

# IVOA Data Model

Closing @Banff, 2014

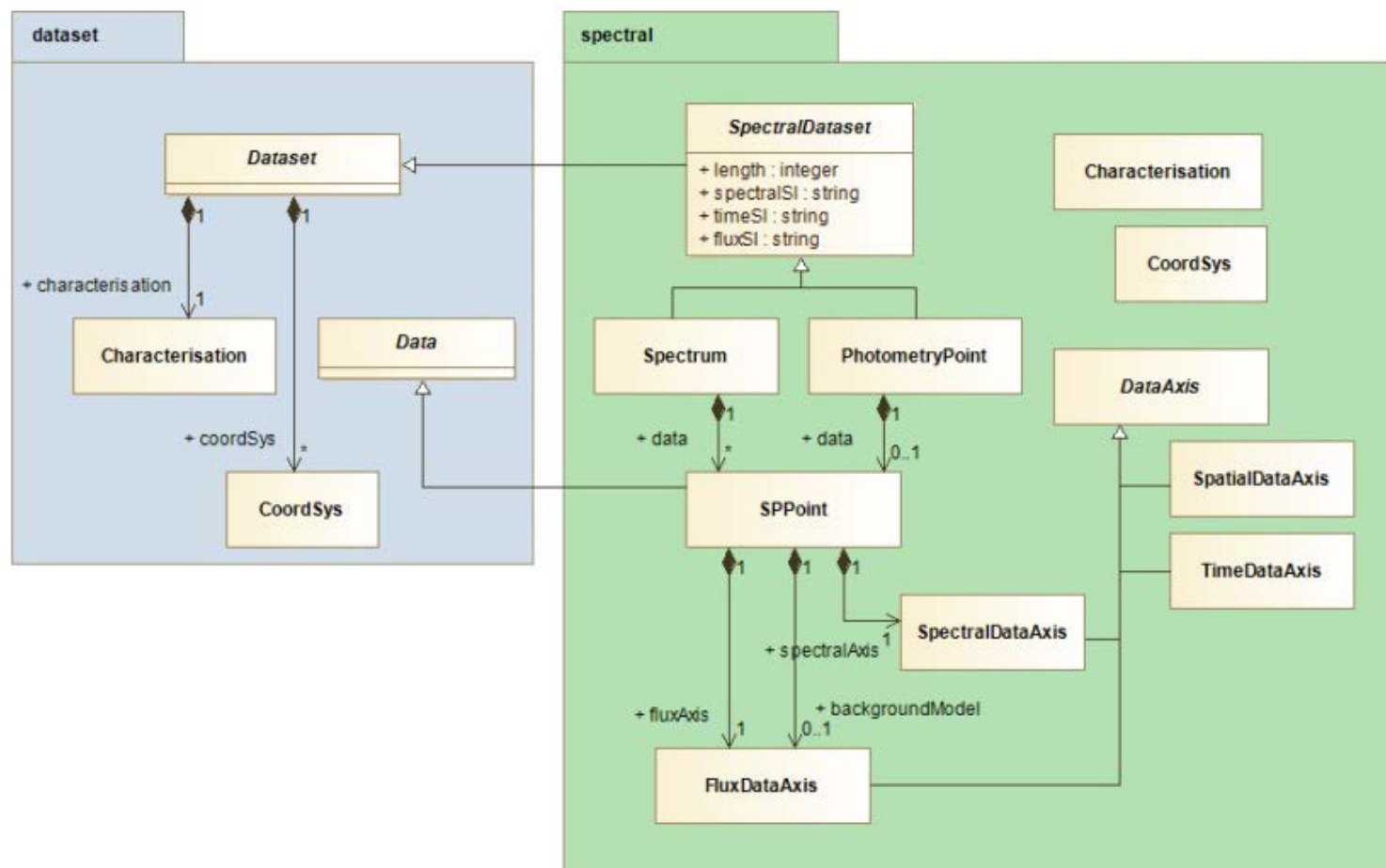
Jesús Salgado, Omar Laurino



# DM sessions

- DM1 On Going DMs: Friday
  - SpectralDM RFC - Mark Cresitello-Dittmar
  - ObsCore status - Mireille Louys
  - Gaia Source DM - Jesus Salgado
  - Provenance - Markus Demleitner
  - STC-2 - Arnold Rots
- DM2 CubeDM + VO/DML: Saturday
  - Simple Time Series - Mike Fitzpatrick
  - Char2, VO-DML, utypes - Francois Bonnarel
  - CubeDM - Mark Cresitello-Dittmar
  - VO-DML implementation - Omar Laurino

# SpectralDM 2.0



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TCG: 2014-08-01 => 2014-09-15

