

VCO Observation Program List

2017/10/29

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1 Description of the format of this list

1.1 observation program id (valid date range): name

- cam: name of camera
- #: order of taking images. This starts from 1. [integer]
- kind: this indicates what kind of the image is taken.
- rec-#: order of recording images. This starts from 1. [integer]
- rec?: this indicates whether image is recorded to the partition 0x07 that is nominal storage for images. [boolean]
- object: target object of the image.
- filter: this indicates which filter was used for taking image.

- mode: this indicates which Optical Black (OB) mode was used for UVI or which accumulation mode was used for LIR.
- exp: exposure time for taking image in seconds [integer/float]
- median?: this indicates whether median processing with 3 images was used. [boolean]

2 List

2.1 0x00_v1 (2010-05-20 --): health check for all cameras

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	dark 1	2	yes	DARK	dark		7.833	no
	2	cal. lamp+ext.	1	yes	CAL+External	0.90 um day		7.833	yes
ir2	3	dark 1	4	yes	DARK	dark		6.97	no
	4	cal. lamp+ext.	3	yes	CAL+External	2.26 um		6.97	no
uvi	5	dark 1	5	yes	SHUTTER	shutter	TopOB	0.046	no
	6	signal-0-exp 1	6	yes	any	283 nm	NormOB	0.0	no
	7	signal 1	7	yes	any	283 nm	NormOB	0.004	no
	8	signal 2	8	yes	any	365 nm	TopOB	0.046	no
lir	9	signal 1	9	yes	any	10 um	(1,1)	N/A	no
	10	signal 2	10	yes	any	10 um	(32,32)	N/A	no

2.2 0x01_v1 (2010-05-20 -- 2016-06-16): nightside deluxe (IR2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	3	no	DARK	dark		6.97	yes
	2	Venus 1	2	yes	VENUS	1.735 um		6.97	yes
	3	Venus 2	1	yes	VENUS	2.26 um		6.97	yes
	4	post-dark 1	4	no	DARK	dark		6.97	yes
	5	pre-dark 2	6	no	DARK	dark		12.97	yes
	6	Venus 3	5	yes	VENUS	2.32 um		12.97	yes
	7	post-dark 2	7	no	DARK	dark		12.97	yes
lir	8	Venus 1	8	yes	VENUS	10 um	(32,32)	N/A	no

2.3 0x01_v2 (2016-06-16 --): nightside deluxe (IR2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	3	no	DARK	dark		6.97	yes
	2	Venus 1	2	yes	VENUS	1.735 um		6.97	yes
	3	Venus 2	1	yes	VENUS	2.26 um		6.97	yes
	4	post-dark 1	4	no	DARK	dark		6.97	yes
	5	pre-dark 2	7	no	DARK	dark		12.97	yes
	6	Venus 3	6	yes	VENUS	2.02 um		12.97	no
	7	Venus 4	5	yes	VENUS	2.32 um		12.97	yes
	8	post-dark 2	8	no	DARK	dark		12.97	yes
lir	9	Venus 1	9	yes	VENUS	10 um	(32,32)	N/A	no

2.4 0x02_v1 (2010-05-20 -- 2016-09-29): nightside slim (IR2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	2	no	DARK	dark		6.97	yes
	2	Venus 1	1	yes	VENUS	2.26 um		6.97	yes
	3	post-dark 1	3	no	DARK	dark		6.97	yes
lir	4	Venus 1	4	yes	VENUS	10 um	(32,32)	N/A	no

2.5 0x02_v2 (2016-09-29 --): nightside slim (IR2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	2	no	DARK	dark		6.97	yes
	2	Venus 1	1	yes	VENUS	2.26 um		6.97	yes
	3	post-dark 1	3	no	DARK	dark		6.97	yes
lir	4	Venus 1	4	yes	VENUS	10 um	(32,32)	N/A	no

2.6 0x03_v1 (2010-05-20 -- 2011-01-01): IR1 nightside deluxe

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		10.833	yes
	2	Venus 1	2	yes	VENUS	0.97 um		10.833	yes
	3	Venus 2	1	yes	VENUS	1.01 um		10.833	yes
	4	post-dark 1	4	no	DARK	dark		10.833	yes
	5	pre-dark 2	6	no	DARK	dark		30.833	yes
	6	Venus 3	5	yes	VENUS	0.90 um night		30.833	yes
	7	post-dark 2	7	no	DARK	dark		30.833	yes

2.7 0x03_v2 (2011-01-01 -- 2016-09-29): IR1 nightside deluxe

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		30.833	yes
	2	Venus 1	2	yes	VENUS	0.97 um		30.833	yes
	3	Venus 2	1	yes	VENUS	1.01 um		30.833	yes
	4	post-dark 1	4	no	DARK	dark		30.833	yes
	5	pre-dark 2	6	no	DARK	dark		30.833	yes
	6	Venus 3	5	yes	VENUS	0.90 um night		30.833	yes
	7	post-dark 2	7	no	DARK	dark		30.833	yes

2.8 0x03_v3 (2016-09-29 --): IR1 nightside deluxe

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		100.833	yes
	2	Venus 1	2	yes	VENUS	0.97 um		100.833	yes
	3	Venus 2	1	yes	VENUS	0.90 um night		100.833	yes
	4	post-dark 1	4	no	DARK	dark		100.833	yes
	5	pre-dark 2	6	no	DARK	dark		30.833	yes
	6	Venus 3	5	yes	VENUS	1.01 um		30.833	yes
	7	post-dark 2	7	no	DARK	dark		30.833	yes

2.9 0x04_v1 (2010-05-20 -- 2011-01-01): IR1 nightside slim

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		10.833	yes
	2	Venus 1	1	yes	VENUS	1.01 um		10.833	yes
	3	post-dark 1	3	no	DARK	dark		10.833	yes

2.10 0x04_v2 (2011-01-01 -- 2016-09-29): IR1 nightside slim

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		30.833	yes
	2	Venus 1	1	yes	VENUS	1.01 um		30.833	yes
	3	post-dark 1	3	no	DARK	dark		30.833	yes

2.11 0x04_v3 (2016-09-29 --): IR1 nightside slim

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		30.833	yes
	2	Venus 1	1	yes	VENUS	1.01 um		30.833	yes
	3	post-dark 1	3	no	DARK	dark		30.833	yes

