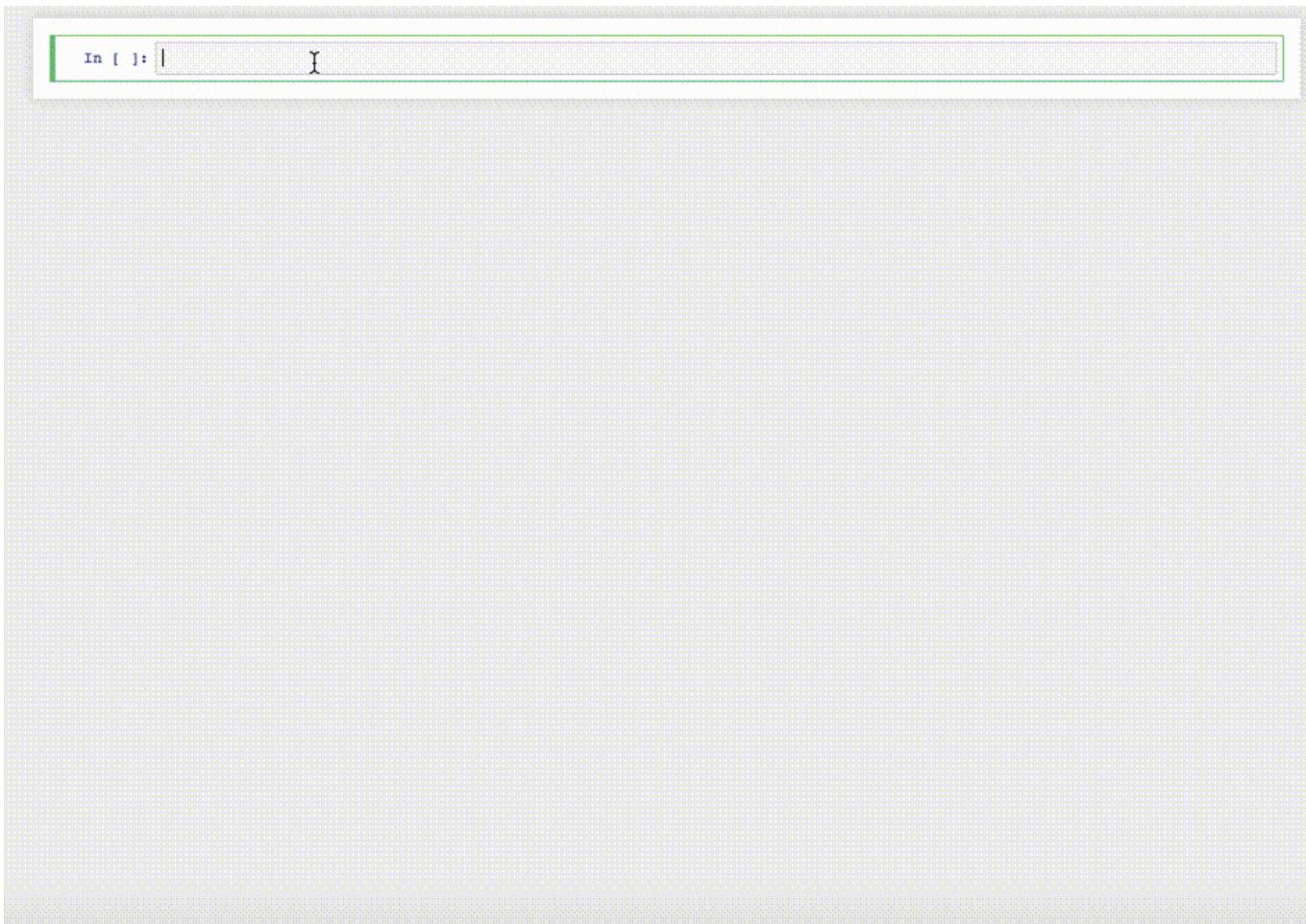


IVOA science priorities

- **Multi-d data**
 - First set of standards achieved
 - Implementation extremely important
 - Radio, mm, IFU/IFS demonstrators needed
- **Time domain**
 - TDIG very active
- **Emerging priority:**
 - Science Platforms/Portals & Computing near data

