

Observing Plan for Station Control (LCU)

MPIfR Effelsberg LOFAR Station

2013-04-29 through 2013-05-12

Date		CEST																								Code Markers
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2013-04-29	Mo	ELI2013-000 ILT Operations										*0	ELI2013-007J Koehler et al.													
2013-04-30	Tu	ELI2013-007J Koehler et al.										ELP2012-022S Verbiest														
2013-05-01	We	ELP2012-022S Verbiest										*0	ELI2013-000 ILT Operations													
2013-05-02	Th											ELI2013-000 ILT Operations														
2013-05-03	Fr											ELI2013-000 ILT Operations														
2013-05-04	Sa											ELI2013-000 ILT Operations														
2013-05-05	Su											ELI2013-000 ILT Operations														
2013-05-06	Mo	ELI2013-000 ILT Operations										*0														
2013-05-07	Tu																									
2013-05-08	We											*0	ELI2013-000 ILT Operations													
2013-05-09	Th											ELI2013-000 ILT Operations														
2013-05-10	Fr											ELI2013-000 ILT Operations														
2013-05-11	Sa											ELI2013-000 ILT Operations														
2013-05-12	Su											ELI2013-000 ILT Operations														
UTC		22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
LST		18										0	6										12			

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for Transient Buffer Boards

MPIfR Effelsberg LOFAR Station

2013-04-29 through 2013-05-12

Date		CEST																								Code Markers
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2013-04-29	Mo	ELI2013-000 ILT Operations										*0	ELI2013-007J Koehler et al.													
2013-04-30	Tu	ELI2013-007J Koehler et al.																								
2013-05-01	We											*0	ELI2013-000 ILT Operations													
2013-05-02	Th											ELI2013-000 ILT Operations														
2013-05-03	Fr											ELI2013-000 ILT Operations														
2013-05-04	Sa											ELI2013-000 ILT Operations														
2013-05-05	Su											ELI2013-000 ILT Operations														
2013-05-06	Mo	ELI2013-000 ILT Operations										*0														
2013-05-07	Tu																									
2013-05-08	We											*0	ELI2013-000 ILT Operations													
2013-05-09	Th											ELI2013-000 ILT Operations														
2013-05-10	Fr											ELI2013-000 ILT Operations														
2013-05-11	Sa											ELI2013-000 ILT Operations														
2013-05-12	Su											ELI2013-000 ILT Operations														
UTC		22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
LST		18										0	6										12			

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for HBA MPIfR Effelsberg LOFAR Station 2013-04-29 through 2013-05-12

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2013-04-29	Mo	ELI2013-000 ILT Operations										*0	ELI2013-007J Koehler et al.														
2013-04-30	Tu	ELI2013-007J Koehler et al.										ELP2012-022S Verbiest															
2013-05-01	We	ELP2012-022S Verbiest										*0	ELI2013-000 ILT Operations														
2013-05-02	Th	ELI2013-000 ILT Operations																									
2013-05-03	Fr	ELI2013-000 ILT Operations																									
2013-05-04	Sa	ELI2013-000 ILT Operations																									
2013-05-05	Su	ELI2013-000 ILT Operations																									
2013-05-06	Mo	ELI2013-000 ILT Operations										*0															
2013-05-07	Tu																										
2013-05-08	We									*0	ELI2013-000 ILT Operations																
2013-05-09	Th	ELI2013-000 ILT Operations																									
2013-05-10	Fr	ELI2013-000 ILT Operations																									
2013-05-11	Sa	ELI2013-000 ILT Operations																									
2013-05-12	Su	ELI2013-000 ILT Operations																									
UTC		22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
LST		18										0	6						12								

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for Low Band High (LBA) MPIfR Effelsberg LOFAR Station 2013-04-29 through 2013-05-12

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2013-04-29	Mo	ELI2013-000 ILT Operations										*0	ELI2013-007J Koehler et al.													
2013-04-30	Tu	ELI2013-007J Koehler et al.																								
2013-05-01	We											*0	ELI2013-000 ILT Operations													
2013-05-02	Th											ELI2013-000 ILT Operations														
2013-05-03	Fr											ELI2013-000 ILT Operations														
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2013-05-05	Su											ELI2013-000 ILT Operations														
2013-05-06	Mo	ELI2013-000 ILT Operations										*0														
2013-05-07	Tu																									
2013-05-08	We											*0	ELI2013-000 ILT Operations													
2013-05-09	Th											ELI2013-000 ILT Operations														
2013-05-10	Fr											ELI2013-000 ILT Operations														
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2013-05-12	Su											ELI2013-000 ILT Operations														
UTC		22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
LST		18										0	6													12