2.12 0x05_v1 (2010-05-20 -- 2016-06-16): dayside deluxe (IR1, IR2, UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.25	yes
	8	Venus 1	?	yes	VENUS	283 nm	NormOB	0.25	yes
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.25	yes
	10	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	11	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	12	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	13	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.13 0x05_v2 (2016-06-16 -- 2016-09-29): dayside deluxe (IR1, IR2, UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	8	Venus 1	?	yes	VENUS	283 nm	NormOB	0.5	yes
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	10	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	11	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	12	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	13	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.14 0x05_v3 (2016-09-29 -- 2017-10-11): dayside deluxe (IR1, IR2, UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	8	Venus 1	?	yes	VENUS	283 nm	NormOB	0.5	yes
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	10	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	11	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	12	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	13	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.15 0x05_v4 (2017-10-11 --): dayside slim (UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	2	Venus 1	?	yes	VENUS	283 nm	NormOB	0.5	yes
	3	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	4	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	5	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	6	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	7	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.16 0x06_v1 (2010-05-20 -- 2016-06-16): dayside slim (IR1, IR2)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	yes
	8	Venus 1	?	yes	VENUS	365 nm	NormOB	0.046	yes
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	10	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.17 0x06_v2 (2016-06-16 -- 2016-09-29): dayside slim (IR1, IR2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		7.833	yes
	2	Venus 1	2	yes	VENUS	0.90 um day		7.833	yes
	3	flat 1	1	yes	DIFFUSER	diffuser		7.833	yes
	4	post-dark 1	4	no	DARK	dark		7.833	yes
ir2	5	pre-dark 1	6	no	DARK	dark		6.97	yes
	6	Venus 1	5	yes	VENUS	2.02 um		6.97	yes
	7	post-dark 1	7	no	DARK	dark		6.97	yes
lir	8	Venus 1	8	yes	VENUS	10 um	(32,32)	N/A	no

2.18 0x06_v3 (2016-09-29 --): dayside slim (IR1, IR2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
lir	7	Venus 1	7	yes	VENUS	10 um	(32,32)	N/A	no

2.19 0x07_v1 (2010-05-20 -- 2016-06-16): vicinity deluxe (UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.25	yes
	2	Venus 1	?	yes	VENUS	283 nm	NormOB	0.25	yes
	3	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.25	yes
	4	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	5	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	6	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	7	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.20 0x07_v2 (2016-06-16 -- 2016-09-29): vicinity deluxe (UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	no
	2	Venus 1	?	yes	VENUS	283 nm	NormOB	0.5	no
	3	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	no
	4	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	no
	5	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	no
	6	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	no
lir	7	Venus 1	?	yes	VENUS	10 um	(32,1)x32	N/A	no

2.21 0x07_v3 (2016-09-29 --): vicinity deluxe (UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark-0-exp 1	1	yes	SHUTTER	shutter	TopOB	0.0	no
	2	pre-dark 1	2	yes	SHUTTER	shutter	TopOB	0.5	no
	3	Venus-0-exp 1	3	yes	VENUS	283 nm	TopOB	0.0	no
	4	Venus 1	4	yes	VENUS	283 nm	TopOB	0.5	no
	5	pre-dark-0-exp 2	5	yes	SHUTTER	shutter	TopOB	0.0	no
	6	pre-dark 2	6	yes	SHUTTER	shutter	TopOB	0.046	no
	7	Venus-0-exp 2	7	yes	VENUS	365 nm	TopOB	0.0	no
	8	Venus 2	8	yes	VENUS	365 nm	TopOB	0.046	no
lir	9	Venus 1	9	yes	VENUS	10 um	(32,1)x32	N/A	no

2.22 0x08_v1 (2010-05-20 -- 2016-06-16): vicinity slim (UVIx2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	yes
	2	Venus 1	?	yes	VENUS	365 nm	NormOB	0.046	yes
	3	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	yes
	4	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	5	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	6	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	7	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.23 0x08_v2 (2016-06-16 -- 2016-09-29): vicinity slim (UVIx2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	no
	2	Venus 1	?	yes	VENUS	365 nm	NormOB	0.046	no
	3	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	no
	4	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	no
	5	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	no
	6	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	no
lir	7	Venus 1	?	yes	VENUS	10 um	(32,1)x32	N/A	no

2.24 0x08_v3 (2016-09-29 -- 2016-12-15): vicinity slim (UVIx2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark-0-exp 1	1	yes	SHUTTER	shutter	TopOB	0.0	no
	2	pre-dark 1	2	yes	SHUTTER	shutter	TopOB	0.046	no
	3	Venus-0-exp 1	3	yes	VENUS	365 nm	TopOB	0.0	no
	4	Venus 1	4	yes	VENUS	365 nm	TopOB	0.046	no
	5	pre-dark-0-exp 2	5	yes	SHUTTER	shutter	TopOB	0.0	no
	6	pre-dark 2	6	yes	SHUTTER	shutter	TopOB	0.046	no
	7	Venus-0-exp 2	7	yes	VENUS	365 nm	TopOB	0.046	no
	8	Venus 2	8	yes	VENUS	365 nm	TopOB	0.046	no
lir	9	Venus 1	9	yes	VENUS	10 um	(32,1)x32	N/A	no

2.25 0x08_v4 (2016-12-15 --): UVI for vicinity scan (UVI 365)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark-0-exp 1	1	yes	SHUTTER	shutter	TopOB	0.0	no
	2	pre-dark 1	2	yes	SHUTTER	shutter	TopOB	0.046	no
	3	Venus-0-exp 1	3	yes	VENUS	365 nm	TopOB	0.0	no
	4	Venus 1	4	yes	VENUS	365 nm	TopOB	0.046	no

