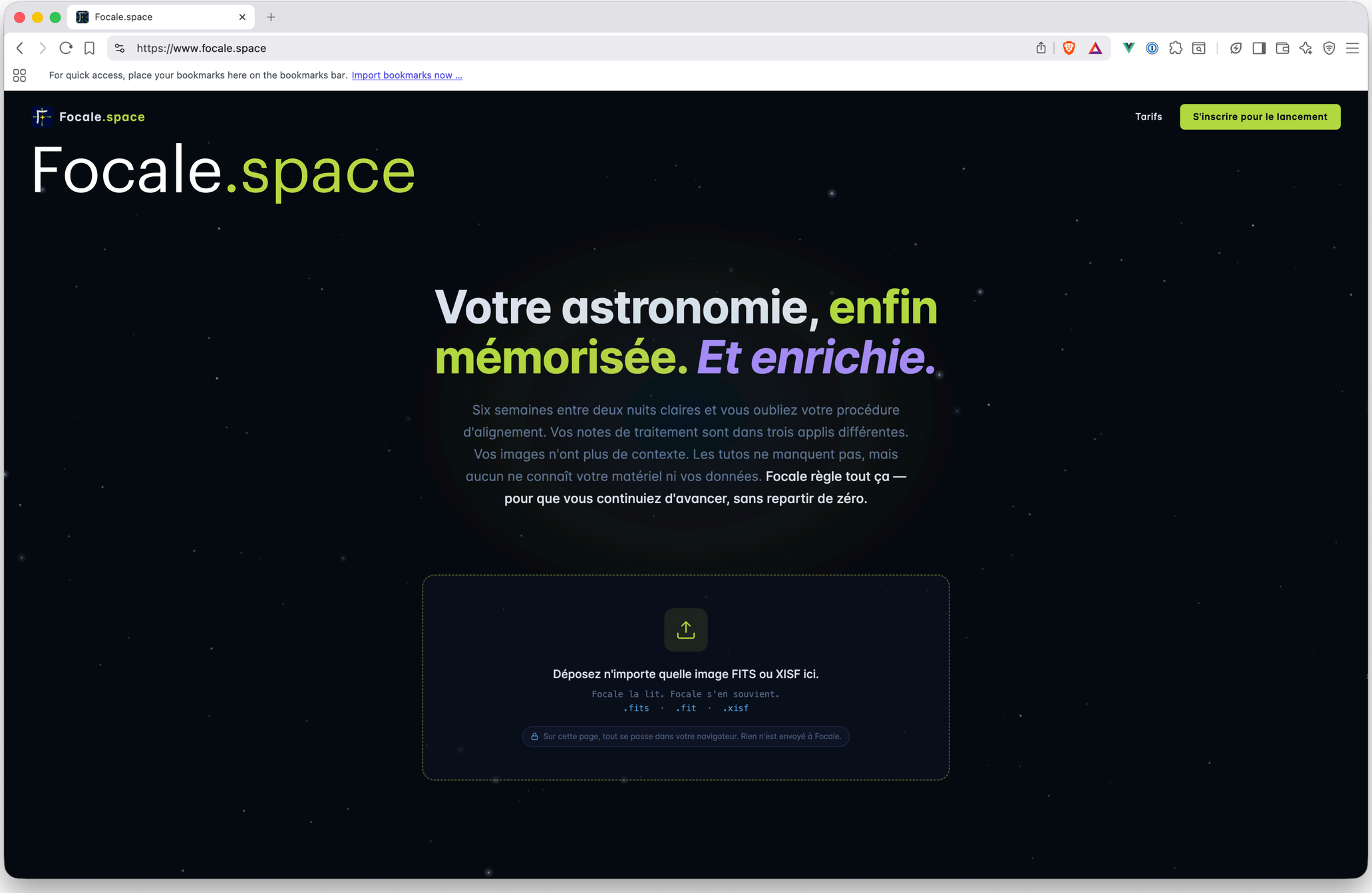

Focale.space
https://www.focale.space
For quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now ...
Focale.space
Tarifs
S'inscrire pour le lancement
Focale.space
Votre astronomie, enfin mémorisée. Et enrichie.
Six semaines entre deux nuits claires et vous oubliez votre procédure d'alignement. Vos notes de traitement sont dans trois applis différentes. Vos images n'ont plus de contexte. Les tutos ne manquent pas, mais aucun ne connaît votre matériel ni vos données. Focale règle tout ça — pour que vous continuiez d'avancer, sans repartir de zéro.
Déposez n'importe quelle image FITS ou XISF ici.
Focale la lit. Focale s'en souvient.
.fits · .fit · .xisf
Sur cette page, tout se passe dans votre navigateur. Rien n'est envoyé à Focale.