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for Low Band Low, Unused Inputs

MPIfR Effelsberg LOFAR Station

2013-04-29 through 2013-05-12

Date		CEST																								Code Markers	
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2013-04-30	Tu																										
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2013-05-03	Fr											ELI2013-000 ILT Operations															
2013-05-04	Sa											ELI2013-000 ILT Operations															
2013-05-05	Su											ELI2013-000 ILT Operations															
2013-05-06	Mo	ELI2013-000 ILT Operations										*0															
2013-05-07	Tu																										
2013-05-08	We											*0	ELI2013-000 ILT Operations														
2013-05-09	Th											ELI2013-000 ILT Operations															
2013-05-10	Fr											ELI2013-000 ILT Operations															
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2013-05-12	Su											ELI2013-000 ILT Operations															
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LST												18														12	

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for Station Interferometer

MPIfR Effelsberg LOFAR Station

2013-04-29 through 2013-05-12

Date		CEST																								Code Markers	
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2013-04-30	Tu																										
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2013-05-02	Th											ELI2013-000 ILT Operations															
2013-05-03	Fr											ELI2013-000 ILT Operations															
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2013-05-05	Su											ELI2013-000 ILT Operations															
2013-05-06	Mo	ELI2013-000 ILT Operations										*0															
2013-05-07	Tu																										
2013-05-08	We											*0	ELI2013-000 ILT Operations														
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2013-05-10	Fr											ELI2013-000 ILT Operations															
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LST		18										0	6													12	

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for IofarAN Computers

MPIfR Effelsberg LOFAR Station

2013-04-29 through 2013-05-12

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2013-04-30	Tu	ELI2013-007J Koehler et al.										ELG2013-000Q Koehler et al.														
2013-05-01	We	ELG2013-000Q Koehler et al.																								
2013-05-02	Th	ELG2013-000Q Koehler et al.																								
2013-05-03	Fr	ELG2013-000Q Koehler et al.																								
2013-05-04	Sa																									
2013-05-05	Su																									
2013-05-06	Mo											*0														
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	LST																									
						18						0							6					12		

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for IofarBN Computers

MPIfR Effelsberg LOFAR Station

2013-04-29 through 2013-05-12

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Date	CEST																								Code Markers	
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2013-04-30 Tu	ELI2013-007J Koehler et al.											ELP2012-022S Verbiest														
2013-05-01 We	ELP2012-022S Verbiest											ELP2012-022S Verbiest														
2013-05-02 Th	ELP2012-022S Verbiest											ELG2013-000P Koehler et al.														
2013-05-03 Fr	ELG2013-000P Koehler et al.												ELG2013-000P Koehler et al.													
2013-05-04 Sa	ELG2013-000P Koehler et al.												ELG2013-000P Koehler et al.													
2013-05-05 Su	ELG2013-000P Koehler et al.												ELG2013-000P Koehler et al.													
2013-05-06 Mo	ELG2013-000P Koehler et al.											*0														
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LST	18											0	6												12	