2.26 0x09_v1 (2010-05-20 -- 2016-06-16): vicinity slim (UVIx7, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(32,32)	N/A	no
uvi	2	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	yes
	3	Venus 1	?	yes	VENUS	365 nm	NormOB	0.046	yes
	4	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	yes
	5	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	6	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	7	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	8	pre-dark 3	?	no	SHUTTER	shutter	NormOB	0.046	yes
	9	Venus 3	?	yes	VENUS	365 nm	NormOB	0.046	yes
	10	post-dark 3	?	no	SHUTTER	shutter	NormOB	0.046	yes
	11	pre-dark 4	?	no	SHUTTER	shutter	NormOB	0.046	yes
	12	Venus 4	?	yes	VENUS	365 nm	NormOB	0.046	yes
	13	post-dark 4	?	no	SHUTTER	shutter	NormOB	0.046	yes
	14	pre-dark 5	?	no	SHUTTER	shutter	NormOB	0.046	yes
	15	Venus 5	?	yes	VENUS	365 nm	NormOB	0.046	yes
	16	post-dark 5	?	no	SHUTTER	shutter	NormOB	0.046	yes
	17	pre-dark 6	?	no	SHUTTER	shutter	NormOB	0.046	yes
	18	Venus 6	?	yes	VENUS	365 nm	NormOB	0.046	yes
	19	post-dark 6	?	no	SHUTTER	shutter	NormOB	0.046	yes
	20	pre-dark 7	?	no	SHUTTER	shutter	NormOB	0.046	yes
	21	Venus 7	?	yes	VENUS	365 nm	NormOB	0.046	yes
	22	post-dark 7	?	no	SHUTTER	shutter	NormOB	0.046	yes

2.27 0x09_v2 (2016-06-16 -- 2016-09-29): vicinity slim (UVIx7, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(32,1)x32	N/A	no
uvi	2	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	no
	3	Venus 1	?	yes	VENUS	365 nm	NormOB	0.046	no
	4	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	no
	5	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	no
	6	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	no
	7	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	no
	8	pre-dark 3	?	no	SHUTTER	shutter	NormOB	0.046	no
	9	Venus 3	?	yes	VENUS	365 nm	NormOB	0.046	no
	10	post-dark 3	?	no	SHUTTER	shutter	NormOB	0.046	no
	11	pre-dark 4	?	no	SHUTTER	shutter	NormOB	0.046	no
	12	Venus 4	?	yes	VENUS	365 nm	NormOB	0.046	no
	13	post-dark 4	?	no	SHUTTER	shutter	NormOB	0.046	no
	14	pre-dark 5	?	no	SHUTTER	shutter	NormOB	0.046	no
	15	Venus 5	?	yes	VENUS	365 nm	NormOB	0.046	no
	16	post-dark 5	?	no	SHUTTER	shutter	NormOB	0.046	no
	17	pre-dark 6	?	no	SHUTTER	shutter	NormOB	0.046	no
	18	Venus 6	?	yes	VENUS	365 nm	NormOB	0.046	no
	19	post-dark 6	?	no	SHUTTER	shutter	NormOB	0.046	no
	20	pre-dark 7	?	no	SHUTTER	shutter	NormOB	0.046	no
	21	Venus 7	?	yes	VENUS	365 nm	NormOB	0.046	no
	22	post-dark 7	?	no	SHUTTER	shutter	NormOB	0.046	no

2.28 0x09_v3 (2016-09-29 -- 2016-12-15): vicinity slim (UVIx7, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(32,1)x32	N/A	no
uvi	2	pre-dark-0-exp 1	2	yes	SHUTTER	shutter	TopOB	0.0	no
	3	pre-dark 1	3	yes	SHUTTER	shutter	TopOB	0.046	no
	4	Venus-0-exp 1	4	yes	VENUS	365 nm	TopOB	0.0	no
	5	Venus 1	5	yes	VENUS	365 nm	TopOB	0.046	no
	6	pre-dark-0-exp 2	6	yes	SHUTTER	shutter	TopOB	0.0	no
	7	pre-dark 2	7	yes	SHUTTER	shutter	TopOB	0.046	no
	8	Venus-0-exp 2	8	yes	VENUS	365 nm	TopOB	0.0	no
	9	Venus 2	9	yes	VENUS	365 nm	TopOB	0.046	no
	10	pre-dark-0-exp 3	10	yes	SHUTTER	shutter	TopOB	0.0	no
	11	pre-dark 3	11	yes	SHUTTER	shutter	TopOB	0.046	no
	12	Venus-0-exp 3	12	yes	VENUS	365 nm	TopOB	0.0	no
	13	Venus 3	13	yes	VENUS	365 nm	TopOB	0.046	no
	14	pre-dark-0-exp 4	14	yes	SHUTTER	shutter	TopOB	0.0	no
	15	pre-dark 4	15	yes	SHUTTER	shutter	TopOB	0.046	no
	16	Venus-0-exp 4	16	yes	VENUS	365 nm	TopOB	0.0	no
	17	Venus 4	17	yes	VENUS	365 nm	TopOB	0.046	no
	18	pre-dark-0-exp 5	18	yes	SHUTTER	shutter	TopOB	0.0	no
	19	pre-dark 5	19	yes	SHUTTER	shutter	TopOB	0.046	no
	20	Venus-0-exp 5	20	yes	VENUS	365 nm	TopOB	0.0	no
	21	Venus 5	21	yes	VENUS	365 nm	TopOB	0.046	no
	22	pre-dark-0-exp 6	22	yes	SHUTTER	shutter	TopOB	0.0	no
	23	pre-dark 6	23	yes	SHUTTER	shutter	TopOB	0.046	no
	24	Venus-0-exp 6	24	yes	VENUS	365 nm	TopOB	0.0	no
	25	Venus 6	25	yes	VENUS	365 nm	TopOB	0.046	no
	26	pre-dark-0-exp 7	26	yes	SHUTTER	shutter	TopOB	0.0	no
	27	pre-dark 7	27	yes	SHUTTER	shutter	TopOB	0.046	no
	28	Venus-0-exp 7	28	yes	VENUS	365 nm	TopOB	0.0	no
	29	Venus 7	29	yes	VENUS	365 nm	TopOB	0.046	no

