

Catalog of observations with LOFAR CS1

All Measurement Set observations (not pulsar observations or RFI observations) appear on the storage cluster **lifs001** to **lifs012** in files **/data/Lyyyy_nnnnn** where:

- **L**: is for LOFAR
- **yyyy**: for the year (currently 2007)
- **nnnnn**: is a (5-digit) sequence number

A recent list of all observations on the off-line storage systems can be made with a script called **lofstorman** on listfen. Once they are nominated to be archived, you'll find them in directory **/data/archive** of lifs001 till lifs012. After 4 weeks the data will be moved to GRID archive storage to free up space for new data. Ask Teun Grit or Adriaan Renting to retrieve older data if you have no DutchGrid access yourself.

Data labeled as "grid" is already stored at the DutchGrid at Sara, Amsterdam. There it will be kept on disk for a while, where after it will be taped. You need to be a registered grid user to fetch data from the grid. More information about accessing GRID resources can be found on the [GRID User Interface](#) page. You may want to [view the Lofar VO contents list on the grid](#)

For more information about the status of the CS1 system have a look at the [LOFAR log environment](#) and the presentations presented at the LOFAR Status Meeting.

Catalog

MS Name	Obs.date	Duration(h)	Stored	#stat(dip)	#subbands	Clock(MHz)	UVW ¹⁾	Source	Comments (more discussion)	Purpose	
TAU_cs010c_2009_13feb_1930.cor	20090304	15 min	lifs010	1(48)	46	200		TAU.A	all LBA's at CS010.	vlbi test	TBD
TAU_de001c_2009_13feb_1930.cor	20090304	15 min	lifs010	1(96)	46	200		TAU.A	all LBA's at Effelsberg.	vlbi test	TBD
CYG_cs010c_2009_13feb_1200.cor	20090304	15 min	lifs005	1(48)	46	200		CYG.A	all LBA's at CS010.	vlbi test	TBD
CYG_de001c_2009_13feb_1200.cor	20090304	15 min	lifs005	1(96)	46	200		CYG.A	all LBA's at Effelsberg.	vlbi test	TBD
2009-10659	20090206/0208	48h	lifs001-012	12D	46	200		Cas A	12 LBAs in 12 micro-station mode.	test	TBD
pulsar20090206.cor	20090206	1h	list002	1(4T)	40	200		pulsar	PSR B1919+21 tile1,2,5,6 in CS010.	test	TBD
2009-10650	20090205	22.5h	lifs001-012	???	??	200		CasA	LBA's of CS001C,CS010C and CS016C SAS/MAC/CEP test by Arno S.	test	TBD
2009-10609 till 10613	20090131/0201	4hx5	lifs001-012	12D	46	200		NCP	12 LBAs work as the 12 micro-station mode, the frequency mosaic.	test	TBD
2009-10599 till 10605	20090130/0131	4hx7	lifs001-012	12D	46	200		NCP	12 LBAs work as the 12 micro-station mode, the frequency mosaic.	test	TBD
2009-10542	20090126	24h	lifs001-012	12D	46	200		CasA	12 LBA dipoles as 12 micro-stations mode	test	TBD
2009-10437	20090116	2h	lifs001-012	12D	46	160		CasA	12 LBA dipoles as 12 micro-stations mode	test	TBD
2008-09606 till 09617	20081107/09	4hx12	lifs001-012	12D	46	160		NCP	12 LBA dipoles as 12 micro-stations mode, frequency mosaic mode.	test	TBD
B0329+54	20081105	2hx3	lifs011	1(1T)	46	200		pulsar	PSR B0329+54, three observations, each with one tile, they are Tile1,2,6 in CS010, BeamServer.HBA_INTERVAL=10	test	TBD
B0329+54	20081105	2h	lifs012	1(1T)	46	200		pulsar	PSR B0329+54, Tile5 in CS010, BeamServer.HBA_INTERVAL=10	test	TBD
2008-09354	20081028	16	lifs001-012	2(8D)	46	200		CygA	8 micro station mode with LBH dipoles	test	TBD
2008-09315 till 2008-09320	20081024/25	6x4hours	lifs001-012	3(8D)	46	200		NCP	12 microstation with 4 LBA dipoles Frequency mosaic observation	test	TBD
2008-09252	20081017	48	lifs001-012	3(8D,4T)	46	200		CasA	12 micro station mode with HBA dipoles and tiles	test	TBD
pulsar20081015.cor	20081016	2h	lifs002	1(4T)	46	200		pulsar	PSR B0329+54, Tile1,2,5,6 in CS010, BeamServer.HBA_INTERVAL=10	test	TBD
2008-09202	20081010	48	lifs001-012	3(8D,4T)	46	200		CasA	12 micro station mode with HBA dipoles and tiles	test	TBD
pulsar20081010.cor	20081010	1h	lifs002	1(4T)	46	200		pulsar	PSR B0329+54 tile1,2,5,6 in CS010. The data of pulsar20081010.cor has been deleted in lifs002(requested by Joeri van Leeuwen)	test	TBD
pulsar20081008.cor	20081008	1h	lifs001	1(4T)	46	200		pulsar	PSR B1237+25 tile1,2,5,6 in CS010. The data of pulsar20081008.cor has been deleted in lifs001(agreed by Jason Hessels).	test	TBD
2008-09124	20081003	64	lifs002	3(12D)	36	200		CASA	12 micro stations, LBA	Testobservation with new Blue Gene	TBD
2008-07190	20080615	24	lifs007	6(20D,4T)	12	200		TauA	24 micro stations, Tile2,3,4,5 are used in CS032	Conjunction Sun and Tau A	TBD
2008-07189	20080614	24	lifs007	6(20D,4T)	12	200		TauA	24 micro stations, Tile2,3,4,5 are used in CS032	Conjunction Sun and Tau A	TBD

