Image data model utypes: comparing SIA2 and Obscore

F.Bonnarel (CDS),
And DM Working group

Basic Idea

- Image datamodel as a submodel of the overall observation datamodel. Image datamodel utypes are the sia2 query response utypes

- Observation made of char2, provenance, curation, DataID, target , Mapping (WCS) + ...

- Obscore doesn't have Mapping but has a subset of observation data model. Should be consistent with Image data

Curation

- Obstap
  - Curation.releaseDate
  - Curation.PublisherDID
  - Curation.PublisherID
  - Curation.Reference
  - Curation.Rights
- SIA2
  - Curation.Date
  - Curation.PublisherDID
  - Curation.Reference
  - Curation.Rights

Target

- ObsTap
  - Target.Name
  - Target.Class

- SIA2
  - Target.Name
  - Target.Class
  - Target.Redshift
  - Target.VarAmpl

Characterization

- ObsTap
  - Char.TimeAxis.Coverage.Bounds.Interval.StartTime
  - Char.TimeAxis.Coverage.Bounds.Interval.StopTime
  - Char.TimeAxis.Coverage.Support.Extent
  - Char.TimeAxis.Coverage.Resolution.refval
  - …
- SIA2
  - Char/TimeAxis.Coverage.Location.coord
  - Char/TimeAxis.Coverage.Bounds.Extent
  - Char/TimeAxis.Coverage.Bounds.limits.LoLimit
  - Char/TimeAxis.Coverage.Bounds.limits.HiLimit
  - Char/TimeAxis.Coverage.Support.Extent

Mapping

- Only available in SIA (transcription of FITS WCS model)

  Mapping.NAxes
  Mapping.NAxis
  Mapping.CoordRefPixel[]
  Mapping.CoordRefValue[]
  Mapping.CDMatrix[]
  Mapping.PCMatrix[]
  Mapping.CDelt[]
  Mapping.AxisMap[]
  etc...

TODO list

- Upgrade the list of utypes of SIA2 to the level of ObsCore/char2
- Revisit Mapping package and utypes
- Add additional packages (visibility ?)