

Tutorial session – Introduction

R. Slijkhuis (EDP)

- Aim of the tutorial session
- Collections & releases
- Tutorial session specifics and description of the data sets

Aim of the tutorial section

- To become familiar with the Phase III tools for data validation and submission.
- To start thinking about how to make the best use of the Phase III collection & release concept for your surveys.

Collections & Releases – Quick recap

- Collection = data collection
- A collection provides a logical separation of data.
- Collections are independent entities.
- The collection name is important, as this is the main identifying feature for a particular collection of data.

- Releases provide a means of adding/updating (the data in) a collection.
- Releases (within a collection) do not exist independently of each other but build on each previous release.

- It is up to the provider of the data to decide what the best way to group the data is, and how to release them (all at once, updating over time).

Collections & Releases – Two examples

- Deep high-redshift surveys:
 - Small number of fields.
 - Deeper products for each field as survey progresses.
 - One collection per field.
 - Each (superseding) release makes the collection deeper.
- Wide shallow surveys:
 - Large area.
 - More sky covered as survey progresses.
 - One collection per year or period.
 - (Complementing) Releases can be done throughout the year, expanding the sky coverage of the collection.

Tutorial goals

- Set up delegation,
- Set up collections and releases as desired,
- Make sure the data validates and
- Successfully complete the submission process, resulting in the final, ‘archived’, status.

Data set description

Four sets of data have been defined, mimicking survey deliveries:

1. VISTA SV deep Z, NB and J mini-survey of NGC 253
(Deep tiles, weight maps and source lists)
2. VISTA SV ultra-deep Z mini-survey of NGC 253
(Deep pawprint, contributing shallow pawprints,
weight maps, source lists)
3. ZYJHKs mini-survey in the Orion OB Association
(Shallow tiles, weight maps, source lists)
4. ZYJHKs mini-survey in the Orion OB Association
(Shallow tiles for multiple epochs, weight maps,
source lists)

Data set order

UltraVISTA, VIDEO and VIKING teams:
Please start with sets #1 and #2.

VVV, VHS, VMC teams:
Please start with sets #3 and #4.

If there is time, the other data sets can be
tried as well.

Locations of data sets and the Phase III tools

Data set	Location
Data set #1	~/workshop/tutorial1
Data set #2	~/workshop/tutorial2
Data set #3	~/workshop/tutorial3
Data set #4	~/workshop/tutorial4

Component	Location
Release Manager	http://dfidev1.hq.eso.org:8080/rm
Validator	~/workshop/validator.jar
FTP server	dfidev1.hq.eso.org

Other useful programs

Program	Function
lftp	FTP client
dfits	List FITS headers
fitsort	Parse dfits output to show specific keywords
fv	Display and edit FITS headers
modhead	Add/modify FITS header keywords
headrem	Remove FITS header keywords
fchecksum	Add/update CHECKSUM and DATASUM keywords

- Make the terminal extra wide to see the full progress bar of the validator.
- To run the validator: `java -jar ~/workshop/validator.jar -r <directory with data to validate> -m <create | update>`
- Login to the Release Manager and the FTP server with your User Portal user name and use as password this username prefixed with 'G', e.g. user phase3user, password Gphase3user.
- Delegation is done using email addresses as stored in the User Portal.