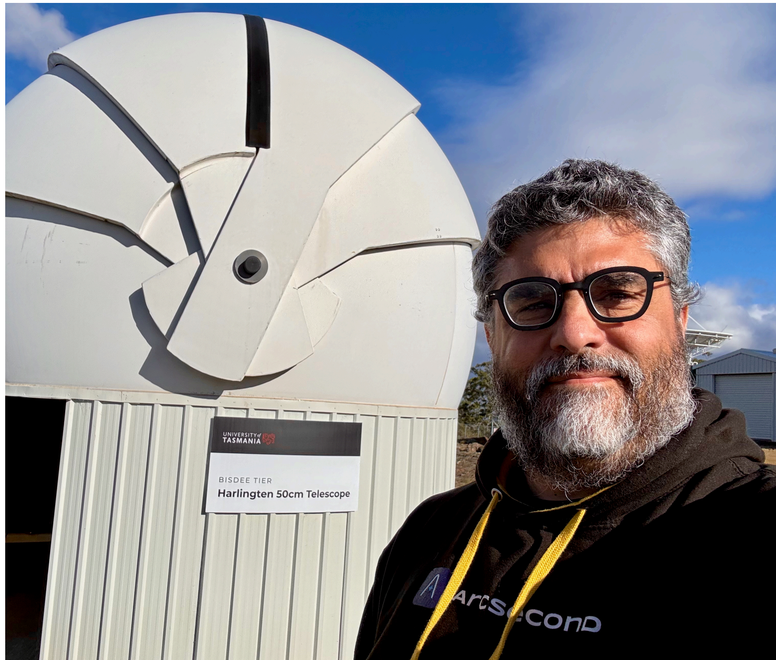
Arcsecond.local

Atelier ProAm - SF2A - Grenoble - 2026-06-26

Cédric Foellmi – 4Pi Technologies

Cédric Foellmi, Ph.D. - Arcsecond Founder

- Physicist diploma at the Geneva Observatory & ISDC (1998) 🇨🇭
- Ph.D. at the University of Montréal (2003), supervision: Prof. A.F.J. Moffat 🇨🇦
- Post-doc at **ESO** (Chile), 2002-2006 🇨🇱
  Total of 1-year of nights (360+) in La Silla Observatory as support astronomer.
- Switch to professional software developer in 2010 (France). 🇫🇷
- Start of Arcsecond codebase on July 2015. 🇫🇷
- Software “tech lead” / CTO since 2016. 🇫🇷
- Software director at Aselta Nano. in 2020-2025, (semi-conductors industry). 🇫🇷
- **Full-time on Arcsecond since April 2025.** 🇫🇷



Arcsecond is the first off-the-shelf multi-user & multi-telescope industry-grade platform automating astronomical observatories.

La Silla Observatory – Chile

Benefits

- Drastically reduce the total cost of ownership.
  (the total cost of ownership is divided by a factor of 2 to 10+).

- Ease human and data flow coordination.
  (no more hundreds of emails for planning observations, manual data ftp transfers...)

- Obtain operations consistency over the years.
  (no more outdated 'telescope manual' maintained by students or post-docs...)

- Enable new observational modes and possibilities! 🎉

Arcsecond covers the full observation cycle. Period.

("4pi philosophy")

Night Studio (Ctrl-1)

Preparation of observations, Night Explorer,
Target Management, Target Lists etc.

Control Room (Ctrl-2)

Acquisition of new data, Night Scheduler,
Queue Mode etc.

Data Grand Central (Ctrl-3)

Data management, preview, organisation,
Automatic Target Follow-up

Observatory Headquarters (Ctrl-4)

Managing the operations, shared calendar
in sync with observations & data.

Arcsecond as Software Infrastructure

- **APIs** (Application Programming Interfaces – that is, strict technical contracts to interact with the system). By nature, it is available for **integration with existing or new workflows & pipelines**.

- **Open-source libraries**, to complement and ease the integration.

- Open for private plugins (in roadmap).

- *Pedagogical interfaces*.