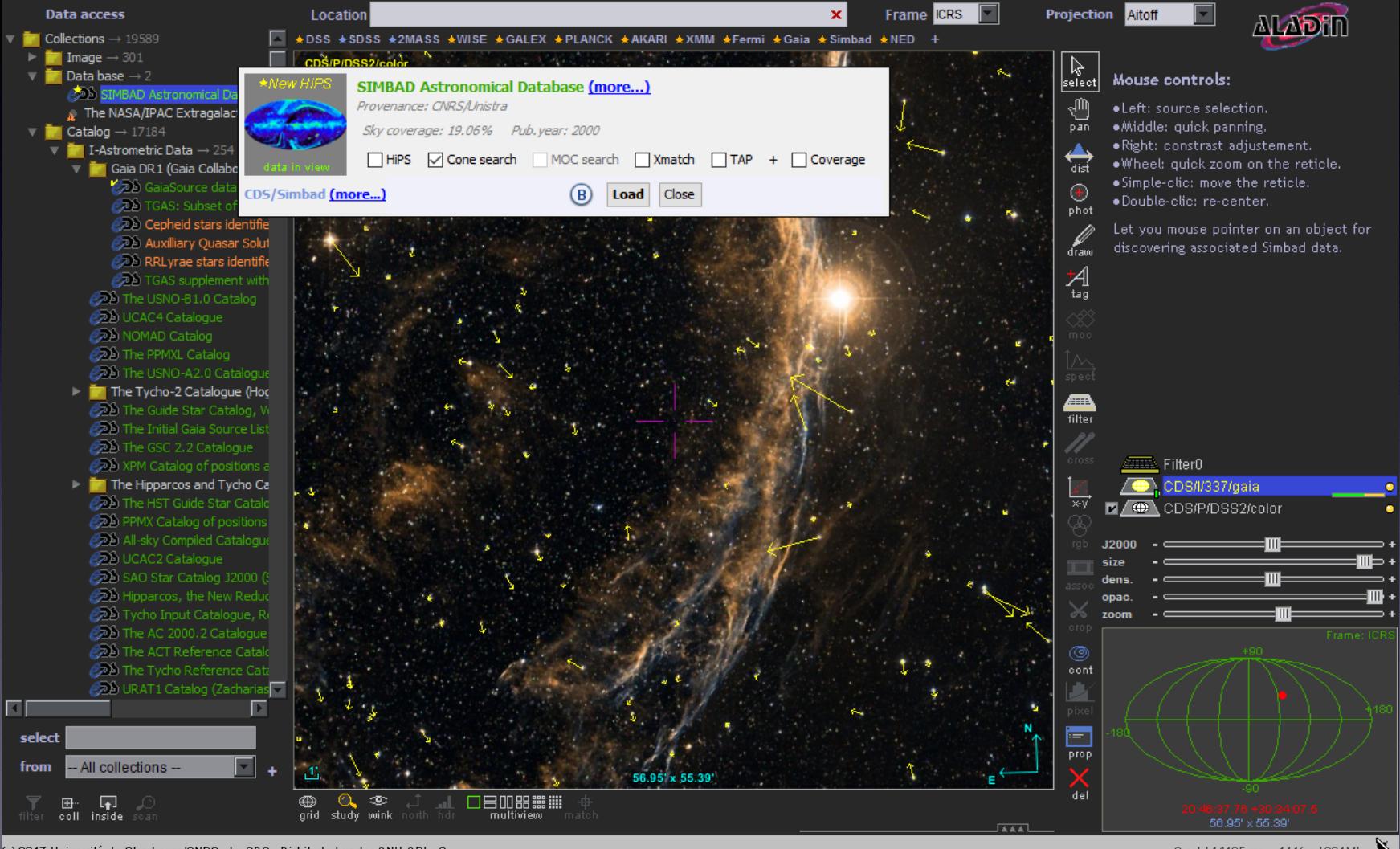
Science Platforms

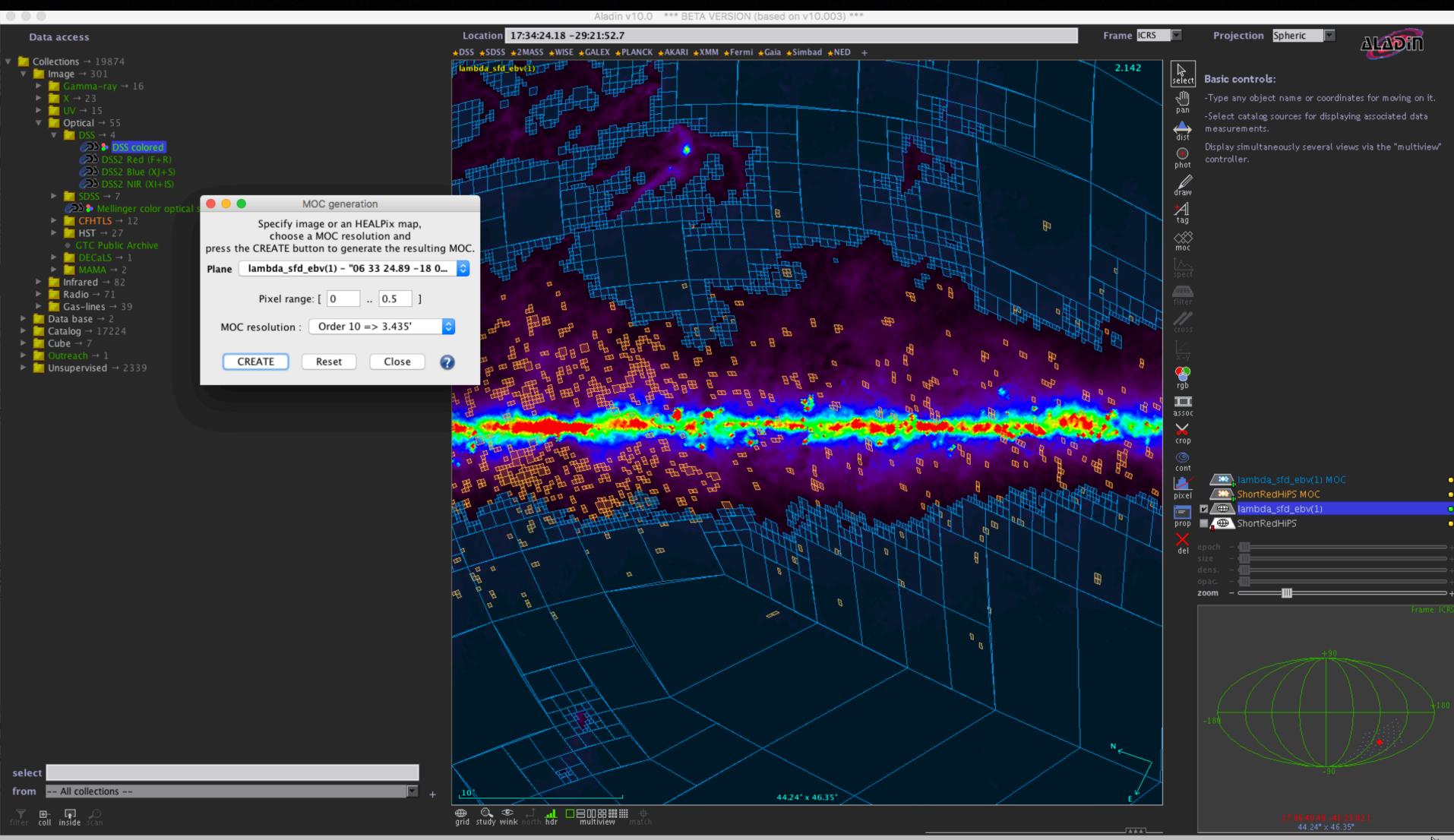
- Science Analysis platforms
- Demand for an IVOA / VO / Euro-VO Portal
 - Influenced by...
 - *Aladin Lite/ESA sky, Open Universe*
- Python / notebooks / Jupyter
- AstroPy ...
- Strongly driven by LSST / SKA / ...