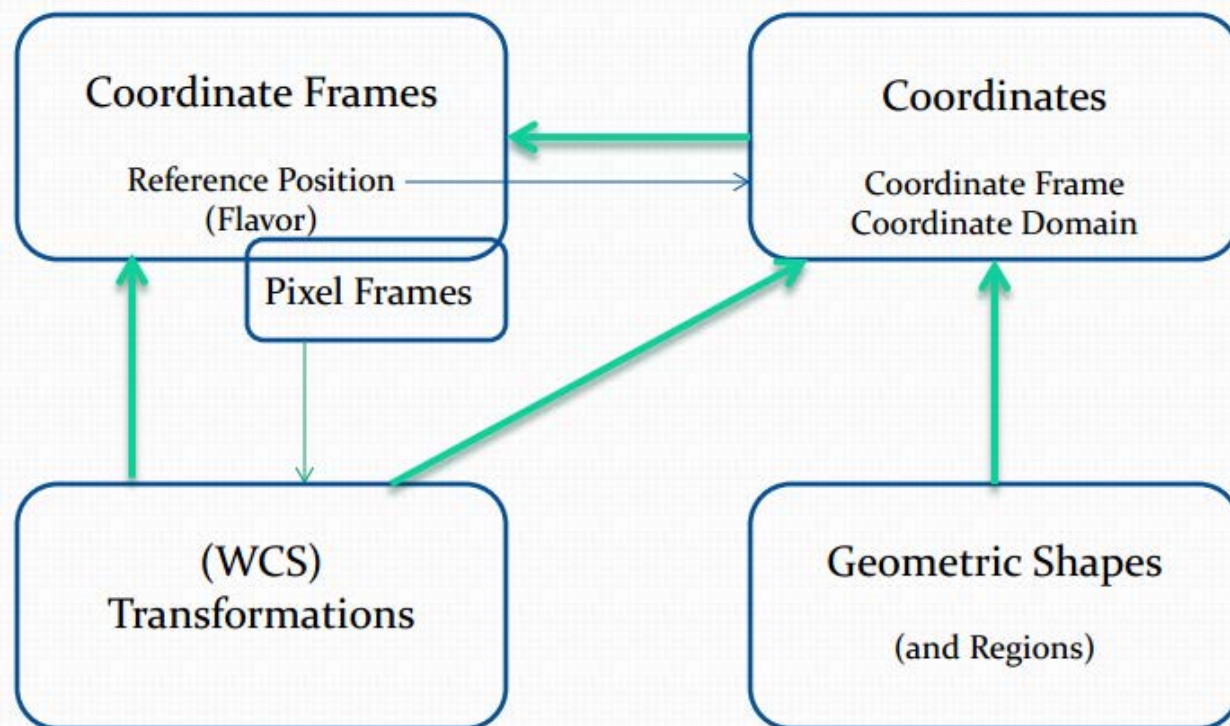
- DM, GWS approved
- DAL approved with note on minor typos
- RWG extensive comments
- AWG, SWG no comment
- Reference implementations
  - Include links to implementations
  - What level of interoperability do they demonstrate? (M. Louys: Metrics?)
  - All encourage to collaborate
- Example Serializations in DM spec

# DM 1 session

- ObsCoreDM by M. Louys: Updates to make use of ObsDataSet. Version to be circulated among authors, end October
- Provenance: Update from M. Demleitner and comparison with W3C provenance model
- STC2 by A. Rots:
  - Use of VO-DML as a more robust design tool
  - Leaner and more abstract
  - More modular
  - Support needed for CubeDM