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

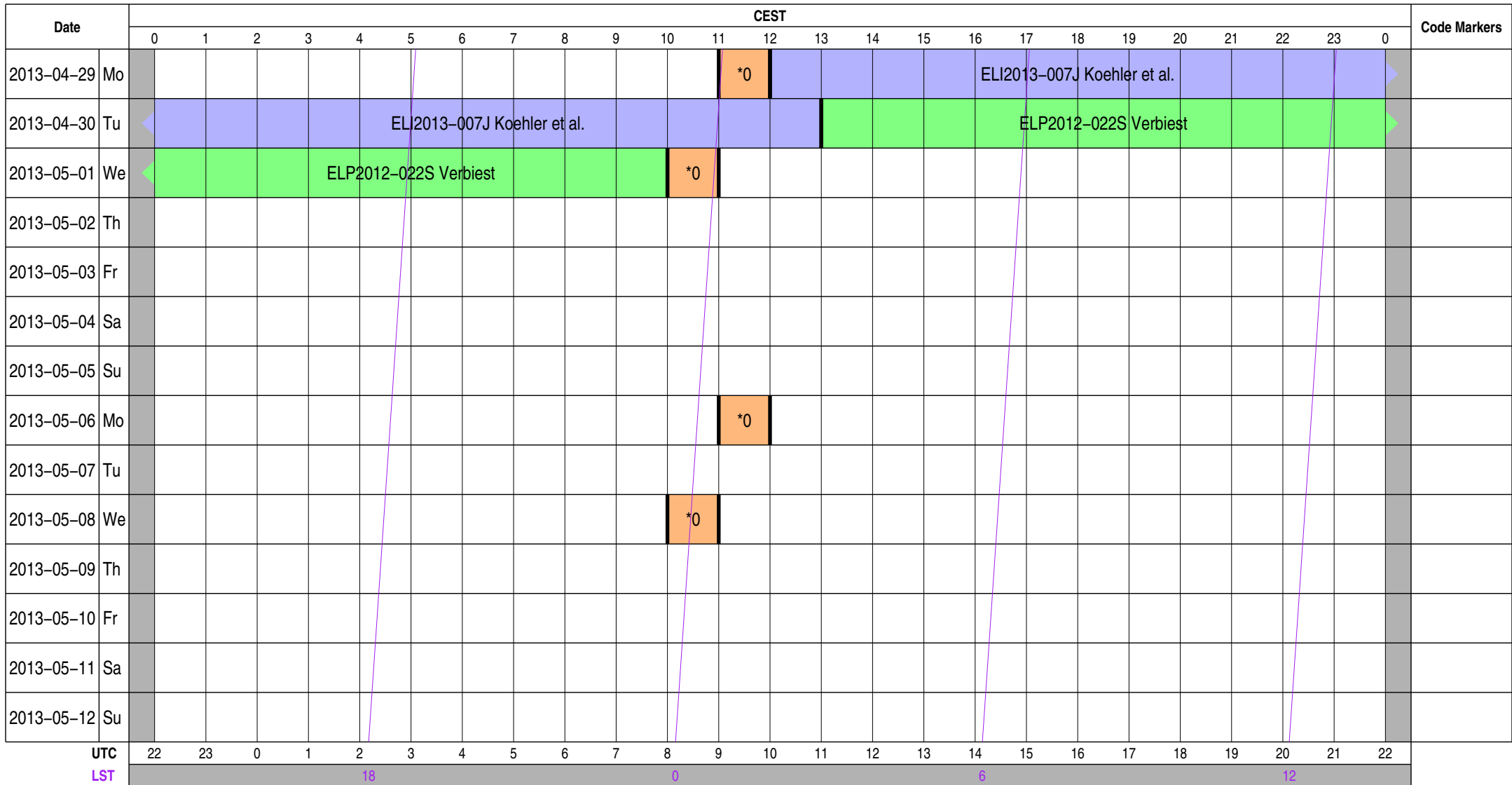
Other Code Markers

Color Meanings

Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
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Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for Iofarx Computer MPIfR Effelsberg LOFAR Station 2013-04-29 through 2013-05-12

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Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

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Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for Iofarsrv Computer MPIfR Effelsberg LOFAR Station 2013-04-29 through 2013-05-12

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2013-04-29	Mo	ELG2013-000P Koehler et al.										*0	ELI2013-007J Koehler et al.																	
2013-04-30	Tu	ELI2013-007J Koehler et al.											ELG2013-000Q Koehler et al.																	
2013-05-01	We	ELG2013-000Q Koehler et al.													ELG2013-000Q Koehler et al.															
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LST		18										0										6				12				

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for LOFAR Fiber Connection

MPIfR Effelsberg LOFAR Station

2013-04-29 through 2013-05-12

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2013-05-04	Sa											ELI2013-000 ILT Operations																																	
2013-05-05	Su											ELI2013-000 ILT Operations																																	
2013-05-06	Mo	ELI2013-000 ILT Operations										*0																																	
2013-05-07	Tu																																												
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LST												18													0							6							12						

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

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Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for LOFAR Bonn--EF Fiber Connection

MPIfR Effelsberg LOFAR Station

2013-04-29 through 2013-05-12

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2013-04-30 Tu																										
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2013-05-02 Th																										
2013-05-03 Fr																										
2013-05-04 Sa																										
2013-05-05 Su																										
2013-05-06 Mo												*0														
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LST																										
					18							0						6						12		

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

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Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)	Test Observation	Station Failure	
Science N (AGN)	Maintenance Mode	Piggyback Control	

Observing Plan for Operator On-Duty

MPIfR Effelsberg LOFAR Station

2013-04-29 through 2013-05-12

Date		CEST																								Code Markers		
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2013-04-30	Tu																											
2013-05-01	We																											
2013-05-02	Th																											
2013-05-03	Fr																											
2013-05-04	Sa																											
2013-05-05	Su																											
2013-05-06	Mo																											
2013-05-07	Tu																											
2013-05-08	We																											
2013-05-09	Th																											
2013-05-10	Fr																											
2013-05-11	Sa																											
2013-05-12	Su																											

