



The CanDIAPL dashboard for LSST progress on user-selected targets



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Rubin Community Workshop, 2026

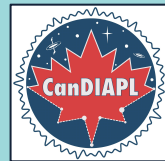


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CanDIAPL

<https://www.candiapl.ca/>

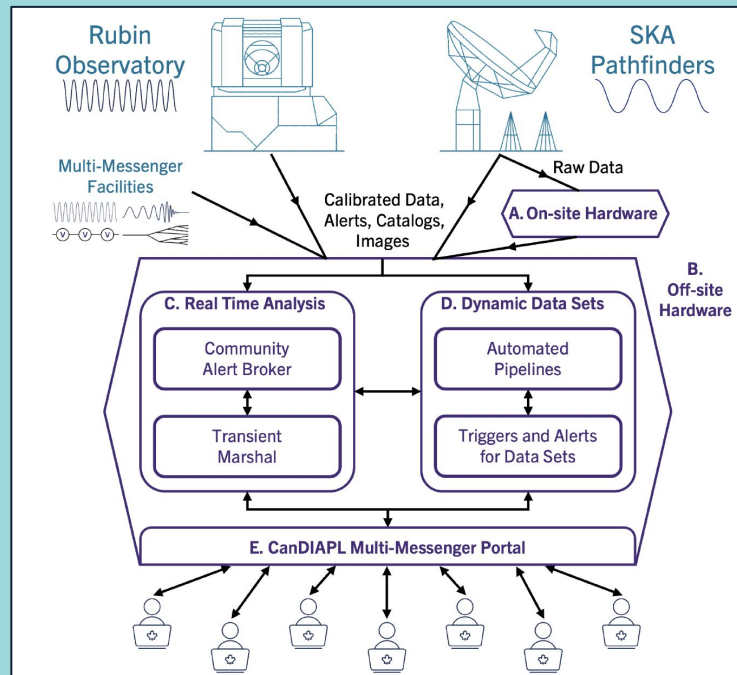


The **Canadian Data-Intensive Astrophysics Platform (CanDIAPL)** is an infrastructure project funded by the Canadian Foundation for Innovation, and operating in partnership with the Canadian Astronomy Data Centre (**CADC**).

CanDIAPL goals:

- Build a powerful cloud computing centre to process the high volumes of raw data from the Vera C. Rubin telescope and SKA pathfinders.
- Develop specialised software for accessing, analyzing, and interacting with the data.

Software/tools in development: HiPS server, photometry applications, kinematic modeling, multi-wavelength cross-matching, SED fitting, star cluster injection, transient alerts, ASKAP polarisation pipeline, and more!



The LSST progress dashboard



The CanDIAPL dashboard for monitoring Rubin LSST survey progress will allow users to **query a list of objects or target coordinates** and receive **daily updates** on the number of visits covering their targets.

While Rubin has excellent resources for all-sky progress monitoring, such as the [Rubin LSST — All-Sky Schedule Map](#)), the CanDIAPL dashboard will provide a **user-specific observing log** in an interactive web app.

We summarize the current features of our (prototype) dashboard here, and welcome feedback and suggestions!

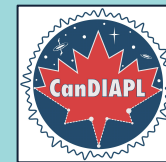
aordog@uwo.ca

Feature 1: summary table of user-defined targets.