2.29 0x09_v4 (2016-12-15 --): Dayside slim (UVI 283, 365 + LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark-0-exp 1	?	no	SHUTTER	shutter	NormOB	0.0	yes
	2	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	3	pre-dark-0-exp 2	?	no	VENUS	283 nm	NormOB	0.0	yes
	4	Venus 1	?	yes	VENUS	283 nm	NormOB	0.5	yes
	5	post-0-exp 1	?	no	SHUTTER	shutter	NormOB	0.0	yes
	6	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	7	pre-dark-0-exp 3	?	no	SHUTTER	shutter	NormOB	0.0	no
	8	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	9	pre-dark-0-exp 4	?	no	VENUS	365 nm	NormOB	0.0	yes
	10	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	11	post-0-exp 2	?	no	SHUTTER	shutter	NormOB	0.0	yes
	12	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	no
lir	13	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.30 0x0a_v1 (2010-05-20 -- 2016-06-16): limb (IR1, UVI)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark 1	?	no	SHUTTER	shutter	NormOB	4	yes
	2	Venus 1	?	yes	VENUS	365 nm	NormOB	4	yes
	3	post-dark 1	?	no	SHUTTER	shutter	NormOB	4	yes
ir1	4	pre-dark 1	?	no	DARK	dark		30.833	no
	5	Venus 1	?	yes	VENUS	0.90 um day		30.833	no
	6	post-dark 1	?	no	DARK	dark		30.833	no

2.31 0x0a_v2 (2016-06-16 -- 2016-09-29): limb (IR1, IR2, UVI)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		30.833	no
	2	Venus 1	1	yes	VENUS	0.90 um day		30.833	no
	3	post-dark 1	3	no	DARK	dark		30.833	no
ir2	4	pre-dark 1	5	no	DARK	dark		18.97	no
	5	Venus 1	4	yes	VENUS	2.02 um		18.97	no
	6	post-dark 1	6	no	DARK	dark		18.97	no
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	4	yes
	8	Venus 1	?	yes	VENUS	365 nm	NormOB	4	yes
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	4	yes

2.32 0x0a_v3 (2016-09-29 --): limb (IR1, IR2, UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		30.833	no
	2	Venus 1	1	yes	VENUS	0.90 um day		30.833	no
	3	post-dark 1	3	no	DARK	dark		30.833	no
ir2	4	pre-dark 1	5	no	DARK	dark		18.97	no
	5	Venus 1	4	yes	VENUS	2.02 um		18.97	no
	6	post-dark 1	6	no	DARK	dark		18.97	no
uvi	7	pre-dark-0-exp 1	7	yes	SHUTTER	shutter	NormOB	0.0	no
	8	pre-dark 1	8	yes	SHUTTER	shutter	NormOB	0.5	no
	9	Venus-0-exp 1	9	yes	VENUS	283 nm	NormOB	0.0	no
	10	Venus 1	10	yes	VENUS	283 nm	NormOB	0.5	no
	11	pre-dark-0-exp 2	11	yes	SHUTTER	shutter	NormOB	0.0	no
	12	pre-dark 2	12	yes	SHUTTER	shutter	NormOB	0.046	no
	13	Venus-0-exp 2	13	yes	VENUS	365 nm	NormOB	0.0	no
	14	Venus 2	14	yes	VENUS	365 nm	NormOB	0.046	no
lir	15	Venus 1	15	yes	VENUS	10 um	(32,1)x32	N/A	no

2.33 0x0b_v1 (2010-05-20 -- 2016-06-16): nightside vicinity scan (IR2)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	2	no	DARK	dark		6.97	no
	2	Venus 1	1	yes	VENUS	2.26 um		6.97	no
	3	post-dark 1	3	no	DARK	dark		6.97	no
lir	4	Venus 1	4	yes	VENUS	10 um	(32,32)	N/A	no

2.34 0x0b_v2 (2016-06-16 -- 2016-09-29): nightside vicinity scan (IR2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	3	no	DARK	dark		6.97	no
	2	Venus 1	2	yes	VENUS	1.735 um		6.97	no
	3	Venus 2	1	yes	VENUS	2.26 um		6.97	no
	4	post-dark 1	4	no	DARK	dark		6.97	no
lir	5	Venus 1	5	yes	VENUS	10 um	(32,1)x32	N/A	no

2.35 0x0b_v3 (2016-09-29 --): nightside vicinity scan (IR2, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	3	no	DARK	dark		6.97	no
	2	Venus 1	2	yes	VENUS	1.735 um		6.97	no
	3	Venus 2	1	yes	VENUS	2.26 um		6.97	no
	4	post-dark 1	4	no	DARK	dark		6.97	no
lir	5	Venus 1	5	yes	VENUS	10 um	(32,1)x32	N/A	no

2.36 0x0c_v1 (2010-05-20 -- 2016-06-16): dayside vicinity scan (IR1, IR2, UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	no
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	no
	3	post-dark 1	3	no	DARK	dark		7.833	no
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	no
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	no
	6	post-dark 1	6	no	DARK	dark		6.97	no
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	no
	8	Venus 1	?	yes	VENUS	365 nm	NormOB	0.046	no
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	no
lir	10	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.37 0x0c_v2 (2016-06-16 -- 2016-09-29): dayside vicinity scan (IR1, IR2, UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	no
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	no
	3	post-dark 1	3	no	DARK	dark		7.833	no
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	no
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	no
	6	post-dark 1	6	no	DARK	dark		6.97	no
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	no
	8	Venus 1	?	yes	VENUS	365 nm	NormOB	0.046	no
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	no
lir	10	Venus 1	?	yes	VENUS	10 um	(32,1)x32	N/A	no

2.38 0x0c_v3 (2016-09-29 --): dayside vicinity scan (IR1, IR2, UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	no
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	no
	3	post-dark 1	3	no	DARK	dark		7.833	no
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	no
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	no
	6	post-dark 1	6	no	DARK	dark		6.97	no
uvi	7	pre-dark-0-exp 1	7	yes	SHUTTER	shutter	TopOB	0.0	no
	8	pre-dark 1	8	yes	SHUTTER	shutter	TopOB	0.046	no
	9	Venus-0-exp 1	9	yes	VENUS	365 nm	TopOB	0.0	no
	10	Venus 1	10	yes	VENUS	365 nm	TopOB	0.046	no
lir	11	Venus 1	11	yes	VENUS	10 um	(32,1)x32	N/A	no

2.39 0x0d_v1 (2010-05-20 -- 2015-09-28): zodiacal light

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	4	yes	DARK	dark		122.83	no
	2	zodiacal light 1	1	yes	ZODIACAL LIGHT	1.65 um		122.83	no
	3	zodiacal light 2	2	yes	ZODIACAL LIGHT	1.65 um		122.83	no
	4	zodiacal light 3	3	yes	ZODIACAL LIGHT	1.65 um		122.83	no
	5	post-dark 1	5	yes	DARK	dark		122.83	no

