

## **Operation Change Request**

OCR No: 044

Issue: final

Title: Channel 8 anti-saturation

#### **Description of Request:**

Win back a number of saturated pixels in channel 8 by reducing the Pixel Exposure Time (PET) by a factor of 4 or 8. The mentioned pixels are affected by extreme dark current and hence quickly saturate. Reduction of the PET will reduce the total accumulated dark current to within ADC range.

It is estimated that about 40 and 55 pixels can be salvaged for factors 4 and 8, respectively. Evaluation of existing short dark states shows that there will be 30% and 40% additional noise for the remaining good pixels for factors 4 and 8, respectively.

For optimal dark correction, each nadir state should have a matching eclipse dark state and limb state with respect to Pixel Exposure Time. To stay in-line with low data rate requirements, co-adding should be used.

To test nadir measurements at maximum signal intensity, orbits over the Sahara desert are essential. It is preferred to have as much land coverage as possible. At least 3 consecutive orbits with factor 4 and 3 consecutive orbits with factor 8 are required. See the tables on the next pages for details.

Originator: Field variation Medi Date of 1994e. IMay 21 2010 Originators: Five	Originator: Pieter van der Meer Date of Issue: N	21 <sup>st</sup> 2010 Signature: PM
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#### Assessment of SSAG (necessary for requests by scientists):

The investigation of the implementation is recommended as good pixels in channel 8 are rare. It is recommended to investigate implementation together with OCR\_43 "Revision of calibration states 8, 26, 46, 63 and 67" by R. van Hees.

SSAG:	Date:	Signature:
H. Bovensmann	17.5.2010	e-mail, 17.5.2010

Classification of OCR:

#### OCR Analysis (incl. Implementation Option):

The OCR will be executed in 2 sessions since the identical co-adding tables and the PET-table must be modified for the reduction of channel 8 PET's for 2 over-flight occasions of North Africa.

Factor-4 parameters will be loaded for 3 subsequent orbits and for the following occasion factor-8 parameters.

Factor 4 setting requires upload of new PET's for 15 states and 15 co-adding tables, Factor 8 setting requires upload of new PET's for 13 states and 13 co-adding tables. Reference for these modifications is the new Final Flight Configuration based on OCR\_43. The corresponding PET and co-adding settings are given in the annex.

#### Time frame:

OCR\_44 will be planned for the first days in August to avoid mixing with OCR\_46. OCR\_43 will be part of the basic flight configuration by then.

SOST: (ESA, Industry if necessary)	Date: 15.06.2010	Signature: E.Krieg								
Approval of Proposed Implementation:										
Originator Approval: Pieter van der Meer	Signature: PM									
SSAG Approval: H. Bovensmann	Date: 21.6.2010	Signature: e-mail, 21.6.2010								
Decision / Approval: Shall be implemented as recomm										
DLR Approval: A. Friker (if necessary NIVR, SPEC)	Date: 21.06.2010	Signature: via e-mail 21.06.2010								

#### OCR 044 channel 8 anti saturation.doc

#### Implementation by SOST:

Execution of 3 subsequent orbits with PETs reduced by factor 4 and related co-adding are planned 6<sup>th</sup> August from orbit 44091 onwards. This will be followed by the execution of 3 subsequent orbits with PETs reduced by factor 8 and related co-adding on 9<sup>th</sup> August from orbit 44134 onwards. The ground tracks of these orbits are given in annex 6.

The validity start time for the parameter CTI tables will be set accordingly.

Note: The MCMDs for uploading the CTI tables must be separated by 10 sec. Because the number of CTI table uploads is so large, the planned gap between the end of the eclipse timeline in orbits 44090 and 44133 is too short to. Therefore these eclipse timelines are not executed. The same applies to orbits 44093 and 44136 when the CTI tables are commanded back to the nominal final flight configuration.

SOST	Date:	Signature:
M.Gottwald; E.Krieg	22.06.2010	e-mail 22.06.2010

### OCR\_044\_channel\_8\_anti\_saturation.doc

**ANNEX 1:** Intended PET and co-adding changes based on the proposal of the originator.

### Exposure time reduced by factor 4:

## Channel 8 (main cluster)

State ID	Old PET value	New PET value	Duration	Co-adding table	Old co-adding value	New co-adding value
1	1	1/4	65	21	1	4
2	1	1/4	65	22	1	4
3	1	1/4	65	23	1	4
4	1	1/4	65	24	1	4
5	1	1/4	65	25	1	4
6	1/2	1/8	65	26	1	4
7	1/2	1/8	65	27	1	4
8	1/8	1/4	80	52	4	2
26	See OCR43	See OCR43	See OCR43	51	See OCR43	See OCR43
28	1.5	1/4	52.31	1	1	6
29	1.5	1/4	52.31	2	1	6
30	3/8	1/8	52.31	3	1	3
31	3/8	1/8	52.31	4	1	3
32	3/8	1/8	52.31	5	1	3
33	1.5	1/4	52.31	6	1	6
46	1/16	1/8	10	45	8	4
63	See OCR43	See OCR43	See OCR43	49	See OCR43	See OCR43
67	See OCR43	See OCR43	See OCR43	50	See OCR43	See OCR43

## OCR\_044\_channel\_8\_anti\_saturation.doc

## Exposure time reduced by factor 8:

## Channel 8 (main cluster)

State ID	Old PET value	New PET value	Duration	Co-adding table	Old co-adding value	New co-adding value
1	1	1/8	65	21	1	8
2	1	1/8	65	22	1	8
3	1	1/8	65	23	1	8
4	1	1/8	65	24	1	8
5	1	1/8	65	25	1	8
6	1/2	1/16	65	26	1	8
7	1/2	1/16	65	27	1	8
8	See OCR43	See OCR43	See OCR43	52	See OCR43	See OCR43
26	See OCR43	See OCR43	See OCR43	51	See OCR43	See OCR43
28	1.5	1/8	52.31	1	1	12
29	1.5	1/8	52.31	2	1	12
30	3/8	1/16	52.31	3	1	6
31	3/8	1/16	52.31	4	1	6
32	3/8	1/16	52.31	5	1	6
33	1.5	1/8	52.31	6	1	12
46	See OCR43	See OCR43	See OCR43	45	See OCR43	See OCR43
63	See OCR43	See OCR43	See OCR43	49	See OCR43	See OCR43
67	See OCR43	See OCR43	See OCR43	50	See OCR43	See OCR43

## Channel 7 (main part – increased integration times to facilitate higher channel 8 bit rates)

State ID	Old PET value	New PET value	Duration	Co-adding table	Old co-adding value	New co-adding value
6	1/2	1/2	65	26	1	1
7	1/2	1/2	65	27	1	1
8	See OCR43	See OCR43	See OCR43	52	See OCR43	See OCR43
26	See OCR43	See OCR43	See OCR43	51	See OCR43	See OCR43
30	3/8	3/8	52.31	3	1	1
31	3/8	3/8	52.31	4	1	1
32	3/8	3/8	52.31	5	1	1
46	See OCR43	See OCR43	See OCR43	45	See OCR43	See OCR43
63	See OCR43	See OCR43	See OCR43	49	See OCR43	See OCR43
67	See OCR43	See OCR43	See OCR43	50	See OCR43	See OCR43

**ANNEX 2:** Cluster allocation and required PET and co-adding together with the resulting signal integration time for the 7 nadir states and the 6 limb states (PET reduction by factor 4). As summary the total data rate for the states is given in the last row of each page.

State						N1	
luster Ind.	Description	min/max waveleng	oth nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213,29	239,88	1a	1	1	1
3	virtual channel 1a	240.00	281,90	1a	1	1	1
4	virtual channel 1b	282,01	303,54	1b	1	0,5	0,5
5	overlap region, PMD 1	303,65	313,92	1b	1	0,5	0,5
6	Blinded Pixel	333,92	334,37	1b	2	0,5	1
7	Blinded Pixel	412,18	411,74	2b	2	0,5	1
8	overlap region 2b	403,96	391,87	2b	2	0,5	1
9	UV DOAS, PMD 1	391,76	320,14	2b	1	0,5	0,5
10	overlap region 2a, UV DOAS, PMD 1	320,02	309,43	2a	1	0,5	0,5
11	Blinded Pixel	301,06	300,59	2a	2	0,5	1
12	Blinded Pixel	383,56	385,84	3	1	1	1
13	overlap region	391,88	404,10	3	1	1	1
14	140 DO 40 DIAD 0	404,34	423,73	3	1	1	1
15 16	VIS DOAS, PMD 2	423,97 527,20	526,96 544,56	3	1	1	1
	AE		565,08	3			4.0
17 18	AE .	544,80 565,31	597,28	3	1	1	1
19	overlap region	597,52	605,48	3	1	1	i
20	Blinded Pixel	627,41	628,40	3	1	1	- 1
21	Blinded Pixel	595,36	596,26	4	8	0,125	1
22	overlap region	597,60	605,43	4	8	0,125	1
23	overlap region	605,65	612,53	4	8	0.125	1
24	PMD 3, AE	612.75	725,99	4	1	0,125	0.125
25	1110 0,712	726.19	753.77	4	8	0.125	1
26	O2(A)	753,98	775,92	4	1	0,125	0,125
27	overlap region	776,13	789,85	4	8	0,125	1
28	Blinded Pixel	811,47	812,33	4	8	0.125	1
29	Blinded Pixel	773,21	774,43	5	4	0,25	1
30	overlap region	776,24	789,74	5	4	0,25	1
31		790,04	798,06	5	4	0,25	1
32	PMD 4/7, AE	798,35	946,62	5	1	0,25	0,25
33		946,90	990,40	5	4	0,25	1
34	overlap region, (AE)	990,68	1056,25	5	1	0,25	0,25
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	2	0,125	0,25
38	0.2	1057,02	1233,24	6	8	0,125	. 1.
39	AE	1234,01	1253,14	6	1	0,125	0,125
40		1253,90	1388,96	6	8	0,125	1
41	Water Vapour	1389,72	1410,36	6	1	0,125	0,125
42	Market de la la la DMD 5	1411,12	1548,51	6	8	0,125	1 1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6 6	1 8	0,125	0,125
44 45	add. Water/ice cloud	1671,51 1696,65	1695,84 1707,26	6	1	0,125 0,125	0,125
46	add, vvater/ice cloud	1708.08	1750.09	6	8	0,125	0,125
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel	1934,38	1935,44	7	1	0,125	1
49	Dillided Fixer	1939,99	1967,79	7	1	i	Ŷ
50	CO2	1967,90	1984,05	7	1	1	i
51	10 mm	1984,15	2029,89	7	1	1	1
52	CO2, H2O	2029,99	2040,19	7	1	1	1
53	Blinded Pixel	2042,80	2043,67	7	1	1	1
54	Blinded Pixel	2259,26	2260,47	8	4	0,25	1
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	4	0,25	1
56	Blinded Pixel	2384,60	2385,61	8	4	0,25	1
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 Stefan Noël
 Seite 1
 09.06.2010

### Summary of results

N2

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uster Ind.	Description	min/max wavelen	gth, nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213,29	239.88	1a	1	1	1
3	virtual channel 1a	240,00	281,90	1a	1	1	1
4	virtual channel 1b	282.01	303,54	1b	1	0.5	0.5
5		303.65		1b	1	0,5	0,5
	overlap region, PMD 1	10000 Account	313,92				
6	Blinded Pixel	333,92	334,37	1b	2	0,5	1
7	Blinded Pixel	412,18	411,74	2b	2	0,5	1
8	overlap region 2b	403,96	391,87	2b	2	0,5	1
9	UV DOAS, PMD 1	391.76	320,14	2b	1	0.5	0.5
10	overlap region 2a, UV DOAS, PMD 1	320.02	309.43	2a	1	0.5	0.5
11	Blinded Pixel	301,06	300,59	2a	2	0,5	1
12	Blinded Pixel	383.56	385,84	3	1	1	1
13	overlap region	391,88	404,10	3	1	1	1
14		404,34	423,73	3	1	1	1
15	VIS DOAS, PMD 2	423,97	526,96	3	1	1	1
16		527,20	544,56	3	1	1	1
17	AE	544,80	565,08	3	1	1	1
18	7-2	565,31	597,28	3	i	1	1
	National Control						
19	overlap region	597,52	605,48	3	1	1	1
20	Blinded Pixel	627,41	628,40	3	1	1	1
21	Blinded Pixel	595,36	596,26	4	8	0,125	1
22	overlap region	597,60	605,43	4	8	0,125	1
23	Chapter touch of work	605,65	612,53	4	8	0,125	1
24	PMD 3, AE	612,75	725,99	4	1	0,125	0.125
25	11110 0,712	726,19	753,77	4	8	0,125	1
	00(4)						
26	O2(A)	753,98	775,92	4	1	0,125	0,125
27	overlap region	776,13	789,85	4	8	0,125	1
28	Blinded Pixel	811,47	812,33	4	8	0,125	1
29	Blinded Pixel	773,21	774.43	5	4	0,25	1
30	overlap region	776,24	789.74	5	4	0.25	1
31		790.04	798.06	5	4	0.25	1
32	PMD 4/7, AE	798.35	946,62	5	1	0.25	0.25
	PMID 4//, AE						0.80000
33		946,90	990,40	5	4	0,25	1
34	overlap region, (AE)	990,68	1056,25	5	1	0,25	0,25
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	2	0.125	0.25
38		1057.02	1233.24	6	8	0.125	1
39	AE	1234,01	1253,14	6	1	0,125	0.125
	AE				8		
40	2001 000	1253,90	1388,96	6		0,125	1.
41	Water Vapour	1389,72	1410,36	6	1	0,125	0,125
42		1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	1	0,125	0,125
44		1671,51	1695,84	6	8	0,125	1
45	add. Water/Ice cloud	1696,65	1707,26	6	1	0,125	0,125
46	add. Vidlei/ice cloud	1708,08	1750,09	6	8	0,125	1
	Direct of Direct						
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel	1934,38	1935,44	7	1	1	1
49		1939,99	1967,79	7	1	1	1
50	CO2	1967,90	1984,05	7	1	1	1
51		1984,15	2029,89	7	1	1	1
52	CO2, H2O	2029,99	2040,19	7	1	1	1
53	Blinded Pixel	2042,80	2043,67	7	i	1	i
54	Blinded Pixel	2259,26	2260,47	8	4	0,25	1
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	4	0,25	1
56	Blinded Pixel	2384,60	2385,61	8	4	0,25	1
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### Summary of results

N3

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luster Ind.	Description	min/max wavelen	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213.29	239,88	1a	1	1	1
3	virtual channel 1a	240,00	281,90	1a	1	1	1
4	virtual channel 1b	282.01	303,54	1b	1	0.5	0.5
5	overlap region, PMD 1	303.65	313,92	1b	i	0.5	0,5
6		10000 Account		1b	2		
	Blinded Pixel	333,92	334,37			0,5	1
7	Blinded Pixel	412,18	411,74	2b	2	0,5	1
8	overlap region 2b	403,96	391,87	2b	2	0,5	1
9	UV DOAS, PMD 1	391,76	320,14	2b	1	0,5	0,5
10	overlap region 2a, UV DOAS, PMD 1	320.02	309.43	2a	1	0.5	0.5
11	Blinded Pixel	301,06	300,59	2a	2	0,5	1
12	Blinded Pixel	383.56	385,84	3	8	0.125	1
13	overlap region	391,88	404,10	3	8	0,125	i
	overlap region						
14	Will be a second of the second	404,34	423,73	3	1	0,125	0,125
15	VIS DOAS, PMD 2	423,97	526,96	3	1	0,125	0,125
16		527,20	544,56	3	8	0,125	1
17	AE	544,80	565,08	3	1	0,125	0,125
18		565,31	597,28	3	8	0.125	1
19	overlap region	597.52	605,48	3	8	0,125	1
20	Blinded Pixel	627,41	628,40	3	8	0,125	i
21	Blinded Pixel			4	8		1
		595,36	596,26			0,125	
22	overlap region	597,60	605,43	4	8	0,125	1
23		605,65	612,53	4	8	0,125	1
24	PMD 3, AE	612,75	725,99	4	1	0,125	0,125
25		726,19	753,77	4	8	0,125	1
26	O2(A)	753.98	775,92	4	1	0,125	0,125
27	overlap region	776,13	789,85	4	8	0,125	1
							5.0
28	Blinded Pixel	811,47	812,33	4	8	0,125	1
29	Blinded Pixel	773,21	774,43	5	4	0,25	1
30	overlap region	776,24	789,74	5	4	0,25	1
31		790,04	798.06	5	4	0,25	1
32	PMD 4/7, AE	798.35	946,62	5	1	0.25	0.25
33	A Marie Constant	946.90	990,40	5	4	0,25	1
34	overlap region, (AE)	990,68	1056,25	5	1	0,25	0,25
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	2	0,125	0,25
38		1057.02	1233,24	6	8	0,125	1
39	AE	1234,01	1253,14	6	2	0.125	0.25
40		1253.90	1388,96	6	8	0,125	1
41	10/st1/s	1389,72	1410,36	6	2	0,125	0,25
	Water Vapour						
42	NAME OF THE PARTY	1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	2	0,125	0,25
44		1671,51	1695,84	6	8	0,125	1
45	add. Water/ice cloud	1696,65	1707,26	6	2	0,125	0,25
46		1708.08	1750,09	6	8	0.125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel			7	1	1	1
	Dillided LIXel	1934,38	1935,44				
49	1000	1939,99	1967,79	7	1	1	1
50	CO2	1967,90	1984,05	7	1	1	1
51		1984,15	2029,89	7	1	1	1
52	CO2, H2O	2029,99	2040,19	7	1	1	1
53	Blinded Pixel	2042.80	2043,67	7	1	1	1
54	Blinded Pixel	2259,26	2260,47	8	4	0.25	i
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	4	0,25	1
56	Blinded Pixel	2384,60	2385,61	8	4	0,25	1
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### Summary of results