MS Name	Obs.date	Duration(h)	Stored	#stat(dip)	#subbands	Clock(MHz)	UVW ¹⁾	Source	Comments (more discussion)	Purpose	
2008-07187	20080613	24	lifs007	6(20D,4T)	12	200		TauA	24 micro stations, Tile2,3,4,5 are used in CS032; from 05:57 UT till 11:50 UT the tiles in CS032 gave no signal	Conjunction Sun and Tau A	TBD
2008-07185	20080612	24	lifs007	4(16D)	48	200		NCP	16 micro stations each with one LBA	Find cause of interference	TBD
2008-07175	20080611	24	lifs010	4(16D)	48	160		NCP	16 micro stations each with one LBA.	To find the source of the interference.	TBD
2008-07174	20080611	1	lifs001	4(16D)	36	200		NCP	16 micro stations each with one LBA.	test of CEPpeople to test the BG/P software	TBD
2008-07173	20080610	2.5	lifs001	4(16D)	48	160		NCP	16 micro stations each with one LBA.	To find the source of the interference.	TBD
2008-07170	20080609	24	lifs001	1(4T)	36	200		NCP	CS010: Tile 1,2,3 and 4	The LNAs switched on (1 min) and off (10 min) periodically	TBD
2008-07168	20080606	44.5	lifs006	4(16D)	36	200		NCP	16 micro stations each with one LBA.	test	TBD
2008-07166	20080605	20	lifs002	4(16D)	36	200		NCP	16 micro stations each with one LBA. The bandpass correction test.	test	TBD
2008-06987	20080530	48	lifs002	4(16D)	36	200		NCP	16 micro stations each with one LBA.	test	TBD
2008-06986	20080530	4h	lifs001	4(12D,4T)	36	200		PSR-B1937+21	polarization properties of the HBA tiles(T5,T2,T3,T4)	test	TBD
2008-06981	20080529	4h	lifs001	4(12D,4T)	36	200		TAU.A	polarization properties of the HBA tiles(T5,T2,T3,T4)	test	TBD
DE001C_LBAtest_CYG_20080527.cor	20080527	10 min	lifs005	lba	4	200		CYG.A	Lower bandpass of RCU74	LBAtest	TBD
CS010c_lbaT_CYG_20080527.cor	20080527	10 min	lifs005	lba	4	200		CYG.A		LBAtest	TBD
DE001C_LBAtest_TAU_20080526.cor	20080526	10 min	lifs005	lba	4	200		TAU.A	Lower bandpass of RCU74 and RCU190	LBAtest	TBD
CS010c_lbaT_TAU_20080526.cor	20080526	10 min	lifs005	lba	4	200		TAU.A		LBAtest	TBD
2008-06973	20080527	16	lifs003	4(16D)	36	200		NCP	16 micro stations each with one LBA.	test of CEPpeople to test the BG/P software	TBD
DE001C_LBAtest_CYG_20080527.out	20080527	10 min	lifs005	lba	4	200		CYG.A	Lower bandpass of RCU74	LBAtest	TBD
CS010c_lbaT_CYG_20080527.out	20080527	10 min	lifs005	lba	4	200		CYG.A		LBAtest	TBD
DE001C_LBAtest_TAU_20080526.out	20080526	10 min	lifs005	lba	4	200		TAU.A	Lower bandpass of RCU74 and RCU190	LBAtest	TBD
CS010c_lbaT_TAU_20080526.out	20080526	10 min	lifs005	lba	4	200		TAU.A		LBAtest	TBD
2008-06958	20080523	48	lifs001	4(16D)	36	200		NCP	16 micro stations each with one LBA.	test	TBD
2008-06880	20080516	48	lifs002	6(20D,4T)	12	200		CasA	24 micro stations, Tile2,3,4,5 are used in CS032	test	TBD
2008-06863	20080515	2h	lifs001	4(4D)	12	200		CasA	4 micro stations in CS030, HBA, integration=1 scond	test	TBD
Pulsar_20080514.cor	20080514	4h	lifs004	1(5T)	48	160		pulsar	a pulsar obs with tile1,2,3,4,5 in CS010	test	TBD
2008-06807	20080513	2h	lifs011	6(20D,4T)	12	200		CasA	24 station mode;CS032 uses tile 5 and 6 iso 1 and 2	test	TBD
2008-06676	20080509	48h	lifs005	6(20D,4T)	12	200		CasA	24 station mode;CS032 uses tile 5 and 6 iso 1 and 2;But it appears that after 8 hours normal observing all the data was flagged.16:50 UT	test	TBD