2.40 0x0d_v2 (2015-09-28 -- 2016-06-16): nightside deluxe (IR2, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	3	no	DARK	dark		6.97	yes
	2	Venus 1	2	yes	VENUS	1.735 um		6.97	yes
	3	Venus 2	1	yes	VENUS	2.26 um		6.97	yes
	4	post-dark 1	4	no	DARK	dark		6.97	yes
	5	pre-dark 2	6	no	DARK	dark		12.97	yes
	6	Venus 3	5	yes	VENUS	2.32 um		12.97	yes
	7	post-dark 2	7	no	DARK	dark		12.97	yes
lir	8	Venus 1	8	yes	VENUS	10 um	(32,32)	N/A	no

2.41 0x0d_v3 (2016-06-16 --): nightside deluxe (IR2, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	3	no	DARK	dark		6.97	yes
	2	Venus 1	2	yes	VENUS	1.735 um		6.97	yes
	3	Venus 2	1	yes	VENUS	2.26 um		6.97	yes
	4	post-dark 1	4	no	DARK	dark		6.97	yes
	5	pre-dark 2	7	no	DARK	dark		12.97	yes
	6	Venus 3	6	yes	VENUS	2.02 um		12.97	no
	7	Venus 4	5	yes	VENUS	2.32 um		12.97	yes
	8	post-dark 2	8	no	DARK	dark		12.97	yes
lir	9	Venus 1	9	yes	VENUS	10 um	(32,32)	N/A	no

2.42 0x0e_v1 (2010-05-20 -- 2015-09-28): UVI health check (flat)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	noise-0-exp 1	1	yes	SHUTTER	shutter	TopOB	0.0	no
	2	noise 1	2	yes	SHUTTER	shutter	TopOB	1.0	no
	3	flat-0-exp 1	3	yes	DIFFUSER	diffuser	TopOB	0.0	no
	4	flat 1	4	yes	DIFFUSER	diffuser	TopOB	1.0	no

2.43 0x0e_v2 (2015-09-28 -- 2016-06-16): nightside slim (IR2, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	2	no	DARK	dark		6.97	yes
	2	Venus 1	1	yes	VENUS	2.26 um		6.97	yes
	3	post-dark 1	3	no	DARK	dark		6.97	yes
lir	4	Venus 1	4	yes	VENUS	10 um	(32,32)	N/A	no

2.44 0x0e_v3 (2016-06-16 -- 2016-09-29): nightside slim (IR2, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	2	no	DARK	dark		6.97	yes
	2	Venus 1	1	yes	VENUS	2.26 um		6.97	yes
	3	post-dark 1	3	no	DARK	dark		6.97	yes
lir	4	Venus 1	4	yes	VENUS	10 um	(32,32)	N/A	no

2.45 0x0e_v4 (2016-09-29 --): nightside slim (IR2, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	2	no	DARK	dark		6.97	yes
	2	Venus 1	1	yes	VENUS	2.26 um		6.97	yes
	3	post-dark 1	3	no	DARK	dark		6.97	yes
lir	4	Venus 1	4	yes	VENUS	10 um	(32,32)	N/A	no

2.46 0x0f_v1 (2010-05-20 -- 2016-06-16): UVI lightning and stars

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark 1	?	no	SHUTTER	shutter	NormOB	11	no
	2	signal 1	?	yes	any	365 nm	NormOB	11	no
	3	post-dark 1	?	no	SHUTTER	shutter	NormOB	11	no

2.47 0x0f_v2 (2016-06-16 --): UVI lightning and stars

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark 1	?	no	SHUTTER	shutter	NormOB	11	no
	2	signal 1	?	yes	any	283 nm	NormOB	11	no
	3	post-dark 1	?	no	SHUTTER	shutter	NormOB	11	no
	4	pre-dark 1	?	no	SHUTTER	shutter	NormOB	11	no
	5	signal 2	?	yes	any	365 nm	NormOB	11	no
	6	post-dark 1	?	no	SHUTTER	shutter	NormOB	11	no

2.48 0x10_v1 (2010-05-20 -- 2016-06-16): UVI health check (TOP OB)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	noise-0-exp 1	1	yes	SHUTTER	shutter	TopOB	0.0	no
	2	noise 1	2	yes	SHUTTER	shutter	TopOB	0.25	no
	3	signal-0-exp 1	3	yes	any	283 nm	TopOB	0.0	no
	4	signal 1	4	yes	any	283 nm	TopOB	0.25	no
	5	signal-0-exp 2	5	yes	any	365 nm	TopOB	0.0	no
	6	signal 2	6	yes	any	365 nm	TopOB	0.046	no
	7	noise-0-exp 2	7	yes	SHUTTER	shutter	TopOB	0.0	no
	8	noise 2	8	yes	SHUTTER	shutter	TopOB	0.046	no

2.49 0x10_v2 (2016-06-16 --): UVI health check (TOP OB)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	noise-0-exp 1	1	yes	SHUTTER	shutter	TopOB	0.0	no
	2	noise 1	2	yes	SHUTTER	shutter	TopOB	0.5	no
	3	signal-0-exp 1	3	yes	any	283 nm	TopOB	0.0	no
	4	signal 1	4	yes	any	283 nm	TopOB	0.5	no
	5	signal-0-exp 2	5	yes	any	365 nm	TopOB	0.0	no
	6	signal 2	6	yes	any	365 nm	TopOB	0.046	no
	7	noise-0-exp 2	7	yes	SHUTTER	shutter	TopOB	0.0	no
	8	noise 2	8	yes	SHUTTER	shutter	TopOB	0.046	no

2.50 0x11_v1 (2010-05-20 -- 2011-01-01): IR1 nightside all wavelengths

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		10.833	no
	2	star 1	2	yes	STAR	0.97 um		10.833	no
	3	star 2	1	yes	STAR	1.01 um		10.833	no
	4	post-dark 1	4	no	DARK	dark		10.833	no
	5	pre-dark 2	6	no	DARK	dark		10.833	no
	6	star 3	5	yes	STAR	0.90 um night		10.833	no
	7	post-dark 2	7	no	DARK	dark		10.833	no