ELD2013-002 Kuniyoshi

UTC	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
LST					18						0						6						12			

Normal Experiment Code Markers

Other Code Markers

- Color Meanings**
- 100 m Operator
 - Anderson
 - Kuniyoshi
 - Horneffer
 - Other
 - Unknown

Experiment Information for Normal Observations

ELG2013-000	Koehler et al.	jana@mpi-fr-bonn.mpg.de	+49 228 525 533	LC0_044 Studying large-scale polarization properties of the
ELG2013-000 P	Koehler et al.	jana@mpi-fr-bonn.mpg.de	+49 228 525 533	LC0_044 Studying large-scale polarization properties of the
ELG2013-000 P	Koehler et al.	jana@mpi-fr-bonn.mpg.de	+49 228 525 533	LC0_044 Studying large-scale polarization properties of the
ELG2013-000 P	Koehler et al.	jana@mpi-fr-bonn.mpg.de	+49 228 525 533	LC0_044 Studying large-scale polarization properties of the
ELG2013-000 Q	Koehler et al.	jana@mpi-fr-bonn.mpg.de	+49 228 525 533	LC0_044 Studying large-scale polarization properties of the
ELI2013-000	ILT Operations	observer@astron.nl	+31 521 595 777	Main ILT Observations, ILT Operations only on-duty 9--17, M
ELI2013-000	ILT Operations	observer@astron.nl	+31 521 595 777	Main ILT Observations, ILT Operations only on-duty 9--17, M
ELI2013-000	ILT Operations	observer@astron.nl	+31 521 595 777	Main ILT Observations, ILT Operations only on-duty 9--17, M
ELI2013-000	ILT Operations	observer@astron.nl	+31 521 595 777	Main ILT Observations, ILT Operations only on-duty 9--17, M
ELI2013-007	Koehler et al.	jana@mpi-fr-bonn.mpg.de	+49 228 525 533	LC0_044 Studying large-scale polarization properties of the
ELI2013-007 J	Koehler et al.	jana@mpi-fr-bonn.mpg.de	+49 228 525 533	LC0_044 Studying large-scale polarization properties of the
ELM2013-012	Kuniyoshi, Horneffer, Anderson	lofar-ops@mpi-fr-bonn.mpg.de	+49 228 525 356	Handover operations for local to ILT mode (MPIFR time)
ELM2013-012	Kuniyoshi, Horneffer, Anderson	lofar-ops@mpi-fr-bonn.mpg.de	+49 228 525 356	Handover operations for local to ILT mode (MPIFR time)
ELM2013-012	Kuniyoshi, Horneffer, Anderson	lofar-ops@mpi-fr-bonn.mpg.de	+49 228 525 356	Handover operations for local to ILT mode (MPIFR time)
ELM2013-012	Kuniyoshi, Horneffer, Anderson	lofar-ops@mpi-fr-bonn.mpg.de	+49 228 525 356	Handover operations for local to ILT mode (MPIFR time)
ELP2012-022	Verbiest	verbiest@mpi-fr-bonn.mpg.de	+49 228 525 246	Assessing the Timing Potential of LOFAR for Pulsars
ELP2012-022 S	Verbiest	verbiest@mpi-fr-bonn.mpg.de	+49 228 525 246	Assessing the Timing Potential of LOFAR for Pulsars
ELP2012-022 S	Verbiest	verbiest@mpi-fr-bonn.mpg.de	+49 228 525 246	Assessing the Timing Potential of LOFAR for Pulsars

Experiment Information for Other Actions

Experiment Information for Operator On-Duty Schedule

ELD2013-002	Kuniyoshi	mkuniyos@mpifr-bonn.mpg.de	+49 228 525 505	Project Scheduler
ELD2013-002	Kuniyoshi	mkuniyos@mpifr-bonn.mpg.de	+49 228 525 505	Project Scheduler

