



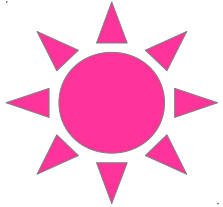
MM platform activities

- Dave Morris
- John Lightfoot
- Josep Colome

28th Feb 2019

D.Morris
Institute for Astronomy,
Edinburgh University
February 2019





Someone notices
something interesting

Located at a specific a position in the sky

Ra

0.0000

Dec

0.0000

Observed at a specific time

MJD

0.0000

To enable people to talk about it,
we assign it an identifier

ID

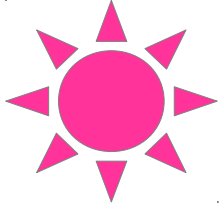
5176B8

To enable people to tell others about it,
we make that into a URL

URL

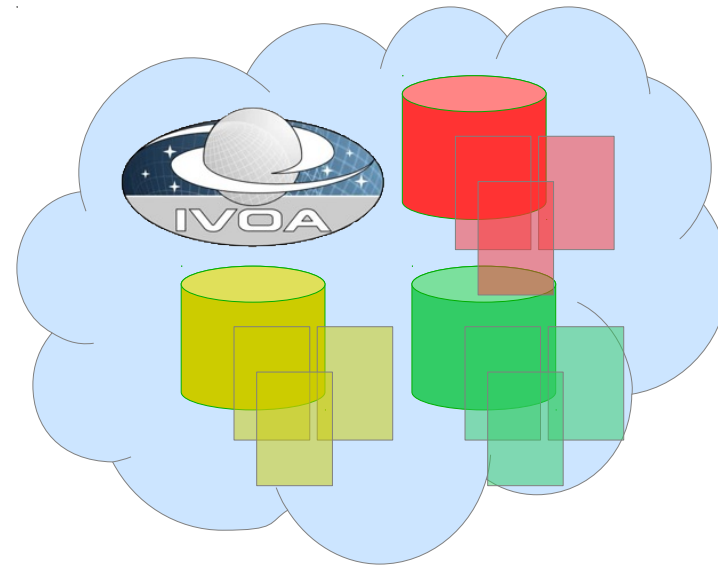
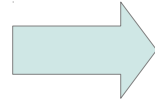
<http://...../5176B8>



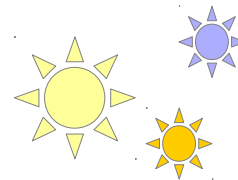


Given a specific position in the sky

ID	5176B8
Ra	0.0000
Dec	0.0000
MJD	0.0000

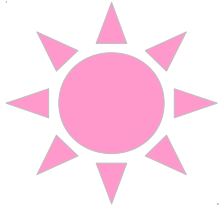


We can query image services in the VO
to get context information



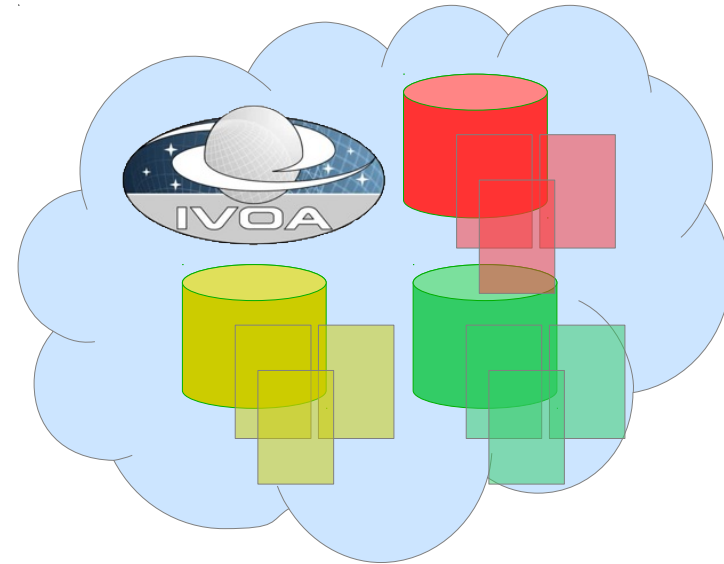
What was at that location
in the past

What the surrounding area
looks like



Given a specific position in the sky

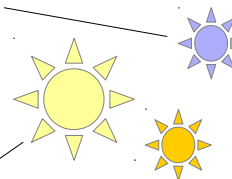
ID	5176B8
Ra	0.0000
Dec	0.0000
MJD	0.0000