Aladin v9.6 *** PROTOTYPE VERSION (based on v9.621) ***

File Edit Image Catalog Overlay Coverage Tool View Interop Help







30°

2.449° x 1.7°



N



E

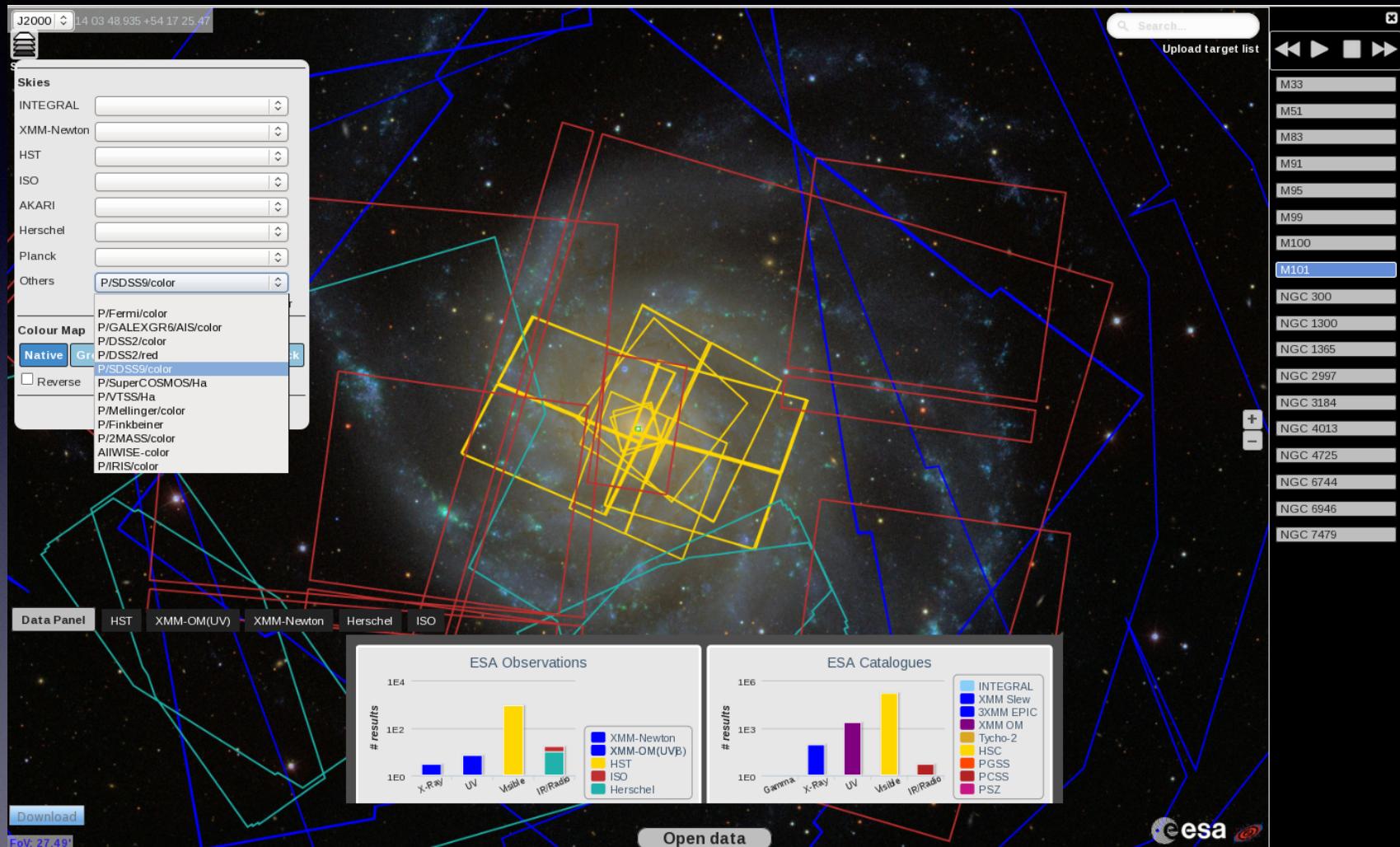
GAL 198.1982254 -11.9050387



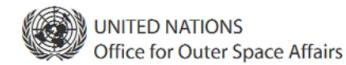
FoV: 158.77°

ALADIN

ESA Sky - built on Aladin Lite



Open UNiverse for astronomy



Open Universe @ ASI [Space Astronomy](#) » [Ground Astronomy](#) » [Planetary Science](#) » [Solar data](#) » [ISS](#) » [VO and General services](#) » [Bibliography](#) » [Cosmic Rays](#) » [Astronomical tools](#) »
[Image galleries](#) » [Open software](#) » [Other Initiatives](#) » [Educational contents](#) »