2.51 0x11_v2 (2011-01-01 -- 2016-09-29): IR1 nightside all wavelengths

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		30.833	no
	2	star 1	2	yes	STAR	0.97 um		30.833	no
	3	star 2	1	yes	STAR	1.01 um		30.833	no
	4	post-dark 1	4	no	DARK	dark		30.833	no
	5	pre-dark 2	6	no	DARK	dark		30.833	no
	6	star 3	5	yes	STAR	0.90 um night		30.833	no
	7	post-dark 2	7	no	DARK	dark		30.833	no

2.52 0x11_v3 (2016-09-29 --): IR1 nightside all wavelengths

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		30.833	no
	2	star 1	2	yes	STAR	0.97 um		30.833	no
	3	star 2	1	yes	STAR	1.01 um		30.833	no
	4	post-dark 1	4	no	DARK	dark		30.833	no
	5	pre-dark 2	6	no	DARK	dark		30.833	no
	6	star 3	5	yes	STAR	0.90 um night		30.833	no
	7	post-dark 2	7	no	DARK	dark		30.833	no

2.53 0x12_v1 (2010-05-20 -- 2016-09-29): IR2 nightside all wavelengths

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	3	no	DARK	dark		18.97	no
	2	star 1	2	yes	STAR	1.735 um		18.97	no
	3	star 2	1	yes	STAR	2.32 um		18.97	no
	4	post-dark 1	4	no	DARK	dark		18.97	no
	5	pre-dark 2	6	no	DARK	dark		12.97	no
	6	star 3	5	yes	STAR	2.26		12.97	no
	7	post-dark 2	7	no	DARK	dark		12.97	no

2.54 0x12_v2 (2016-09-29 --): IR2 nightside all wavelengths

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	3	no	DARK	dark		18.97	no
	2	star 1	2	yes	STAR	1.735 um		18.97	no
	3	star 2	1	yes	STAR	2.32 um		18.97	no
	4	post-dark 1	4	no	DARK	dark		18.97	no
	5	pre-dark 2	6	no	DARK	dark		12.97	no
	6	star 3	5	yes	STAR	2.26		12.97	no
	7	post-dark 2	7	no	DARK	dark		12.97	no

2.55 0x13_v1 (2010-05-20 -- 2016-06-16): IR1 health check

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK			7.833	no
	2	cal. lamp	2	yes	CAL	DARK		7.833	no
	3	ext. light 1	1	yes	EXTERNAL LIGHT	0.90 um day		7.833	no
	4	post-dark 1	4	no	DARK	dark		7.833	no

2.56 0x13_v2 (2016-06-16 --): IR1 health check

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		7.833	no
	2	cal. lamp	2	yes	CAL	DARK		7.833	no
	3	ext. light 1	1	yes	EXTERNAL LIGHT	0.90 um day		7.833	no
	4	post-dark 1	4	no	DARK	dark		7.833	no

2.57 0x14_v1 (2010-05-20 -- 2016-06-16): IR2 health check

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	3	no	DARK	dark		6.97	no
	2	cal. lamp	2	yes	CAL	DARK		6.97	no
	3	ext. light 1	1	yes	EXTERNAL LIGHT	2.02 um		6.97	no
	4	post-dark 1	4	no	DARK	dark		6.97	no

2.58 0x14_v2 (2016-06-16 --): IR2 health check

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir2	1	pre-dark 1	3	no	DARK	dark		6.97	no
	2	cal. lamp	2	yes	CAL	DARK		6.97	no
	3	ext. light 1	1	yes	EXTERNAL LIGHT	2.02 um		6.97	no
	4	post-dark 1	4	no	DARK	dark		6.97	no

2.59 0x15_v1 (2010-05-20 -- 2016-06-16): IR1 flat

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	flat 1	1	yes	DIFFUSER	diffuser		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes

2.60 0x15_v2 (2016-06-16 -- 2016-09-29): IR1 flat

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	4	yes	DARK	dark		7.833	no
	2	flat 1	1	yes	DIFFUSER	diffuser		7.833	no
	3	flat 2	2	yes	DIFFUSER	diffuser		7.833	no
	4	flat 3	3	yes	DIFFUSER	diffuser		7.833	no
	5	post-dark 1	5	yes	DARK	dark		7.833	no

2.61 0x15_v3 (2016-09-29 -- 2017-10-11): IR1 smear correction

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	0.90 um signal 1	?	yes	unknown	0.90 um day		14.229	yes
	2	0.90 um smear 1	?	yes	unknown	0.90 um day		14.229	yes
	3	dark signal 1	?	yes	DARK	dark		14.229	yes
	4	dark smear 1	?	yes	DARK	dark		14.229	yes

2.62 0x15_v4 (2017-10-11 --): Dayside slim for large phase angle (UVI 283, 365 + LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	pre-dark-0-exp 1	?	no	SHUTTER	shutter	NormOB	0.0	yes
	2	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.18	yes
	3	pre-dark-0-exp 2	?	no	VENUS	283 nm	NormOB	0.0	yes
	4	Venus 1	?	yes	VENUS	283 nm	NormOB	0.18	yes
	5	post-0-exp 1	?	no	SHUTTER	shutter	NormOB	0.0	yes
	6	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.18	yes
	7	pre-dark-0-exp 3	?	no	SHUTTER	shutter	NormOB	0.0	no
	8	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.016	yes
	9	pre-dark-0-exp 4	?	no	VENUS	365 nm	NormOB	0.0	yes
	10	Venus 2	?	yes	VENUS	365 nm	NormOB	0.016	yes
	11	post-0-exp 2	?	no	SHUTTER	shutter	NormOB	0.0	yes
	12	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.016	no
lir	13	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.63 0x16_v1 (2010-05-20 -- 2016-09-29): LIR single 1

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(1,1)	N/A	no

2.64 0x16_v2 (2016-09-29 --): LIR m032_n001

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(32,1)	N/A	no

2.65 0x17_v1 (2010-05-20 -- 2015-09-28): LIR single 2

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(1,1)	N/A	no

2.66 0x17_v2 (2015-09-28 -- 2016-06-16): dayside deluxe (IR1, IR2, UVI, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.25	yes
	8	Venus 1	?	yes	VENUS	283 nm	NormOB	0.25	yes
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.25	yes
	10	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	11	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	12	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	13	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.67 0x17_v3 (2016-06-16 -- 2016-09-29): dayside deluxe (IR1, IR2, UVI, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	8	Venus 1	?	yes	VENUS	283 nm	NormOB	0.5	yes
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	10	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	11	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	12	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	13	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.68 0x17_v4 (2016-09-29 --): dayside deluxe (IR1, IR2, UVI, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	8	Venus 1	?	yes	VENUS	283 nm	NormOB	0.5	yes
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	10	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	11	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	12	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	13	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.69 0x18_v1 (2010-05-20 --): LIR single 3

