观测时间计划 (TAP) 2020A观测...  
科学数据大会来啦! 数据驱动的科普教育分会亮点抢先看...

百年IAU首开教育学术研讨会  
PSP颁奖啦! 今年谁又收获“小欢喜”?

更多...

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Home > Data welcome! Login ScienceCloud 简体中文

China-VO 中国虚拟天文台 Observation Data Tools Cloud Public

Chinese Astronomical Data Center

input coordinate or target name 30 arcSEC Find Dataset

Sample: 15.51967109 -0.28502335 m31

郭守敬望远镜 LAMOST

500米口径球面射电望远镜

明安图观测基地

Domestic Dataset

AST3 Image	📄 🔍	AST3 Light Curve	📄 🔍	AST3 Survey	📄 🔍
BASS DR1 gradd	📄 🔍	BASS DR1 Images	📄 🔍	BASS DR2 gradd	📄 🔍
BASS DR2 Images	📄 🔍	BASS DR2 Stack	📄 🔍	BASS EDR	📄 🔍
CSTAR	📄 🔍	GMG2.4m	📄 🔍	LAMOST Quasar Catalog	📄 🔍
SCUSS Catalog	📄 🔍	SCUSS Image	📄 🔍	SCUSS Proper Motion	📄 🔍

Solar Dataset

Huairou SOS	📄 🔍	NVST	📄 🔍	SBR5	📄 🔍
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Other

TwoMass	📄 🔍	UCAC	📄 🔍	WISE	📄 🔍
Dragon on Silkroad	📄 🔍	GAIA DR1	📄 🔍	GAIA DR2	📄 🔍
Casjobs	🔍	SDSS DR12	📄 🔍	Vizier	📄 🔍
Historical Plates	📄 🔍				

Links

I/DA China-VO NAOC CDS NASA/IPAC NED NASA/IPAC IRSA MAST Portal NASA/ADS arXiv.org (Astrophysics)

Certified Member of

CON SEAL WORLD DATA SYSTEM 中国科学院 国家天文台 NASTI GEOATA.CN

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# China-VO Today



平台综合数据

平台注册用户数

21895

望远镜

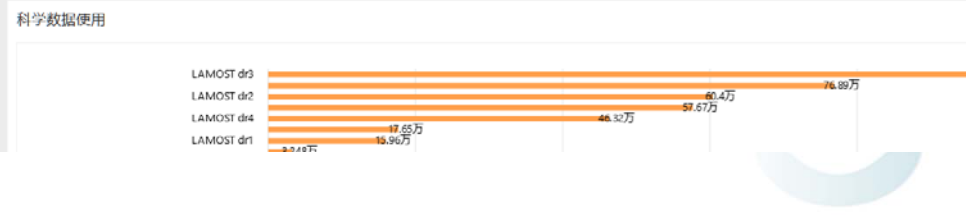
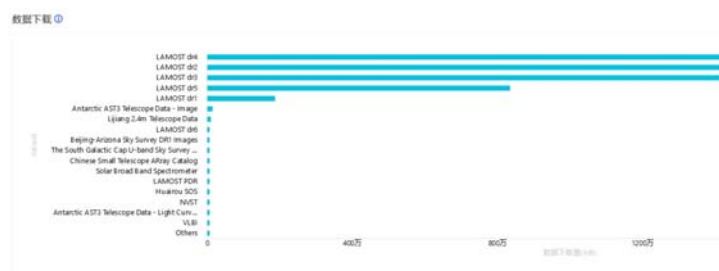
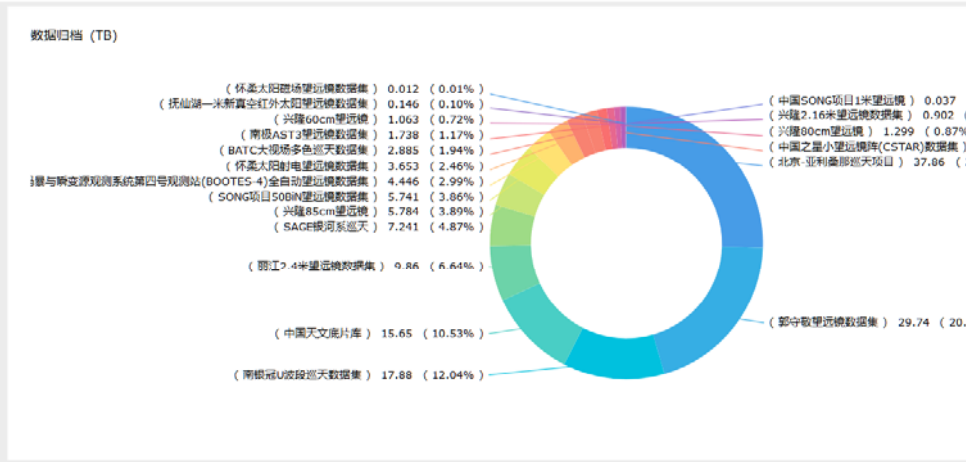
数据归档