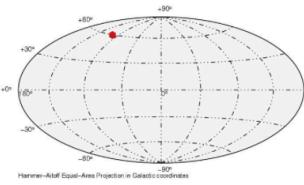
Help



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Reset all

▼ OU Parameters



Aitoff coordinates type: **Galactic** - *Equatorial*

Source Name(s) : **M101**

R.A.(J2000) = **14 03 12.0 (210.8 deg)**

Dec.(J2000) = **+54 21 00.0 (54.35 deg)**

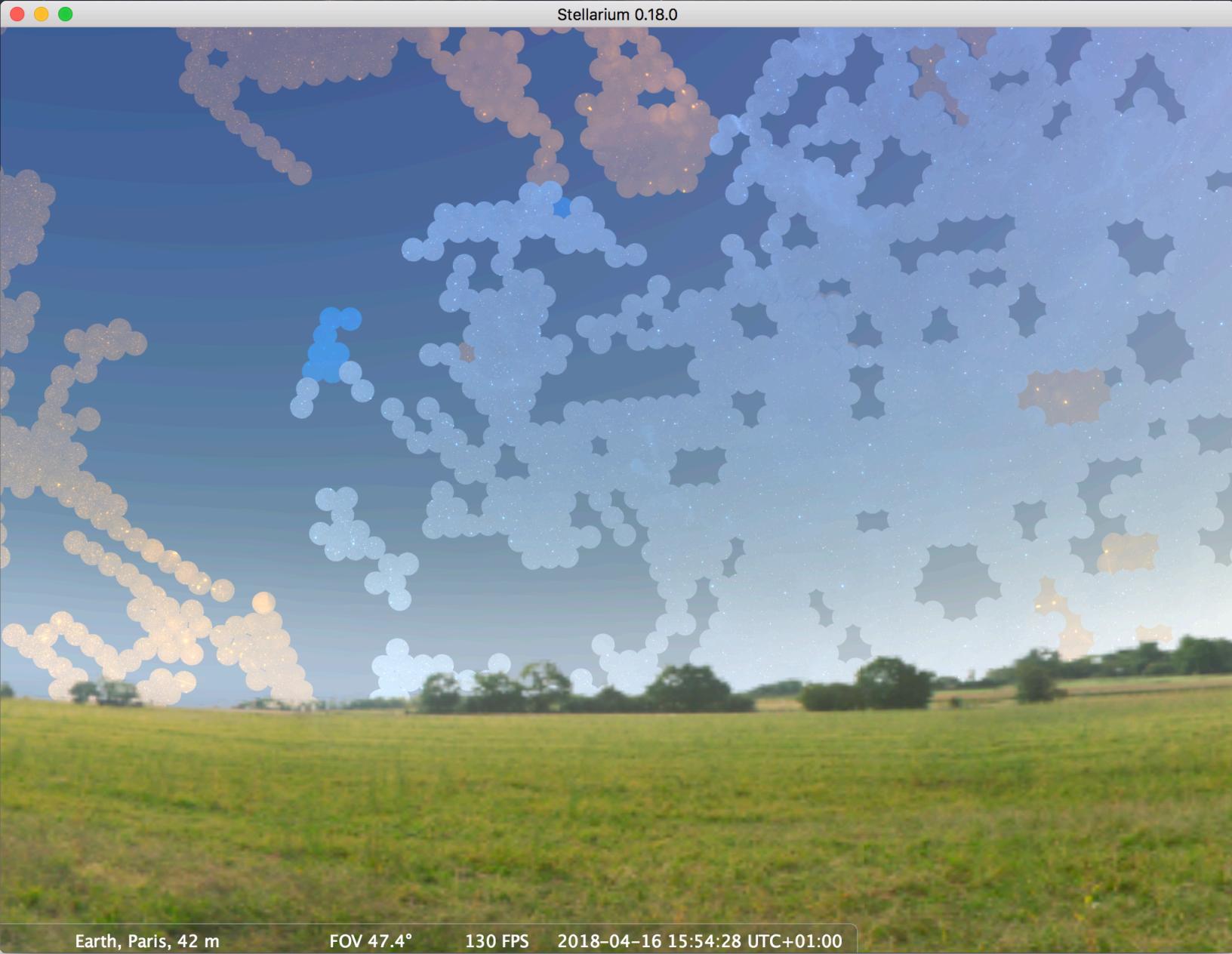
Version 1.1

Object name or coordinates: **M101 (SSDC)**

M101



Open Universe for Astronomy



Stellarium 0.18.0

Earth, Paris, 42 m

FOV 47.4°

130 FPS

2018-04-16 15:54:28 UTC+01:00

Gaia DR2 - 25 April

- Expected showcase of VO Access
 - ESA
 - DPAC Data Centres - including CDS, ARI
- Training events
 - ESA
 - Heidelberg

European Open Science Cloud (EOSC)

EOSC

- Global Open Science as a driver for accelerating innovation and enabling a new paradigm of data-driven science
- In Europe, this vision is being realised through an ambitious programme of research and development under the heading of the European Open Science Cloud (EOSC).
- EOSC will deliver an Open Data Science Environment that federates existing scientific data infrastructures to offer European science and technology researchers and practitioners seamless access to services for storage, management, analysis and re-use of research data

F

indable

Data has rich **metadata**, specifies **data identifiers**, has a **globally unique persistent identifier** and is registered and/or indexed in **searchable resources**

A

ccessible

Data is **retrievable** via their **identifier**, via **standard protocols**, protocols are **open, free** and universally **implementable**, allows **authentication** and **authorization** where necessary and **metadata** are kept **accessible** when **data** is **no longer available**

I

nteroperable

Data has formal, accessible, shared and broadly applicable **knowledge representation**, uses **vocabularies** that follow **FAIR principles** and include qualified **references** to other **(meta)data**

R

eusable

Data has plurality of accurate and **relevant attributes**, is released with clear and accessible **data usage license**, has associated **provenance** and meets domain-relevant **community standards**