# STC2 Packages

## Packages

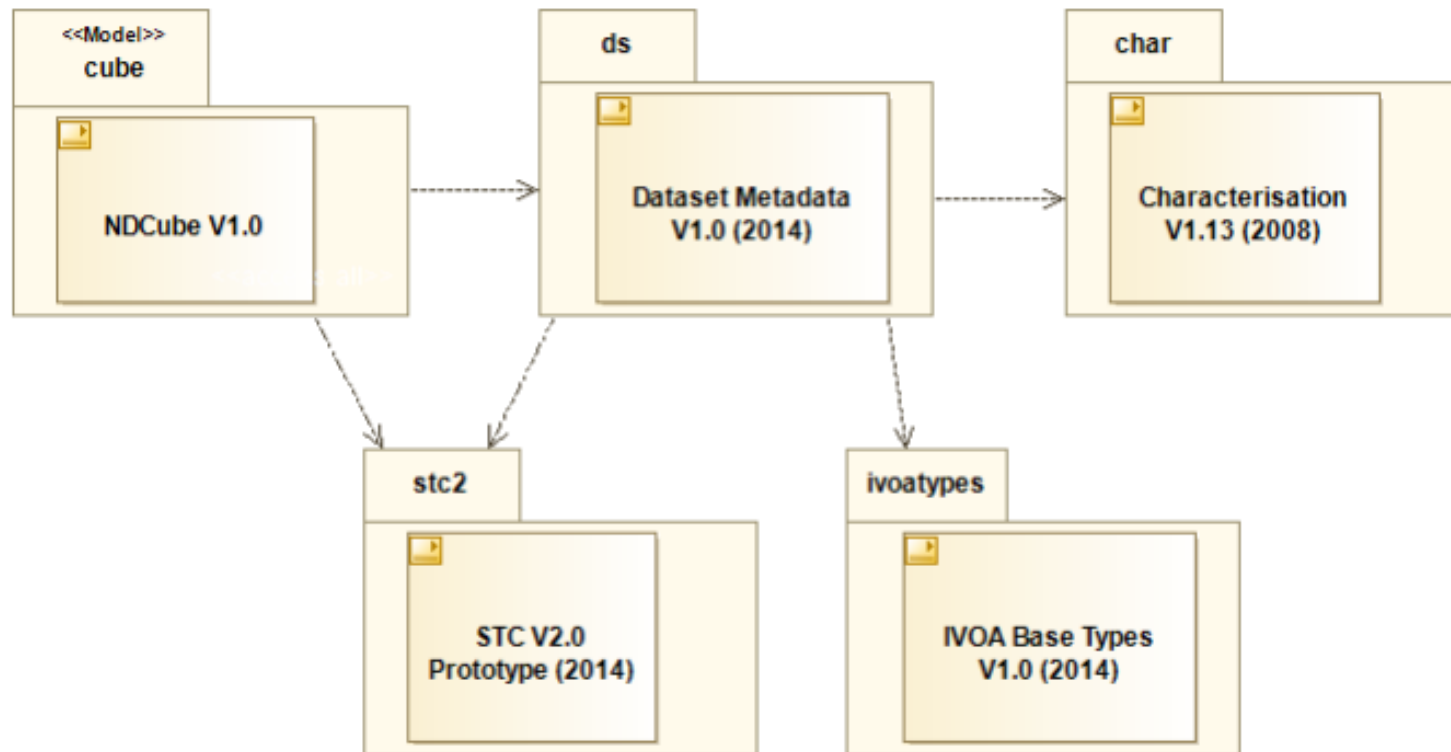




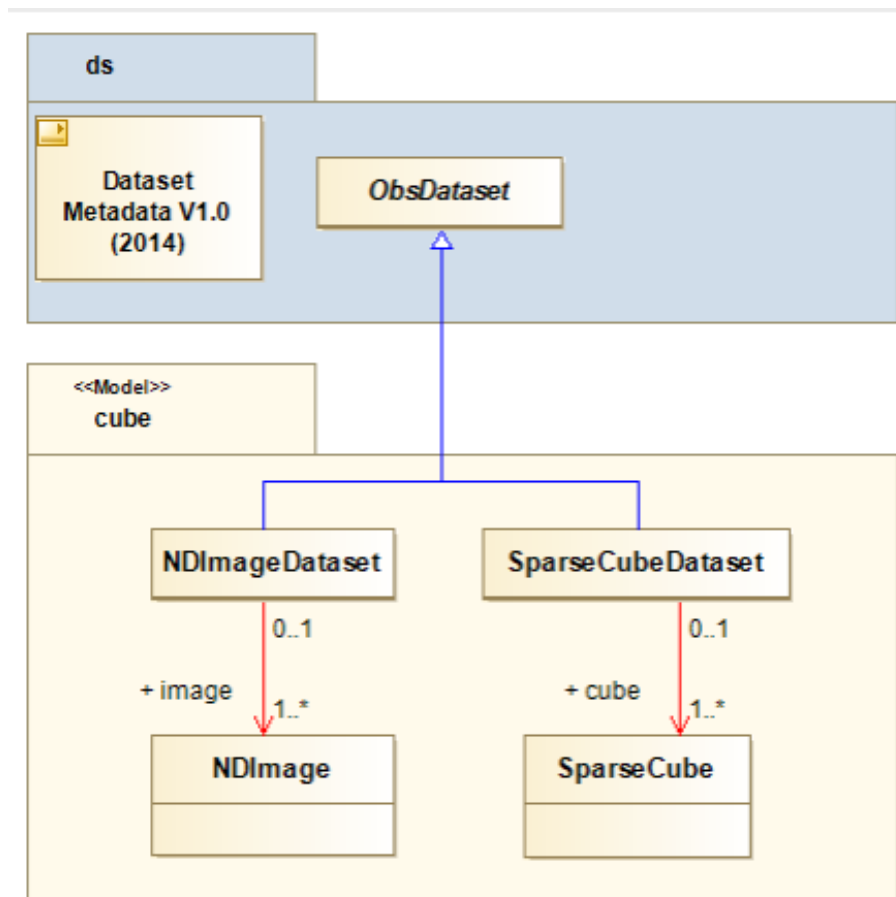
- Simple Time Series presentation by M. Fitzpatrick
  - Endorsed specification
  - Possible conflict with a future integration/expansion of SpectralDM?
  - Another format?
- Char2DM adaptation to VO-DML by F. Bonnarel
  - Feedback received from this exercise