N4

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uster Ind.	Description	min/max wavelen	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213,29	239,88	1a	1	1	1
3	virtual channel 1a	240.00	281,90	1a	1	1	1
4	virtual channel 1b	282.01	303,54	1b	1	0.5	0.5
5	overlap region, PMD 1	303.65	313,92	1b	i	0.5	0.5
6		NO.00 (6-00-00)		1b	2		
	Blinded Pixel	333,92	334,37			0,5	1
7	Blinded Pixel	412,18	411,74	2b	2	0,5	1
8	overlap region 2b	403,96	391,87	2b	2	0,5	1
9	UV DOAS, PMD 1	391,76	320,14	2b	1	0,5	0,5
10	overlap region 2a, UV DOAS, PMD 1	320.02	309.43	2a	1	0.5	0.5
11	Blinded Pixel	301,06	300,59	2a	2	0,5	1
12	Blinded Pixel	383.56	385.84	3	8	0.125	1
13	overlap region	391,88	404.10	3	8	0,125	1
	overlap region						
14		404,34	423,73	3	1	0,125	0,125
15	VIS DOAS, PMD 2	423,97	526,96	3	1	0,125	0,125
16		527,20	544,56	3	8	0,125	1
17	AE	544,80	565,08	3	1	0,125	0,125
18		565,31	597,28	3	8	0.125	1
19	overlap region	597,52	605,48	3	8	0,125	1
20					8		200
	Blinded Pixel	627,41	628,40	3		0,125	1
21	Blinded Pixel	595,36	596,26	4	8	0,125	1
22	overlap region	597,60	605,43	4	8	0,125	1
23		605,65	612,53	4	8	0,125	1
24	PMD 3, AE	612,75	725.99	4	1	0,125	0.125
25		726,19	753,77	4	8	0,125	1
26	O2(A)	753.98	775,92	4	1	0,125	0,125
27				4	8		500000000000000000000000000000000000000
	overlap region	776,13	789,85			0,125	1
28	Blinded Pixel	811,47	812,33	4	8	0,125	1
29	Blinded Pixel	773,21	774,43	5	4	0,25	1
30	overlap region	776,24	789,74	5	4	0,25	1
31	ATTEMPORED AND AND AND AND AND AND AND AND AND AN	790.04	798.06	5	4	0.25	1
32	PMD 4/7, AE	798.35	946,62	5	1	0.25	0.25
33	TIND WITH	946,90	990,40	5	4	0,25	1
	avadas avadas (AD)			5	1		
34	overlap region, (AE)	990,68	1056,25			0,25	0,25
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	2	0,125	0,25
38		1057.02	1233.24	6	8	0.125	1
39	AE	1234,01	1253,14	6	2	0.125	0.25
40	~_	1253,90	1388,96	6	8	0,125	1
	W. L. VI						
41	Water Vapour	1389,72	1410,36	6	2	0,125	0,25
42		1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	2	0,125	0,25
44		1671,51	1695,84	6	8	0,125	1
45	add. Water/ice cloud	1696,65	1707,26	6	2	0,125	0,25
46	AND THE PARTY OF T	1708.08	1750,09	6	8	0.125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
				7			
48	Blinded Pixel	1934,38	1935,44		1	1	1
49		1939,99	1967,79	7	1	1	1
50	CO2	1967,90	1984,05	7	1	1	1
51		1984,15	2029,89	7	1	1	1
52	CO2, H2O	2029,99	2040,19	7	1	1	1
53	Blinded Pixel	2042,80	2043,67	7	1	1	i
54	Blinded Pixel	2259,26	2260,47	8	4	0,25	1
55							
	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	4	0,25	1
56	Blinded Pixel	2384,60	2385,61	8	4	0,25	1
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### Summary of results

N5

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luster Ind.	Description	min/max wavelen	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213.29	239,88	1a	1	1	1
3	virtual channel 1a	240,00	281,90	1a	1	1	1
4	virtual channel 1b	282.01	303,54	1b	1	0.5	0.5
5	overlap region, PMD 1	303.65	313,92	1b	1	0.5	0,5
6		10000 Account		1b	2		
	Blinded Pixel	333,92	334,37			0,5	1
7	Blinded Pixel	412,18	411,74	2b	2	0,5	1
8	overlap region 2b	403,96	391,87	2b	2	0,5	1
9	UV DOAS, PMD 1	391,76	320,14	2b	1	0,5	0,5
10	overlap region 2a, UV DOAS, PMD 1	320.02	309.43	2a	1	0.5	0.5
11	Blinded Pixel	301,06	300,59	2a	2	0,5	1
12	Blinded Pixel	383.56	385,84	3	8	0.125	1
13	overlap region	391,88	404,10	3	8	0,125	i
	overlap region						
14	WWW.2012.02.02.02.02.02.02.02.02.02.02.02.02.02	404,34	423,73	3	1	0,125	0,125
15	VIS DOAS, PMD 2	423,97	526,96	3	1	0,125	0,125
16		527,20	544,56	3	8	0,125	1
17	AE	544,80	565,08	3	1	0,125	0,125
18		565,31	597,28	3	8	0.125	1
19	overlap region	597.52	605,48	3	8	0,125	1
20	Blinded Pixel	627,41	628,40	3	8	0,125	i
21	Blinded Pixel			4	8		1
		595,36	596,26			0,125	
22	overlap region	597,60	605,43	4	8	0,125	1
23		605,65	612,53	4	8	0,125	1
24	PMD 3, AE	612,75	725,99	4	1	0,125	0,125
25		726,19	753,77	4	8	0,125	1
26	O2(A)	753.98	775,92	4	1	0,125	0.125
27	overlap region	776,13	789,85	4	8	0,125	1
							5.0
28	Blinded Pixel	811,47	812,33	4	8	0,125	1
29	Blinded Pixel	773,21	774,43	5	4	0,25	1
30	overlap region	776,24	789,74	5	4	0,25	1
31		790,04	798.06	5	4	0,25	1
32	PMD 4/7, AE	798.35	946,62	5	1	0.25	0.25
33		946.90	990,40	5	4	0,25	1
34	overlap region, (AE)	990,68	1056,25	5	1	0,25	0,25
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	2	0,125	0,25
38		1057.02	1233,24	6	8	0,125	1
39	AE	1234,01	1253,14	6	2	0.125	0.25
40		1253.90	1388,96	6	8	0,125	1
41	10/star 1/samus	1389,72	1410,36	6	2	0,125	0,25
	Water Vapour						
42	NAME OF THE PARTY	1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	2	0,125	0,25
44		1671,51	1695,84	6	8	0,125	1
45	add. Water/Ice cloud	1696,65	1707,26	6	2	0,125	0,25
46		1708.08	1750,09	6	8	0.125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel			7	1	1	1
	Dillided Pixel	1934,38	1935,44				
49		1939,99	1967,79	7	1	1	1
50	CO2	1967,90	1984,05	7	1	1	1
51		1984,15	2029,89	7	1	1	1
52	CO2, H2O	2029,99	2040,19	7	1	1	1
53	Blinded Pixel	2042.80	2043,67	7	1	1	1
54	Blinded Pixel	2259,26	2260,47	8	4	0.25	i
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	4	0,25	1
56	Blinded Pixel	2384,60	2385,61	8	4	0,25	1
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## Summary of results

N6

State						N6	
Cluster Ind.	Description	min/max wavelen	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213,29	239.88	1a	1	1	1
3	virtual channel 1a	240,00	281,90	1a	1	1	î
4	virtual channel 1b	282.01	303.54	1b	1	0.25	0.25
5	overlap region, PMD 1	303,65	313,92	1b	i	0,25	0,25
6	Blinded Pixel	333,92	334,37	1b	4	0,25	1
7	Blinded Pixel	412.18	411.74	2b	4	0.25	- i
8				2b	4		1
	overlap region 2b	403,96	391,87			0,25	
9	UV DOAS, PMD 1	391,76	320,14	2b	1	0,25	0,25
10	overlap region 2a, UV DOAS, PMD 1	320,02	309,43	2a	1	0,25	0,25
11	Blinded Pixel	301,06	300,59	2a	4	0,25	1
12	Blinded Pixel	383,56	385,84	3	16	0,0625	1
13	overlap region	391,88	404,10	3	16	0,0625	1
14		404,34	423,73	3	16	0,0625	1
15	VIS DOAS, PMD 2	423,97	526,96	3	4	0,0625	0,25
16		527,20	544,56	3	16	0,0625	1
17	AE	544,80	565,08	3	4	0,0625	0,25
18		565,31	597,28	3	16	0,0625	1
19	overlap region	597,52	605,48	3	16	0,0625	1
20	Blinded Pixel	627,41	628.40	3	16	0.0625	i
21	Blinded Pixel	595,36	596,26	4	16	0,0625	i
22	overlap region	597,60	605,43	4	16	0,0625	1
23	overlap region			4	16		i i
	D110 0 45	605,65	612,53			0,0625	
24	PMD 3, AE	612,75	725,99	4	4	0,0625	0,25
25		726,19	753,77	4	16	0,0625	1
26	O2(A)	753,98	775,92	4	4	0,0625	0,25
27	overlap region	776,13	789,85	4	16	0,0625	1
28	Blinded Pixel	811,47	812,33	4	16	0,0625	1
29	Blinded Pixel	773,21	774.43	5	4	0,25	1
30	overlap region	776,24	789,74	5	4	0,25	1
31		790.04	798.06	5	4	0.25	1
32	PMD 4/7, AE	798.35	946.62	5	1	0.25	0,25
33	FIND 4/1, AL	946.90	990.40	5	4	0,25	1
	aveler resise (AD			5	4		
34	overlap region, (AE)	990,68	1056,25		4	0,25	1
35	Blinded Pixel	1061,68	1062,83	5		0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	8	0,125	1
38		1057,02	1233,24	6	8	0,125	1
39	AE	1234,01	1253, 14	6	8	0,125	1
40		1253,90	1388,96	6	8	0,125	1
41	Water Vapour	1389.72	1410.36	6	8	0,125	1
42		1411,12	1548,51	6	8	0,125	1
43	Water/ice cloud & PMD 5	1549,30	1670,70	6	8	0,125	ì
44	Valerice cloud & FIND 5	1671,51	1695,84	6	8	0.125	i i
45	add. Water/Ice cloud			6	8		ł
	auu. Vvaterrice cioud	1696,65	1707,26			0,125	
46	PR 1 191 3	1708,08	1750,09	6	8	0,125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel	1934,38	1935,44	7	2	0,5	1
49		1939,99	1967,79	7	2	0,5	1
50	CO2	1967,90	1984,05	7	2	0,5	1
51		1984,15	2029,89	7	2	0,5	1
52	CO2, H2O	2029,99	2040, 19	7	2	0,5	1
53	Blinded Pixel	2042.80	2043.67	7	2	0.5	1
54	Blinded Pixel	2259,26	2260,47	8	<b>#</b> 8	0,125	25
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	4 °	0,125	0,5
56				8			
	Blinded Pixel	2384,60	2385,61	8	N 8	0,125	25
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### Summary of results

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uster Ind.	Description	min/max wavelen	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212.53	213,14	1a	5	1	5
2	straylight	213,29	239.88	1a	1	1	1
3	virtual channel 1a	240,00	281,90	1a	1	1	1
4	virtual channel 1b	282,01	303,54	1b	2	0.25	0.5
5				1b	1	0.25	0.25
	overlap region, PMD 1	303,65	313,92				0.000
6	Blinded Pixel	333,92	334,37	1b	20	0,25	5
7	Blinded Pixel	412,18	411,74	2b	4	0,25	1
8	overlap region 2b	403,96	391,87	2b	4	0,25	1
9	UV DOAS, PMD 1	391.76	320,14	2b	1	0.25	0.25
10	overlap region 2a, UV DOAS, PMD 1	320.02	309.43	2a	1	0.25	0.25
11	Blinded Pixel	301,06	300,59	2a	4	0,25	1
12	Blinded Pixel	383,56	385,84	3	16	0,0625	1
13	overlap region	391,88	404,10	3	16	0,0625	1
14		404,34	423,73	3	16	0,0625	1
15	VIS DOAS, PMD 2	423.97	526,96	3	4	0,0625	0.25
16		527,20	544,56	3	16	0,0625	1
17	AE	544,80	565,08	3	4	0,0625	0,25
18	AL .	565,31	597,28	3	16	0,0625	1
	ST COOK AND A CONTROL						
19	overlap region	597,52	605,48	3	16	0,0625	1
20	Blinded Pixel	627,41	628,40	3	16	0,0625	1
21	Blinded Pixel	595,36	596,26	4	16	0,0625	1
22	overlap region	597,60	605,43	4	16	0,0625	1
23		605,65	612,53	4	16	0,0625	1
24	PMD 3, AE	612,75	725,99	4	4	0,0625	0.25
25	FIND 3, AL			4	16		
	Temporal Control of the Control of t	726,19	753,77			0,0625	1
26	O2(A)	753,98	775,92	4	4	0,0625	0,25
27	overlap region	776,13	789,85	4	16	0,0625	1
28	Blinded Pixel	811,47	812,33	4	16	0,0625	1
29	Blinded Pixel	773,21	774,43	5	8	0.125	1
30	overlap region	776.24	789.74	5	8	0.125	1
31	overlap region	790.04	798.06	5	8	0,125	1
32	PMD 4/7, AE	798,35	946,62	5	4	0,125	0,5
33		946,90	990,40	5	8	0,125	1
34	overlap region, (AE)	990,68	1056,25	5	8	0,125	1
35	Blinded Pixel	1061,68	1062,83	5	8	0,125	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	8	0,125	1
38	overlap region		1233.24	6	8	0,125	i i
	NA.	1057,02					
39	AE	1234,01	1253,14	6	2	0,125	0,25
40		1253,90	1388,96	6	8	0,125	1
41	Water Vapour	1389,72	1410,36	6	2	0,125	0,25
42		1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549.30	1670.70	6	2	0.125	0.25
44	Valcinice cloud at 1 mb o	1671,51	1695,84	6	8	0,125	1
				6			
45	add. Water/Ice cloud	1696,65	1707,26		2	0,125	0,25
46		1708,08	1750,09	6	8	0,125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel	1934,38	1935,44	7	2	0,5	1
49		1939.99	1967,79	7	2	0.5	1
50	CO2	1967,90	1984,05	7	1	0,5	0,5
51	002			7	2		
	602 1120	1984,15	2029,89			0,5	1
52	CO2, H2O	2029,99	2040,19	7	1	0,5	0,5
53	Blinded Pixel	2042,80	2043,67	7	2	0,5	1
54	Blinded Pixel	2259,26	2260,47	8	8	0,125	1
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	4	0,125	0,5
56	Blinded Pixel	2384.60	2385,61	8	8	0,125	1
57	AND THE STREET	2304,00	2000,01	o	· ·	0,120	
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State						L1	
Cluster Ind.	Description	min/max waveleng	gth, nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	1	1,5	1,5
5	unused pixel	314,03	333,80	1b	1	1,5	1,5
6	Blinded Pixel	333,92	334,37	1b	1	1,5	1,5
7	Blinded Pixel	412,18	411,74	2b	2	0,75	1,5
8	unused pixel	411,63	404,07	2b	1	0,75	0,75
9	virtual channel 2b	403,96	320,14	2b	1	0,75	0,75
10	virtual channel 2a	320,02	309,43	2a	1	1,5	1,5
11	unused pixel	309,31	301,18	2a	1	1,5	1,5
12	Blinded Pixel	301,06	300,59	2a	1	1,5	1,5
13	Blinded Pixel	383,56	385,84	3	1	0,375	0,375
14	unused pixel	386,09	391,63	3	1	0,375	0,375
15	Channel 3 (main part)	391,88	605,48	3	1	0,375	0,375
16	unused pixel	605,72	627,17	3	1	0,375	0,375
17	Blinded Pixel	627,41	628,40	3	1	0,375	0,375
18	Blinded Pixel	595,36	596,26	4	1	0,375	0,375
19	unused pixel	596,48	597,38	4	1	0,375	0,375
20	Channel 4 (main part)	597,60	789,85	4	1	0,375	0,375
21	unused pixel	790,06	811,25	4	1	0,375	0,375
22	Blinded Pixel	811,47	812,33	4	1	0,375	0,375
23	Blinded Pixel	773,21	774,43	5	1	0,375	0,375
24	unused pixel	774,73	775,94	5	1	0,375	0,375
25	Channel 5 (main part)	776,24	1056,25	5	1	0,375	0,375
26	unused pixel	1056,53	1061,40	5	1	0,375	0,375
27	Blinded Pixel	1061,68	1062,83	5	1	0,375	0,375
28	Blinded Pixel	971,46	978,74	6	1	0,375	0,375
29	unused pixel	979,55	990,03	6	1	0,375	0,375
30	Channel 6/6+ (main part)	990,84	1750,09	6	1	0,375	0,375
31	unused pixel	1750,92	1764,24	6	1	0,375	0,375
32	Blinded Pixel	1765,07	1772,59	6	1	0,375	0,375
33	Blinded Pixel	1934,38	1935,44	7	1	1,5	1,5
34	unused pixel	1935,55	1939,88	7	1	1,5	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	1	1,5	1,5
36	unused pixel	2040,29	2042,70	7	1	1,5	1,5
37	Blinded Pixel	2042,80	2043,67	7	1	1,5	1,5
38	Blinded Pixel	2259,26	2260,47	8	6	0,25	1,5
39	Channel 8	2260,61	2384,49	8	6	0,25	1,5
40	Blinded Pixel	2384,60	2385,61	8	6	0,25	1.5
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State						L2	
Cluster Ind.	Description	min/max wavelen	gth, nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	1	1,5	1,5
5	unused pixel	314,03	333,80	1b	1	1,5	1,5
6	Blinded Pixel	333,92	334,37	1b	1	1,5	1,5
7	Blinded Pixel	412,18	411,74	2b	2	0,75	1,5
8	unused pixel	411,63	404,07	2b	1	0,75	0,75
9	virtual channel 2b	403,96	320,14	2b	1	0,75	0,75
10	virtual channel 2a	320,02	309,43	2a	1	1,5	1,5
11	unused pixel	309,31	301,18	2a	1	1,5	1,5
12	Blinded Pixel	301,06	300,59	2a	1	1,5	1,5
13	Blinded Pixel	383,56	385,84	3	24	0,0625	1,5
14	unused pixel	386,09	391,63	3	24	0,0625	1,5
15	Channel 3 (main part)	391,88	605,48	3	6	0,0625	0,375
16	unused pixel	605,72	627,17	3	24	0,0625	1,5
17	Blinded Pixel	627,41	628,40	3	24	0,0625	1,5
18	Blinded Pixel	595,36	596,26	4	24	0,0625	1,5
19	unused pixel	596,48	597,38	4	24	0,0625	1,5
20	Channel 4 (main part)	597,60	789,85	4	6	0,0625	0,375
21	unused pixel	790,06	811,25	4	24	0,0625	1,5
22	Blinded Pixel	811,47	812,33	4	24	0,0625	1,5
23	Blinded Pixel	773,21	774,43	5	8	0,1875	1,5
24	unused pixel	774,73	775,94	5	8	0,1875	1,5
25	Channel 5 (main part)	776,24	1056,25	5	2	0,1875	0,375
26	unused pixel	1056,53	1061,40	5	8	0,1875	1,5
27	Blinded Pixel	1061,68	1062,83	5	8	0,1875	1,5
28	Blinded Pixel	971,46	978,74	6	24	0,0625	1,5
29	unused pixel	979,55	990,03	6	24	0,0625	1,5
30	Channel 6/6+ (main part)	990,84	1750,09	6	6	0,0625	0,375
31	unused pixel	1750,92	1764,24	6	24	0,0625	1,5
32	Blinded Pixel	1765,07	1772,59	6	24	0,0625	1,5
33	Blinded Pixel	1934,38	1935,44	7	1	1,5	1,5
34	unused pixel	1935,55	1939,88	7	1	1,5	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	1	1,5	1,5
36	unused pixel	2040,29	2042,70	7	1	1,5	1,5
37	Blinded Pixel	2042,80	2043,67	7	1	1,5	1,5
38	Blinded Pixel	2259,26	2260,47	8	6	0,25	1,5
39	Channel 8	2260,61	2384,49	8	6	0,25	1,5
40	Blinded Pixel	2384,60	2385,61	8	6	0,25	1.5
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State						L3	
Cluster Ind.	Description	min/max waveleng	gth, nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	2	0,375	0,75
5	unused pixel	314,03	333,80	1b	4	0,375	1,5
6	Blinded Pixel	333,92	334,37	1b	4	0,375	1,5
7	Blinded Pixel	412,18	411,74	2b	4	0,375	1,5
8	unused pixel	411,63	404,07	2b	4	0,375	1,5
9	virtual channel 2b	403,96	320,14	2b	1	0,375	0,375
10	virtual channel 2a	320,02	309,43	2a	1	0,375	0,375
11	unused pixel	309,31	301,18	2a	4	0,375	1,5
12	Blinded Pixel	301,06	300,59	2a	4	0,375	1,5
13	Blinded Pixel	383,56	385,84	3	24	0,0625	1,5
14	unused pixel	386,09	391,63	3	24	0,0625	1,5
15	Channel 3 (main part)	391,88	605,48	3	6	0,0625	0,375
16	unused pixel	605,72	627,17	3	24	0,0625	1,5
17	Blinded Pixel	627,41	628,40	3	24	0,0625	1,5
18	Blinded Pixel	595,36	596,26	4	24	0,0625	1,5
19	unused pixel	596,48	597,38	4	24	0,0625	1,5
20	Channel 4 (main part)	597,60	789,85	4	6	0,0625	0,375
21	unused pixel	790,06	811,25	4	24	0,0625	1,5
22	Blinded Pixel	811,47	812,33	4	24	0,0625	1,5
23	Blinded Pixel	773,21	774,43	5	4	0,375	1,5
24	unused pixel	774,73	775,94	5	4	0,375	1,5
25	Channel 5 (main part)	776,24	1056,25	5	1	0,375	0,375
26	unused pixel	1056,53	1061,40	5	4	0,375	1,5
27	Blinded Pixel	1061,68	1062,83	5	4	0,375	1,5
28	Blinded Pixel	971,46	978,74	6	24	0,0625	1,5
29	unused pixel	979,55	990,03	6	24	0,0625	1,5
30	Channel 6/6+ (main part)	990,84	1750,09	6	6	0,0625	0,375
31	unused pixel	1750,92	1764,24	6	24	0,0625	1,5
32	Blinded Pixel	1765,07	1772,59	6	24	0,0625	1,5
33	Blinded Pixel	1934,38	1935,44	7	4	0,375	1,5
34	unused pixel	1935,55	1939,88	7	4	0,375	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	4	0,375	1,5
36	unused pixel	2040,29	2042,70	7	4	0,375	1,5
37	Blinded Pixel	2042,80	2043,67	7	4	0,375	1,5
38	Blinded Pixel	2259,26	2260,47	8	12	0,125	1,5
39	Channel 8	2260,61	2384,49	8	3	0,125	0,375
40	Blinded Pixel	2384,60	2385,61	8	12	0,125	1.5
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	Rate (bit/s, including Heade	es DMD / Auviliant Data	1			T	3849