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(1,1)	N/A	no

2.70 0x19_v1 (2010-05-20 --): LIR_m032_n032

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(32,32)	N/A	no

2.71 0x1a_v1 (2010-05-20 -- 2016-06-16): UVI exposure time test

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	signal 1	?	yes	any	283 nm	NormOB	0	no
	2	signal 2	?	yes	any	283 nm	NormOB	0.09	no
	3	signal 3	?	yes	any	283 nm	NormOB	0.128	no
	4	signal 4	?	yes	any	283 nm	NormOB	0.18	no
	5	signal 5	?	yes	any	283 nm	NormOB	0.25	no
	6	signal 6	?	yes	any	283 nm	NormOB	0.357	no
	7	signal 7	?	yes	any	283 nm	NormOB	0.5	no
	8	signal 8	?	yes	any	283 nm	NormOB	0.714	no
	9	signal 9	?	yes	any	365 nm	NormOB	0	no
	10	signal 10	?	yes	any	365 nm	NormOB	0.016	no
	11	signal 11	?	yes	any	365 nm	NormOB	0.0228	no
	12	signal 12	?	yes	any	365 nm	NormOB	0.032	no
	13	signal 13	?	yes	any	365 nm	NormOB	0.046	no
	14	signal 14	?	yes	any	365 nm	NormOB	0.064	no
	15	signal 15	?	yes	any	365 nm	NormOB	0.09	no
	16	signal 16	?	yes	any	365 nm	NormOB	0.128	no

2.72 0x1a_v2 (2016-06-16 -- 2016-09-29): UVI health check (Diffuser flat)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	noise-0-exp 1	1	yes	SHUTTER	shutter	TopOB	0.0	no
	2	noise 1	2	yes	SHUTTER	shutter	TopOB	0.046	no
	3	signal-0-exp 1	3	yes	DIFFUSER	diffuser	TopOB	0.0	no
	4	signal 1	4	yes	DIFFUSER	diffuser	TopOB	0.046	no

2.73 0x1a_v3 (2016-09-29 --): UVI health check (Diffuser flat)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
uvi	1	noise-0-exp 1	1	yes	SHUTTER	shutter	NormOB	0.0	no
	2	noise 1	2	yes	SHUTTER	shutter	NormOB	0.046	no
	3	signal-0-exp 1	3	yes	DIFFUSER	diffuser	NormOB	0.0	no
	4	signal 1	4	yes	DIFFUSER	diffuser	NormOB	0.046	no

2.74 0x1b_v1 (2010-05-20 -- 2011-01-01): IR1 health check

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		7.833	no
	2	cal. lamp	2	yes	CAL	dark		7.833	no
	3	Venus 1	1	yes	VENUS	0.90 um day		7.833	no
	4	post-dark 1	4	no	DARK	dark		7.833	no

2.75 0x1b_v2 (2011-01-01 -- 2011-03-02): Venus photometry

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	no
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	no
	3	post-dark 1	3	no	DARK	dark		7.833	no
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	no
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	no
	6	post-dark 1	6	no	DARK	dark		6.97	no
uvi	7	pre-dark-0-exp 1	?	no	SHUTTER	shutter	NormOB	0.0	no
	8	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.25	no
	9	Venus-0-exp 1	?	no	VENUS	283 nm	NormOB	0.0	no
	10	Venus 1	?	yes	VENUS	283 nm	NormOB	0.25	no
	11	post-dark-0-exp 1	?	no	SHUTTER	shutter	NormOB	0.0	no
	12	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.25	no
	13	pre-dark-0-exp 2	?	no	SHUTTER	shutter	NormOB	0.0	no
	14	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	no
	15	Venus-0-exp 2	?	no	VENUS	365 nm	NormOB	0.0	no
	16	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	no
	17	post-dark-0-exp 2	?	no	SHUTTER	shutter	NormOB	0.0	no
18	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	no	
lir	19	Venus 1	?	yes	VENUS	10 um	(1,1)	N/A	no
	20	Venus 2	?	yes	VENUS	10 um	(32,32)	N/A	no

2.76 0x1b_v3 (2011-03-02 -- 2015-09-28): Venus photometry

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	no
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	no
	3	post-dark 1	3	no	DARK	dark		7.833	no
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	no
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	no
	6	post-dark 1	6	no	DARK	dark		6.97	no
uvi	7	pre-dark-0-exp 1	?	no	SHUTTER	shutter	NormOB	0.0	no
	8	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.714	no
	9	Venus-0-exp 1	?	no	VENUS	283 nm	NormOB	0.0	no
	10	Venus 1	?	yes	VENUS	283 nm	NormOB	0.714	no
	11	post-dark-0-exp 1	?	no	SHUTTER	shutter	NormOB	0.0	no
	12	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.714	no
	13	pre-dark-0-exp 2	?	no	SHUTTER	shutter	NormOB	0.0	no
	14	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.09	no
	15	Venus-0-exp 2	?	no	VENUS	365 nm	NormOB	0.0	no
	16	Venus 2	?	yes	VENUS	365 nm	NormOB	0.09	no
	17	post-dark-0-exp 2	?	no	SHUTTER	shutter	NormOB	0.0	no
18	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.09	no	
lir	19	Venus 1	?	yes	VENUS	10 um	(1,1)	N/A	no
	20	Venus 2	?	yes	VENUS	10 um	(32,32)	N/A	no

2.77 0x1b_v4 (2015-09-28 -- 2016-06-16): IR1 nightside deluxe ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		30.833	yes
	2	Venus 1	2	yes	VENUS	0.97 um		30.833	yes
	3	Venus 2	1	yes	VENUS	1.01 um		30.833	yes
	4	post-dark 1	4	no	DARK	dark		30.833	yes
	5	pre-dark 2	6	no	DARK	dark		30.833	yes
	6	Venus 3	5	yes	VENUS	0.90 um night		30.833	yes
	7	post-dark 2	7	no	DARK	dark		30.833	yes

