

DALI-1.2

summary of xtype use cases, decisions, etc

Use cases: polymorphism

observation footprints (metadata) contain a mix of:

positions and polygons (ESO)

circles and polygons (HST, TESS collections at CADC, ESAC, MAST)

SIA-2.0 and SODA-1.0 POS param is polymorphic: circle, range, polygon

agreed for WD and prototype:

datatype="char" arraysize="*" xtype="shape"

-- start with support for circle and polygon

Use cases: disjoint polygons

observation footprints (metadata) from mosaic camera data (ESO, CADC, others)

DALI-1.1 simple polygon cannot specify an all-sky coverage

agreed for WD and prototype:

datatype="double" arraysize="*" xtype="multipolygon"

-- start with NaN as separator

Use cases: disjoint set of intervals

observation energy or time coverage (metadata), e.g. multi-band or multi-sample stacks

proposal: datatype="double" arraysize="*" xtype="multiinterval"

deferred: continue to use arraysize="2x*" xtype="interval" for now

Use cases: an STC-S standard finally?

combine disjoint and polymorphism into one general xtype

standardise current practice (subset of TAP-1.0 non-normative STC-S)

provide a standard for ADQL region function to reference

proposal: datatype="char" arraysize="*" xtype="region"

deferred: no concrete use cases to justify and constrain design