State						L4	
luster Ind.	Description	min/max waveleng	gth, nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	2	0,375	0,75
5	unused pixel	314,03	333,80	1Ь	4	0,375	1,5
6	Blinded Pixel	333,92	334,37	1b	4	0,375	1,5
7	Blinded Pixel	412,18	411,74	2b	4	0,375	1,5
8	unused pixel	411,63	404,07	2b	4	0,375	1,5
9	virtual channel 2b	403,96	320,14	2b	1	0,375	0,375
10	virtual channel 2a	320,02	309,43	2a	1	0,375	0,375
11	unused pixel	309,31	301,18	2a	4	0,375	1,5
12	Blinded Pixel	301,06	300,59	2a	4	0,375	1,5
13	Blinded Pixel	383,56	385,84	3	8	0,1875	1,5
14	unused pixel	386,09	391,63	3	8	0,1875	1,5
15	Channel 3 (main part)	391,88	605,48	3	2	0,1875	0,375
16	unused pixel	605,72	627,17	3	8	0,1875	1,5
17	Blinded Pixel	627,41	628,40	3	8	0,1875	1,5
18	Blinded Pixel	595,36	596,26	4	8	0,1875	1,5
19	unused pixel	596,48	597,38	4	8	0,1875	1,5
20	Channel 4 (main part)	597,60	789,85	4	2	0,1875	0,375
21	unused pixel	790,06	811,25	4	8	0,1875	1,5
22	Blinded Pixel	811,47	812,33	4	8	0,1875	1,5
23	Blinded Pixel	773,21	774,43	5	4	0,375	1,5
24	unused pixel	774,73	775,94	5	4	0,375	1,5
25	Channel 5 (main part)	776,24	1056,25	5	1	0,375	0,375
26	unused pixel	1056,53	1061,40	5	4	0,375	1,5
27	Blinded Pixel	1061,68	1062,83	5	4	0,375	1,5
28	Blinded Pixel	971,46	978,74	6	8	0,1875	1,5
29	unused pixel	979,55	990,03	6	8	0,1875	1,5
30	Channel 6/6+ (main part)	990,84	1750,09	6	2	0,1875	0,375
31	unused pixel	1750,92	1764,24	6	8	0,1875	1,5
32	Blinded Pixel	1765,07	1772,59	6	8	0,1875	1,5
33	Blinded Pixel	1934,38	1935,44	7	4	0,375	1,5
34	unused pixel	1935,55	1939,88	7	4	0,375	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	4	0,375	1,5
36	unused pixel	2040,29	2042,70	7	4	0,375	1,5
37	Blinded Pixel	2042,80	2043,67	7	4	0,375	1,5
38 39	Blinded Pixel	2259,26	2260,47	8	12	0,125	1,5
40	Channel 8	2260,61	2384,49	8	3 12	0,125	0,375
	Blinded Pixel	2384,60	2385,61	В	12	0,125	1.5
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04	Rate (bit/s, including Heade					- 3	3849

State						L5	
luster Ind.	Description	min/max waveleng	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	2	0,375	0,75
5	unused pixel	314,03	333,80	1b	4	0,375	1,5
6	Blinded Pixel	333,92	334,37	1b	4	0,375	1,5
7	Blinded Pixel	412,18	411,74	2b	4	0,375	1,5
8	unused pixel	411,63	404,07	2b	4	0,375	1,5
9	virtual channel 2b	403,96	320,14	2b	1	0,375	0,375
10	virtual channel 2a	320,02	309,43	2a	1	0,375	0,375
11	unused pixel	309,31	301,18	2a	4	0,375	1,5
12	Blinded Pixel	301,06	300,59	2a	4	0,375	1,5
13	Blinded Pixel	383,56	385,84	3	8	0,1875	1,5
14	unused pixel	386,09	391,63	3	8	0,1875	1,5
15	Channel 3 (main part)	391,88	605,48	3	2	0,1875	0,375
16	unused pixel	605,72	627,17	3	8	0,1875	1,5
17	Blinded Pixel	627,41	628,40	3	8	0,1875	1,5
18	Blinded Pixel	595,36	596,26	4	8	0,1875	1,5
19	unused pixel	596,48	597,38	4	8	0,1875	1,5
20	Channel 4 (main part)	597,60	789,85	4	2	0,1875	0,375
21	unused pixel	790,06	811,25	4	8	0,1875	1,5
22	Blinded Pixel	811,47	812,33	4	8	0,1875	1,5
23	Blinded Pixel	773,21	774,43	5	4	0,375	1,5
24	unused pixel	774,73	775,94	5	4	0,375	1,5
25	Channel 5 (main part)	776,24	1056,25	5	1	0,375	0,375
26	unused pixel	1056,53	1061,40	5	4	0,375	1,5
27	Blinded Pixel	1061,68	1062,83	5	4	0,375	1,5
28	Blinded Pixel	971,46	978,74	6	8	0,1875	1,5
29	unused pixel	979,55	990,03	6	8	0,1875	1,5
30	Channel 6/6+ (main part)	990,84	1750,09	6	2	0,1875	0,375
31	unused pixel	1750,92	1764,24	6	8	0,1875	1,5
32	Blinded Pixel	1765,07	1772,59	6	8	0,1875	1,5
33	Blinded Pixel	1934,38	1935,44	7	4	0,375	1,5
34	unused pixel	1935,55	1939,88	7	4	0,375	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	4	0,375	1,5
36	unused pixel	2040,29	2042,70	7	4	0,375	1,5
37	Blinded Pixel	2042,80	2043,67	7	4	0,375	1,5
38	Blinded Pixel	2259,26	2260,47	8	12	0,125	1,5
39	Channel 8	2260,61	2384,49	8	3	0,125	0,375
40	Blinded Pixel	2384,60	2385,61	8	12	0,125	1.5
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tate						L6	
uster Ind.	Description	min/max wavelen	ath, nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213.14	1a	1	1,5	1,5
2	straylight	213,29	239.88	1a	1	1,5	1.5
3	virtual channel 1a	240.00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	1	1,5	1,5
5	unused pixel	314,03	333,80	1b	1	1,5	1,5
6	Blinded Pixel	333,92	334,37	1b	1	1,5	1,5
7	Blinded Pixel	412,18	411,74	2b	1	1,5	1,5
8			404.07	2b			
9	unused pixel	411,63			1	1,5	1,5
	virtual channel 2b	403,96	320,14	2b	1	1,5	1,5
10	virtual channel 2a	320,02	309,43	2a	1	1,5	1,5
11	unused pixel	309,31	301,18	2a	1	1,5	1,5
12	Blinded Pixel	301,06	300,59	2a	1	1,5	1,5
13	Blinded Pixel	383,56	385,84	3	1	0,75	0,75
14	unused pixel	386,09	391,63	3	1	0,75	0,75
15	Channel 3 (main part)	391,88	605,48	3	1	0,75	0,75
16	unused pixel	605,72	627,17	3	1	0,75	0,75
17	Blinded Pixel	627.41	628,40	3	1	0,75	0,75
18	Blinded Pixel	595,36	596,26	4	1	0,75	0,75
19	unused pixel	596,48	597,38	4	1	0,75	0,75
20	Channel 4 (main part)	597,60	789,85	4	1	0,75	0,75
21	unused pixel	790,06	811,25	4	i	0,75	0,75
22	Blinded Pixel		812,33	4	i	0,75	0,75
		811,47					
23	Blinded Pixel	773,21	774,43	5	1	1,5	1,5
24	unused pixel	774,73	775,94	5	1	1,5	1,5
25	Channel 5 (main part)	776,24	1056,25	5	1	1,5	1,5
26	unused pixel	1056,53	1061,40	5	1	1,5	1,5
27	Blinded Pixel	1061,68	1062,83	5	1	1,5	1,5
28	Blinded Pixel	971,46	978,74	6	1	1,5	1,5
29	unused pixel	979,55	990,03	6	1	1,5	1,5
30	Channel 6/6+ (main part)	990.84	1750,09	6	1	1,5	1.5
31	unused pixel	1750,92	1764.24	6	1	1,5	1.5
32	Blinded Pixel	1765,07	1772,59	6	1	1,5	1,5
33	Blinded Pixel	1934,38	1935,44	7	1	1,5	1,5
34	unused pixel	1935,55	1939,88	7	1	1,5	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	1	1,5	1,5
36	unused pixel	2040,29	2042,70	7	1	1,5	1,5
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37	Blinded Pixel	2042,80	2043,67		1	1,5	1,5
38	Blinded Pixel	2259,26	2260,47	8		0,25	1,5
39	Channel 8	2260,61	2384,49	8	6	0,25	1,5
40	Blinded Pixel	2384,60	2385,61	8	6	0,25	1,5
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04	Rate (bit/s, including Heade						- 2.

**ANNEX 3:** Modified entries in PET and co-adding tables required for OCR\_044 implementation.

PET table: PET reduction by factor 4:

