

Status Operational Processor L1 V9/L2 V7

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14/15.06.2016

Overview				
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Overview

1 Level 1 Status









Level 1 Status •00000000		
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L1 WP2160: Individual Pixel Characterisation (I)

• Implementation complete and verified



Level 1 Status		
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L1 WP2220: Dark Calibration

- New, corrected dark values received by SRON in March (IDL SAV)
- Modelled darks were compared to dark measurements by SRON for 0.5s IT, result shows that new dark values are improved
- File was converted to netCDF for processor
- Implementation was verified
- Very rarely a NaN value occurs in the dark parameters, these will be treated like bad pixels
- More often errors of dark parameters show NaN, handling of these is TBD (exchange by default error values from valid data in DB would be one option)



Level 1 Status			
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L1 WP 2240 Spectral Calibration Channel 6+

- ISRF (slit-function) derivation was tested on sun data, study is on-going
- Implementation will be done "offl-line", i.e. the results of spectral calibration will be added to the CaIDB aand tested on Level 2
- Off-line implementation will relax the schedule a little bit



Level 1 Status		
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L1 WP 2250: Spectral Calibration Channel 8 (II)

Implementation complete



Level 1 Status			
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L1 WP2270: Improve Pointing

Implementation complete



Level 1 Status		
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L1 WP2120: Improve ESM Diffuser Reference

• Will be done together with WP2140



Level 1 Status			
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L1 WP2140: Improve Degradation Correction

- First version of SMM was already implemented
- Update retarder matrix and ESM SMR pending
- Waiting for final set of m-factors

L1 WP2260: Improve Polarisation Correction

- Implementation of GOME-CHEOPS algorithm finished
- ATBDs analysed
- Request for inputs (test data, unclear points) will be send this week
- Schedule is on critical path, but no delay expected yet

Level 1 Status		

Other Level 1 tasks

- These tasks will be done after baselines are finished:
 - scial1c update for netcdf
 - porting to new CFI geolocation library (this is optional, but has the advantage that multithreading becomes possible)



	Level 2 Status		
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L2 WP3110: Error Calculation

• not started yet, implementation has higher priority



L2 WP3140: Limb Cloud Flagging

- at MTR it was decided not to implement the new limb cloud algorithm
- Instead the existing operational SCODA limb cloud algorithm has to be updated
- the required changes are:
 - geographical constraints for PSCs
 - maximal solar zenith angle for which the retrieval is still performed
 - maximal allowed and warning heights for all types of clouds
 - thresholds for detection of all types of clouds
- all required changes implemented into the operational processor.
- Standard verification data set processed
- reference IUP data set (213 orbits) delivered to DLR
- comparison pending

	Level 2 Status	
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L2 WP3240: Tropospheric BrO

- Implementation started
- last details under iteration with BIRA
- see presentation SG



	New Product Format	
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New Product Format

Level 1:

- sample product was send out
- comments received, these will be implemented
- Level 2:
 - sample product was send to QWG
 - no comments received



			Schedule ●O
Schedule	(1)		

- Both L1, L2 are still scheduled to be finished in September
- Level 1 schedule is critical, but not yet delayed
 - Current planning is to have the polarisation implementation ready begin of August
- Level 2 is on schedule
- Documentation:
 - Verification Report L1 first draft will also be delivered before August
 - Skeleton baseline status report end of June
 - Verification Report L2: pending needs agreement on verification data set



		Schedule
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Schedule (II)

Project QWG Overview (from 2016-06-13-14:00-+0200)

Overview

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QWG Kick-Off	2014-08-01	2014-08-01	_											
ESL Nick-Of	2014-11-01	2014-11-01												
CAR DATE	2016-03-02	2016-03-02												
ESL/Format Acceptance	2016-09-29	2016-09-29												
ESL: Verification Acceptance	2016-10-05	2016-10-05												
Level 1 Acceptance	2017-05-19	2017-06-19												
Level 2 Acceptance	2017-05-19	2017-06-19												
Final Presentation	2017-05-19	2017-06-19										li 🔶		
SRON: Deliver Darks	2015-10-15	2015-10-15												
UP: Delver SMM code	2016-02-17	2016-02-17												
QWG General Activities	2014-11-02	2017-08-18	-									_		~
= WP 4700: New product format	2014-11-07	2016-09-29	_											
- Level 1 Activities	2014-08-01	2017-09-15	_									_	_	
🖛 WP 2110: L1-2 Feedback	2015-09-01	2017-01-20												
= L1 Implementation	2014-08-01	2016-09-02	_											
WP2140: Improve degradation correction 0mpl0	2016-02-17	2016-03-02	-											
WF 2160: Pixel D8FM	2015-08-31	2015-12-03												
WP 2220: Improve darks (impl)	2015-10-15	2016-02-16	-											
WP 2240: Improve spectral calibration Ch.6+	2016-03-21	2016-09-02												
WP 2250: Improve spectral calibration Ch.9	2015-10-12	2015-12-02	5											
WP 2260: Improve Polarisation	2015-11-17	2016-08-23												
WP2260: CHEOPS Implement	2015-11-17	2016-01-15	2											
WP 2260: PHD Delays	2016-05-14	2016-06-14	-											
WP 2260: FMD Spike Filtering	2016-08-22	2016-08-23	m											
 WP2292: Effective Wavelength Handling 	2016-06-29	2016-08-02	1 H-10											
WP 2260: Rotate Frame to U=0 (N)	2016-08-23	2016-08-23												
WP 2260: Use LUT for polarisation (N)	2016-06-14	2016-06-21	Henry I											
WP3260: Verification (N)	2016-09-10	2016-08-16												
WP2260: Linb Polarisation Improvement Incomplete	2016-05-21	2016-06-29												
WP2260: Verification (L)	2016-08-16	2016-08-22												
WP 2270: Improve Pointing (impl.)	2016-01-24	2016-02-16	3											
we 2210: Improve and consolidate errors	2016-05-04	2017-05-18												
with 2280: Support of LL Working Group	2017-06-22	2017-09-15												_
= L2 Activities	2015-05-11	2017-05-19												
= WP 3110: Documentation and improvement error	2016-02-01	2017-05-06	_											
wP 3130: Haintenance of science reference	2016-01-07	2017-06-19												
C L2 Implementation	2015-05-11	2016-10-05	_											
= WP 3210: Improve limb cloud flagging	2016-01-20	2016-10-05												
WP 3210: Improve limb cloud flagging Prep	2016-01-20	2016-03-10												
WP 3210: Improve limb cloud flagging Impl.	2016-05-07	2016-05-11	5											
WP 3210: Improve limb cloud flagging Veri.	2016-09-20	2016-10-05				TTT 1111				11111				
= WP 3240: Tropospheric BrO	2015-05-11	2016-02-07												
WP 3240. Tropospheric Br0 Prep	2015-05-11	2016-01-20	-			101101								
WP 3240. Tropospheric Br0 Impl.	2016-05-05	2016-09-07												
Raseline Activities	2015-04-18	2017-05-19										-		
			_		Contribution	Rissen of Tauly								
				i i	Off-duty period		• •							

