

VIRCAM DataFlow and Quality Control

- dataflow overview
- health check
- calibration plan
- pipeline processing
- quality control

VLT / VISTA dataflow

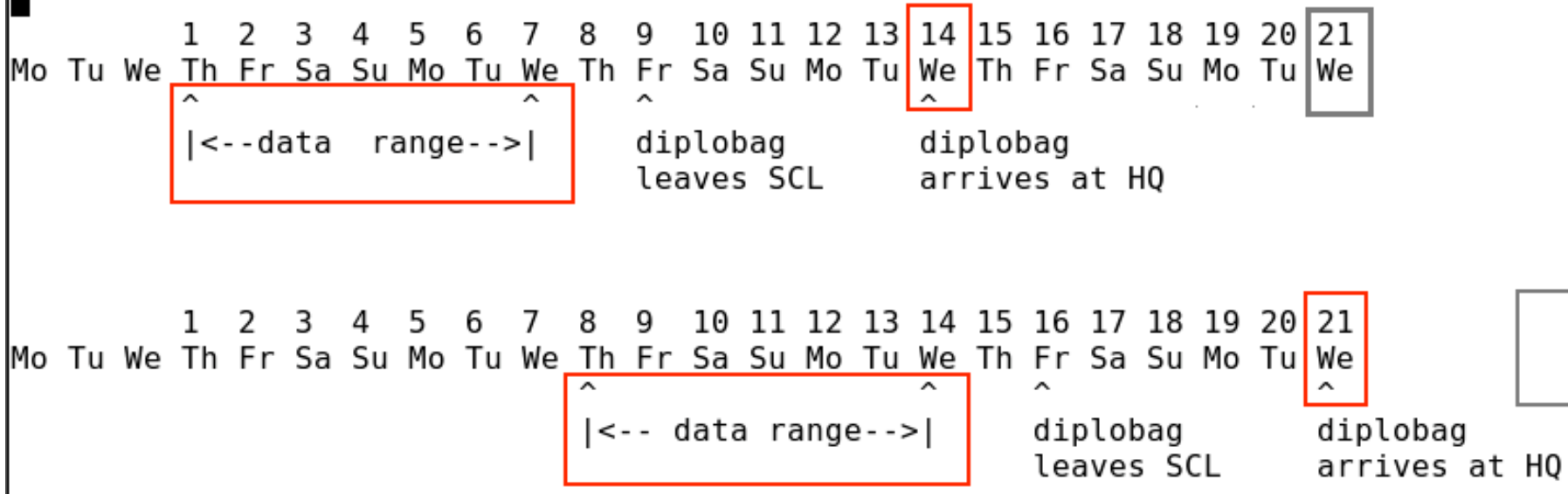
- constraint set check at PSO (QC0)

(moon, seeing-IQ, ZP-sky transparency)

- on-line pipeline partial processing using static calibrations, QC1, health check (ftp-channel)