Open-source projects:

- Astronomical algorithms:

https://github.com/onekiloparsec/aa-js

```
npm install aa-js
```

- Python module / command:

https://github.com/arcsecond-io/cli

```
pip install arcsecond
```

Night Studio

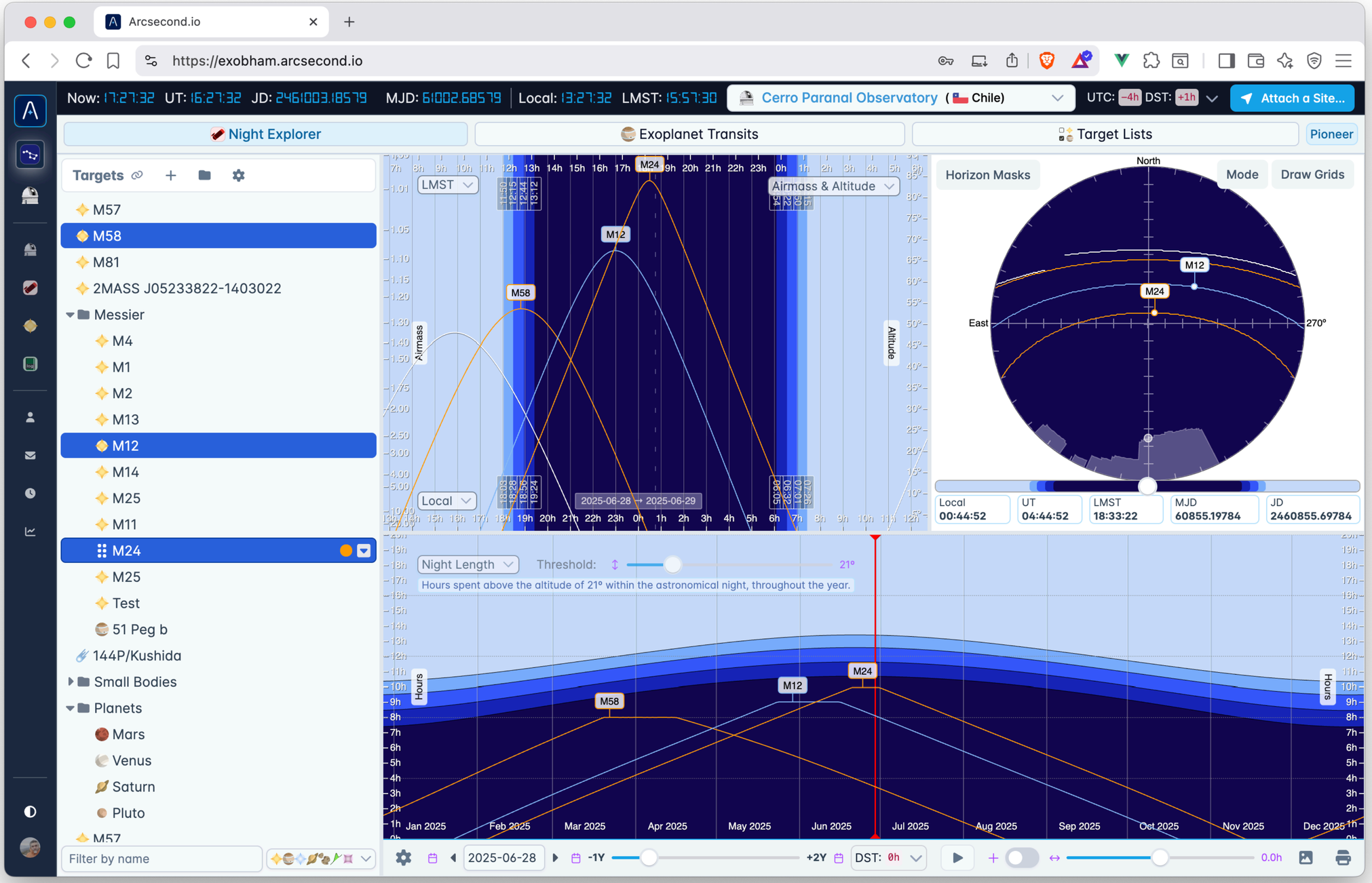
Best-in-class visualisation & tools to prepare observations