2.78 0x1b_v5 (2016-06-16 -- 2016-09-29): IR1 nightside deluxe ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		30.833	yes
	2	Venus 1	2	yes	VENUS	0.97 um		30.833	yes
	3	Venus 2	1	yes	VENUS	1.01 um		30.833	yes
	4	post-dark 1	4	no	DARK	dark		30.833	yes
	5	pre-dark 2	6	no	DARK	dark		30.833	yes
	6	Venus 3	5	yes	VENUS	0.90 um night		30.833	yes
	7	post-dark 2	7	no	DARK	dark		30.833	yes

2.79 0x1b_v6 (2016-09-29 --): dayside deluxe (IR1 smear correction, IR2, UVI, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	dark signal 1	?	no	DARK	dark		7.833	yes
	2	0.90 um signal 1	?	yes	VENUS	0.90 um day		7.833	yes
	3	0.90 um smear 1	?	no	VENUS	0.90 um day		7.833	yes
	3	dark smear 1	?	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	?	no	DARK	dark		6.97	yes
	5	Venus 1	?	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	?	no	DARK	dark		6.97	yes
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	8	Venus 1	?	yes	VENUS	283 nm	NormOB	0.5	yes
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.5	yes
	10	pre-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
	11	Venus 2	?	yes	VENUS	365 nm	NormOB	0.046	yes
	12	post-dark 2	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	13	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.80 0x1c_v1 (2010-05-20 -- 2015-09-28): invalid

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	3	no	DARK	dark		7.833	no
	2	cal. lamp	2	yes	CAL	dark		7.833	no
	3	signal 1	1	yes	any	0.90 um day		7.833	no
	4	post-dark 1	4	no	DARK	dark		7.833	no
ir2	5	pre-dark 1	7	no	DARK	dark		6.97	no
	6	cal. lamp	6	yes	CAL	DARK		6.97	no
	7	signal 1	5	yes	any	2.02 um		6.97	no
	8	post-dark 1	8	no	DARK	dark		6.97	no

2.81 0x1c_v2 (2015-09-28 -- 2016-06-16): IR1 nightside slim ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		30.833	yes
	2	Venus 1	1	yes	VENUS	1.01 um		30.833	yes
	3	post-dark 1	3	no	DARK	dark		30.833	yes

2.82 0x1c_v3 (2016-06-16 -- 2016-09-29): IR1 nightside slim ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		30.833	yes
	2	Venus 1	1	yes	VENUS	1.01 um		30.833	yes
	3	post-dark 1	3	no	DARK	dark		30.833	yes

2.83 0x1c_v4 (2016-09-29 --): IR1 flat (smear correction)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	diffuser signal 1	?	yes	DIFFUSER	diffuser		7.833	yes
	2	diffuser smear 1	?	yes	DIFFUSER	diffuser		7.833	yes
	3	dark signal 1	?	yes	DARK	dark		7.833	yes
	4	dark smear 1	?	yes	DARK	dark		7.833	yes

2.84 0x1d_v1 (2010-05-20 -- 2016-06-16): LIR raw data for health check

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(128,32)	N/A	no
	2	Venus 2	2	yes	VENUS	10 um	(64,32)	N/A	no
	3	Venus 3	3	yes	VENUS	10 um	(32,32)	N/A	no
	4	Venus 4	4	yes	VENUS	10 um	(16,32)	N/A	no
	5	Venus 5	5	yes	VENUS	10 um	(8,32)	N/A	no
	6	Venus 6	6	yes	VENUS	10 um	(4,32)	N/A	no
	7	Venus 7	7	yes	VENUS	10 um	(2,32)	N/A	no
	8	Venus 8	8	yes	VENUS	10 um	(1,32)	N/A	no

2.85 0x1d_v2 (2016-06-16 -- 2016-09-29): LIR for vicinity scan

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(32,1)x32	N/A	no

2.86 0x1d_v3 (2016-09-29 --): LIR for vicinity scan

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
lir	1	Venus 1	1	yes	VENUS	10 um	(32,1)x32	N/A	no

2.87 0x1e_v1 (2010-05-20 --): LIR OFPN setup sequence

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
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2.88 0x1f_v1 (2010-05-20 -- 2015-09-28): Earth (IR1, IR2, UVI, LIR)

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	no
	2	Earth	1	yes	EARTH	0.90 um day		7.833	no
	3	post-dark 1	3	no	DARK	dark		7.833	no
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	no
	5	Earth	4	yes	EARTH	2.02 um		6.97	no
	6	post-dark 1	6	no	DARK	dark		6.97	no
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.128	no
	8	Earth 1	?	yes	EARTH	365 nm	NormOB	0.128	no
	9	Earth 2	?	yes	EARTH	365 nm	NormOB	0.09	no
	10	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.128	no
lir	11	Venus 1	?	yes	VENUS	10 um	(1,1)	N/A	no
	12	Venus 2	?	yes	VENUS	10 um	(32,32)	N/A	no

2.89 0x1f_v2 (2015-09-28 -- 2016-06-16): dayside slim (IR1, IR2, UVI, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
uvi	7	pre-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	yes
	8	Venus 1	?	yes	VENUS	365 nm	NormOB	0.046	yes
	9	post-dark 1	?	no	SHUTTER	shutter	NormOB	0.046	yes
lir	10	Venus 1	?	yes	VENUS	10 um	(32,32)	N/A	no

2.90 0x1f_v3 (2016-06-16 -- 2016-09-29): dayside slim (IR1, IR2, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
lir	7	Venus 1	7	yes	VENUS	10 um	(32,32)	N/A	no

2.91 0x1f_v4 (2016-09-29 --): dayside slim (IR1, IR2, LIR) ROI

cam	#	kind	rec-#	rec?	object	filter	mode	exp (s)	median?
ir1	1	pre-dark 1	2	no	DARK	dark		7.833	yes
	2	Venus 1	1	yes	VENUS	0.90 um day		7.833	yes
	3	post-dark 1	3	no	DARK	dark		7.833	yes
ir2	4	pre-dark 1	5	no	DARK	dark		6.97	yes
	5	Venus 1	4	yes	VENUS	2.02 um		6.97	yes
	6	post-dark 1	6	no	DARK	dark		6.97	yes
lir	7	Venus 1	7	yes	VENUS	10 um	(32,32)	N/A	no