We can query database services in the VO to get context information.

88b

R : 0.0000
I : 0.0000
J : 0.0000
H : 0.0000
K : 0.0000



76a

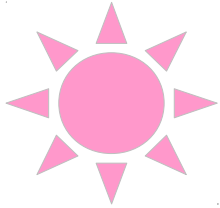
R : 0.0000
I : 0.0000
J : 0.0000
H : 0.0000
K : 0.0000

55j

R : 0.0000
I : 0.0000
J : 0.0000
H : 0.0000
K : 0.0000

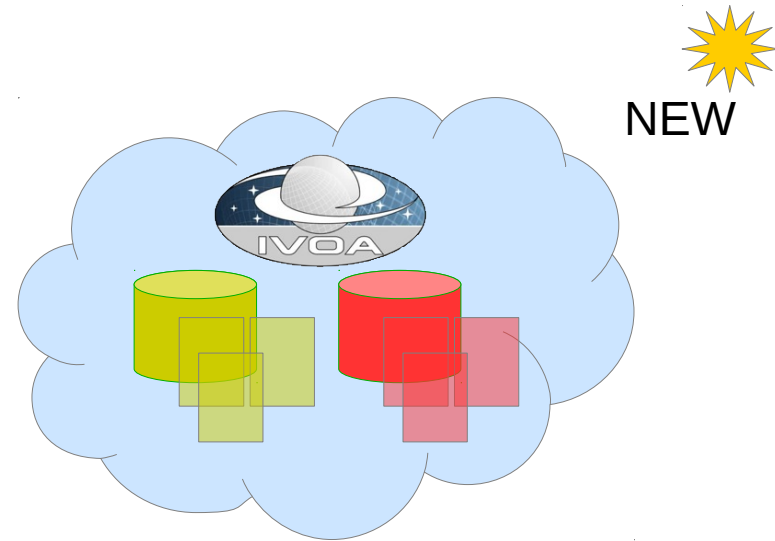
What sources have been identified at that location.

What the measurements were taken at the time.