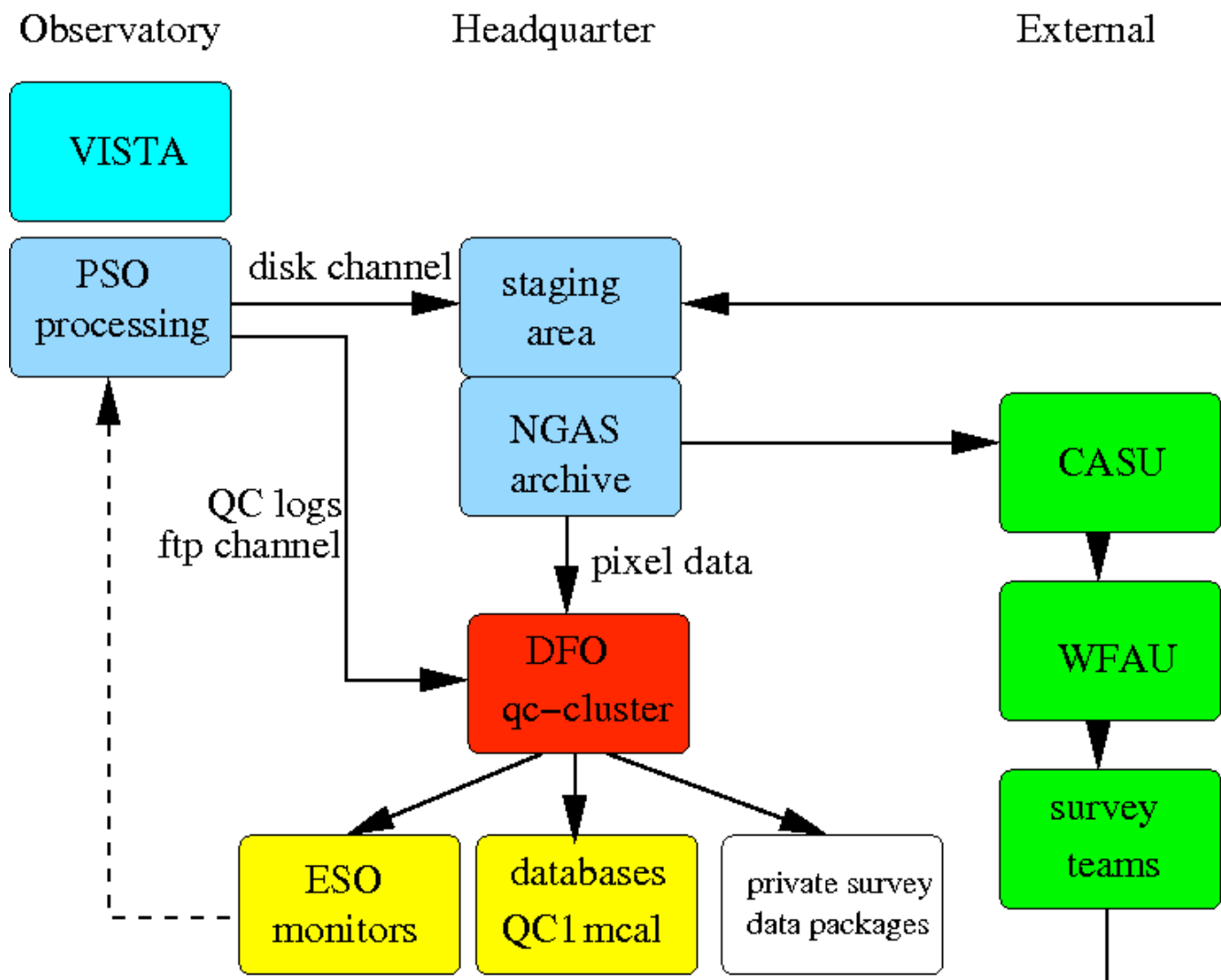
- ESO internal dataflow:
10+/-4 days later: pixel data in ESO HQ
(USB-disk channel):
archiving,
pipeline processing,
QC1, feed-back

VIRCAM delivery pattern



- ESO external dataflow
 - > Cambridge VDFS/CASU
 - > Edinburgh WFAU
 - > Vista public survey teams
 - > ESO-DMO-DFO-EDP (phase 3)

dataflow



Health check

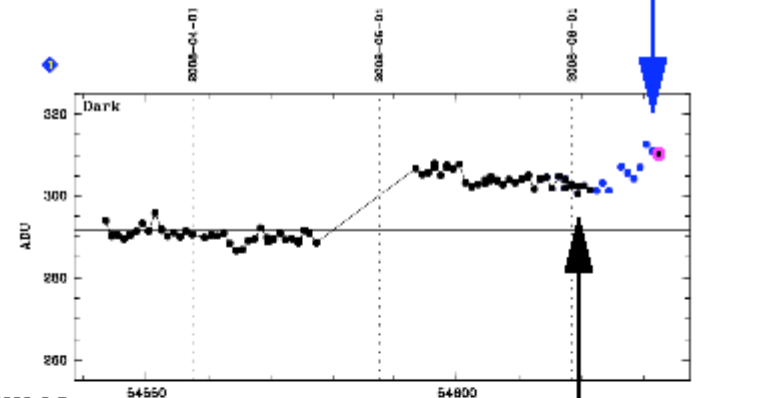
Paranal Observatory



acquire frames
archive frames
process frames
extract QCI parameters
send QCI to Garching