科学数据使用

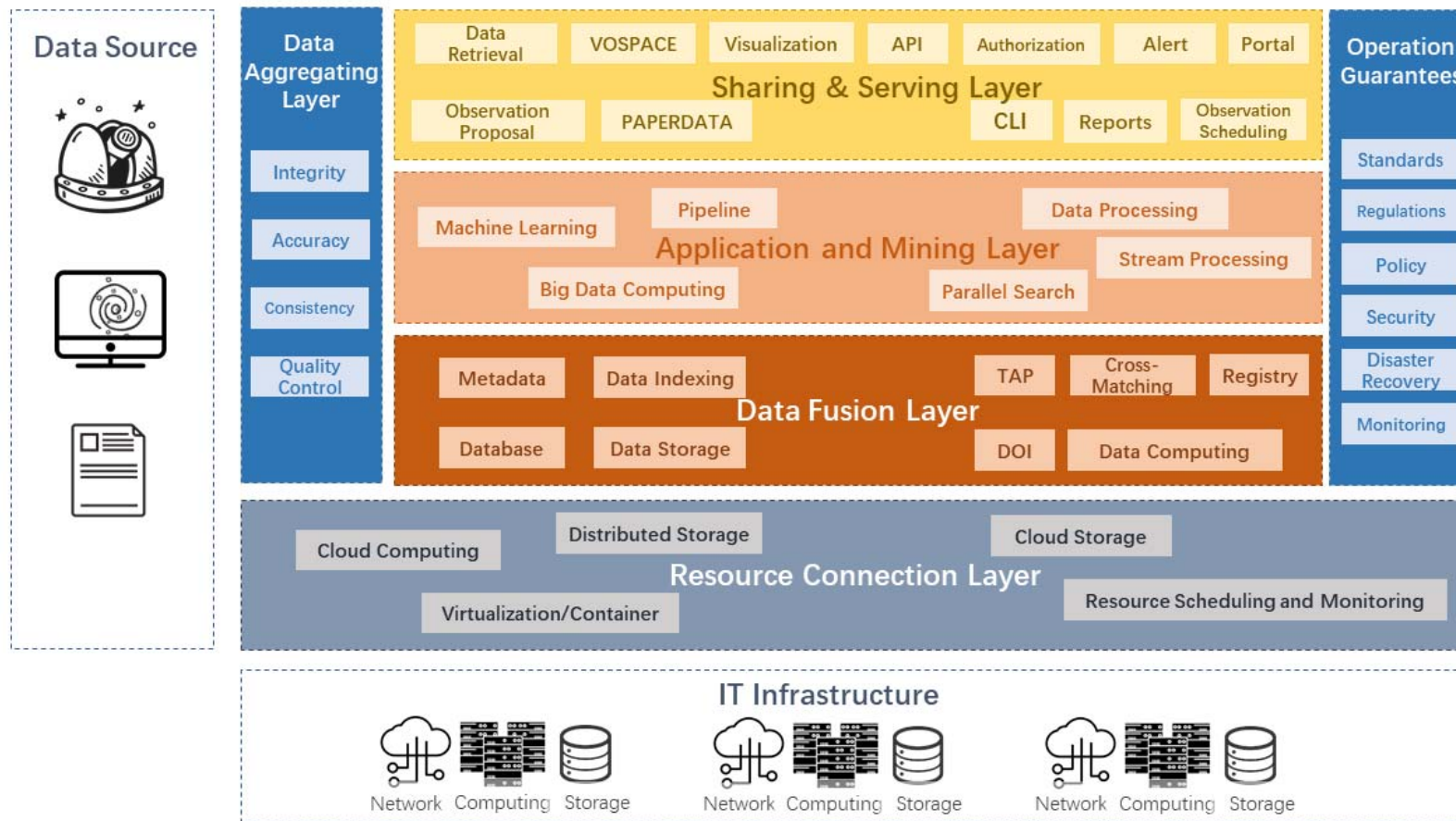
云资源使用

望远镜时间申请

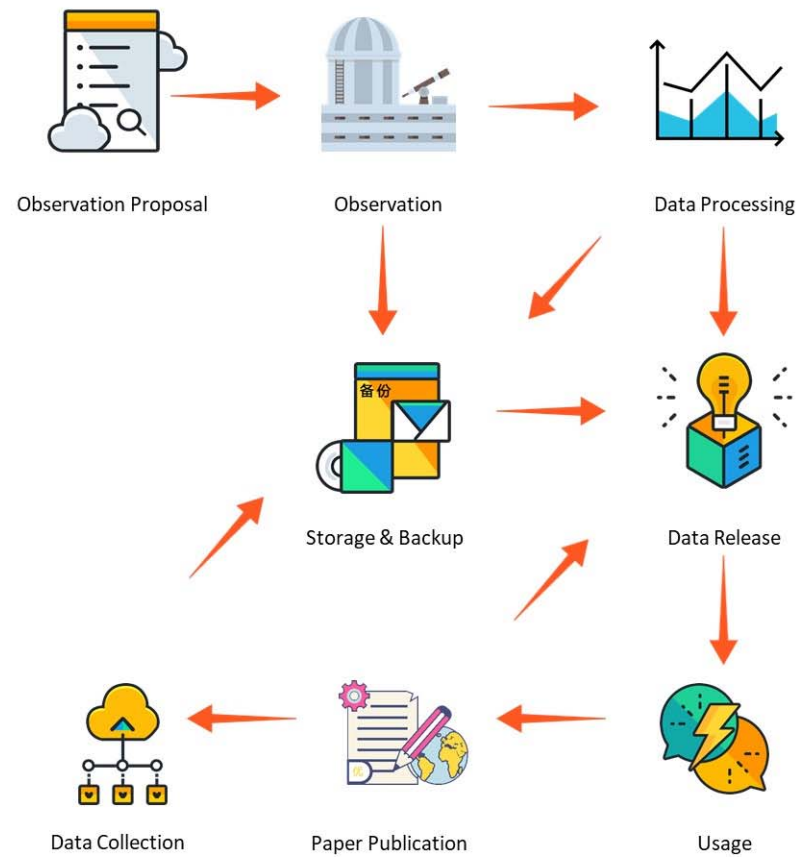
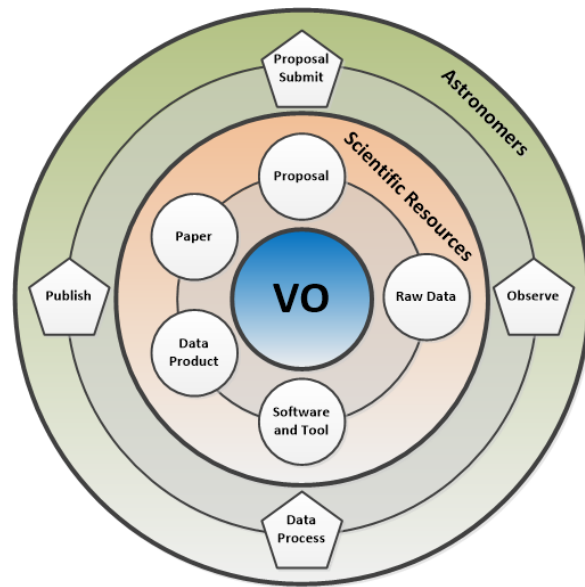
中国科学院2...	丽江2.4米望...
有效申请数	有效申请数
328	137
用户数	用户数
328	137
兴隆2.16米望...	抚仙湖一米新...
有效申请数	有效申请数
9	



# National Astronomical Data Center



# Whole life-cycle management



# NADC Unique Characters

- **National- and Institute- level data policies as umbrellas**
  - Data archiving requirements for research projects
  - Archiving requirements for academic paper updated data
  - Long-term reservation and open access requirements
- **Whole life-cycle management platform**
  - One stop (All in one)
  - Serving different types of users
    - Telescope team, observers, sky survey team, scientific users, EPO users, managers, etc.
- **Application driven but not tech-architecture driven**
  - LAMOST, FAST, time-domain astronomy, ...



# Potential Benefits in a National System

- **National Scientific Data Center** community

- Long-term operation/funding support

  - Not yet, hope so ☹️

  - ~2025

- Interdisciplinary experience sharing