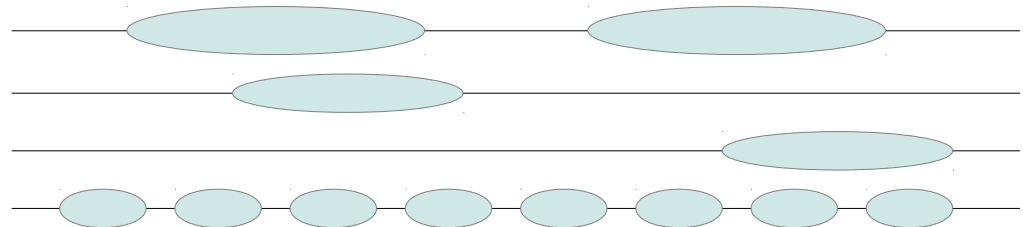


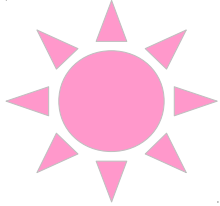
Given a specific position in the sky

ID	5176B8
Ra	0.0000
Dec	0.0000
MJD	0.0000



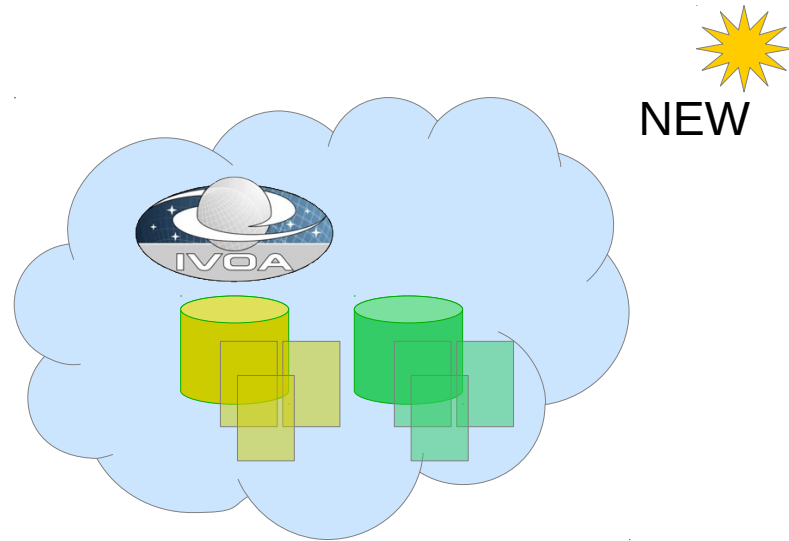
We can query Object Visibility services to find out when that location will be visible for each instrument.



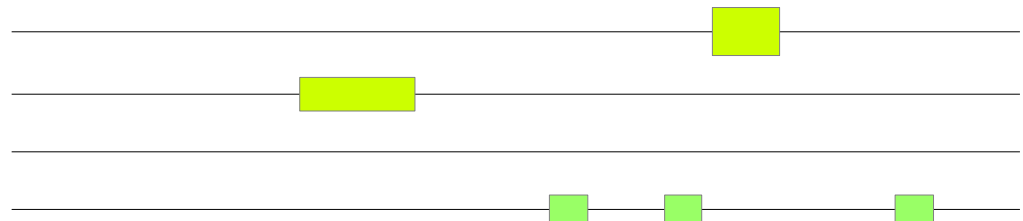


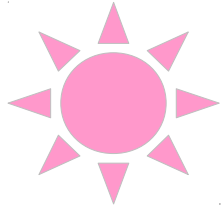
Given a specific position in the sky

ID	5176B8
Ra	0.0000
Dec	0.0000
MJD	0.0000



We can query Observation Locator services to find out which instruments are planning to observe that location in the future.



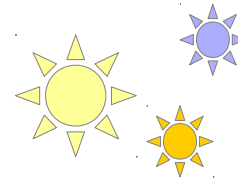


Given a specific position in the sky

ID	5176B8
Ra	0.0000
Dec	0.0000
MJD	0.0000



We can display all the historical information about the location.



76a	88b
R : 0.0000	R : 0.0000
I : 0.0000	I : 0.0000
J : 0.0000	J : 0.0000
H : 0.0000	H : 0.0000
K : 0.0000	K : 0.0000

55j
R : 0.0000
I : 0.0000
J : 0.0000
H : 0.0000
K : 0.0000

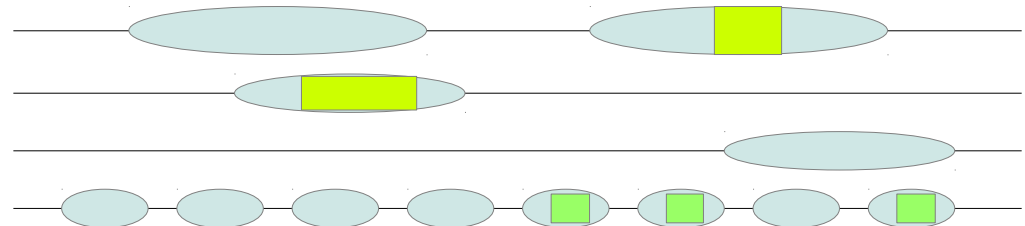
What was at that location in the past

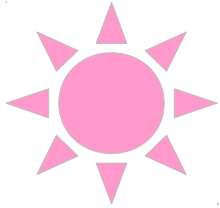
What the surrounding area looks like

What sources have been identified at that location.