2008-06591	20080508	4	lifs005	4(12D,4T)	18	200		CygA	Find the cause of autocorrelation dips ,delay tracking on CEP off, beamtracking off on stations. Manual pointing on Cyg A is done by a special script of Stefan Wynholds	test	TBD
2008-06583	20080507	4	lifs005	4(12D,4T)	18	200		CygA	Find the cause of autocorrelation dips ,delay tracking on CEP off	test	TBD
2008-06577	20080507	4	lifs005	4(12D,4T)	18	200		CygA	Find the cause of autocorrelation dips repeat of 2008-05702	test	TBD
2008-06308	20080425	48h	lifs009	6(20D,4T)	12	200		CygA	1)check 24 station mode; 2)Milky way maps; 3)raincheck for tile 4. CS001 rcu8,9 nok;BF-Gain all 6 stations increased from 8000 -->32000	test	TBD
2008-06100	20080418	48h	lifs011	6(20D,4T)	12	200		CygA	1)check 24 station mode; 2)Milky way maps; 3)raincheck for tile 4. CS001 rcu8,9 nok;	test	TBD
2008-06099	20080418	30 min	lifs003	4(20D,4T)	12	200		CygA	fringecheck; CS001 rcu8,9 nok	test	TBD
B0329+54_20080417.out	20080417	180 min	lifs012	6T	48	160		B0329+54	Tracking experiment	test	TBD
2008-06078	20080411	48h	lifs008	6(20D,4T)	12	200		CygA	1)check 24 station mode; 2)Milky way maps; 3)raincheck for tile 4. CS001 rcu8,9 nok;	test	TBD
jupiterCS001t_20080410.out	20080410	60 min	lifs008	lba	48	160		Jupiter		test	TBD
jupiterCS010c_20080410.out	20080410	60 min	lifs007	lba	48	160		Jupiter		test	TBD
2008-06060	20080410	30 min	lifs004	4(12D,4T)	36	200		CasA	fringecheck; CS001 rcu8,9 nok	test	TBD
2008-05979	20080404	~45h	lifs003	4(12D,4T)	36	200		CasA	raincheck for tile 4. CS001 rcu8,9 nok;CS016 rcu 0,1 nok;CS008 beamlet 54:89 nok. Stopped early due to full disk system. Later on it turned out that this observation was done with the wrong nyquist zone. Should have been 2 but was done with 3	test	TBD
B0329.out3	20080318	30 min	lifs002	6T	24	160		Zenith	drift scan experiment second run see also B0329.out	test	TBD
B0329.out2	20080317	30 min	lifs002	6T	24	160		Zenith	drift scan experiment second run see also B0329.out	test	TBD
2008-05816	20080314	~63	lifs008	4(12D,4T)	18	160		CygA	the beam tracking experiment. in CS001 rcu8,9 no Amps or Amps unstable.	test	TBD
2008-05813	20080314	~1	lifs001	4(12D,4T)	18	160		CygA	the beam tracking experiment. in CS001 rcu8,9 no Amps or Amps unstable. Stopped by accident follow up is 2008_05816	test	TBD
2008-05805	20080313	~20	lifs001	4(12D,4T)	18	160		CygA	the beam tracking experiment. in CS001 rcu8,9 no Amps or Amps unstable. Stopped by accident follow up is 2008_05813	test	TBD
B0329.out	20080313	15 min	lifs002	6T	24	160		Zenith	drift scan experiment.	test	TBD
2008-05800	20080313	1	lifs002	4(12D,4T)	1	200		CygA/CasA/NCP	CS010: Array: HBA Pointing Target tile 5 & 2: Cas A Pointing Target tile 3 & 4: Cyg A. CS001, CS008, CS016: HBA0 & HBA3 tracking Cyg A ,HBA1 & HBA2 tracking Cas A	test	TBD
2008-05702	20080307	66	lifs002	4(12D,4T)	18	200		CygA	the beam tracking experiment. in CS016 HBA0 doesn't work. in CS001 rcu8,9 no Amps or Amps unstable.	test	TBD
2008-05660	20080304	14	lifs001	4(12D,4T)	18	200		CygA	the beam tracking experiment.	test	TBD
2008-05340	20080204	24	lifs003	4(12D,4T)	36	200		CasA	the beam tracking experiment	test	TBD