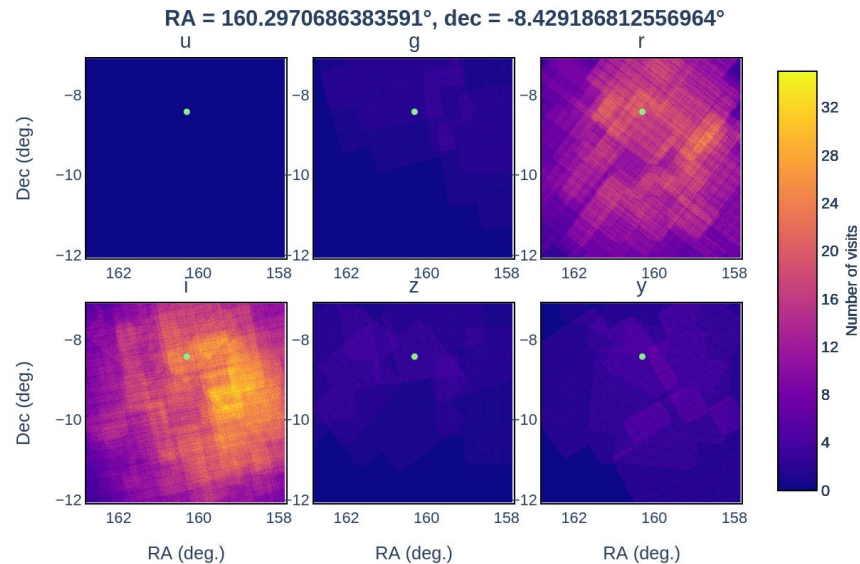
Cumulative Visits Summary

ID	ra	dec	u	g ▾	r	i	z	y
12	273.51820574209387	-4.97726389452437	0	3	2	1	3	5
13	293.50371576859004	-4.238376122856863	0	3	0	0	0	3
18	225.8763371967643	-8.137905251870947	0	3	9	27	2	2
19	268.4980198489432	-7.46686208095781	0	3	3	1	8	5
35	290.14768569198645	-15.878990579157332	0	3	2	8	2	3
59	286.3541480124027	-22.88607840459906	0	3	6	3	0	6
108	202.1991671410592	-41.125926114913725	0	3	7	21	4	3
138	162.9770905419978	-46.99745184676517	0	3	7	13	5	0
22	160.2970686383591	-8.429186812556964	0	2	15	22	3	4
26	269.306956494145	-12.900071928478	1	2	2	0	9	5

The LSST progress dashboard



Cumulative visits to date



Feature 2: maps showing visits coverage around selected target.

Cumulative Visits Summary

ID	ra	dec	u	g	r	i	z	y
12	273.51820574209387	-4.97726389452437	0	3	2	1	3	5
13	293.50371576859004	-4.238376122856863	0	3	0	0	0	3
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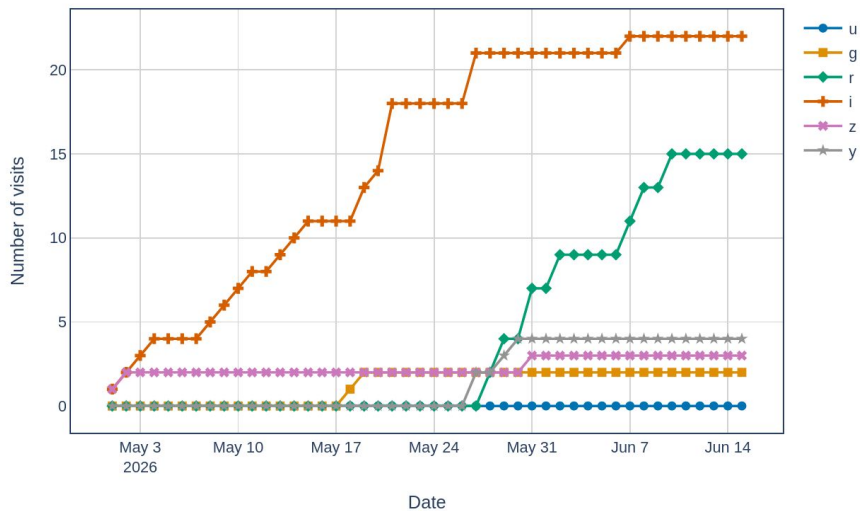
The LSST progress dashboard



Feature 3: time series of visits accumulated at selected target.

Progress at target

RA = 160.2970686383591°, dec = -8.429186812556964°



Feature 4: observability of target based on night-time sky position and Rubin elevation limit.

Future observability of target

RA = 160.2970686383591°, dec = -8.429186812556964°