	State ID	Data Rate	Channel 1a	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	
Nadir 01	1	Low	1,	,5	,5	,5	1,	,125	,25	,125	1,	,25	changed due to OCR_44
Nadir 02	2	Low	1,	,5	,5	,5	1,	,125	,25	,125	1,	,25	changed due to OCR_44
Nadir 03	3	Low	1,	,5	,5	,5	,125	,125	,25	,125	1,	,25	changed due to OCR_44
Nadir 04	4	Low	1,	,5	,5	,5	,125	,125	,25	,125	1,	,25	changed due to OCR 44
Nadir 05	5	Low	1,	,5	,5	,5	,125	,125	,25	,125	1,	,25	changed due to OCR 44
Nadir 06	6	Low	1,	,25	,25	,25	,0625	,0625	,25	,125	,5	,125	changed due to OCR 44
Nadir 07	7	Low	1,	,25	,25	,25	,0625	,0625	,125	,125	,5	,125	changed due to OCR 44
Dark Current Cal 5	8	Low	,25	,25	,25	,25	1,	1,	,25	,5	,125	,25	changed due to OCR 007&OCR 43&OCR 44
Dark Current Cal 4	26	Low	1.	1.	1.5	1.5	.75	.75	1,5	1.5	,5	.5	changed due to OCR 43
Limb 01	28	Low	1,5	1,5	,75	1,5	,375	,375	,375	,375	1,5	,25	changed due to OCR 44
Limb 02	29	Low	1,5	1,5	,75	1,5	.0625	.0625	.1875	,0625	1,5	,25	changed due to OCR 44
Limb 03	30	Low	1,5	,375	,375	,375	,0625	,0625	,375	,0625	,375	,125	changed due to OCR_44
Limb 04	31	Low	1.5	,375	,375	,375	.1875	,1875	,375	,1875	,375	,125	changed due to OCR 44
Limb 05	32	Low	1.5	.375	.375	,375	.1875	.1875	.375	.1875	,375	,125	changed due to OCR 44
Limb 06	33	Low	1,5	1,5	1,5	1,5	,75	,75	1,5	1,5	1,5	,25	changed due to OCR 44
Dark Current Cal 1	46	Low	.0625	.0625	.0625	.0625	.0625	.0625	.125	.0625	.0625	.125	changed due to OCR 43&OCR 44
Dark Current Cal 2	63	Low	,375	,375	.75	.75	,375	,375	,375	,375	,375	,375	changed due to OCR 43
Dark Current Cal 3	67	Low	,5,5	,5,5	,,,,	.5	,125	,125	.5	,125	1,	1,	changed due to OCR 007&OCR 43
		Rate	el 1a	= =	lel 2b	el 2a	<u> </u>	4	<u>20</u>	9	el 7	<u>~</u>	
	State ID	Data	Channel 1	Chann	Channel	Chann	Channel	Channel	Channel	Channel	Channel 7	Chann	
Nadir 01	-	g □ High	Chann	Channel 1b		Channel					Chann	Channel	changed due to OCR 44
	1	High		,5	,5	,5	1, 1.	,125	,25	,125		,25	changed due to OCR_44
Nadir 01 Nadir 02 Nadir 03	-	High High	1,		,5 ,5	,5 ,5	1,				1,	,25 ,25	changed due to OCR_44
Nadir 02	1 2 3	High High High	1, 1,	,5 ,5 ,5	,5 ,5 ,5	,5 ,5 ,5	1, 1, ,125	,125 ,125 ,125	,25 ,25 ,25	,125 ,125 ,125	1, 1, 1,	,25 ,25 ,25	changed due to OCR_44 changed due to OCR_44
Nadir 02 Nadir 03	1 2 3 4	High High High High	1, 1, 1, 1,	,5 ,5 ,5	,5 ,5 ,5	,5 ,5 ,5	1, 1, ,125 ,125	,125 ,125 ,125 ,125	,25 ,25 ,25 ,25	,125 ,125 ,125 ,125	1,	,25 ,25 ,25 ,25	changed due to OCR_44 changed due to OCR_44 changed due to OCR_44
Nadir 02 Nadir 03 Nadir 04	1 2 3 4 5	High High High High High	1, 1, 1, 1, 1,	,5 ,5 ,5 ,5	,5 ,5 ,5 ,5	,5 ,5 ,5 ,5	1, 1, ,125 ,125 ,125	,125 ,125 ,125 ,125 ,125	,25 ,25 ,25 ,25 ,25	,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1,	,25 ,25 ,25 ,25 ,25	changed due to OCR_44
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06	1 2 3 4 5 6	High High High High High High	1, 1, 1, 1, 1, 1,	,5 ,5 ,5 ,5 ,5	,5 ,5 ,5 ,5 ,5 ,5	,5 ,5 ,5 ,5 ,5 ,5	1, 1, ,125 ,125 ,125 ,0625	,125 ,125 ,125 ,125 ,125 ,125 ,0625	,25 ,25 ,25 ,25 ,25 ,25	,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1,	,25 ,25 ,25 ,25 ,25 ,25 ,125	changed due to OCR_44
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06 Nadir 07	1 2 3 4 5 6 7	High High High High High High	1, 1, 1, 1, 1, 1, 1,	,5 ,5 ,5 ,5 ,5 ,25	,5 ,5 ,5 ,5 ,5 ,25	,5 ,5 ,5 ,5 ,5 ,25	1, 1, ,125 ,125 ,125 ,0625 ,0625	,125 ,125 ,125 ,125 ,125 ,125 ,0625 ,0625	,25 ,25 ,25 ,25 ,25 ,25 ,25 ,25	,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1, 5	,25 ,25 ,25 ,25 ,25 ,25 ,125 ,125	changed due to OCR_44
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06 Nadir 07 Dark_Current_Cal_5	1 2 3 4 5 6 7	High High High High High High High	1, 1, 1, 1, 1, 1, 1, 1, 25	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25	,5 ,5 ,5 ,5 ,5 ,5 ,25 ,25	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25	1, 1, ,125 ,125 ,125 ,0625 ,0625 1,	,125 ,125 ,125 ,125 ,125 ,125 ,0625 ,0625 ,0625	,25 ,25 ,25 ,25 ,25 ,25 ,25 ,25 ,125 ,25	,125 ,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1, 5,5	,25 ,25 ,25 ,25 ,25 ,125 ,125 ,125	changed due to OCR_44 changed due to OCR_40
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06 Nadir 07 Dark Current_Cal_5 Dark_Current_Cal_4	1 2 3 4 5 6 7 8 26	High High High High High High High High	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25	,5 ,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25	1, 1, ,125 ,125 ,125 ,0625 ,0625 1, ,75	,125 ,125 ,125 ,125 ,125 ,125 ,0625 ,0625 ,0625 1,	,25 ,25 ,25 ,25 ,25 ,25 ,25 ,125 ,25 ,125	,125 ,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1, 5, 5, ,5	,25 ,25 ,25 ,25 ,25 ,25 ,125 ,125 ,25 ,5	changed due to OCR_44
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06 Nadir 07 Dark Current_Cal_5 Dark_Current_Cal_4 Limb 01	1 2 3 4 5 6 7 8 26 28	High High High High High High High High	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,25	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25	1, 1, ,125 ,125 ,125 ,0625 ,0625 1, ,75	,125 ,125 ,125 ,125 ,125 ,125 ,0625 ,0625 ,0625 1, ,75	,25 ,25 ,25 ,25 ,25 ,25 ,25 ,125 ,25 ,15 ,375	,125 ,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1, 5, 5, ,125	,25 ,25 ,25 ,25 ,25 ,25 ,125 ,125 ,25 ,5	changed due to OCR_44 changed due to OCR_43 changed due to OCR_43 changed due to OCR_43
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06 Nadir 07 Dark_Current_Cal_5 Dark_Current_Cal_4 Limb 01 Limb 02	1 2 3 4 5 6 7 8 26 28 29	High High High High High High High High	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,1,	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,75	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 1,5 1,5	1, 1, ,125 ,125 ,125 ,0625 ,0625 ,0625 1, ,75 ,375 ,0625	,125 ,125 ,125 ,125 ,125 ,0625 ,0625 ,0625 ,75 ,375 ,0625	,25 ,25 ,25 ,25 ,25 ,25 ,25 ,125 ,25 ,15 ,375 ,1875	,125 ,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1, 5, 5, 125 5, 1,5	,25 ,25 ,25 ,25 ,25 ,125 ,125 ,125 ,25 ,5 ,25	changed due to OCR_44 changed due to OCR_007&OCR_43&OCR_44 changed due to OCR_43 changed due to OCR_43 changed due to OCR_44 changed due to OCR_44 changed due to OCR_44
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06 Nadir 07 Dark_Current_Cal_5 Dark_Current_Cal_4 Limb 01 Limb 03	1 2 3 4 5 6 7 8 26 28 29 30	High High High High High High High High	1, 1, 1, 1, 1, 1, 1, 1, 1, 25 1, 1,5 1,5	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,1, 1,5	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,25 ,	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,1,5 1,5 1,5	1, 1, ,125 ,125 ,125 ,0625 ,0625 1, ,75 ,375 ,0625 ,0625	,125 ,125 ,125 ,125 ,125 ,0625 ,0625 1, ,75 ,375 ,0625 ,0625	,25 ,25 ,25 ,25 ,25 ,25 ,125 ,25 ,125 ,25 ,15 ,375 ,1875	,125 ,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1, 5, 5, 125 ,5 1,5 1,5	,25 ,25 ,25 ,25 ,25 ,125 ,125 ,25 ,25 ,25 ,25 ,25 ,25	changed due to OCR_44 changed due to OCR_43 changed due to OCR_43 changed due to OCR_44
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06 Nadir 07 Dark_Current_Cal_5 Dark_Current_Cal_4 Limb 01 Limb 02 Limb 03 Limb 04	1 2 3 4 5 6 7 8 26 28 29 30 31	High High High High High High High High	1, 1, 1, 1, 1, 1, 1, 1, 1, 25 1, 1,5 1,5 1,5	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,1, 1,5 1,5 3,75	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,25 ,25	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,1,5 1,5 1,5 1,5 3,75	1, 1, ,125 ,125 ,125 ,0625 ,0625 1, ,75 ,375 ,0625 ,0625 ,0625 ,1875	,125 ,125 ,125 ,125 ,125 ,0625 ,0625 ,1 ,75 ,375 ,0625 ,0625 ,0625 ,1875	,25 ,25 ,25 ,25 ,25 ,25 ,125 ,25 ,125 ,25 ,15 ,375 ,1875 ,375 ,375	,125 ,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1, ,5 ,5 ,125 ,5 1,5 1,5 1,5 1,5 3,75	,25 ,25 ,25 ,25 ,25 ,125 ,125 ,25 ,5 ,25 ,25 ,25 ,125 ,1	changed due to OCR_44 changed due to OCR_43 changed due to OCR_44
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06 Nadir 07 Dark_Current_Cal_5 Dark_Current_Cal_4 Limb 01 Limb 02 Limb 04 Limb 04 Limb 04 Limb 04 Limb 04 Limb 04 Limb 05	1 2 3 4 5 6 7 8 26 28 29 30 31 32	High High High High High High High High	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,5 1,5 1,	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,1, 1,5 1,5 3,75 ,375	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,75 ,75 ,75 ,75 ,375	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 1,5 1,5 1,5 3,75 ,375	1, 1, ,125 ,125 ,125 ,0625 ,0625 1, ,75 ,375 ,0625 ,0625 ,0625 ,1875	,125 ,125 ,125 ,125 ,125 ,0625 ,0625 ,0625 ,375 ,0625 ,0625 ,0625 ,1875 ,1875	,25 ,25 ,25 ,25 ,25 ,25 ,125 ,25 ,125 ,375 ,375 ,375 ,375 ,375 ,375	,125 ,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1, 1, 5, 5, 5, 1,25 5, 1,5 1,5 1,5 3,75 3,375	,25 ,25 ,25 ,25 ,25 ,125 ,125 ,25 ,25 ,25 ,25 ,125 ,1	changed due to OCR_44 changed due to OCR_43 changed due to OCR_43 changed due to OCR_44
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06 Nadir 07 Dark Current_Cal_5 Dark_Current_Cal_4 Limb 01 Limb 02 Limb 03 Limb 04 Limb 05 Limb 05 Limb 05 Limb 06	1 2 3 4 5 6 7 8 26 28 29 30 31 32 33	High High High High High High High High	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,5 1,5 1,	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,1, 1,5 1,5 ,375 ,375 ,375	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,75 ,75 ,75 ,75 ,375 ,375 ,375	,5 ,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,15 1,5 1,5 1,5 3,75 ,375 ,375	1, 1, ,125 ,125 ,125 ,0625 ,0625 1, ,75 ,375 ,0625 ,0625 ,0625 ,1875 ,1875 ,75	,125 ,125 ,125 ,125 ,125 ,0625 ,0625 ,0625 ,375 ,0625 ,0625 ,1875 ,1875 ,75	,25 ,25 ,25 ,25 ,25 ,25 ,125 ,25 ,125 ,375 ,375 ,375 ,375 ,375 ,375	,125 ,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1, 1, 5, 5, 5, 1,25 5, 1,5 1,5 1,5 3,375 3,375 3,375	,25 ,25 ,25 ,25 ,25 ,125 ,125 ,25 ,25 ,25 ,125 ,1	changed due to OCR_44 changed due to OCR_43 changed due to OCR_43 changed due to OCR_44
Nadir 02 Nadir 03 Nadir 04 Nadir 05 Nadir 06 Nadir 07 Dark_Current_Cal_5 Dark_Current_Cal_4 Limb 01 Limb 02 Limb 03 Limb 04 Limb 04 Limb 05	1 2 3 4 5 6 7 8 26 28 29 30 31 32	High High High High High High High High	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,5 1,5 1,	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,1, 1,5 1,5 3,75 ,375	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 ,75 ,75 ,75 ,75 ,375	,5 ,5 ,5 ,5 ,25 ,25 ,25 ,25 ,25 1,5 1,5 1,5 3,75 ,375	1, 1, ,125 ,125 ,125 ,0625 ,0625 1, ,75 ,375 ,0625 ,0625 ,0625 ,1875	,125 ,125 ,125 ,125 ,125 ,0625 ,0625 ,0625 ,375 ,0625 ,0625 ,0625 ,1875 ,1875	,25 ,25 ,25 ,25 ,25 ,25 ,125 ,25 ,125 ,375 ,375 ,375 ,375 ,375 ,375	,125 ,125 ,125 ,125 ,125 ,125 ,125 ,125	1, 1, 1, 1, 1, 1, 5, 5, 5, 1,25 5, 1,5 1,5 1,5 3,75 3,375	,25 ,25 ,25 ,25 ,25 ,125 ,125 ,25 ,25 ,25 ,25 ,125 ,1	changed due to OCR_44 changed due to OCR_43 changed due to OCR_44

## Co-adding table for PET reduction by factor 4:

	Outr	ut 2	CTI						(	Dut	out 2	CTI							(	Out	out 2	CTI					
00 488840									00 400000										00 400000								
CO_ADDING	1	_	-		-		_		CO_ADDING	4				_		_			CO_ADDING	21	_	_		_		_	_
Cluster Index	1	2	3	4	5	6	7	8	Cluster Index	1	2	3	4	5	6	7	8		Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	2	1	Co_Adding Factor	1	1	1	2	4	4	4	4		Co_Adding Factor	1	1	1	1	1	2	2	2
Cluster Index Co Adding Factor	9	10 1	11	12	13	14	15	16	Cluster Index Co Adding Factor	9	10	11	12	13	14	15	16		Cluster Index Co Adding Factor	9	10	11	12	13		15	16
		_	_	1	1	1	_	1		_	_	_	4	8	8	2	8			_	_		1	_	1	1	1
Cluster Index	17	18	19	20	21	22	23	24	Cluster Index Co Adding Factor	17	18	19	20	21	22	23	24		Cluster Index Co Adding Factor	17	18	19	20	21	22	23	24
Co_Adding Factor	1	1	1	1	1	1	1	1		8	8	8	2	8	8	4	4	- 1		1	1	1	1	8	8	8	1
Cluster Index Co Adding Factor	25	26	27	28	29	30	31	32	Cluster Index Co Adding Factor	25	26	27	28	29	30 2	31	32		Cluster Index Co Adding Factor	25 8	26	27	28	29 4	30	31	32
	1	1	1	1	1	1	1	1		1	4	4	8	8		8	8				1	8	_		4	4 39	1
Cluster Index Co Adding Factor	33	34	35	36	37	38	39	40	Cluster Index Co Adding Factor	33 4	34	35	36	37 4	38	39	40		Cluster Index Co Adding Factor	33 4	34 1	35 4	36 8	37 2	38 8	_	40 8
	1	1	1	1	1	6	6	6	_	_	4	4	4	_	12	3	12		Cluster Index	_	42	43	44		46	47	
Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48	- 4	Co Adding Factor	41	8	43	8	45 1	40 8	8	48 1
Co_Adding Factor	0 49	0	0	0	0	0	0	0	Co_Adding Factor	0	0	0	0	0	0	0	0		Cluster Index	49	50	51	52	53	_	55	1 56
Cluster Index Co Adding Factor	0	50 0	51	52	53 0	54 0	55 0	56	Cluster Index Co Adding Factor	49 0	50 0	51	52 0	53 0	54 0	55	56	- 1	Co Adding Factor	1	1	1	1	1	4	4	26 4
	_	_	0	0	_	_	-	0		_	-	0		_		0	0		_	_	_	-	_		_	_	_
Cluster Index Co_Adding Factor	57 0	58 0	59	60 0	61 0	62 0	63 0	64 0	Cluster Index Co_Adding Factor	57 0	58 0	59 0	60 0	61	62 0	63 0	64 0		Cluster Index Co_Adding Factor	57 0	58 0	59 0	60 0	61	62 0	63 0	64 0
Co_Adding ractor	U	U	0	U	U	U	U	U	CO_Adding Factor	U	U	U	U	0	U	U	U	-	CO_Adding Factor	U	U	U	U	0	U	U	U
								-										-						-			
CO ADDING	2								CO ADDING	5								ŀ	CO ADDING	22				-			
Cluster Index	1	2	3	4	5	6	7	8	Cluster Index	1	2	3	4	5	6	7	8		Cluster Index	1	2	3	4	5	6	7	8
Co Adding Factor	1	1	1	1	1	1	2	1	Co Adding Factor	1	1	1	2	4	4	4	4	-	Co Adding Factor	1	1	1	1	1	2	2	2
Cluster Index	9	_	11	12	13	_	15		Cluster Index	9	10	11	12	13	14	15	16		Cluster Index	9	10	11	12	13	_	15	16
Co Adding Factor	1	1	1	12	24	24	6	24	Co Adding Factor	1	1	4	4	8	8	2	8	- 1	Co Adding Factor	1	1	2	12	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23	24		Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	24		24	6	24	24	8	8	Co Adding Factor	8	8	8	20	8	8	4	4		Co Adding Factor	1	1	1	1	8	8	8	1
Cluster Index	25	26	27	28	29	30		32	Cluster Index	25	26	27	28	29	30	31	32		Cluster Index	25	26	27	28	29		31	32
Co Adding Factor	2	8	8	24	24	6		24	Co Adding Factor	1	4	4	8	8	2	21	8		Co Adding Factor	8	1	8	8	4	4	4	1
Cluster Index	33	34		36	37	38	_	40	Cluster Index	33	34	35	36	37	38	39	40		Cluster Index	33	34	35	36	37	38	39	40
Co Adding Factor	1	1	1	1	1	6	6	6	Co Adding Factor	4	4	4	4	4	12	3	12	- 6	Co Adding Factor	4	1	4	20	2	8	1	8
Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48		Cluster Index	41	42	43	44	45	46	47	48
Co Adding Factor	0	0	0	0	0	40	0	0	Co Adding Factor	0	0	0	0	0	40	0	48	-	Co Adding Factor	1	8	1	8	1	8	8	1
Cluster Index	49	50	51	52	53	54		56	Cluster Index	49	50	51	52	53	54	55	56		Cluster Index	49	50	51	52	53	54	55	56
Co Adding Factor	0	0	0	0	0	0	0	0	Co Adding Factor	0	0	0	0	0	0	0	0	- 1	Co Adding Factor	1	1	1	1	1	4	4	4
Cluster Index	57	58	_	60			63	64	Cluster Index	57	58	59	60	61	62	63	64		Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	02	0	0	Co_Adding Factor	0	0	0	0	01	02	0.5	0		Co_Adding Factor	0	0	0	0	01	02	0	04
Co_Adding r actor	U	U	U	U	U	U	U	U	Co_Adding r actor	0	U	0	U		0	0	Ů	ŀ	Co_Adding Factor	0	0	U	U	U	U	U	U
																		ŀ						-			
CO ADDING	3								CO ADDING	б								ŀ	CO ADDING	23							
Cluster Index	1	2	3	4	5	6	7	8	Cluster Index	1	2	3	4	5	6	7	8	- 1	Cluster Index	1	2	3	4	5	6	7	8
Co Adding Factor	1	1	1	2	4	4	4	4	Co Adding Factor	1	1	1	1	1	1	1	1	- 4	Co Adding Factor	1	1	1	1	1	2	2	2
Cluster Index	9	10	11	12	13	14		16	Cluster Index	9	10	11	12	13		15	16		Cluster Index	9	10	11	12		_	15	16
Co Adding Factor	1	1	4	4	24	24	6	24	Co Adding Factor	1	1	1	1	1	1	1	1		Co Adding Factor	1	1	2	8	8	1	1	8
Cluster Index	17	18	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23	24	- 4	Cluster Index	17	18	19	_	21	22	23	24
Co Adding Factor	24		24	6	24	24	4	4	Co Adding Factor	1	1	1	1	1	1	1	1		Co Adding Factor	1	8	8	8	8	8	8	1
Cluster Index	25	26	27	28	29	30	_	32	Cluster Index	25	26	27	28	29	30	31	32		Cluster Index	25	26	27	28	29	30	31	32
Co Adding Factor	1	4	4	24	24	6	24	24	Co Adding Factor	1	1	1	1	1	1	1	1		Co Adding Factor	8	1	8	8	4	4	4	1
Cluster Index	33	34	35	36	37	38	39	40	Cluster Index	33	34	35	36	37	38	39	40	- 1	Cluster Index	33	34	35	36	37	38	39	40
Co Adding Factor	4	4	4	4	4	12	3	12	Co Adding Factor	1	1	1	1	1	6	6	6	- 1	Co Adding Factor	4	1	4	8	2	8	2	8
Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48		Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0	0	0	0	0	0	0	0	Co Adding Factor	0	0	0	0	0	0	0	0	- 1	Co Adding Factor	2	8	2	8	2	8	8	1
Cluster Index	49	50	51	52	53	54	_	56	Cluster Index	49	50	51	52	53	54	55	56		Cluster Index	49	50	51	52	53	54	55	56
Co Adding Factor	0	70	0	0	6	0	0	0	Co Adding Factor	0	0	0	0	0	0	0	0		Co Adding Factor	1	1	1	1	1	4	4	4
Cluster Index	57	58	59	60	61	62	63	64	Cluster Index	57	58	59	60	61	62	63	64	- 1	Cluster Index	57	58	59	60	61	62	63	64
Co Adding Factor	0	0	0	0	01	02	0.5	04	Co_Adding Factor	0	0	0	0	0	0	0	0	- 6	Co_Adding Factor	0	0	0	0	0	02	03	04
								Ü		-	-		-	-	-	-	-		SS_Adding Factor	0	U	U	U	U	U	U	U