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2008-05339	20080201	62	lifs002	4(12D,4T)	36	200		NCP	the same as 05326, but the beams of 4 tiles: Tile3, 0.40,-0.42, LOFAR_LMN; Tile4,-0.35,-0.60,LOFAR_LMN; Tile5,-0.40,0.25,LOFAR_LMN; Tile6,0.58,0.0,LOFAR_LMN.	test	TBD
2008-05338	20080131	24	lifs005	4(12D,4T)	36	200		NCP	the same as 05326, but the beams of 4 tiles in CS010 point to 0,-0.22,LOFAR_LMN.	test	TBD
2008-05337	20080130	24	lifs001	4(12D,4T)	36	200		NCP	the same as 05326	test	TBD
2008-05326	20080128	14	lifs002	4(12D,4T)	36	200		NCP	CS001,008,016:HBA0,4,8,12. CS010:HBA_Tile3,4,5,6,(16 micro stations)The beams of HBA_dipoles in CS001,008,016 pointing to NCP at J2000. The beams of HBA_Tiles in CS010 pointing to the zenith at LOFAR_LMN. The phase tracking center of OLAP is NCP at J2000	test	TBD
2008-05199	20080117	3.5	lifs003	4 (16)	36	200		NCP	a test observation of LBA(CS001,008,010: RSP ring ON; CS016: RSP ring OFF). All four stations: dipole0,4,8,12.	test	TBD
2007-05017	27December07	48	lifs008	4 (16)	36	200		NCP	48 hour observation 16 microstations including 2 tiles	Long term stability test	keep
2007-05015	24December07	48	lifs007	4 (16)	36	200		NCP	48 hour observation 16 microstations including 2 tiles CS001 CS008 CS010 : imaginary parts of all visibilities within the stations are zero, all baselines between these stations do have non-zero phases. CS016 appears to be fine. In CS016, the ring was switched off, the others had the ring switched on. To be continued...	Long term stability test	keep
2007-04783	10December07	48	lifs010	4 (18)	12	200		All Sky	HBA Tile review observation	48 hour observation 18 microstations including 2 tiles	keep
hba-holog-20071130	30November07	60	lifs001	1	1	200	None	All Sky	Data recorded with station correlator in rcumode 7. Directory name format: yyyyyymmdd-hhmmss-<subband>.	Determine individual gains of HBA antennas in tile through holography	keep
Jupiter071129	29November07	2	lifs005	46	24	160	TBD	Jupiter	46 LBA dipoles in CS010(rcu=0:63,68:95)	to get the tied array data and perform VLBI with Nancay array.	keep
hba-holog-20071123	23November07	60	lifs001	1	1	200	None	All Sky	Data recorded with station correlator in rcumode 5. Directory name format: yyyyyymmdd-hhmmss-<subband>.	Determine individual gains of HBA antennas in tile through holography	keep
L2007_04480	16November07	68	lifs005	24	12	200	AIPS	NCP	LBA rotated dipoles.	LBA dipole beam evaluation	keep
L2007_04449	15November07	0.5	lifs003	8	2	200	AIPS	TauA	Exloo-Dwingeloo experiment, 1s integration time. GPS clock not connected on CS001T.	Preparation for VLBI Effelsberg	keep
L2007_04448	15November07	0.5	lifs003	8	2	200	AIPS	TauA	Exloo-Dwingeloo experiment, 1s integration time. GPS clock not connected on CS001T.	Preparation for VLBI Effelsberg	keep
L2007_04447	15November07	0.5	lifs003	8	2	200	AIPS	TauA	Exloo-Dwingeloo experiment, 1s integration time. GPS clock not connected on CS001T.	Preparation for VLBI Effelsberg	keep
L2007_04322	09November07	70	lifs003	16	36	200	AIPS	NCP	Positions of CS010_HBA0 - CS010_HBA3 are incorrect on CEP. 1 TB of data, > 24000 time slots. Data look good.	HBA monster observation 110-190 MHz	keep
L2007_04320	08November07	16	lifs003	16	36	200	AIPS	NCP	Positions of CS010_HBA0 - CS010_HBA3 are incorrect on CEP. Observed without RSP ring. Data look good now.	HBA observation 110-190 MHz	keep
L2007_04309	06November07	15.75	lifs004	16	36	200	AIPS	NCP	Positions of CS010_HBA0 - CS010_HBA3 are incorrect on CEP. Data loss and incorrect data due to problem with RSP ring.	HBA observation 110-190 MHz	yes
L2007_04202	26October07	72	lifs004	24	12	200	AIPS	NCP	A lot of data from CS030-CS032 were flagged, caused by a problem with the RSP ring. A lot of data is incorrect.	LBA beam validation with rotated dipoles	TBD
L2007_04086	18October07	85	lifs003	24	12	200	AIPS	NCP	No data for CS008 for a limited period. 287 GB in total. CEP worked flawlessly: memory leak is solved.	VERY long LBA observation with 24 micro stations.	keep
L2007_04077	17October07	12	lifs002	24	12	200	AIPS	NCP	No data for CS008 due to MAC/SAS controllers overruling manual scripts. No data in channel numbers > 219	First LBA observation with 24 microstations	yes
L2007_04025	15October07	±11.5	lifs002	16	36	200	AIPS	NCP	Lower 18 subbands are LBA data, highest 18 subbands are HBA data. Note that HBA data have LBA positions, which is incorrect. In order to use this observation properly, one should enter the HBA positions in the higher 18 subbands and regenerate the UVW coordinates.	Simultaneous HBA and LBA observation for testing wide bad frequency dependencies.	keep
L2007_03983	14October07	±12	lifs002	1(48), 15(1)	36	200	AIPS	CasA	Continued from 03980	LBA tracking with 48 dipole station on CS010 with 200 MHz clock for 48h	keep
L2007_03980	12October07	±36	lifs002	1(48), 15(1)	36	200	AIPS	CasA	Subbands of 3607 + 1. Out of memory on storage nodes after about 36 hours.	LBA tracking with 48 dipole station on CS010 with 200 MHz clock for 48h	keep
L2007_03962	11October07	10	lifs002	1(48), 15(1)	36	200	AIPS	CasA	Same subbands as 03907. No input cluster was used. BGL used Peter's new dual-core I/O node software	LBA tracking with 48 dipole station on CS010 with 200 MHz clock	keep
L2007_03940	10October07	15	lifs002	1(48), 15(1)	36	200	AIPS	CasA	Same subbands as 03907. Data look different from previous night.	LBA tracking with 48 dipole station on CS010 with 200 MHz clock	keep
L2007_03917	09October07	14	lifs002	1(48), 15(1)	36	200	AIPS	CasA	Same subbands as 03907. Data look different from previous night.	LBA tracking with 48 dipole station on CS010 with 200 MHz clock	keep