*Agriculture, Earth System Science, Space Science, Genomics, Polar Science, High-energy Physics, Biology, Meteorology, Ocean Science, Seismology*



# Challenges

- Management of distributed resource system
  - Balance between active nodes and inactive nodes
- IVOA API middle layer
  - Implementation difficulties limited by manpower
- Cooperative working between private Cloud and public Cloud
- Other common challenges for science platforms
  - Discussed topics at ADASS BoF B.8 “Science platforms: toward data science”





# Future directions

Big Data + Cloud Computing + 

DM/KDD
AI/ML

 = science platform

From China-VO to National Astronomical Data Center (NADC)



# Select a Logo for us



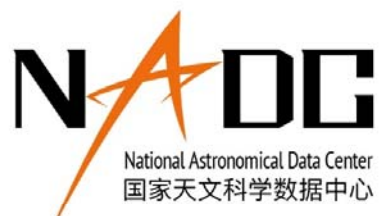
A1款 - 蓝色款

## A款——标志设计释义：

- > 以“数据”作为切入点，方块作为设计元素；
- > 字母采用无衬线体，倾斜的方块与阴文“N”，严谨中带有灵动感；
- > 倾斜的“N”色块与“ADC”形成无缝的角度衔接，在活泼中不失稳重。



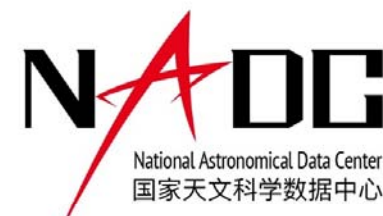
A2款 - 红色款



B1款 - 橘色款

## B款——标志设计释义：

- > 以“A”作为亮点设计元素，并以艺术手法形成一个五角星形的造型，突出行业特点；
- > 字母“NDC”采用相配套的字体，令整体效果搭配协调。
- > 设计风格在稳重中带有灵动，并更具中国特色风格。



B2款 - 红色款