## OCR\_044\_channel\_8\_anti\_saturation.doc

	Out	out 2	CT	[						Out	out 2	CTI							(	Outr	out 2	CTI					
CO_ADDING	24								CO_ADDING	27								1	CO_ADDING	50							
Cluster Index	1	2	3	4	5	6	7	8	Cluster Index	1	2	3	4	5	6	7	8	- 1	Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	2	2	2	Co_Adding Factor	5	1	1	2	1	20	4	4	1	Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16	Cluster Index	9	10	11	12	13	-	_	16		Cluster Index	9	10	11	12	13	$\overline{}$		16
Co_Adding Factor	1	1	2	8	8	1	1	8	Co_Adding Factor	1	1	4	16	16	16	4	16	_ !	Co_Adding Factor	1	1	1	1	4	4	4	4
Cluster Index	17	18	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23	24		Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	1	8	8	8	8	8	8	1	Co_Adding Factor	4	16	16	16	16	16	16	4		Co_Adding Factor	4	4	4	4	4	4	1	1
Cluster Index	25	26	27	28	29	30		32	Cluster Index	25	26	27	28	29	30	31	32	- [	Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	8	1	8	8	4	4	4	1	Co_Adding Factor	16	4	16	16	8	8	8	4	1	Co_Adding Factor	1	1	1	2	2	2	2	2
Cluster Index	33	34	35	36	37	38	39	40	Cluster Index	33	34	35	36	37	38	39	40	- [	Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	1	4	8	2	8	2	8	Co_Adding Factor	8	8	8	8	8	8	2	8	- [	Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48	- [	Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	2	8	2	8	2	8	8	1	Co_Adding Factor	2	8	2	8	2	8	8	2	1	Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	55	56	Cluster Index	49	50	51	52	53	54	55	56	- [7	Cluster Index	49	50	51	52	53	54	55	56
Co Adding Factor	1	1	1	1	1	4	4	4	Co Adding Factor	2	1	2	1	2	8	4	8	- 1	Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	58	59	60	61	62	63	64	Cluster Index	57	58	59	60	61	62	63	64	- 7	Cluster Index	57	58	59	60	61	62	63	64
Co Adding Factor	0			0	0	0	0	0	Co Adding Factor		0	0	0	0	0	0	0		Co Adding Factor	0	0	0	0	0	0	0	0
<u>-</u>	Ů	Ů	-	Ŭ	Ŭ	Ů	Ŭ	Ů		-	-	Ť	Ť	Ť	-	-	-	ı									_
CO ADDING	25								CO ADDING	45								- 1	CO ADDING	51							
Cluster Index	1	2	3	4	5	6	7	8	Cluster Index	1	2	3	4	5	6	7	8	- 1	Cluster Index	1	2	3	4	5	6	7	8
Co Adding Factor	1	1	1	1	1	2	2	2	Co_Adding Factor		8	8	8	8	8	8	8		Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	_	12	13	14	15	16	Cluster Index	9	_	_	12	13		15	16	- 1	Cluster Index	9		_	12	_	14	15	16
Co_Adding Factor	1	1	2	8	8	1	1	8	Co Adding Factor		8	8	8	8	8	8	8	- 1	Co Adding Factor	1	1	1	1	2	2	2	2
Cluster Index	17	18	_	20	21	22	23	24	Cluster Index	17	18	19	20	21	22		24	- 1	Cluster Index	_	18	19		21	_	_	24
Co Adding Factor	1	8	8	8	8	8	8	1	Co Adding Factor	_	8	8	8	8	8	4	4	- 1	Co Adding Factor	2	2	2	2	2	2	1	1
Cluster Index	25	26	_	28	29	30	31	32	Cluster Index	25	26	27	28	29	_	_	32		Cluster Index		26	27	28	29		31	32
Co Adding Factor	8	1	8	8	4	4	4	1	Co_Adding Factor		4	4	8	8	8	8	8		Co Adding Factor	1		1	1	1	1	1	1
	_	_	_	_	_	_	_	_	Cluster Index	33	34	35	36	37	38	39	40	- 1	Cluster Index	33	_	35	36	37	_	39	40
Cluster Index	33	34	_	36	37	38	39 2	40	Co Adding Factor		_	16	16	16	4		40		Co_Adding Factor	1	1	1	1	1	1	1	1
Co_Adding Factor	4	1	4	8	2	8		8	Cluster Index	41	42	43	44	45	46	47	48		Cluster Index	41		43	44	45	_	47	48
Cluster Index	41	42	43	44	45	46	47	48	Co Adding Factor		0	43 0	0	40	40	0	0	-	Co Adding Factor	0	0	0	0	0	0	0	0
Co_Adding Factor	2	8	2	8	2	8	8	1		_		_							Cluster Index	49	_	51	52	53	_	55	56
Cluster Index	49	50	51	52	53	54		56	Cluster Index Co Adding Factor	49	50 0	51 0	52 n	53	54 0	55 0	56		Co Adding Factor	0		0	0	0	0	0	0
Co_Adding Factor	1	1	1	1	1	4	4	4			_		_	_			0	- 1	,	_	_	_	_	_	_	_	_
Cluster Index	57	58	59	60	61	62	63	64	Cluster Index	57	_	59	60	61	_	63	64		Cluster Index	57		59	60	61	_	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0	Co_Adding Factor	0	0	0	0	0	0	0	0	ď	Co_Adding Factor	0	0	0	0	0	0	0	0
										-								-									
									00 400000	+							-		OO ADDINO								
CO_ADDING	26								CO_ADDING	49	_	_				_		- 1	CO_ADDING	52		_				_	
Cluster Index	1	2	3	4	5	6	7	8	Cluster Index	1	2	3	4	5	6	7	8		Cluster Index	1	_	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	4	4	4	Co_Adding Factor	_	2	2	2	2	2	1	1		Co_Adding Factor	2	2	2	2	2	2	2	2
Cluster Index	9	10	11	12	13	14	15	16	Cluster Index	9	10	11	12	13			16		Cluster Index	9	_	11	12	_	14		16
Co_Adding Factor	1	1	4	16	16	16	4	16	Co_Adding Factor	_	1	1	1	2	2		2	- 1	Co_Adding Factor	2		2	2	1	1	1	1
Cluster Index	17	18	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23	24		Cluster Index	17		19	20	21	$\overline{}$	23	24
Co_Adding Factor	4	16	16	16	16	16	16	4	Co_Adding Factor	_	2	2	2		2	1	1	- 1	Co_Adding Factor	1	_	1	1	1	1	2	2
Cluster Index	25	26	27	28	29	30	31	32	Cluster Index	25		27	28	29	30		32		Cluster Index		26	27	28	29		31	32
Co_Adding Factor	16	4	16	16	4	4	4	1	Co_Adding Factor	1	1	1	1	1	1	1	1		Co_Adding Factor	2		2	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40	Cluster Index	33	34	35	36	37	38	39	40	- 1	Cluster Index	33	34	35	36	37	38	39	40
Co Adding Factor	4	4	4	8	8	8	8	8	Co_Adding Factor	2	2	2	2	2	1	1	1		Co_Adding Factor	4	4	4	4	4	2	2	2
Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48	Ī	Cluster Index	41	42	43	44	45	46	47	48
Co Adding Factor	8	8	8	8	8	8	8	2	Co_Adding Factor	0	0	0	0	0	0	0	0	Ī	Co_Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	_	56	Cluster Index	49	50	51	52	53	54	55	56	- [	Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	2	2	2	2	2	8	4		Co_Adding Factor	0	0	0	0	0	0	0	0		Co_Adding Factor	0		0	0	0	0	0	0
	-	_	_		_	_	_	8	Cluster Index	57	58	59	60	61	62	63	64		Cluster Index		58	59	60	_	_	63	64
Cluster Index	57	58	59	60	61	62	63	64	Co_Adding Factor	_	0	0	0	0	0	0	0		Co Adding Factor	0		0	0	0	0	0	0
Co_Adding Factor	0	0	0	0	0	0	0	0		_								-	0							-	

**ANNEX 4:** Cluster allocation and required PET and co-adding together with the resulting signal integration time for the 7 nadir states and the 6 limb states (PET reduction by factor 8). As summary the total data rate for the states is given in the last row of each page.

tate						N1	
uster Ind.	Description	min/max wavelend	oth nm	Channel	Coadding	PET (s)	Int. Time(
1	Blinded Pixel	212,53	213,14	1a	Coadding	1	1 1
2	straylight	213.29	239,88	1a	1	1	1
3	virtual channel 1a	240.00	281,90	1a	1	1	1
4	virtual channel 1b	282,01	303,54	1b	1	0,5	0,5
5	overlap region, PMD 1	303,65	313,92	1b	1	0,5	0,5
6	Blinded Pixel	333,92	334,37	1b	2	0,5	1
7	Blinded Pixel	412,18	411,74	2b	2	0,5	1
8	overlap region 2b	403,96	391,87	2b	2	0,5	1
9	UV DOAS, PMD 1	391,76	320,14	2b	1	0,5	0.5
10	overlap region 2a, UV DOAS, PMD 1	320,02	309,43	2a	1	0,5	0,5
11	Blinded Pixel	301,06	300,59	2a	2	0,5	1
12	Blinded Pixel	383,56	385,84	3	1	1	1
13	overlap region	391,88	404,10	3	1	1	1
14		404,34	423,73	3	1	1	1
15	VIS DOAS, PMD 2	423,97	526,96	3	1	1	1
16		527,20	544,56	3	1	1	1
17	AE	544,80	565,08	3	1	1	1
18		565,31	597,28	3	1	1	1
19	overlap region	597,52	605,48	3	1	1	1
20	Blinded Pixel	627,41	628,40	3	1	1	1
21	Blinded Pixel	595,36	596,26	4	8	0,125	1
22	overlap region	597,60	605,43	4	8	0,125	1
23	The state of the s	605,65	612,53	4	8	0,125	1
24	PMD 3, AE	612,75	725,99	4	1	0,125	0,125
25	14474	726,19	753,77	4	8	0,125	1
26	O2(A)	753,98	775,92	4	1	0,125	0,125
27	overlap region	776,13	789,85	4	8	0,125	1
28	Blinded Pixel	811,47	812,33	4	8	0,125	1
29	Blinded Pixel	773,21	774,43	5	4	0,25	1
30	overlap region	776,24	789,74	5	4	0,25	1
31	PMD 4/7, AE	790,04	798,06 946,62	5 5	4	0,25 0,25	1 0.25
32 33	PMID 4//, AE	798,35 946,90	990,40	5	4	0,25	0,25
34	overlap region, (AE)	946,90	1056,25	5	1	0,25	0,25
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	2	0,125	0,25
38	overlap region	1057.02	1233,24	6	8	0,125	0,20
39	AE	1234,01	1253,14	6	1	0,125	0,125
40	~_	1253,90	1388,96	6	8	0,125	1
41	Water Vapour	1389,72	1410,36	6	1	0,125	0,125
42	vvater vapour	1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	1	0,125	0,125
44	Violetinee cloud at 1 mb o	1671,51	1695,84	6	8	0,125	1
45	add. Water/ice cloud	1696.65	1707.26	6	1	0,125	0.125
46		1708,08	1750,09	6	8	0,125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel	1934,38	1935,44	7	1	1	1
49		1939,99	1967,79	7	1	1	1
50	CO2	1967,90	1984,05	7	1	1	1
51	NO SECTION AND ADDRESS OF THE PROPERTY OF THE	1984,15	2029,89	7	1	1	1
52	CO2, H2O	2029,99	2040,19	7	1	1	1
53	Blinded Pixel	2042,80	2043,67	7	1	1	1
54	Blinded Pixel	2259,26	2260,47	8	8	0,125	1
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	8	0,125	1
56	Blinded Pixel	2384,60	2385,61	8	8	0,125	1
57							
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### Summary of results

N2

ate	AND					N2	
uster Ind.	Description	min/max wavelen	gth , nm	Channel	Coadding	PET (s)	Int. Time(
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213,29	239,88	1a	1	1	1
3	virtual channel 1a	240.00	281,90	1a	1	1	1
4	virtual channel 1b	282.01	303,54	1b	1	0.5	0.5
5	overlap region, PMD 1	303.65	313,92	1b	i	0.5	0.5
6		NO.00 (6-00-00)		1b	2	0,5	
	Blinded Pixel	333,92	334,37				1
7	Blinded Pixel	412,18	411,74	2b	2	0,5	1
8	overlap region 2b	403,96	391,87	2b	2	0,5	1
9	UV DOAS, PMD 1	391,76	320,14	2b	1	0,5	0,5
10	overlap region 2a, UV DOAS, PMD 1	320.02	309.43	2a	1	0.5	0.5
11	Blinded Pixel	301,06	300,59	2a	2	0,5	1
12	Blinded Pixel	383.56	385,84	3	1	1	1
13	overlap region	391,88	404,10	3	1	i	1
	overlap region						
14		404,34	423,73	3	1	1	1
15	VIS DOAS, PMD 2	423,97	526,96	3	1	1	1
16		527,20	544,56	3	1	1	1
17	AE	544,80	565,08	3	1	1	1
18		565,31	597,28	3	1	1	1
19	overlap region	597,52	605,48	3	1	1	1
20					1		0.11
	Blinded Pixel	627,41	628,40	3		1	1
21	Blinded Pixel	595,36	596,26	4	8	0,125	1
22	overlap region	597,60	605,43	4	8	0,125	1
23		605,65	612,53	4	8	0,125	1
24	PMD 3, AE	612,75	725.99	4	1	0,125	0.125
25		726,19	753,77	4	8	0,125	1
26	O2(A)	753.98	775,92	4	1	0,125	0.125
27				4	8		500 g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	overlap region	776,13	789,85			0,125	1
28	Blinded Pixel	811,47	812,33	4	8	0,125	1
29	Blinded Pixel	773,21	774,43	5	4	0,25	1
30	overlap region	776,24	789.74	5	4	0,25	1
31		790.04	798.06	5	4	0.25	1
32	PMD 4/7, AE	798.35	946,62	5	1	0.25	0.25
33	TIND WITH	946,90	990,40	5	4	0,25	1
	avadas avadas (AD)			5	1		
34	overlap region, (AE)	990,68	1056,25			0,25	0,25
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	2	0,125	0,25
38		1057.02	1233.24	6	8	0.125	1
39	AE	1234,01	1253,14	6	1	0.125	0.125
40	~_	1253,90	1388,96	6	8	0,125	1
	W. L. VI						
41	Water Vapour	1389,72	1410,36	6	1	0,125	0,125
42		1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	1	0,125	0,125
44		1671,51	1695,84	6	8	0,125	1
45	add. Water/ice cloud	1696,65	1707,26	6	1	0,125	0,125
46	AND THE PARTY OF T	1708.08	1750,09	6	8	0,125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48				7	1		
	Blinded Pixel	1934,38	1935,44			1	1
49		1939,99	1967,79	7	1	1	1
50	CO2	1967,90	1984,05	7	1	1	1
51		1984,15	2029,89	7	1	1	1
52	CO2, H2O	2029,99	2040,19	7	1	1	1
53	Blinded Pixel	2042,80	2043,67	7	1	1	1
54	Blinded Pixel	2259,26	2260,47	8	8	0,125	i
55					8		
	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8		0,125	1
56	Blinded Pixel	2384,60	2385,61	8	8	0,125	1
57							
58							
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## Summary of results

N3

State						N3	
luster Ind.	Description	min/max wavelen	ath . nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213,29	239,88	1a	1	1	i
3	virtual channel 1a	240.00	281,90	1a	1	i	i
4	virtual channel 1b	282.01	303,54	1b	1	0.5	0.5
5	overlap region, PMD 1	303,65	313,92	1b	i	0,5	0,5
6	Blinded Pixel	333,92	334,37	1b	2	0,5	1
7	Blinded Pixel	412.18	411.74	2b	2	0,5	1
8		403,96	391,87	2b	2	0.5	1
9	overlap region 2b			2b 2b	1		
	UV DOAS, PMD 1	391,76	320,14			0,5	0,5
10	overlap region 2a, UV DOAS, PMD 1	320,02	309,43	2a	1	0,5	0,5
11	Blinded Pixel	301,06	300,59	2a	2	0,5	1
12	Blinded Pixel	383,56	385,84	3	8	0,125	1
13	overlap region	391,88	404,10	3	8	0,125	1
14		404,34	423,73	3	1	0,125	0,125
15	VIS DOAS, PMD 2	423,97	526,96	3	1	0,125	0,125
16		527,20	544,56	3	8	0,125	1
17	AE	544,80	565,08	3	1	0,125	0,125
18		565,31	597,28	3	8	0,125	1
19	overlap region	597.52	605.48	3	8	0.125	1
20	Blinded Pixel	627.41	628.40	3	8	0.125	1
21	Blinded Pixel	595,36	596,26	4	8	0,125	1
22	overlap region	597,60	605,43	4	8	0,125	1
23	overlap region	605,65	612,53	4	8	0,125	1
24	DMD 3 AE	612.75	725.99	4	1	0,125	0.125
25	PMD 3, AE			4	8		
		726,19	753,77	10.00		0,125	1
26	O2(A)	753,98	775,92	4	1	0,125	0,125
27	overlap region	776,13	789,85	4	8	0,125	1
28	Blinded Pixel	811,47	812,33	4	8	0,125	1
29	Blinded Pixel	773,21	774,43	5	4	0,25	1
30	overlap region	776,24	789,74	5	4	0,25	1
31		790,04	798,06	5	4	0,25	1
32	PMD 4/7, AE	798,35	946,62	5	1	0,25	0,25
33	ALEXAND CARDINGS CONT.	946,90	990,40	5	4	0.25	1
34	overlap region, (AE)	990,68	1056,25	5	1	0,25	0,25
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	i
37	overlap region	990.84	1056,23	6	2	0,125	0.25
38	Overlap region	1057,02	1233,24	6	8	0,125	1
39	AE	1234,01	1253,14	6	2	0,125	0,25
	AE			6	8		1
40	W. i VI	1253,90	1388,96	6	2	0,125	
	Water Vapour	1389,72	1410,36			0,125	0,25
42	NAME OF THE PARTY	1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	2	0,125	0,25
44		1671,51	1695,84	6	8	0,125	1
45	add. Water/ice cloud	1696,65	1707,26	6	2	0,125	0,25
46		1708,08	1750,09	6	8	0,125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel	1934,38	1935,44	7	1	1	1
49		1939,99	1967,79	7	1	1	1
50	CO2	1967,90	1984,05	7	1	1	1
51	88600	1984,15	2029,89	7	1	1	1
52	CO2, H2O	2029,99	2040,19	7	1	1	1
53	Blinded Pixel	2042.80	2043,67	7	1	1	1
54	Blinded Pixel	2259,26	2260,47	8	8	0,125	1
					8		
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8		0,125	1
56	Blinded Pixel	2384,60	2385,61	8	8	0,125	1
57							
58							
59							
60							
61							
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	Rate (bit/s, including Headers, P					T	3903