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L2007_03914	08October07	15	lifs001	1(48), 15(1)	36	200	AIPS	CasA	Same subbands as 03907. Data look different from previous night.	LBA tracking with 48 dipole station on CS010 with 200 MHz clock	keep
L2007_03908	06October07	24	lifs001	1(48), 15(1)	36	200	AIPS	CasA	Same subbands as 03907. Data look different from previous night.	LBA tracking with 48 dipole station on CS010 with 200 MHz clock	keep
L2007_03907	05October07	24	lifs001	1(48), 15(1)	36	200	AIPS	CasA	—	LBA tracking with 48 dipole station on CS010 with 200 MHz clock	keep
L2007_03743	28August07	24	lifs011	16	36	200	AIPS	NCP	HBA 210-250 MHz, 10 sec integration, subbands 50-225(+5). Note: incorrect CS010 HBA dipole positions	HBA high resolution observation	TBD
L2007_03742	27August07	24	lifs008	16	36	200	AIPS	NCP	HBA 210-250 MHz, 10 sec integration, subbands 50-225(+5). Note: incorrect CS010 HBA dipole positions	HBA high resolution observation	TBD
L2007_03741	25August07	24	lifs008	16	36	200	AIPS	NCP	HBA 110-190 MHz, 10 sec integration, subbands 70-420(+10). Note: incorrect CS010 HBA dipole positions	HBA high resolution observation	TBD
L2007_03740	24August07	24	lifs010	16	36	200	AIPS	NCP	HBA 110-190 MHz, 10 sec integration, subbands 70-420(+10). Note: incorrect CS010 HBA dipole positions	HBA high resolution observation	TBD
L2007_03736	20August07	16.5	lifs011	16	36	200	AIPS	NCP	HBA 110-190 MHz, 10 sec integration, subbands 70-420(+10). Note: incorrect CS010 HBA dipole positions	HBA high resolution observation	TBD
L2007_03733	17August07	16	lifs009	16	36	200	AIPS	Cas A	HBA 110-190 MHz, 10 sec integration, subbands 110-180(+2). Note: incorrect CS010 HBA dipole positions	First HBA high resolution observation	TBD
L2007_03710	13August07	4/60	lifs009	16	9	200	AIPS	Zenith	LBA subbands 242,247,255,275,283,303,310,319,396, 21 msec integration	Radio meteors	TBD
L2007_03707	13August07	4/3600??	lifs012	??	?	200?	AIPS	Zenith?	???	Radio meteors ?	TBD
L2007_03693	13August07	4/60	lifs009	16	9	200	AIPS	Zenith	LBA subbands 242,247,255,275,283,303,310,319,396, 21 msec integration	meteor trails seen in SB3 (Italian TV)	TBD
L2007_03686	13August07	4/3600	lifs009	16	9	200	AIPS	Zenith	LBA subbands 242,247,255,275,283,303,310,319,396, 21 msec integration	Radio meteors	TBD
L2007_03678	13August07	0.5	lifs008	2	9	200	TBD	Zenith	LBA CS001dipole0 + CS016dipole0 subbands 242,247,255,275,283,303,310,319,396, 21 msec integration	Radio meteors	TBD
L2007_03567	05August07	13.75	lifs009	16	36	200	AIPS	Near Cyg A	LBA 38-60MHz 30 sec integration	Transient field in Cygnus	TBD
L2007_03566	04August07	24	lifs009	16	36	200	AIPS	NCP	LBA 38-60MHz 30 sec integration	LBA	TBD
L2007_03565	03August07	24	lifs009	16	36	200	AIPS	NCP	LBA 38-60MHz 30 sec integration	LBA	TBD
L2007_03464	28July07	24	lifs009	16	36	200	AIPS	NCP	LBA 38-60MHz CS001 RCU9 dead	check with old CEP system (with input section)	yes
L2007_03463	27July07	24	lifs009	16	36	200	AIPS	NCP	LBA 38-60MHz CS001 RCU9 dead	test of new CEP system (without input section)	yes
L2007_03453	27July07	0.1	<disappeared>	16	36	200	TBD	zenith	LBA meteor trails seen	looking for meteor trails with 21ms time resolution LBA	keep
L2007_03447	26July07	0.1	<disappeared>	16	3	200	TBD	zenith	LBA found reflections from planes	looking for meteors LBA	No?
L2007_03389	22July07	12.5	lifs010	16	36	200	TBD	NCP	Normal S/N ratio, no input section at CEP	LBA	TBD
L2007_03388	20July07	48	lifs010	16	36	200	TBD	NCP	Bad S/N ratio, low overall visibility amplitudes. Except for this, everything went fine.	LBA	TBD
L2007_03289	13July07	24	lifs008	12	36	200	TBD	NCP	missing CS001 (RSPIII), later observations failed	LBA	TDB
L2007_03172	07July07	24	lifs008/brentjens	4	36	200	TBD	Zenith	Every antenna was tuned to a DIFFERENT set of 36 subbands, 1 second integration time. Several antenna failed. May need to be re-observed later	RFI scan HBA high (210-250 MHz), subbands 219-362	keep
L2007_03171	06July07	24	lifs008/brentjens	4	36	200	TBD	Zenith	Every antenna was tuned to a DIFFERENT set of 36 subbands, 1 second integration time. Several antennae failed. May need to be re-observed later	RFI scan HBA high (210-250 MHz), subbands 75-218	keep
L2007_03018	30June07	24	lifs008/brentjens	4	48	160	TBD	Zenith	Every antenna was tuned to a DIFFERENT set of 48 subbands, 1 second integration time.	RFI scan HBA high (170-230 MHz), subbands 160-351	keep
L2007_03017	29June07	24	lifs008/brentjens	4	36	200	TBD	Zenith	Every antenna was tuned to a DIFFERENT set of 36 subbands, 1 second integration time.	RFI scan HBA low (110-190 MHz), subbands 172-29	keep
L2007_02925.bad	22June07	24	grid	4	36	200	TBD	Zenith	problems. No CEP data for 23-24June	HBA RFI scans	TBD
L2007_02797	16June07	24	grid/brentjens	4	36	200	TBD	Zenith	Every antenna was tuned to a DIFFERENT set of 36 subbands, 1 second integration time.	RFI scan HBA low (110-190 MHz), subbands 316-173	keep
L2007_02789	15June07	24	grid/brentjens	4	36	200	TBD	Zenith	Every antenna was tuned to a DIFFERENT set of 36 subbands, 1 second integration time.	RFI scan HBA low (110-190 MHz), subbands 460-317	keep
L2007_02560	10June07	23	grid	4(1)	36	200	TBD	CasA	The Ampl of HBA16 is 2 times higher than the rests at both X and Y. All Ampls of auto-correlations drop out quit often from UT07:00 till the end.	HBA high(170-230MHz)	TBD
L2007_0255x	09June07	23	unknown	4(1)	36	160	TBD	CasA	The Ampl of HBA16 is 2 times higher than the rests at both X and Y.	HBA low(110-190MHz)	TBD
L2007_02555	08June07	10	grid	4(1)	36	200	TBD	CygA	The Ampl of HBA16 is 2 times higher than the rests at both X and Y.	HBA low(110-190MHz)	TBD
L2007_02490	02June07	24	grid	4(1)	48	160	AIPS	CasA	The Ampls of ifrs HBA17-*(both auto and cross correlations) are low at YY in all bands.	HBA high(170-230MHz)	TBD
L2007_02488	01June07	24	grid	4(1)	48	160	AIPS	CygA	The Ampls of ifrs HBA17-*(both auto and cross correlations) are low at YY in all bands.	HBA high(170-230MHz)	TBD

