

DALI-1.2

summary of xtype use cases, decisions, etc

Use case: MOCs in VOTable

REC-MOC-1.1 defines a standard ascii serialisation of MOC

agreed for WD and prototype:

datatype="char" arraysize="*" xtype="moc"

Use cases: polymorphism

observation footprints (metadata) contain a mix of circles and polygons

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 circle and polygon -- consider point as a shape?

Use cases: disjoint polygons

observation footprints (metadata) from mosaic camera data

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 convincing use cases to justify and constrain design