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### Summary of results

N4

ate						N4	
uster Ind.	Description	min/max wavelen	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213.29	239,88	1a	1	1	1
3	virtual channel 1a	240.00	281,90	1a	1	1	1
4	virtual channel 1b	282.01	303,54	1b	1	0.5	0.5
5	overlap region, PMD 1	303.65	313,92	1b	i	0,5	0.5
		NO.00 (6-00-00)					
6	Blinded Pixel	333,92	334,37	1b	2	0,5	1
7	Blinded Pixel	412,18	411,74	2b	2	0,5	1
8	overlap region 2b	403,96	391,87	2b	2	0,5	1
9	UV DOAS, PMD 1	391.76	320,14	2b	1	0.5	0.5
10	overlap region 2a, UV DOAS, PMD 1	320.02	309.43	2a	1	0.5	0.5
11	Blinded Pixel	301,06	300,59	2a	2	0,5	1
12	Blinded Pixel	383.56	385,84	3	8	0,125	1
13	overlap region	391,88	404,10	3	8	0,125	1
14		404,34	423,73	3	1	0,125	0,125
15	VIS DOAS, PMD 2	423,97	526,96	3	1	0,125	0,125
16		527,20	544,56	3	8	0,125	1
17	AE	544,80	565,08	3	1	0,125	0,125
18	7-2	565,31	597,28	3	8	0.125	1
	TEXT CONTROL OF THE C						
19	overlap region	597,52	605,48	3	8	0,125	1
20	Blinded Pixel	627,41	628,40	3	8	0,125	1
21	Blinded Pixel	595,36	596,26	4	8	0,125	1
22	overlap region	597,60	605,43	4	8	0,125	1
23	Choppedian depart	605,65	612,53	4	8	0,125	1
24	PMD 3, AE	612,75	725,99	4	1	0,125	0.125
25	TIME STATE	726,19	753,77	4	8	0,125	1
	02/4)						
26	O2(A)	753,98	775,92	4	1	0,125	0,125
27	overlap region	776,13	789,85	4	8	0,125	1
28	Blinded Pixel	811,47	812,33	4	8	0,125	1
29	Blinded Pixel	773,21	774,43	5	4	0,25	1
30	overlap region	776.24	789.74	5	4	0.25	1
31		790.04	798.06	5	4	0.25	1
32	PMD 4/7, AE	798.35	946,62	5	1	0.25	0.25
	PWID 4//, AE						0.800
33		946,90	990,40	5	4	0,25	1
34	overlap region, (AE)	990,68	1056,25	5	1	0,25	0,25
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	-1
37	overlap region	990.84	1056,23	6	2	0,125	0.25
38		1057,02	1233.24	6	8	0.125	1
39	AE	1234,01	1253,14	6	2	0,125	0.25
	AE				8		
40	2002 000	1253,90	1388,96	6		0,125	1
41	Water Vapour	1389,72	1410,36	6	2	0,125	0,25
42		1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	2	0,125	0.25
44		1671,51	1695,84	6	8	0,125	1
45	add. Water/ice cloud	1696,65	1707,26	6	2	0,125	0,25
46	The Protocolog Stock	1708.08	1750.09	6	8	0,125	1
	Direct of Direct						
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel	1934,38	1935,44	7	1	1	1
49		1939,99	1967,79	7	1	1	1
50	CO2	1967,90	1984,05	7	1	1	1
51		1984,15	2029,89	7	1	1	1
52	CO2, H2O	2029,99	2040,19	7	1	1	1
53	Blinded Pixel	2042,80	2043,67	7	i	1	1
54	Blinded Pixel	2259,26	2260,47	8	8	0,125	1
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	8	0,125	1
56	Blinded Pixel	2384,60	2385,61	8	8	0,125	1
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### Summary of results

N5

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luster Ind.	Description	min/max wavelen	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213.29	239,88	1a	1	1	1
3	virtual channel 1a	240.00	281,90	1a	1	1	1
4	virtual channel 1b	282.01	303,54	1b	1	0.5	0.5
5	overlap region, PMD 1	303.65	313,92	1b	1	0.5	0,5
6		NO.00 (6-00-00)		1b	2		
	Blinded Pixel	333,92	334,37			0,5	1
7	Blinded Pixel	412,18	411,74	2b	2	0,5	1
8	overlap region 2b	403,96	391,87	2b	2	0,5	1
9	UV DOAS, PMD 1	391,76	320,14	2b	1	0,5	0,5
10	overlap region 2a, UV DOAS, PMD 1	320.02	309.43	2a	1	0.5	0.5
11	Blinded Pixel	301,06	300,59	2a	2	0,5	1
12	Blinded Pixel	383.56	385,84	3	8	0.125	1
13	overlap region	391,88	404,10	3	8	0,125	i
	overlap region						
14	Will be a supplier to a supplier	404,34	423,73	3	1	0,125	0,125
15	VIS DOAS, PMD 2	423,97	526,96	3	1	0,125	0,125
16		527,20	544,56	3	8	0,125	1
17	AE	544,80	565,08	3	1	0,125	0,125
18		565,31	597,28	3	8	0.125	1
19	overlap region	597.52	605,48	3	8	0,125	1
20	Blinded Pixel	627,41	628,40	3	8	0,125	i
21	Blinded Pixel			4	8		1
		595,36	596,26			0,125	5.0
22	overlap region	597,60	605,43	4	8	0,125	1
23		605,65	612,53	4	8	0,125	1
24	PMD 3, AE	612,75	725,99	4	1	0,125	0,125
25		726,19	753,77	4	8	0,125	1
26	O2(A)	753.98	775,92	4	1	0,125	0,125
27	overlap region	776,13	789,85	4	8	0,125	1
							5.0
28	Blinded Pixel	811,47	812,33	4	8	0,125	1
29	Blinded Pixel	773,21	774,43	5	4	0,25	1
30	overlap region	776,24	789,74	5	4	0,25	1
31		790,04	798.06	5	4	0,25	1
32	PMD 4/7, AE	798.35	946,62	5	1	0.25	0.25
33	A Marie Constant	946.90	990,40	5	4	0,25	1
34	everles series (AD			5	1		0,25
	overlap region, (AE)	990,68	1056,25			0,25	
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	2	0,125	0,25
38		1057.02	1233,24	6	8	0,125	1
39	AE	1234,01	1253,14	6	2	0.125	0.25
40		1253,90	1388,96	6	8	0,125	1
41	10/st1/s	1389,72	1410,36	6	2	0,125	0,25
	Water Vapour						
42	NAME OF THE PARTY	1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	2	0,125	0,25
44		1671,51	1695,84	6	8	0,125	1
45	add. Water/ice cloud	1696,65	1707,26	6	2	0,125	0,25
46		1708.08	1750,09	6	8	0.125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel			7	1	1	1
	Dillided LIXel	1934,38	1935,44				
49		1939,99	1967,79	7	1	1	1
50	CO2	1967,90	1984,05	7	1	1	1
51		1984,15	2029,89	7	1	1	1
52	CO2, H2O	2029,99	2040,19	7	1	1	1
53	Blinded Pixel	2042,80	2043,67	7	1	1	1
54	Blinded Pixel	2259,26	2260,47	8	8	0,125	i
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	8	0,125	1
56	Blinded Pixel	2384,60	2385,61	8	8	0,125	1
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### Summary of results

N6

ate						N6	
uster Ind.	Description	min/max waveleng	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1	1
2	straylight	213,29	239,88	1a	1	1	1
3	virtual channel 1a	240.00	281,90	1a	1	1	1
4	virtual channel 1b	282,01	303,54	1b	1	0.25	0.25
5	overlap region, PMD 1	303.65	313,92	1b	1	0.25	0,25
6	Blinded Pixel	333,92	334,37	1b	4	0,25	1
							25.0
7	Blinded Pixel	412,18	411,74	2b	4	0,25	1
8	overlap region 2b	403,96	391,87	2b	4	0,25	1
9	UV DOAS, PMD 1	391,76	320,14	2b	1	0,25	0,25
10	overlap region 2a, UV DOAS, PMD 1	320,02	309,43	2a	1	0,25	0,25
11	Blinded Pixel	301,06	300,59	2a	4	0,25	1
12	Blinded Pixel	383.56	385.84	3	16	0.0625	1
13	overlap region	391,88	404,10	3	16	0.0625	1
14	Overlap region	404,34	423,73	3	16	0,0625	1
	LAC DOLO DIAD O						
15	VIS DOAS, PMD 2	423,97	526,96	3	4	0,0625	0,25
16		527,20	544,56	3	16	0,0625	1
17	AE	544,80	565,08	3	4	0,0625	0,25
18		565,31	597,28	3	16	0,0625	1
19	overlap region	597.52	605,48	3	16	0,0625	1
20	Blinded Pixel	627,41	628,40	3	16	0,0625	1
21	Blinded Pixel	595.36	596,26	4	16	0,0625	i
				4			1
22	overlap region	597,60	605,43		16	0,0625	
23		605,65	612,53	4	16	0,0625	1
24	PMD 3, AE	612,75	725,99	4	4	0,0625	0,25
25		726,19	753,77	4	16	0,0625	1
26	O2(A)	753.98	775,92	4	4	0,0625	0.25
27	overlap region	776,13	789,85	4	16	0,0625	1
28	Blinded Pixel	811,47	812,33	4	16	0,0625	í
				5			
29	Blinded Pixel	773,21	774,43		4	0,25	1
30	overlap region	776,24	789,74	5	4	0,25	1
31		790,04	798,06	5	4	0,25	1
32	PMD 4/7, AE	798,35	946,62	5	1	0,25	0,25
33	ACCOUNT CARGOTTONIA	946.90	990,40	5	4	0,25	1
34	overlap region, (AE)	990,68	1056,25	5	4	0,25	1
35	Blinded Pixel	1061,68	1062,83	5	4	0,25	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	8	0,125	1
38		1057,02	1233,24	6	8	0,125	1
39	AE	1234,01	1253,14	6	8	0.125	1
40		1253,90	1388,96	6	8	0,125	1
41	Water Vapour	1389,72	1410,36	6	8	0,125	1
42	vvater vapour			6	8	0,125	
	NAME OF THE PARTY	1411,12	1548,51				1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	8	0,125	1
44		1671,51	1695,84	6	8	0,125	1
45	add. Water/Ice cloud	1696,65	1707,26	6	8	0,125	1
46		1708,08	1750,09	6	8	0,125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel	1934,38	1935,44	7	2	0,5	i
49	Dillided Fixel	1939,99		7	2	0,5	1
	603		1967,79				
50	CO2	1967,90	1984,05	7	2	0,5	1
51		1984,15	2029,89	7	2	0,5	1
52	CO2, H2O	2029,99	2040, 19	7	2	0,5	1
53	Blinded Pixel	2042,80	2043,67	7	2	0,5	1
54	Blinded Pixel	2259,26	2260,47	8	16	0,0625	1
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	8	0,0625	0.5
56	Blinded Pixel	2384,60	2385,61	8	16	0,0625	1
	Billided Pixel	2384,60	2385,61	8	16	0,0625	1.
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### Summary of results