Mount Stromlo Observatory – Australia – June 2025

Arcsecond in real conditions: Night Explorer

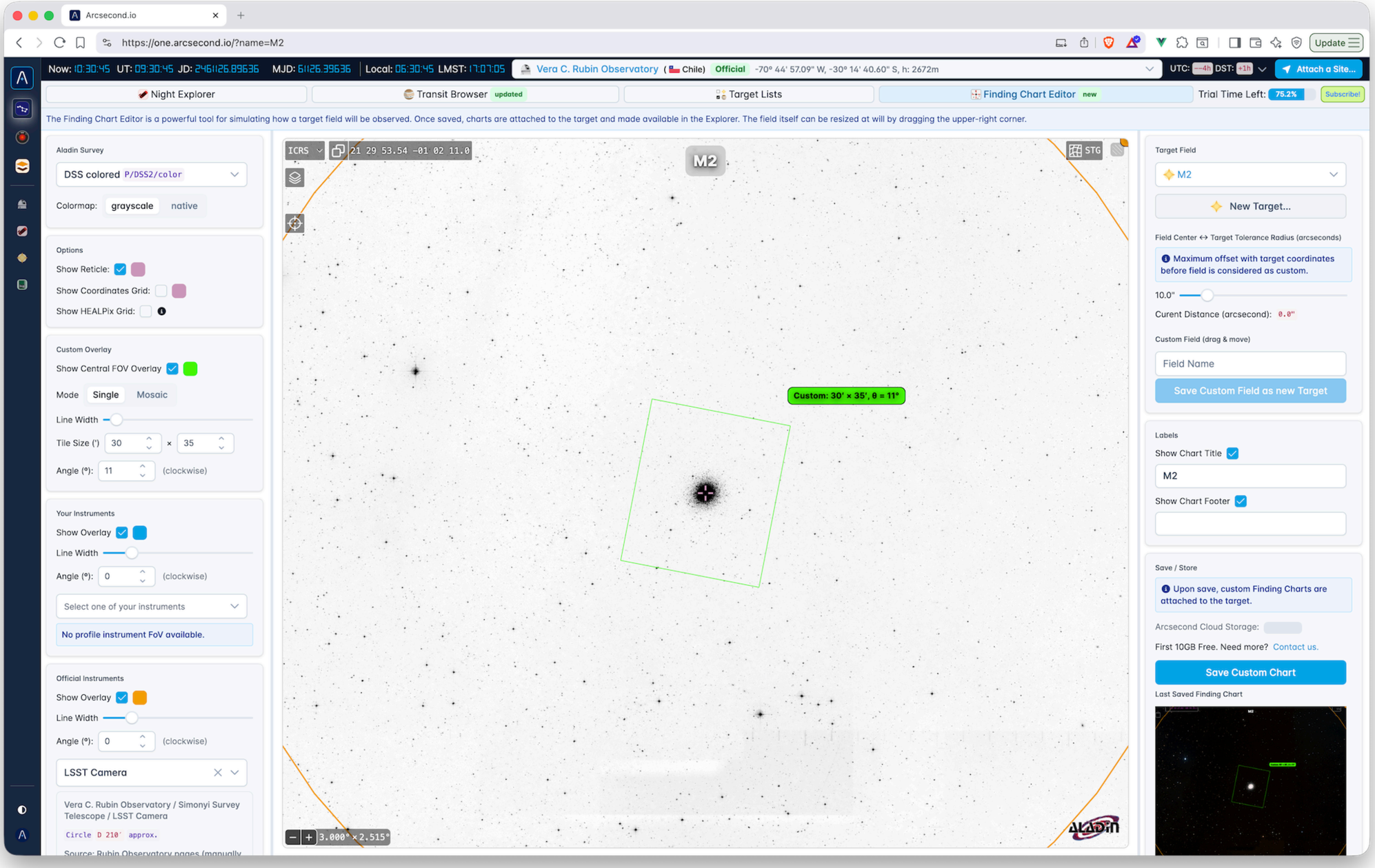
It is our best decision-making tool to prepare observations.

A long time ago, a more limited version existed as a macOS app called 'iObserve'



Arcsecond in real conditions: Finding Chart Editor

The FOVs of your instruments are automatically available.