MS Name	Obs.date	Duration(h)	Stored	#stat(dip)	#subbands	Clock(MHz)	UWW ³⁾	Source	Comments (more discussion)	Purpose	
L2007_02414	28May07	10.5	grid	1(48), 15(1)	36	160	AIPS	nearby CygA	ok.	LBA	TBD
L2007_02413	27May07	24	grid	1(48), 15(1)	36	160	AIPS	CygA	ok.	LBA	TBD
L2007_02412	26May07	24	grid	1(48), 15(1)	36	160	AIPS	CasA	ok.	LBA	TBD
L2007_02410	25May07	24	grid	4(1)	36	160	AIPS	?	CS10_HBA10 doesn't work.	HBA high (170-230MHz)	TBD
L2007_02340	20May07	24	grid	1(48), 15(1)	24	160	AIPS	CygA	There was a setup problem with the Lofar stations at the beginning. The system is ok after it was reset at UT08:06,20/05. There is a strong solar flare during UT08:00-12:00,20/05. A very strong RFI during UT19:40-23:00,20/05. The Ampls of all baselines drop out during about the last 10 minutes.		TBD
L2007_02339	19May07	21.5	grid	1(48), 15(1)	24	160	AIPS	CasA	There is a very strong solar flare during UT13:00-18:00,19/05.		TBD
L2007_02333	18May07	11	grid	1(48), 15(1)	36 (6x6)	160	AIPS	near CygA	Only one MS (with SB24-29) is readable	transient field in Cygnus	TBD
L2007_02219	12May07	9	grid	16(1)	24	160	FLIP_U FLIP_V FLIP_W	CasA	refer to L2007_02216.		TBD
L2007_02216	11May07	16	grid	1(48), 15(1)	24	160	FLIP_U FLIP_V FLIP_W	close to CygA	CS16_dipole8,X works now. All baselines with dipoles in CS16 are ok(no delay error over the band).		TBD
L2007_02113	04May07	21	grid	1(48), 15(1)	24	160	FLIP_U FLIP_V FLIP_W	close to CygA	The baselines with CS16_dipole8,X have no Ampls. All baselines with dipoles in CS016 have a delay error of about 77 microsec resulting in 12 phasewraps over the band.	First observation of 'transient' field	TBD
L2007_02094	29Apr07	24	grid	1(48), 15(1)	24	160	FLIP_U FLIP_V FLIP_W	CasA	3rd antenna in CS016 dropped out (others from CS016 low amplitude), strange correlation jump about 0UT and very large jump about 06UT Yuan: All Ampls jumped at UT06:30,30/04. The baselines with CS16_dipole8,X are ok now.	see that LOFAR was operational again and get good LBA data	TBD
L2007_02092	28Apr07	24	grid	1(48), 15(1)	24	160	FLIP_U FLIP_V FLIP_W	CygnusA	all amplitudes from CS016 low Yuan: All baselines with CS16_dipole8,X have no Ampls.	see that LOFAR was operational again and get good LBA data	TBD
L2007_02091	27Apr07	16	grid	1(48), 15(1)	24	160	FLIP_U FLIP_V FLIP_W	CygnusA	all amplitudes from CS016 decrease after 03:35UT Yuan: All Ampls dropout at UT05:45,28/04. All baselines with CS16_dipole8,X have no Ampls.	see that LOFAR was operational again and get good LBA data	TBD
L2007_02038	21Apr07	21.5	grid	1(48), 15(1)	24	160	FLIP_U FLIP_V FLIP_W	CasA	a problem at CS16_dipole8 (all baselines with CS16_dipole8,X have no Ampls). strong RFI around UT19:00.		TBD
L2007_02032	19Apr07	1	lifs010 + grid	4(1)	24	HBA/200	FLIP_U FLIP_V FLIP_W	zenith	paggers located at 169.7 and 169.8 MHz	test of 169.75 MHz pager	TBD
L2007_01908	10Apr07	16	grid	4(16)	16	200	TBD	none	CS010 dead	check LBA and 200MHz, no tracking	TBD
L2007_01895	09Apr07	24	grid	4(1)	24	200	TBD	none	wrong source coordinates in MS	HBA high (170-230 MHz)	TBD
L2007_01893	08Apr07	24	grid	4(1)	24	160	TBD	none	wrong source coordinates in MS	HBA low (110-190 MHz)	TBD
L2007_01891	08Apr07	2.5	lifs011:/data/j4.519*	1(48)	24	160	TBD	Jupiter 20-30 MHz	fringe tracking on Jupiter	Jupiter & VLBI-Nancay	no (Nancay data lost)
L2007_01888	06Apr07	24	grid	16(1)	24	160	TBD	CasA	autocorrelation dips	LBA	TBD
L2007_01855	05Apr07	2	grid	4(1)	24	160	TBD			Short HBA test	TBD
L2007_01852	04Apr07	16	grid	4 + 12	24	160	TBD		mixture of HBA and LBA data	test HBA + LBA	TBD
L2007_01810	30Mar07	16	grid	16	24	160	TBD	CasA	3 subbands per MS	full spectrum sweep	TBD
L2007_01807	29Mar07	16	grid	1(4)	24	160	FLIP_U FLIP_V FLIP_W	none	3 subbands per MS	first sucessful long run with HBA	TBD
L2007_01797	24Mar07	21	grid		8	160	FLIP_U FLIP_V FLIP_W	CasA	CS16 dead		TBD
L2007_01787	23Mar07	17	grid	CS010(4)	24	160	FLIP_U FLIP_V FLIP_W	CasA	Power supply died after 1hr, CS16 400m shift corrected	HBA test	TBD
L2007_01740	19Mar07	24	grid	1(48),15(1)	24	160	FLIP_U FLIP_V FLIP_W	CasA	3 subbands per MS	First test with 24 subbands	TBD
L2007_01715	17Mar07	24	grid		16	160	FLIP_U FLIP_V FLIP_W	CasA	CS016 dead		TBD
L2007_01714	16Mar07	15	grid		16	160	FLIP_U FLIP_V FLIP_W	CasA	CS016 dead		TBD
L2007_01665	9Mar07	17	grid	1(48),15(1)	14	160	FLIP_U FLIP_V FLIP_W	CasA	Frequencies from 50-57 MHz, step of 3 subbands (0.5 MHz)		TBD
L2007_01613	4Mar07	23	grid	1(47),15(1)	16	160	FLIP_U FLIP_V FLIP_W	CygA		CS10 split as an array of 47 dipoles +1 dipole to get a very short baseline without autocorrelation	TBD
L2007_01612	3Mar07	23	grid	16	16	160	FLIP_U FLIP_V FLIP_W	CasA		See 01613	TBD
L2007_01611	2Mar07	12	grid	16	16	160	FLIP_U FLIP_V FLIP_W	VirgoA		see 01613	TBD
L2007_01580	25feb07	17	grid	16(4)	16	160	FLIP_U FLIP_V FLIP_W	TauA	lots of 10-30 MHz subbands 48 dip in antenna 1 (CS10)	low frequency test	TBD
L2007_01576	24feb07	29	grid	16(1)	16	160	FLIP_U FLIP_V FLIP_W	CasA	160 MHz clock !! lots of 10-30 MHz subbands 48 dip in antenna 1 (CS10)	low frequency test	TBD
L2007_01575	23feb07	12	grid	16(1)	16	160	FLIP_U FLIP_V FLIP_W	VirgoA	lots of 10-30 MHz subbands 48 dip in antenna 1 (CS10)	low frequency test	TBD