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luster Ind.	Description	min/max wavelen	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	5	1	5
2	straylight	213.29	239,88	1a	1	1	1
3	virtual channel 1a	240.00	281,90	1a	1	1	1
4	virtual channel 1b	282.01	303,54	1b	2	0.25	0.5
5	overlap region, PMD 1	303.65	313,92	1b	1	0.25	0.25
6		NO.00 (6-00-00)		1b	20	0,25	
	Blinded Pixel	333,92	334,37				5
7	Blinded Pixel	412,18	411,74	2b	4	0,25	1
8	overlap region 2b	403,96	391,87	2b	4	0,25	1
9	UV DOAS, PMD 1	391,76	320,14	2b	1	0,25	0,25
10	overlap region 2a, UV DOAS, PMD 1	320,02	309,43	2a	1	0,25	0.25
11	Blinded Pixel	301,06	300,59	2a	4	0,25	1
12	Blinded Pixel	383.56	385,84	3	16	0.0625	1
13	overlap region	391,88	404,10	3	16	0,0625	i
14	overlap region		423.73	3	16	0,0625	1
		404,34					
15	VIS DOAS, PMD 2	423,97	526,96	3	4	0,0625	0,25
16		527,20	544,56	3	16	0,0625	1
17	AE	544,80	565,08	3	4	0,0625	0,25
18		565,31	597,28	3	16	0,0625	1
19	overlap region	597.52	605,48	3	16	0,0625	1
20	Blinded Pixel	627,41	628,40	3	16	0,0625	1
21	Blinded Pixel	595.36	596,26	4	16	0,0625	i
22	overlap region	597,60	605,43	4	16	0,0625	1
23		605,65	612,53	4	16	0,0625	1
24	PMD 3, AE	612,75	725,99	4	4	0,0625	0,25
25		726,19	753,77	4	16	0,0625	1
26	O2(A)	753,98	775,92	4	4	0,0625	0.25
27	overlap region	776,13	789,85	4	16	0,0625	1
28	Blinded Pixel			4	16	0,0625	1
		811,47	812,33				
29	Blinded Pixel	773,21	774,43	5	8	0,125	1
30	overlap region	776,24	789,74	5	8	0,125	1
31		790,04	798,06	5	8	0,125	1
32	PMD 4/7, AE	798.35	946,62	5	4	0.125	0.5
33	20.000 (200 (B.0.1074)).	946,90	990,40	5	8	0,125	1
34	overlap region, (AE)	990,68	1056,25	5	8	0,125	1
35	Blinded Pixel	1061,68	1062,83	5	8	0,125	1
36	Blinded Pixel	971,46	978,74	6	8	0,125	1
37	overlap region	990,84	1056,23	6	8	0,125	1
38		1057,02	1233,24	6	8	0,125	1
39	AE	1234,01	1253,14	6	2	0,125	0,25
40		1253,90	1388,96	6	8	0,125	1
41	Water Vapour	1389,72	1410,36	6	2	0,125	0,25
42	vvater vapour	1411,12	1548,51	6	8	0,125	1
43	Water/Ice cloud & PMD 5	1549,30	1670,70	6	2	0,125	0,25
44		1671,51	1695,84	6	8	0,125	1
45	add. Water/ice cloud	1696,65	1707,26	6	2	0,125	0,25
46		1708.08	1750,09	6	8	0.125	1
47	Blinded Pixel	1765,07	1772,59	6	8	0,125	1
48	Blinded Pixel	1934,38	1935,44	7	2	0.5	1
49	billided Fixel	1939,99		7	2	0.5	1
	12/22		1967,79				
50	CO2	1967,90	1984,05	7	1	0,5	0,5
51		1984,15	2029,89	7	2	0,5	1
52	CO2, H2O	2029,99	2040, 19	7	1	0,5	0,5
53	Blinded Pixel	2042,80	2043,67	7	2	0,5	1
54	Blinded Pixel	2259,26	2260,47	8	16	0,0625	1
55	PMD 6, Ch. 8, unused pixel	2260,61	2384,49	8	8	0,0625	0,5
56	Blinded Pixel	2384.60	2385,61	8	16	0,0625	1
	Silided Pixel	2384,60	2385,61	8	16	0,0625	3.
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ister Ind.	Description	min/max waveleng	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	1	1,5	1,5
5	unused pixel	314,03	333,80	1b	1	1,5	1,5
6	Blinded Pixel	333,92	334,37	1b	1	1,5	1,5
7	Blinded Pixel	412,18	411,74	2b	2	0,75	1,5
8	unused pixel	411,63	404,07	2b	1	0,75	0,75
9	virtual channel 2b	403,96	320,14	2b	1	0,75	0,75
10	virtual channel 2a	320,02	309,43	2a	1	1,5	1,5
11	unused pixel	309,31	301,18	2a	1	1,5	1,5
12	Blinded Pixel	301,06	300,59	2a	1	1,5	1,5
13	Blinded Pixel	383,56	385,84	3	1	0,375	0,375
14	unused pixel	386,09	391,63	3	1	0,375	0,375
15	Channel 3 (main part)	391,88	605,48	3	1	0,375	0,375
16	unused pixel	605,72	627,17	3	1	0,375	0,375
17	Blinded Pixel	627,41	628,40	3	1	0,375	0,375
18	Blinded Pixel	595,36	596,26	4	1	0,375	0,375
19	unused pixel	596,48	597,38	4	1	0.375	0,375
20	Channel 4 (main part)	597,60	789,85	4	1	0,375	0,375
21	unused pixel	790,06	811,25	4	1	0,375	0,375
22	Blinded Pixel	811,47	812,33	4	1	0,375	0,375
23	Blinded Pixel	773,21	774,43	5	i	0,375	0,375
24	unused pixel	774,73	775,94	5	1	0,375	0,375
25	Channel 5 (main part)	776,24	1056,25	5	i	0,375	0,375
26	unused pixel	1056,53	1061,40	5	i	0,375	0,375
27	Blinded Pixel	1061,68	1062,83	5	1	0,375	0,375
28			978,74	6	1		
	Blinded Pixel	971,46				0,375	0,375
29	unused pixel	979,55	990,03	6	1	0,375	0,375
30	Channel 6/6+ (main part)	990,84	1750,09	6	1	0,375	0,375
31	unused pixel	1750,92	1764,24	6	1	0,375	0,375
32	Blinded Pixel	1765,07	1772,59	6	1	0,375	0,375
33	Blinded Pixel	1934,38	1935,44	7	1	1,5	1,5
34	unused pixel	1935,55	1939,88	7	1	1,5	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	1	1,5	1,5
36	unused pixel	2040,29	2042,70	7	1	1,5	1,5
37	Blinded Pixel	2042,80	2043,67	7	1	1,5	1,5
38	Blinded Pixel	2259,26	2260,47	8	12	0,125	1,5
39	Channel 8	2260,61	2384,49	8	12	0,125	1,5
40	Blinded Pixel	2384,60	2385,61	8	12	0,125	1.5
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luster Ind.	Description	min/max waveleng	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	1	1,5	1,5
5	unused pixel	314,03	333,80	1b	1	1,5	1,5
6	Blinded Pixel	333,92	334,37	1b	1	1,5	1,5
7	Blinded Pixel	412,18	411,74	2b	2	0,75	1,5
8	unused pixel	411,63	404,07	2b	1	0,75	0,75
9	virtual channel 2b	403,96	320,14	2b	1	0,75	0,75
10	virtual channel 2a	320,02	309,43	2a	1	1,5	1,5
11	unused pixel	309,31	301,18	2a	1	1,5	1,5
12	Blinded Pixel	301,06	300,59	2a	1	1,5	1,5
13	Blinded Pixel	383,56	385,84	3	24	0,0625	1,5
14	unused pixel	386,09	391,63	3	24	0,0625	1,5
15	Channel 3 (main part)	391,88	605,48	3	6	0,0625	0,375
16	unused pixel	605,72	627,17	3	24	0,0625	1,5
17	Blinded Pixel	627,41	628,40	3	24	0,0625	1,5
18	Blinded Pixel	595,36	596,26	4	24	0,0625	1,5
19	unused pixel	596,48	597,38	4	24	0,0625	1,5
20	Channel 4 (main part)	597,60	789,85	4	6	0,0625	0,375
21	unused pixel	790,06	811,25	4	24	0,0625	1,5
22	Blinded Pixel	811,47	812,33	4	24	0,0625	1,5
23	Blinded Pixel	773,21	774,43	5	8	0,1875	1,5
24	unused pixel	774,73	775,94	5	8	0,1875	1,5
25	Channel 5 (main part)	776,24	1056,25	5	2	0,1875	0,375
26	unused pixel	1056,53	1061,40	5	8	0,1875	1,5
27	Blinded Pixel	1061,68	1062,83	5	8	0,1875	1,5
28	Blinded Pixel	971,46	978,74	6	24	0,0625	1,5
29	unused pixel	979,55	990,03	6	24	0,0625	1,5
30	Channel 6/6+ (main part)	990,84	1750,09	6	6	0,0625	0,375
31	unused pixel	1750,92	1764,24	6	24	0,0625	1,5
32	Blinded Pixel	1765,07	1772,59	6	24	0,0625	1,5
33	Blinded Pixel	1934,38	1935,44	7	1	1,5	1,5
34	unused pixel	1935,55	1939,88	7	1	1,5	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	1	1,5	1,5
36	unused pixel	2040,29	2042,70	7	1	1,5	1,5
37	Blinded Pixel	2042,80	2043,67	7	1	1,5	1,5
38	Blinded Pixel	2259,26	2260,47	8	12	0,125	1,5
39	Channel 8	2260,61	2384,49	8	12	0,125	1,5
40	Blinded Pixel	2384,60	2385,61	8	12	0,125	1.5
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State						L3	
luster Ind.	Description	min/max waveleng	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	2	0,375	0,75
5	unused pixel	314,03	333,80	1b	4	0,375	1,5
6	Blinded Pixel	333,92	334,37	1b	4	0,375	1,5
7	Blinded Pixel	412,18	411,74	2b	4	0,375	1,5
8	unused pixel	411,63	404,07	2b	4	0,375	1,5
9	virtual channel 2b	403,96	320,14	2b	1	0,375	0,375
10	virtual channel 2a	320,02	309,43	2a	1	0,375	0,375
11	unused pixel	309,31	301,18	2a	4	0,375	1,5
12	Blinded Pixel	301,06	300,59	2a	4	0,375	1,5
13	Blinded Pixel	383,56	385,84	3	24	0,0625	1,5
14	unused pixel	386,09	391,63	3	24	0,0625	1,5
15	Channel 3 (main part)	391,88	605,48	3	6	0,0625	0,375
16	unused pixel	605,72	627,17	3	24	0,0625	1,5
17	Blinded Pixel	627,41	628,40	3	24	0,0625	1,5
18	Blinded Pixel	595,36	596,26	4	24	0,0625	1,5
19	unused pixel	596,48	597,38	4	24	0,0625	1,5
20	Channel 4 (main part)	597,60	789,85	4	6	0,0625	0,375
21	unused pixel	790,06	811,25	4	24	0,0625	1,5
22	Blinded Pixel	811,47	812,33	4	24	0,0625	1,5
23	Blinded Pixel	773,21	774,43	5	4	0,375	1,5
24	unused pixel	774,73	775,94	5	4	0,375	1,5
25	Channel 5 (main part)	776,24	1056,25	5	1	0,375	0,375
26	unused pixel	1056,53	1061,40	5	4	0,375	1,5
27	Blinded Pixel	1061,68	1062,83	5	4	0,375	1,5
28	Blinded Pixel	971,46	978,74	6	24	0,0625	1,5
29	unused pixel	979,55	990,03	6	24	0,0625	1,5
30	Channel 6/6+ (main part)	990,84	1750,09	6	6	0,0625	0,375
31	unused pixel	1750,92	1764,24	6	24	0,0625	1,5
32	Blinded Pixel	1765,07	1772,59	6	24	0,0625	1,5
33	Blinded Pixel	1934,38	1935,44	7	4	0,375	1,5
34	unused pixel	1935,55	1939,88	7	4	0,375	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	4	0,375	1,5
36	unused pixel	2040,29	2042,70	7	4	0,375	1,5
37	Blinded Pixel	2042,80	2043,67	7	4	0,375	1,5
38	Blinded Pixel	2259,26	2260,47	8	24	0,0625	1,5
39	Channel 8	2260,61	2384,49	8	6	0,0625	0,375
40	Blinded Pixel	2384,60	2385,61	8	24	0,0625	1.5
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State						L4	
luster Ind.	Description	min/max waveleng	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	2	0,375	0,75
5	unused pixel	314,03	333,80	1b	4	0,375	1,5
6	Blinded Pixel	333,92	334,37	1b	4	0,375	1,5
7	Blinded Pixel	412,18	411,74	2b	4	0,375	1,5
8	unused pixel	411,63	404,07	2b	4	0,375	1,5
9	virtual channel 2b	403,96	320,14	2b	1	0,375	0,375
10	virtual channel 2a	320,02	309,43	2a	1	0,375	0,375
11	unused pixel	309,31	301,18	2a	4	0,375	1,5
12	Blinded Pixel	301,06	300,59	2a	4	0,375	1,5
13	Blinded Pixel	383,56	385,84	3	8	0,1875	1,5
14	unused pixel	386,09	391,63	3	8	0,1875	1,5
15	Channel 3 (main part)	391,88	605,48	3	2	0,1875	0,375
16	unused pixel	605,72	627,17	3	8	0,1875	1,5
17	Blinded Pixel	627,41	628,40	3	8	0,1875	1,5
18	Blinded Pixel	595,36	596,26	4	8	0,1875	1,5
19	unused pixel	596,48	597,38	4	8	0,1875	1,5
20	Channel 4 (main part)	597,60	789,85	4	2	0,1875	0,375
21	unused pixel	790,06	811,25	4	8	0,1875	1,5
22	Blinded Pixel	811,47	812,33	4	8	0,1875	1,5
23	Blinded Pixel	773,21	774,43	5	4	0,375	1,5
24	unused pixel	774,73	775,94	5	4	0,375	1,5
25	Channel 5 (main part)	776,24	1056,25	5	1	0,375	0,375
26	unused pixel	1056,53	1061,40	5	4	0,375	1,5
27	Blinded Pixel	1061,68	1062,83	5	4	0,375	1,5
28	Blinded Pixel	971,46	978,74	6	8	0,1875	1,5
29	unused pixel	979,55	990,03	6	8	0,1875	1,5
30	Channel 6/6+ (main part)	990,84	1750,09	6	2	0,1875	0,375
31	unused pixel	1750,92	1764,24	6	8	0,1875	1,5
32	Blinded Pixel	1765,07	1772,59	6	8	0,1875	1,5
33	Blinded Pixel	1934,38	1935,44	7	4	0,375	1,5
34	unused pixel	1935,55	1939,88	7	4	0,375	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	4	0,375	1,5
36	unused pixel	2040,29	2042,70	Z	4	0,375	1,5
37	Blinded Pixel	2042,80	2043,67	7	4	0,375	1,5
38 39	Blinded Pixel	2259,26	2260,47	8	24 6	0,0625	1,5
40	Channel 8	2260,61	2384,49	8	24	0,0625	0,375
	Blinded Pixel	2384,60	2385,61	В	24	0,0625	1.5
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State						L5	
luster Ind.	Description	min/max waveleng	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	2	0,375	0,75
5	unused pixel	314,03	333,80	1b	4	0,375	1,5
6	Blinded Pixel	333,92	334,37	1b	4	0,375	1,5
7	Blinded Pixel	412,18	411,74	2b	4	0,375	1,5
8	unused pixel	411,63	404,07	2b	4	0,375	1,5
9	virtual channel 2b	403,96	320,14	2b	1	0,375	0,375
10	virtual channel 2a	320,02	309,43	2a	1	0,375	0,375
11	unused pixel	309,31	301,18	2a	4	0,375	1,5
12	Blinded Pixel	301,06	300,59	2a	4	0,375	1,5
13	Blinded Pixel	383,56	385,84	3	8	0,1875	1,5
14	unused pixel	386,09	391,63	3	8	0,1875	1,5
15	Channel 3 (main part)	391,88	605,48	3	2	0,1875	0,375
16	unused pixel	605,72	627,17	3	8	0,1875	1,5
17	Blinded Pixel	627,41	628,40	3	8	0,1875	1,5
18	Blinded Pixel	595,36	596,26	4	8	0,1875	1,5
19	unused pixel	596,48	597,38	4	8	0,1875	1,5
20	Channel 4 (main part)	597,60	789,85	4	2	0,1875	0,375
21	unused pixel	790,06	811,25	4	8	0,1875	1,5
22	Blinded Pixel	811,47	812,33	4	8	0,1875	1,5
23	Blinded Pixel	773,21	774,43	5	4	0,375	1,5
24	unused pixel	774,73	775,94	5	4	0,375	1,5
25	Channel 5 (main part)	776,24	1056,25	5	1	0,375	0,375
26	unused pixel	1056,53	1061,40	5	4	0,375	1,5
27	Blinded Pixel	1061,68	1062,83	5	4	0,375	1,5
28	Blinded Pixel	971,46	978,74	6	8	0,1875	1,5
29	unused pixel	979,55	990,03	6	8	0,1875	1,5
30	Channel 6/6+ (main part)	990,84	1750,09	6	2	0,1875	0,375
31	unused pixel	1750,92	1764,24	6	8	0,1875	1,5
32	Blinded Pixel	1765,07	1772,59	6	8	0,1875	1,5
33	Blinded Pixel	1934,38	1935,44	7	4	0,375	1,5
34	unused pixel	1935,55	1939,88	7	4	0,375	1,5
35	Channel 7 (main part)	1939,99	2040,19	7	4	0,375	1,5
36	unused pixel	2040,29	2042,70	7	4	0,375	1,5
37	Blinded Pixel	2042,80	2043,67	7	4	0,375	1,5
38	Blinded Pixel	2259,26	2260,47	8	24	0,0625	1,5
39	Channel 8	2260,61	2384,49	8	6	0,0625	0,375
40	Blinded Pixel	2384,60	2385,61	8	24	0,0625	1.5
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State						L6	
luster Ind.	Description	min/max waveleng	gth , nm	Channel	Coadding	PET (s)	Int. Time(s
1	Blinded Pixel	212,53	213,14	1a	1	1,5	1,5
2	straylight	213,29	239,88	1a	1	1,5	1,5
3	virtual channel 1a	240,00	281,90	1a	1	1,5	1,5
4	virtual channel 1b	282,01	313,92	1b	1	1,5	1,5
5	unused pixel	314,03	333,80	1b	1	1,5	1,5
6	Blinded Pixel	333,92	334,37	1b	1	1,5	1,5
7	Blinded Pixel	412,18	411,74	2b	1	1,5	1,5
8	unused pixel	411,63	404,07	2b	1	1,5	1,5
9	virtual channel 2b	403,96	320,14	2b	1	1,5	1,5
10	virtual channel 2a	320,02	309,43	2a	1	1,5	1,5
11	unused pixel	309,31	301,18	2a	1	1,5	1,5
12	Blinded Pixel	301,06	300,59	2a	1	1,5	1,5
13	Blinded Pixel	383,56	385,84	3	1	0,75	0,75
14	unused pixel	386,09	391,63	3	1	0,75	0,75
15	Channel 3 (main part)	391,88	605,48	3	1	0,75	0,75
16	unused pixel	605,72	627,17	3	1	0,75	0,75
17	Blinded Pixel	627,41	628,40	3	1	0,75	0,75
18	Blinded Pixel	595,36	596,26	4	1	0,75	0,75
19	unused pixel	596,48	597,38	4	1	0,75	0,75
20	Channel 4 (main part)	597,60	789,85	4	1	0,75	0,75
21	unused pixel	790,06	811,25	4	1	0,75	0,75
22	Blinded Pixel	811,47	812,33	4	1	0,75	0,75
23	Blinded Pixel	773,21	774,43	5	1	1,5	1,5
24	unused pixel	774,73	775,94	5	1	1,5	1,5
25	Channel 5 (main part)	776,24	1056,25	5	1	1,5	1,5
26	unused pixel	1056,53	1061,40	5	1	1,5	1,5
27	Blinded Pixel	1061,68	1062,83	5	1	1,5	1,5
28	Blinded Pixel	971,46	978,74	6	1	1,5	1,5
29	unused pixel	979,55	990,03	6	1	1,5	1,5
30	Channel 6/6+ (main part)	990,84	1750,09	6	1	1,5	1,5
31	unused pixel	1750,92	1764,24	6 6	1	1,5	1,5
32	Blinded Pixel	1765,07	1772,59		1	1,5	1,5
33 34	Blinded Pixel	1934,38	1935,44	7	1	1,5	1,5
35	unused pixel Channel 7 (main part)	1935,55 1939,99	1939,88 2040,19	7	1	1,5 1,5	1,5 1,5
36		2040.29	2040,19	7	1	1,5	1,5
37	unused pixel Blinded Pixel			7			
38	Blinded Pixel	2042,80 2259,26	2043,67 2260,47	8	1	1,5 0,125	1,5 1,5
39	Channel 8	2260,61	2384,49	8	12	0,125	
40	Blinded Pixel		2384,49	8	12	0,125	1,5
41	Blinded Pixel	2384,60	2305,01	ь	12	0,125	1,5
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**ANNEX 5:** Modified entries in PET and co-adding tables required for OCR\_044 implementation.

PET table: PET reduction by factor 8:

	State ID	Data Rate	Channel 1a.	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	
Nadir 01	1	Low	1,	,5	,5	,5	1,	,125	,25	,125	1,	,125	changed due to OCR 44
Nadir 02	2	Low	1.	,5	.5	,5	1.	.125	.25	.125	1.	.125	changed due to OCR 44
Nadir 03	3	Low	1.	,5	,5	,5	.125	.125	,25	.125	1.	,125	changed due to OCR 44
Nadir 04	4	Low	1,	,5	,5	,5	,125	,125	,25	,125	1,	,125	changed due to OCR 44
Nadir 05	5	Low	1,	,5	,5	,5	,125	,125	,25	,125	1,	,125	changed due to OCR 44
Nadir 06	6	Low	1,	,25	,25	,25	,0625	,0625	,25	,125	,5	,0625	changed due to OCR 44
Nadir 07	7	Low	1,	.25	.25	.25	.0625	.0625	,125	.125	,5	.0625	changed due to OCR 44
Dark Current Cal 5	8	Low	,25	,25	,25	.25	1.	1.	,25	,5	,125	,125	changed due to OCR 007&OCR 43
Dark Current Cal 4	26	Low	1,	1,	1,5	1,5	,75	,75	1,5	1,5	,5	,5	changed due to OCR_43
Limb 01	28	Low	1,5	1,5	,75	1,5	,375	,375	,375	,375	1,5	,125	changed due to OCR 44
Limb 02	29	Low	1,5	1,5	,75	1,5	,0625	,0625	,1875	,0625	1,5	,125	changed due to OCR 44
Limb 03	30	Low	1,5	,375	,375	,375	,0625	,0625	,375	,0625	,375	,0625	changed due to OCR 44
Limb 04	31	Low	1,5	,375	,375	,375	,1875	,1875	,375	,1875	,375	,0625	changed due to OCR 44
Limb 05	32	Low	1,5	,375	,375	,375	,1875	,1875	,375	,1875	,375	.0625	changed due to OCR 44
Limb 06	33	Low	1,5	1.5	1.5	1,5	.75	,75	1,5	1,5	1.5	.125	changed due to OCR 44
Dark Current Cal 1	46	Low	.0625	.0625	.0625	.0625	.0625	.0625	.125	.0625	.0625	.0625	changed due to OCR 43
Dark Current Cal 2	63	Low	,375	,375	,75	,75	,375	,375	,375	,375	,375	,375	changed due to OCR 43
Dark Current Cal 3	67	Low	,5	,5	,5	,5	,125	.125	,5	.125	1.	1.	changed due to OCR 007&OCR 43
	State ID	Data Rate	Channel 1a	Channel 1b	Channel 2b	Channel 2a	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	
Nadir 01	1	High	1,	,5	,5	,5	1,	,125	,25	,125	1,	,125	changed due to OCR 44
Nadir 02	2	High	1,	,5	,5	,5	1,	,125	,25	,125	1,	,125	changed due to OCR 44
Nadir 03	3	High	1,	,5	,5	,5	,125	,125	,25	,125	1,	,125	changed due to OCR 44
Nadir 04	4	High	1,	,5	,5	,5	,125	,125	,25	,125	1,	,125	changed due to OCR_44
Nadir 05	5	High	1,	,5	,5	,5	,125	,125	,25	,125	1,	,125	changed due to OCR 44
Nadir 06	6	High	1,	,25	,25	,25	,0625	,0625	,25	,125	,5	,0625	changed due to OCR_44
Nadir 07	7	High	1,	,25	,25	,25	,0625	,0625	,125	,125	,5	,0625	changed due to OCR_44
Dark_Current_Cal_5	8	High	,25	,25	,25	,25	1,	1,	,25	,5	,125	,125	changed due to OCR 007&OCR 43
Dark_Current_Cal_4	26	High	1,	1,	1,5	1,5	,75	,75	1,5	1,5	,5	,5	changed due to OCR 43
Limb 01	28	High	1,5	1,5	,75	1,5	,375	,375	,375	,375	1,5	,125	changed due to OCR_44
Limb 02	29	High	1,5	1,5	,75	1,5	,0625	,0625	,1875	,0625	1,5	,125	changed due to OCR_44
Limb 03	30	High	1,5	,375	,375	,375	,0625	,0625	,375	,0625	,375	,0625	changed due to OCR_44
Limb 04	31	High	1,5	,375	,375	,375	,1875	,1875	,375	,1875	,375	,0625	changed due to OCR_44
Limb 05	32	High	1,5	,375	,375	,375	,1875	,1875	,375	,1875	,375	,0625	changed due to OCR 44
Limb 06	33	High	1,5	1,5	1,5	1,5	,75	,75	1,5	1,5	1,5	,125	changed due to OCR 44
Dark Current Cal 1	46	High	,0625	,0625	,0625	,0625	,0625	,0625	,125	,0625	,0625	,0625	changed due to OCR 43
	- 60			07.5	_	_			_				
Dark Current Cal 2	63	High	,375	,375	,75	,75	,375	,375	,375	,375	,375	,375	changed due to OCR 43