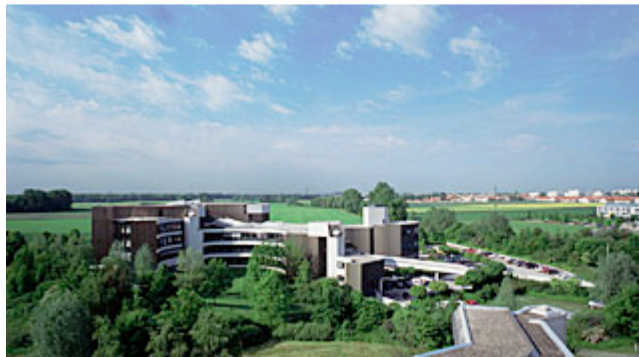
ftp channel

ISAAC: DARK parameters SW-DoubleCorr (last 90 days, close-up)
QC data range: 2008-03-18 ... 2008-06-04; last OPSLOG data: 2008-06-15



created by trendPlotter v1.53 on 2008-09-15T18:34:36

Garching Headquarters



download frames
classify, group and
associate frames
process frames
certify products
ingest products
ingest QCI parameters

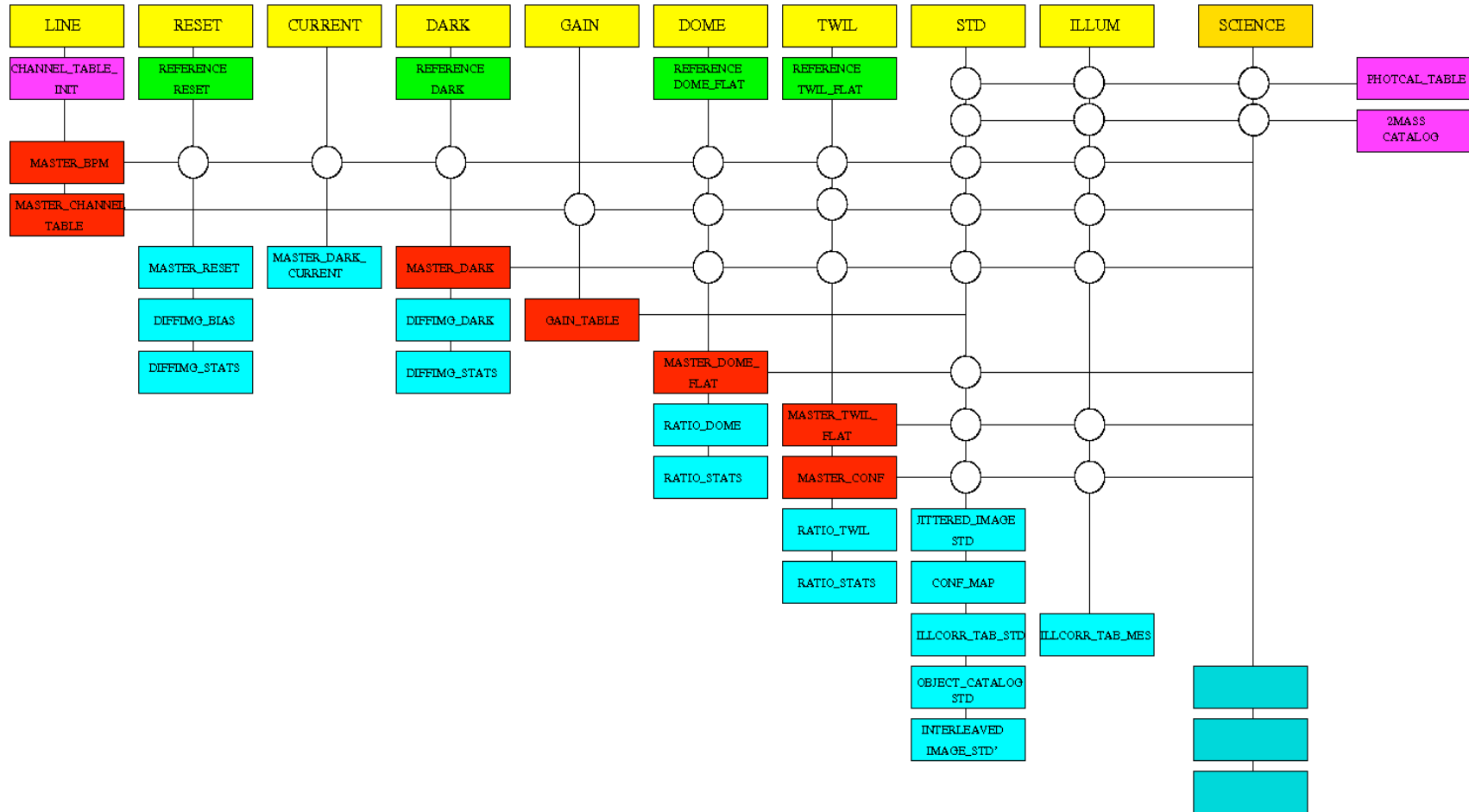
disk channel

At ESO HQ: processing and QC

- process all calibrations (cascade)
- data reduction pipeline:
 - 10+1 recipes, 35 QC parameters
Paranalization (= embed processes in PSO)
 - large data volume, low data complexity
 - parallel processing on 40 node cluster
- QC spot checks on science products (details at SV)
- outcome:
 - master calibrations -> cdb,
 - QC1 parameters -> QC1 db (public),
 - problem reports to PSO and IOT
 - [private surveys data packages]

vircam calibration cascade

management of processing dependencies



volume & complexity: scoring


Parameter score report

VIRCAM. 2006-06-14T14:27:50.223_tpl.ab
RAW_TYPE: DARK
setup: 256.0000000
time range: ...


[AB](#) | [ALOG](#) | [PLOG](#) | [QC1_plotter](#)
[back to [AB monitor](#)]


Scores are collected per QC1 parameter.

qc_darkmed




qc_darkrms



coversheet: 

Score data: [details ...](#)