MS Name	Obs.date	Duration(h)	Stored	#stat(dip)	#subbands	Clock(MHz)	UVW ¹⁾	Source	Comments (more discussion)	Purpose	
L2007_01570	23feb07	2.0	grid	16(4)	16	200	FLIP_U FLIP_V FLIP_W	no DPT	frequencies non standard (start at 41 MHz) 48 dip in antenna 1 (CS10) beamed 1h after CasA transit	beamlocation test	TBD
L2007_01568	23feb07	1.5	grid	16(4)	16	200	FLIP_U FLIP_V FLIP_W	no DPT	frequencies non standard (start at 41 MHz) 48 dip in antenna 1 (CS10) beamed on CygA transit	beamlocation test	TBD
L2007_01567	22feb07	13	grid	16(4)	16	200	FLIP_U FLIP_V FLIP_W	CasA	frequencies non standard (start at 41 MHz) 48 dip in antenna 1 (CS10) problems? redundant baselines disagree !		TBD
L2007_01532	21feb07	13	grid	16(4)	16	200	FLIP_U FLIP_V FLIP_W	CasA	frequencies non standard (start at 41 MHz) 48 dip in antenna 1 (CS10)problems 7, redundant baselines disagree !		TBD
L2007_01465	19feb07	13	grid	16(4)	16	200	FLIP_U FLIP_V FLIP_W	CasA	frequencies non standard (start at 41 MHz) 48 dip in antenna 1 (CS10) wrong positions used for DPT at CEP, still to be corrected		TBD
L2007_01463	17feb07	36 !!	grid	16(4)	16	160	FLIP_U FLIP_V FLIP_W	NCP !!	48 dip in antenna 1 (CS10); antennas 4 and 12 with 60MHz CW signal wrong positions used for DPT at CEP, still to be corrected	North Celestial Pole !	TBD
L2007_01462	16feb07	27	grid	16(4)	16	160	FLIP_U FLIP_V FLIP_W	DPT on CasA	48 dip in antenna 1 (CS10), rest 4 dip overlap in time (12h) with WSRT-WHAT (116-153MHz) wrong positions used for DPT at CEP, still to be corrected	test of TID's over Exloo ?	TBD
L2007_01442	15feb07	14	grid	16(4)	16	160	FLIP_U FLIP_V FLIP_W	TauA	16 microstations beamformed (but not 48 dip in CS10)	beamformer test	TBD
L2007_01429	14feb07	14	grid	16(4)	16	160	FLIP_U FLIP_V FLIP_W	CasA	CS10 (1x48,1x24,1x12,1x6), and CS01,08,16 each 4x4	beamformer test	TBD
L2007_01402	13feb07	14	grid	16(4)	16	160	FLIP_U FLIP_V FLIP_W	CasA			TBD
L2007_01392	12feb07	13	grid	2(1)	16	160	FLIP_U FLIP_V FLIP_W	no DPT	free running rubidium	clock-drift study (ANT1-9)	TBD
L2007_01385	11feb07	12	grid	16(1)	16	160	FLIP_U FLIP_V FLIP_W	CasA		clock-drift study (ANT1-9)	TBD
L2007_01384	10feb07	24	grid	16(1)	16	160	FLIP_U FLIP_V FLIP_W	CasA	very rainy day	clock-drift study (ANT1-9)	TBD
L2007_01383	9feb07	24	grid	16(1)	16	160	FLIP_U FLIP_V FLIP_W	no DPT	dry day; further shortening Rubidium-GPS feedback loop	clockdrift study (ANT1-9); snapshot imaging zenith	TBD
L2007_01341	8feb07	12	grid	16(1)	16	160	FLIP_U FLIP_V FLIP_W	no DPT	test with shortened Rubidium-GPS feedback loop	clockdrift study (ANT1-9)	TBD
L2007_01276	4feb07	12	grid	16(1)	16	160	FLIP_U FLIP_V FLIP_W	no DPT	test to check clock stability	ANT1Y and 9Y have artificial signal -> clock-drift study	TBD
L2007_01274	3feb07	24	grid	12(4)+4(1)	16	160	FLIP_U FLIP_V FLIP_W	CasA	microstation with one dipole. Beamforming results not understood	beamformation test	TBD
L2007_01269	2feb07	24	grid	16(4)	16	160	FLIP_U FLIP_V FLIP_W	CasA	beamforming results not understood	first beamformation test	TBD
L2007_01068	28jan07	16	grid	16(1)	16 in 8 MS	160	FLIP_U FLIP_V FLIP_W	no DPT	60s integration; all 16 bands OK; uvw OK in MS	ANT1Y and 9Y have artificial signal -> clock-drift study	TBD
L2007_01065	27jan07	24	grid	16(1)	16	160	FLIP_U FLIP_V FLIP_W	CasA	60s integration; all 16 bands OK; uvw OK in MS	ANT1Y and 9Y have artificial signal study of rain effects 48-60 MHz	TBD
L2007_01061	26jan07	24	grid	16(1)	16	160	FLIP_U FLIP_V FLIP_W	CygA	60s integration; all 16 bands OK, uvw OK in MS	ANT1Y and 9Y have artificial signal study of rain effects 48-60 MHz	done
L2007_01055	26jan07	3	grid	16(1)	16	160	FLIP_U FLIP_V FLIP_W	Jupiter	60s integration; 24-30 MHz; few baselines with good data, uvw seem OK for first time !	Jupiter flare (A'dam)	TBD
L2007_01042	24jan07	16	grid	16(1)	16	160	WRONG	CasA	60s integration; mostly useless data; uvw still wrong in MS		TBD
L2007_01023	24jan07	5m	grid	16(1)	16	160	WRONG	CasA	60s integration	test of uvw calculation	TBD
L2007_00999	21jan07	16	listfen:/cephome/data	16(1)	2	160	WRONG	TauA	60s integration; only 2 bands successful	CS1-8-16 dipoles isolated	TBD
L2007_00890	17jan07	15	grid	16(1)	8 + 8	160	WRONG	CasA	60s integration, still phase problems on long baselines (clock ?); 2 subbands in one MS	33-75 MHz range and 23.4-24.5 MHz	TBD
L2007_00856	16jan07	16	listfen:/cephome/data	16(1)	8	160	WRONG	CasA	60s integration, still phase problems on long baselines (clock ?); 2 subbands in one MS	33-75 MHz range	TBD
L2007_00777	15jan07	16	listfen:/cephome/data	16(1)	8	160	WRONG	CasA	30s integration, still phase problems on long baselines (clock ?)	33-75 MHz range	TBD
L2007_00770	14jan07	12	listfen:/cephome/data	16(1)	8	160	WRONG	TauA	30s integration	33-75 MHz range	TBD
L2007_00769	13jan07	20	listfen:/cephome/data	16(1)	8	160	WRONG	CygA	30s integration -> 25 GB total	33-75 MHz range	TBD
L2007_00758	11jan07	16	listfen:/cephome/data	16(1)	8	160	WRONG	CasA	subbands from 60-61 MHz	first multi-subband OK	TBD
L2007_00740	10jan07	16	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CasA	X,Y swapped in ant 2,6,13 -> OK ; bad relative station positions?		TBD
L2007_00734	9jan07	16	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CasA; correct sign	bad relative station positions; CS1 out of order		TBD
L2007_00712	8jan07	16	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	DPT-off	bad relative station positions		TBD
L2007_00698	7jan07	24	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CasA, wrong sign	bad relative station positions		TBD

