## Data Access Layer

- WD-SIA-2.0-20140512 review


## WD-SIA-2.0 query

- query capability to discover images and cubes

| query param | ObsCore column(s) |
| :--- | :--- |
| POS=<circle> $\mid$ <coord range> $\mid$ <polygon> | s_region |
| BAND=<range of wavelength> | em_min, em_max |
| TIME=<range of time> | t_min, t_max |
| POL=<pol state value from ObsCore> | pol_states |
| EXPTIME=<range of exposure time> | t_exptime |
| FOV=<range of field-of-view> | s_fov |
| SPATRES=<range of spatial resolution> | s_resolution |

## WD-SIA-2.0 query

- <range>
- values separated by /
- missing value == open-ended

BAND=0.20/0.22
TIME=54321.0/
EXPTIME=/600

- TIME parameter allows for MJD and timestamp strings as specified by DALI


## WD-SIA-2.0 query

- simple geometry
- simple geometry values with fixed coordinate and reference system

> POS=circle 12340.5
> POS=polygon 1010121012121012
> POS=range 10/20-2/2
> POS=range / -2/2

- coordinate range is not an STC box
- polygon interior is the smaller of left- and rightside (smaller than half sphere)


## WD-SIA-2.0 query

- output currently limited to ObsCore fields
- advice about use of DataLink
- in access_url (and access_format)
- describing DataLink services that can be called (with obs_publisher_did) using DataLink service descriptor
- describing direct calls to access data service(s) (DataLink service descriptor)


## WD-SIA-2.1 metadata

- was get-gory-details in Hawaii
- capability intended to get complete metadata for a dataset (via obs_publisher_did)
- requires ImageDM serialisation format
- deferred to SIA-2.1


## WD-AccessData-1.0 (wiki)

- preliminary work to support basic cutouts

| query param | operation |
| :---: | :--- |
| POS=<circle> \| <coord range> \| <polygon> | cutout spatial extent |
| TIME $=<$ range of wavelength> | cutout energy extent |
| POL=<pol state value from ObsCore> | cutout time extent |

- cutout parameters define extents in standard coordinate/reference system only
- can be implemented \& used without metadata capability