Time Usage [hours] for Normal Observations

Experiment Code	station	TBB	HBA	LBH	LBL	interfe	lofarAN	lofarBN	lofarx	lofarsr	fiber	BN--EF_	duty
ELG2013-000							85.00	108.00		85.00			
ELG2013-000 P								11.00					
ELG2013-000 P							11.00			11.00			
ELG2013-000 P								97.00					
ELG2013-000 Q							74.00			74.00			
ELI2013-000	240.00	240.00	240.00	240.00	240.00	240.00							240.00
ELI2013-000	11.00	11.00	11.00	11.00	11.00	11.00							11.00
ELI2013-000	120.00	120.00	120.00	120.00	120.00	120.00							120.00
ELI2013-000	109.00	109.00	109.00	109.00	109.00	109.00							109.00
ELI2013-007	25.00	25.00	25.00	25.00			25.00	25.00	25.00	25.00			
ELI2013-007 J	25.00	25.00	25.00	25.00			25.00	25.00	25.00	25.00			
ELM2013-012	4.00	4.00	4.00	4.00	4.00	4.00	2.00	2.00	4.00	2.00	4.00	2.00	
ELM2013-012	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ELM2013-012	1.00	1.00	1.00	1.00	1.00	1.00			1.00				1.00
ELM2013-012	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ELM2013-012	1.00	1.00	1.00	1.00	1.00	1.00			1.00				1.00
ELP2012-022	21.00		21.00					45.00	21.00				
ELP2012-022 S	21.00		21.00					21.00	21.00				
ELP2012-022 S								24.00					

Time Usage [hours] for Other Actions

Experiment Code	station	TBB	HBA	LBH	LBL	interfe	lofarAN	lofarBN	lofarx	lofarsr	fiber	BN--EF_	duty
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Summary of Time Usage [total=336.00 hours] for MPIfR Effelsberg LOFAR Station

Experiment Code	station	TBB	HBA	LBH	LBL	interfe	lofarAN	lofarBN	lofarx	lofarsr	fiber	BN--EF_	duty
normal													
Science A (Astrometry)													
Science C (Cosmology)													
Science E (Extragalactic)													
Science G (Galactic) 85.00 108.00 85.00													
Science H (Ionosphere)													
Science N (AGN)													
Science O (Other)													
Science P (Pulsar) 21.00 21.00 45.00 21.00													
Science R (Cosmic Rays)													
Science S (Solar System)													
Test Observation													
Maintenance Mode 4.00 4.00 4.00 4.00 4.00 4.00 2.00 2.00 4.00 2.00 4.00 2.00													
ILT Mode 265.00 265.00 265.00 265.00 240.00 240.00 25.00 25.00 25.00 25.00 240.00													
Effelsberg Mode													
GLOW Mode													
Juelich Mode													
Station Failure													
Unknown Code													
Idle 46.00 67.00 46.00 67.00 92.00 92.00 224.00 156.00 286.00 224.00 92.00 334.00													
piggy-up													
Piggyback Control													
Unknown Code													
Idle 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00													
piggy-down													
Piggyback Without Control													
Unknown Code													
Idle 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00													
warning													
Experiment Warning													
Unknown Code													
Idle 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00													
steal													
Override Possible													
Unknown Code													
Idle 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00 336.00													
duty													
100 m Operator													
Anderson													
Kuniyoshi 336.00													
Horneffer													
Other													
Unknown													
Unknown Code													
Idle 0.00													

Summary of Time Usage [total=100.00 %] for MPIfR Effelsberg LOFAR Station

Experiment Code	station	TBB	HBA	LBH	LBL	interfe	lofarAN	lofarBN	lofarx	lofarsr	fiber	BN--EF_	duty
normal													
Science A (Astrometry)													
Science C (Cosmology)													
Science E (Extragalactic)													
Science G (Galactic) 25.30 32.14 25.30													
Science H (Ionosphere)													
Science N (AGN)													
Science O (Other)													
Science P (Pulsar) 6.25 6.25 13.39 6.25													
Science R (Cosmic Rays)													
Science S (Solar System)													
Test Observation													
Maintenance Mode 1.19 1.19 1.19 1.19 1.19 1.19 0.60 0.60 1.19 0.60 1.19 0.60													
ILT Mode 78.87 78.87 78.87 78.87 71.43 71.43 7.44 7.44 7.44 7.44 71.43													
Effelsberg Mode													
GLOW Mode													
Juelich Mode													
Station Failure													
Unknown Code													
Idle 13.69 19.94 13.69 19.94 27.38 27.38 66.67 46.43 85.12 66.67 27.38 99.40													
piggy-up													
Piggyback Control													
Unknown Code													
Idle 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00													
piggy-down													
Piggyback Without Control													
Unknown Code													
Idle 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00													
warning													
Experiment Warning													
Unknown Code													
Idle 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00													
steal													
Override Possible													
Unknown Code													
Idle 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00													
duty													
100 m Operator													
Anderson													
Kuniyoshi 100.00													
Horneffer													
Other													
Unknown													
Unknown Code													
Idle 0.00													