MS Name	Obs.date	Duration(h)	Stored	#stat(dip)	#subbands	Clock(MHz)	UVW ¹⁾	Source	Comments (more discussion)	Purpose	
L2007_00693	5Jan07	24	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CaSA, wrong sign	bad relative station positions		TBD
L2007_00691	4Jan07	24	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CaSA, wrong sign	bad relative station positions		TBD
L2006_00659	27Dec06	8	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CaSA, wrong sign	bad relative station positions		TBD
L2006_00658	27Dec06	8	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CaSA, wrong sign	bad relative station positions		TBD
L2006_00657	26Dec06	8	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CaSA, wrong sign	bad relative station positions		TBD
L2006_00655	22Dec06	8	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CaSA, wrong sign	timestamps problems		TBD
L2006_00624	20Dec06	8	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CaSA, wrong sign	timestamps problems		TBD
L2006_00623	20Dec06	8	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CaSA, wrong sign	timestamps problems		TBD
L2006_00583	15Dec06	8	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CaSA, wrong sign	timestamps problems		TBD
L2006_00524	8dec06	8	listfen:/cephome/data	16(1)	1, 60 MHz	160	WRONG	CaSA, wrong sign	timestamps problems; digital signal on ?		TBD
L2006_00417	24Oct06	4	listfen:/cephome/data	16(1)	2, 60 MHz	160	WRONG		This measurement set contains 16 correlated antennas four each from CS10 and CS8 and CS1 and CS16.	First successful test with 16 antennas.	TBD
105	20okt06	1	listfen:/cephome/data	12(1)	8, 60 MHz	160	WRONG		This measurement set contains 12 correlated antennas four each from CS10 and CS8 and CS1, where the timing on CS1 is about 3 sec. off.	First successful test with 12 antennas.	TBD
80	11okt06	0.1	listfen:/cephome/data	8(1)	8, 60 MHz	160	WRONG		This measurement is basically the same as 60, but with more valid data.	Redo of test 60, or something like that.	TBD
60	6okt06	0.1	listfen:/cephome/data	8(1)	8, 60 MHz	160	WRONG		This measurement set contains 8 correlated antennas four each from CS10 and CS8, it's the first one where timing, antenna positions, etc. are correct, so it could be understood by the regular AIPS++ toolset.	First successful test with 8 antennas.	TBD

1)

Classification of the UVW coordinates stored in the measurement:

- AIPS: Correct UVW coordinates, AIPS(++) convention.
- FLIP_U: Correct UVW coordinates, U component sign-flipped w.r.t. AIPS(++) convention
- FLIP_V: Correct UVW coordinates, V component sign-flipped w.r.t. AIPS(++) convention
- FLIP_W: Correct UVW coordinates, W component sign-flipped w.r.t. AIPS(++) convention
- WRONG: Incorrect UVW coordinates, e.g. due to wrong station positions
- TBD: To be determined

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