What the measurements were taken at the time.

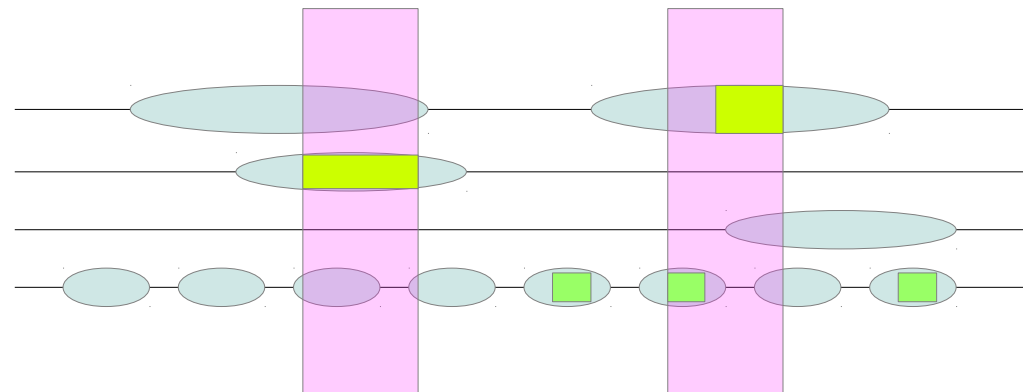
Along with information about the visibility and future plans for observations.





Given a specific position in the sky

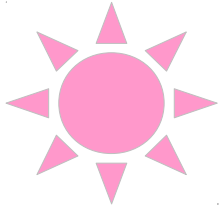
ID	5176B8
Ra	0.0000
Dec	0.0000
MJD	0.0000



The combination of historical information about the location.

With information about the expected visibility and future plans for observations.

Enable us to coordinate the best times to request new follow up observations.

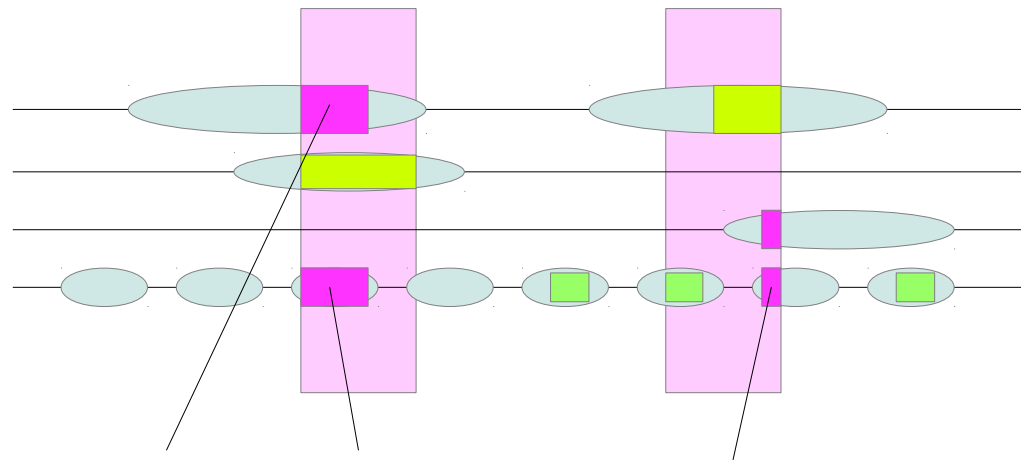


Given a specific position in the sky

ID	5176B8
Ra	0.0000
Dec	0.0000



The system will plan and track new observation proposals for the target object.



Proposal 51

Proposal 52

Proposal 53

instrument
location
time
Filters

instrument
location
time
Filters

instrument
location
time
Filters

results

results

results