# DM2 – CubeDM

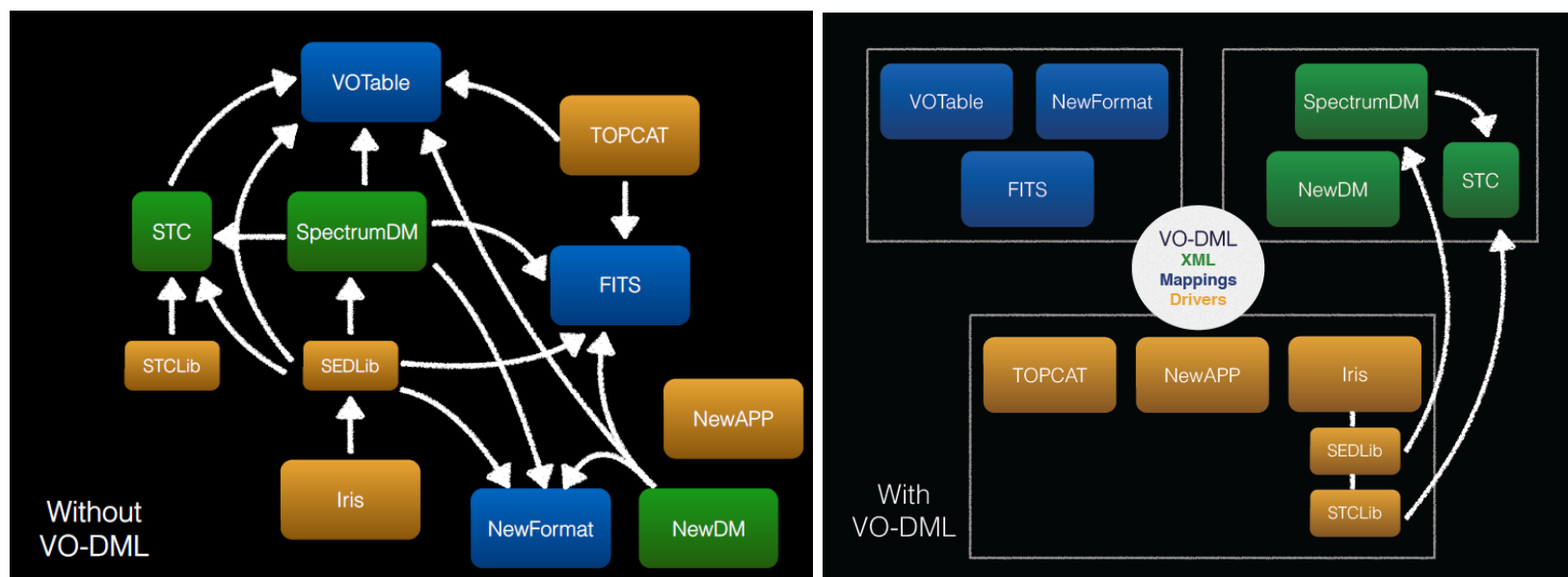


# DM2 – CubeDM



# VO-DML

- VO-DML mapping status by O. Laurino



- <http://nbviewer.ipython.org/github/olaurino/vo-dml/blob/master/MappingTutorial.ipynb>

# VO-DML Implementations

- VO-DML Mapper (Hawaii)
- Eclipse Domain Specific Language (Madrid)
- Python implementation - ~halfway (Banff)
- Java (de-)serialization - complete (Heidelberg, TBU)
- VO-DML/XML to HTML, TAP Schema (Heidelberg)
- XMI -> VO-DML/XML translation scripts for Modelio, Altova, Magic Draw
- (De-)serialization tutorial

# Mapping to VOTable

- Option 1: Point utype attribute into VO/DML models
- Option 2: Add vodml-role in some VOTable attributes
- Option 3: Add vodml-role and vodml-type
- Option 4: Add a specific VO-DML element



# Next Steps

## SpectralDM 2.0

- Update Draft
- Implementations

## Other DMs

- ObsCore update – new version end of October to be distributed among authors
- Cube, STC-2, Char2
- Implementations!!

## VO-DML

- Start RFC process

## SourceDM

- Define group of collaborators