 **score result: 2/18 best: 0/18**

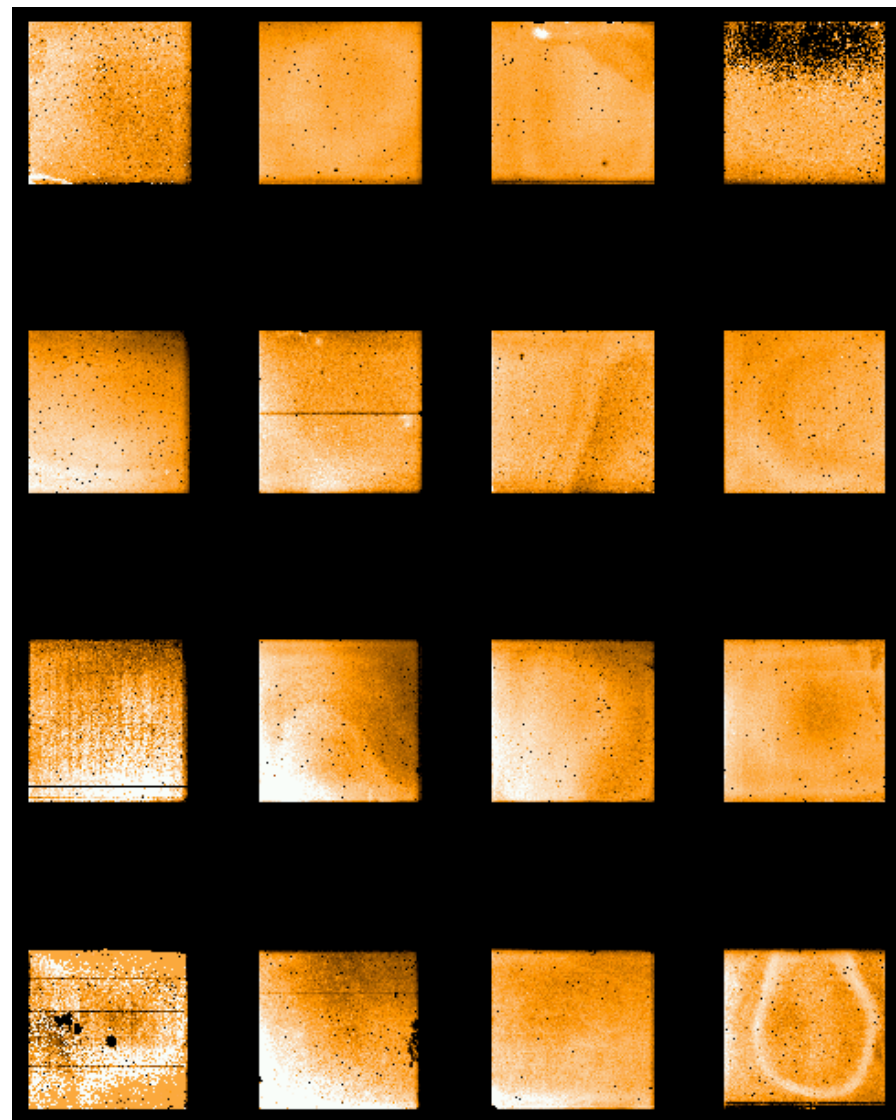
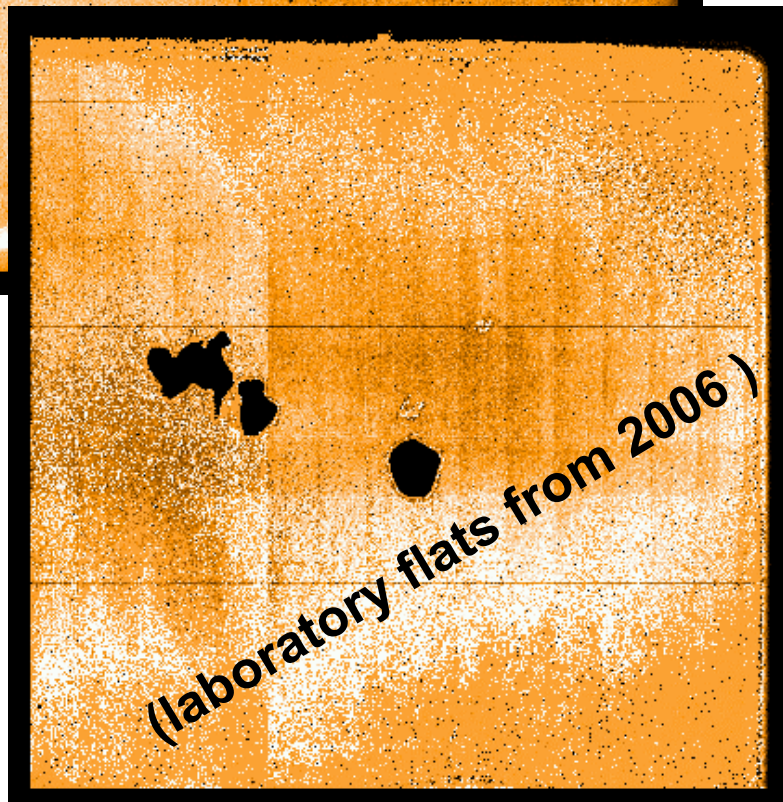
Detector score report

Scores are collected per detector.

DET1.CHIP4	DET1.CHIP8	DET1.CHIP12	DET1.CHIP16
DET1.CHIP3	DET1.CHIP7	DET1.CHIP11	DET1.CHIP15
DET1.CHIP2	DET1.CHIP6	DET1.CHIP10	DET1.CHIP14
DET1.CHIP1	DET1.CHIP5	DET1.CHIP9	DET1.CHIP13

- * Comparison with thresholds
- * Information on demand

master calibrations



VIRCAM: DARKRMS DIT=60 (last 60 days)

QC data range: 2008-07-07 ... 2008-09-04