The Arcsecond Control Room

and the future of astronomy automation

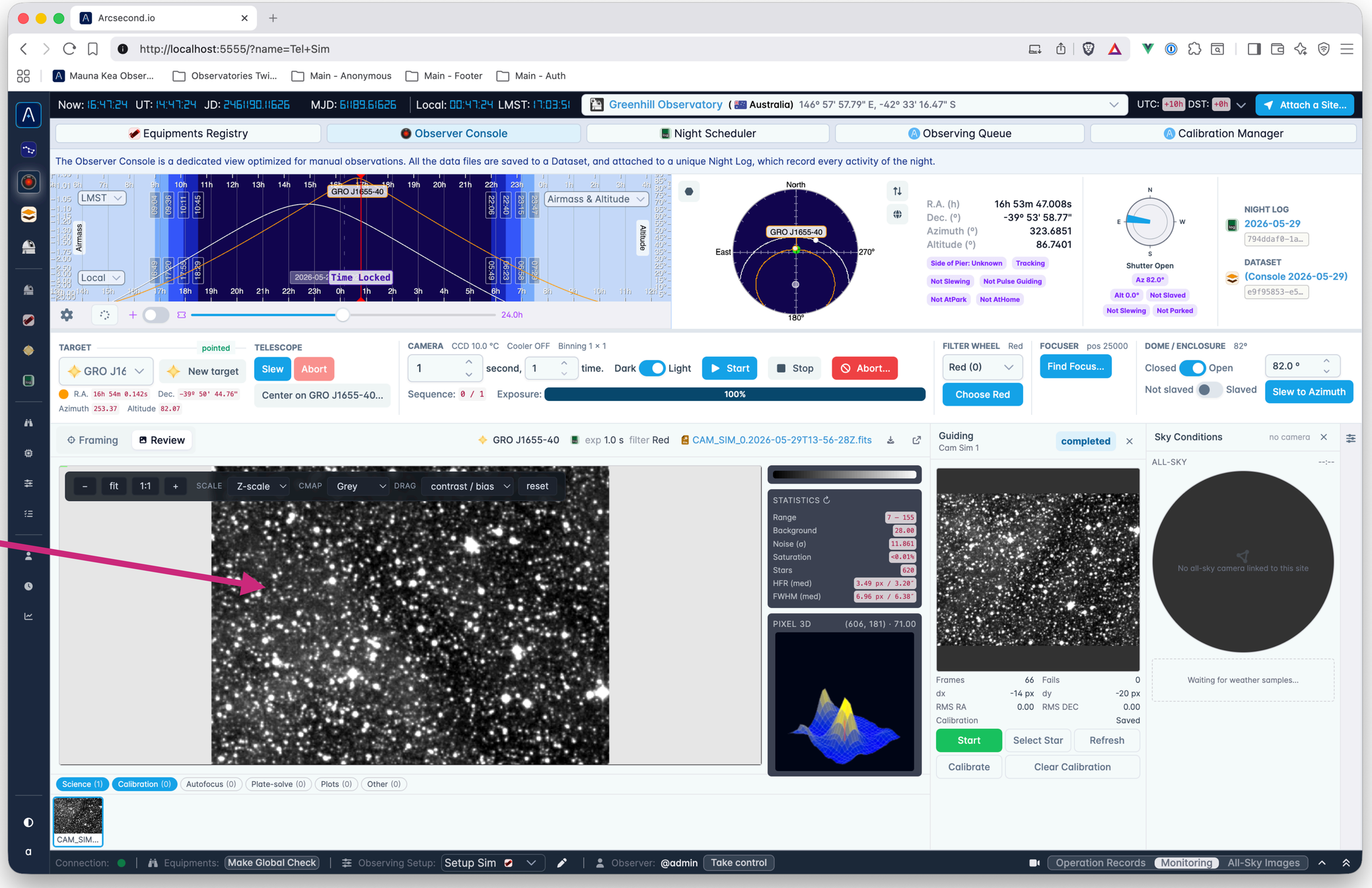
Siding Springs Observatory – Australia – June 2025

Arcsecond in real conditions: Control Room

Currently tested on night sky in Utah and Tasmania!

Unique browser-native FITS/XISF viewer!

No plugin, no install, WebAssembly performance.



Arcsecond supports 3 levels of automation

0 - No automation
Manual Observing

1 - Night Scheduler
Single-night automation

2 - Queue Mode
Multi-nights automatic scheduler

What's included anyway:

- **Calibrations Manager**
  Let Arcsecond do these for you, automatically...
- **Complete recorded-monitoring of the observatory every ~5-10 seconds.**
- **Safety Center**
  Define all safety limits and associated procedures for the whole observatory (sites, telescopes, cameras, targets, horizon masks...)

Data Grand Central

and external storages.

Mount Stromlo Observatory – Australia – June 2025

Data Grand Central

A unique multi-storages solution.

- Storage-agnostic
  (SFTP, Azure, AWS S3, Cloudfare R2, Dropbox, Local NAS...)
- Possibility to push VO-compliant metadata
- FITS & XISF compliant
- Browser-native FITS/XISF viewer

ESO Science Archive Facility – Credit: ESO/H.H.Heyer

Arcsecond pour Gemini & et les projets ProAm

Bénéfices et usages spécifiques pour les projets ProAm

Accélération de l’analyse & du “time-to-publication”
(p.ex. en utilisant des “pipelines hooks”)

Observation à distance sécurisé
1-observateur + n-spectateurs

Espace de travail cohérence, facilitant les cross-calibrations.

Nouveaux modes d’observation:
Observations multi-telescope coordonnées automatiques

Siding Springs Observatory – Australia – June 2025

Ça dépend...

Ça dépend des options choisies, des projets...

Je suis ouvert à toutes les formes de financements:
récurrents ou pas, qui soit adapté à votre projet ou observatoire.

Discutons!

cedric@arcsecond.io