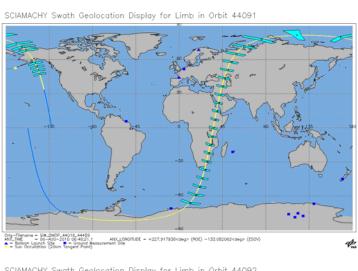
## Co-adding table for PET reduction by factor 8:

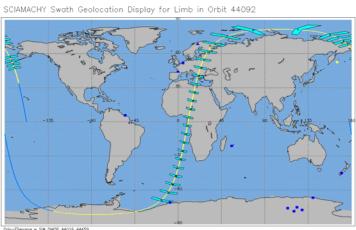
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CO ADDING	1								CO ADDING	4								CO ADDING	21							
Cluster Index	1	2	3	4	5	6	7	8	Cluster Index	1	2	3	4	5	6	7	8	Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	1	1	1	2	1	Co Adding Factor	1	1	1	2	4	4	4	4	Co Adding Factor	1	1	1	1	1	2	2	2
Cluster Index	9	10	11	12	13	14	_	16	Cluster Index	9	10	11	12	13	14	15	16	Cluster Index	9	10	11	12	13	14	15	16
Co Adding Factor	1	1	1	1	1	1	1	1	Co Adding Factor	1	1	4	4	8	8	2	8	Co Adding Factor	1	1	2	1	1	1	1	1
Cluster Index	17	_	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23	24
Co Adding Factor	1	1	1	1	1	1	1	1	Co Adding Factor	8	8	8	2	8	8	4	4	Co Adding Factor	1	1	1	1	8	8	8	1
Cluster Index	25	_	27	28	29	30	_	32	Cluster Index	25	26	27	28	29	30	31	32	Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	1	1	1	1	1	1	1	Co_Adding Factor	1	4	4	8	8	2	8	8	Co_Adding Factor	8	1	8	8	4	4	4	1
Cluster Index	33	_	35	36	37	38	_	40	Cluster Index	33	34	35	36	37	38	39	40	Cluster Index	33	34	35	36	37	38	39	40
Co Adding Factor	1	1	1	1	1	_	12	12	Co Adding Factor	4	4	4	4	4		6	24	Co Adding Factor	4	1	4	8	2	8	1	8
Cluster Index	41	_	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48
Co Adding Factor	0	_	0	0	0	0	0	0	Co Adding Factor	0	0	0	0	0	0	0	0	Co Adding Factor	1	8	1	8	1	8	8	1
Cluster Index	49	_	51	52	53	54		56	Cluster Index	49	50	51	52	53	54	55	56	Cluster Index	49	50	51	52	53	54	55	56
Co Adding Factor	0		0	0	0	0		0	Co Adding Factor	0	0	0	0	0	0	0	0	Co_Adding Factor	1	1	1	1	1	8	8	8
Cluster Index	57	58	59	60	61	62	63	64	Cluster Index	57	58	59	60	61	62	63	64	Cluster Index	57	58	59	60	61	62	63	64
Co Adding Factor	0		0	0	01	02	0.0	04	Co Adding Factor	0	0	0	00	01	02	03	04	Co Adding Factor	0	0	0	0	01	02	0.0	04
Co_Adding Factor	U	U	U	U	U	U	U	U	Co_Adding Factor	U	U	U	U	U	U	U	U	Co_Adding Factor	U	U	U	U	U	U	U	U
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Cluster Index Co Adding Factor	1	2	3	4	5	6	7	8	Cluster Index Co Adding Factor	1	1	3	2	5	6	7	8	Cluster Index Co Adding Factor	1	1	3	4	5	6	7	8
	_		_					_		_	_	_	-		-		_		-	-	_				_	
Cluster Index	_	10	11	12	13	_	15	16	Cluster Index	9	10	11	12	_	14	15	16	Cluster Index	9	10	11	12	13	_	15	16
Co_Adding Factor	1	_	1	1	24	_		24	Co_Adding Factor	1	1	4	4	8	8	2	8	Co_Adding Factor	1	1	2	1	1	1	1	1
Cluster Index	_	18	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23 4	24	Cluster Index	17	18	19 1	20	21	22	23	24
Co_Adding Factor	_	24	24	6	24	24		8	Co_Adding Factor	8	8	8	2	8	8		4	Co_Adding Factor	<u> </u>	<u> </u>	_	_			8	1
Cluster Index	25	_	27	28	29	30	_	32	Cluster Index	25	26	27	28	29	30	31	32	Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	2	_	8	24	24	6	_	24	Co_Adding Factor	1	4	4	8	8	2	8	8	Co_Adding Factor	8	1	8	8	4	4	4	1
Cluster Index	_	34	35	36	37	38	39	40	Cluster Index	33	34	35	36	37	38	39	40	Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	1	_	1	1	1	12		12	Co_Adding Factor	4	4	4	4	4	24	6	24	Co_Adding Factor	4	1	4	8	2	8	1	8
Cluster Index	_	42	43	44	45	46	_	48	Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48
Co_Adding Factor	0		0	0	0	0	0	0	Co_Adding Factor	0	0	0	0	0	0	0	0	Co_Adding Factor	1	8	1	8	1	8	8	1
Cluster Index	_	50	51	52	53	_	55	56	Cluster Index	49	50	51	52	53	54	55	56	Cluster Index	49	50	51	52	53	54	55	56
Co_Adding Factor	0	0	0	0	0	0	0	0	Co_Adding Factor	0	0	0	0	0	0	0	0	Co_Adding Factor	1	1	1	1	1	8	8	8
Cluster Index	57		59	60	61	62	63	64	Cluster Index	57	58	59	60	61		63	64	Cluster Index	57	58	59	60	61	62	63	64
Co_Adding Factor	0	0	0	0	0	0	0	0	Co_Adding Factor	0	0	0	0	0	0	0	0	Co_Adding Factor	0	0	0	0	0	0	0	0
CO_ADDING	3								CO_ADDING	6								CO_ADDING	23							
Cluster Index	1	2	3	4	5	6	7	8	Cluster Index	1	2	3	4	5	6	7	8	Cluster Index	1	2	3	4	5	6	7	8
Co_Adding Factor	1	1	1	2	4	4	4	4	Co_Adding Factor	1	1	1	1	1	1	1	1	Co_Adding Factor	—	1	1	1	1	2	2	2
Cluster Index	9	10	11	12	13	14	15	16	Cluster Index	9	10	11	12	13	14	15	16	Cluster Index	9	10	11	12	13		15	16
Co_Adding Factor	1	1	4	4	24	24		24	Co_Adding Factor	1	1	1	1	1	1	1	1	Co_Adding Factor	1	1	2	80	8	1	1	8
Cluster Index	17	18	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23	24
Co_Adding Factor	24	24	24	6	24	24	4	4	Co_Adding Factor	1	1	1	1	1	1	1	1	Co_Adding Factor	1	8	8	8	00	8	8	1
Cluster Index	25	26	27	28	29	30	31	32	Cluster Index	25	26	27	28	29	30	31	32	Cluster Index	25	26	27	28	29	30	31	32
Co_Adding Factor	1	4	4	24	24	6	24	24	Co_Adding Factor	1	1	1	1	1	1	1	1	Co_Adding Factor	8	1	8	8	4	4	4	1
Cluster Index	33	34	35	36	37	38	39	40	Cluster Index	33	34	35	36	37	38	39	40	Cluster Index	33	34	35	36	37	38	39	40
Co_Adding Factor	4	4	4	4	4	24	6	24	Co_Adding Factor	1	1	1	1	1	12	12	12	Co_Adding Factor	4	1	4	8	2	8	2	8
Cluster Index	41	-	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48
Co Adding Factor	0		0	0	0	0	0	0	Co_Adding Factor	0	0	0	0	0	0	0	0	Co Adding Factor	2	8	2	8	2	8	8	1
Cluster Index	49	_	51	52	53	54	_	56	Cluster Index	49	50	51	52	53	54	55	56	Cluster Index	49	50	51	52	53	54	55	56
Co Adding Factor			0	0	0	0	0	0	Co Adding Factor	0	0	0	0	0	0	0	0	Co Adding Factor	1	1	1	1	1	8	8	8
Cluster Index	57	-	59	60	61	62	63	64	Cluster Index	57	58	59	60	61	62	63	64	Cluster Index	57	58	59	60	61	62	63	64
oldster mack		1 20	100	100	101	102	100	0-7	Co_Adding Factor	0	0	0	0	0	0	0	0	Co Adding Factor		0	0	0	01	02	0.0	04
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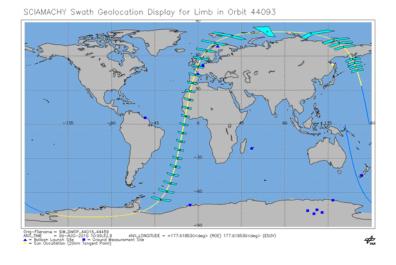
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Co_Adding Factor	1	1	1	1	1	2	2	2	Co_Adding Factor	5	1	1	2	1	20	4	4	Co_Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13	14	15	16	Cluster Index	9	10	11	12	13	14	15	16	Cluster Index	9	10	11	12	13	14	15	16
Co_Adding Factor	1	1	2	8	8	1	1	8	Co_Adding Factor	1	1	4	16	16	16	4	16	Co_Adding Factor	1	1	1	1	4	4	4	4
Cluster Index	17	18	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23	24	Cluster Index	17	18	19	20	21	22	23	24
Co Adding Factor	1	8	8	8	8	8		1	Co Adding Factor		16	16	16	16		16	4	Co Adding Factor	4	4	4	4	4	4	1	1
Cluster Index	25	26	27	28	29	30	31	32	Cluster Index	25	26	27	28	29	30	31	32	Cluster Index	25	26	27	28	29	30	31	32
Co Adding Factor	8	1	8	8	4	4	4	1	Co Adding Factor	16	4	16	16	8	8	8	4	Co Adding Factor	1	1	1	2	2	2	2	2
Cluster Index	33	34	35	36	37	38	39	40	Cluster Index	33	34	35	36	37	38	39	40	Cluster Index	33	_	35	36	37	38	39	40
Co Adding Factor	4	1	4	8	2	8	2	8	Co Adding Factor		8	8	8	8	8	2	8	Co Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48
Co Adding Factor	2	8	2	8	2	8	8	1	Co Adding Factor		8	2	8	2	8	8	2	Co Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	49	50	51	52	53		55	56	Cluster Index	49	50	51	52	53	54	55	56	Cluster Index	49	50	51	52	53	54	55	56
Co Adding Factor	1	1	1	1	1	8	8	8	Co Adding Factor		1	2	1	2	16	8	16	Co Adding Factor	0	0	0	0	0	0	0	0
Cluster Index	57	_	59	60	61	62		64	Cluster Index	57	58	59	60	61	62	63	64	Cluster Index	57	58	59	60	61	62	63	64
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Co Adding Factor	1	1	1	1	1	2	2	2	Co Adding Factor	_	8	8	8	8	8	8	8	Co Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	9	10	11	12	13		15	16	Cluster Index	9	10	11	12	13		15	_	Cluster Index	9	10	11	12	_	14	15	16
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Cluster Index	17	_	19	20	21	22	23	24	Cluster Index	17	18	19	20	_		23	24	Cluster Index	17	_	19	20	21	22	23	24
Co Adding Factor	1	8	8	8	8	8	8	1	Co Adding Factor		8	8	8	8	8	4	4	Co Adding Factor	2		2	2	2	2	1	1
Cluster Index	25	26	27	28	29	30	_	32	Cluster Index	25	26	27	28	_	30	31	32	Cluster Index	25	26	27	_	29	30	31	32
Co Adding Factor	8	1	8	8	4	4	_	1	Co Adding Factor		4	4	8	8	8	8	8	Co Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	33	34	35	36	37	38	39	40	Cluster Index	33	_	35	36		38	39	40	Cluster Index	33	34	35	36	37	38	39	40
Co Adding Factor	4	1	4	8	2	8	2	8	Co Adding Factor		16	16	16	16	8	8	8	Co Adding Factor	1	1	1	1	1	1	1	1
Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	42	43	44	45	46	47	48
Co Adding Factor	2	8	2	8	2	8	8	1	Co Adding Factor	_	0	0	0	0	0	0	0	Co_Adding Factor	Ö		0	0	0	0	0	0
Cluster Index	49	50	51	52	53	54	_	56	Cluster Index	49	50	51	52	_		55	56	Cluster Index	49		51	52	53	54	55	56
Co Adding Factor	1	_	_	_	_	8	8	8	Co_Adding Factor	0	0	0	0	0	0	0	0	Co Adding Factor	ő		0	0	0	0	0	0
	_	1	1	1	1	_	_	_	Cluster Index	57	58	59	60	_		63	64	Cluster Index	57	_	59	_	_	62	63	64
Cluster Index	57	58	59	60	61		63	64	Co Adding Factor		0	0	0	01	02	0	0	Co Adding Factor	0	_	0	0	0	0	0	0
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Co_Adding Factor	1	10	-	12	1	4	4	-	Cluster Index	9	10	11	12	13		15	16	Cluster Index	9	10	11	12	_	_	_	16
Cluster Index Co Adding Factor	9	10	11	12	13	14		16	Co Adding Factor	<u> </u>	1	1	1	2	2	2	2	Co Adding Factor	2	2	2	2	1	1	1	1
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Cluster Index	17		19	20	21	22	23	24	Co Adding Factor		2	2	20	2	2	1	1	Co Adding Factor	1	1	1	1	1	1	2	2
Co_Adding Factor	4	_	16	16	16	16	_	4	Cluster Index	25	26	27	28	29	30	31	32	Cluster Index	25	_	27	_	29	30	31	32
Cluster Index	25	_	27	28	29	30	_	32	Co Adding Factor		1	1	1	1	1	1	1	Co Adding Factor	2		2	1	1	1	1	1
Co_Adding Factor	16	_	16	16	4	4	4	1	Cluster Index	33	_	35	36	_	38	39	40	Cluster Index	33	_		36	_	38	39	40
Cluster Index	33	34	35	36	37	38	39	40	Co Adding Factor		2	2	2	2	38 1	39	1	Co Adding Factor	4	4	4	4	4	38 4	39 4	40
Co_Adding Factor	4	4	4	8	8	8	8	8	Cluster Index	41	42	43	44	45	46	47	48	Cluster Index	41	_	43	44	45	46	47	48
Cluster Index	41		43	44	45	46	47	48	Co Adding Factor		0	0	0	0	46 0	0	0	Co Adding Factor	0	0	0	0	0	0	0	0
Co_Adding Factor	8	8	8	8	8	8	8	2	Cluster Index	49	50	51	52	53	54	55	56	Cluster Index	49	_	51	52	53	54	55	56
Cluster Index	49	_	_	52	53	54	_	56	Co Adding Factor		0	0	0	0	0	0	0	Co Adding Factor	0	0	0	0	0	0	0	00
Co_Adding Factor	2	2	2	2	2	16	8	16	Cluster Index	_	_	_	_	_		_			_	_	_	_	_	_	_	
Cluster Index	57	58	59	60	61	62	63	64	Co Adding Factor	57	58 0	59	60 0		62	63 0	64 0	Cluster Index Co Adding Factor	57	_	59 0	60 0	0	62 0	63 0	64
Co_Adding Factor	0	0	0	0	0	0	0	0	ou_Adding Factor	U	U	U	U	0	U	U	U	Co_Adding Factor	U	0	U	U	U	U	U	U

Annex 6: ENVISAT ground track in selected orbits

# PET reduced by factor 4 on 6<sup>th</sup> August 2010

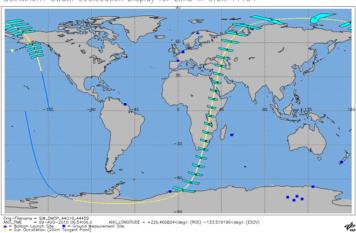




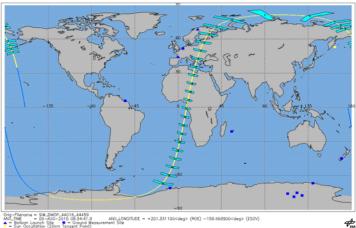


# PET reduced by factor 8 on 9<sup>th</sup> August 2010





SCIAMACHY Swath Geolocation Display for Limb in Orbit 44135



SCIAMACHY Swath Geolocation Display for Limb in Orbit 44136

