

Observing Plan for Station Control (LCU)

MPIfR Effelsberg LOFAR Station

2013-04-28 through 2013-05-12

For any publication based on observations with the Effelsberg LOFAR station, please use the following acknowledgment: "Based on observations made with the Effelsberg LOFAR station of the Max-Planck-Institut für Radioastronomie (MPIfR) at Effelsberg."

Date	CEST																								Code Markers		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		0	
2013-04-28 Su											ELI2013-000 LT Operations																
2013-04-29 Mo	ELI2013-000 ILT Operations										*0		ELI2013-007J Koehler et al.														
2013-04-30 Tu	ELI2013-007J Koehler et al.										ELX2013-000B Anderson																
2013-05-01 We	ELX2013-000B Anderson										*0		ELI2013-000 ILT Operations														
2013-05-02 Th											ELI2013-000 LT Operations																
2013-05-03 Fr	ELI2013-000 LT Operations										ELM2013-017 Horneffer, Ku								ELI2013-007J Koehler et al.						0		
2013-05-04 Sa											ELI2013-007J Koehler et al.														ELP2012-022S Verbiest		
2013-05-05 Su											ELP2012-022S Verbiest																
2013-05-06 Mo	ELP2012-022S Verbiest												ELP2012-013A Kuniyoshi														
2013-05-07 Tu	ELP2012-013A Kuniyoshi																										
2013-05-08 We											*0		ELI2013-000 ILT Operations														
2013-05-09 Th											ELI2013-000 LT Operations																
2013-05-10 Fr											ELI2013-000 LT Operations																
2013-05-11 Sa											ELI2013-000 LT Operations																
2013-05-12 Su											ELI2013-000 LT 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										Sunrise		0		6						Sunset						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

2013-04-28 through 2013-05-12

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	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		0	
2013-04-28 Su											ELI2013-000 LT Operations																
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 LT Operations																
2013-05-03 Fr	ELI2013-000 LT Operations												ELM2013-017 Horneffer, Ku								ELI2013-007J Koehler et al.				0		
2013-05-04 Sa											ELI2013-007J Koehler et al.																
2013-05-05 Su																											
2013-05-06 Mo																											
2013-05-07 Tu																											
2013-05-08 We											*0		ELI2013-000 ILT Operations														
2013-05-09 Th											ELI2013-000 LT Operations																
2013-05-10 Fr											ELI2013-000 LT Operations																
2013-05-11 Sa											ELI2013-000 LT Operations																
2013-05-12 Su											ELI2013-000 LT 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										Sunrise		0		6						Sunset						12

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

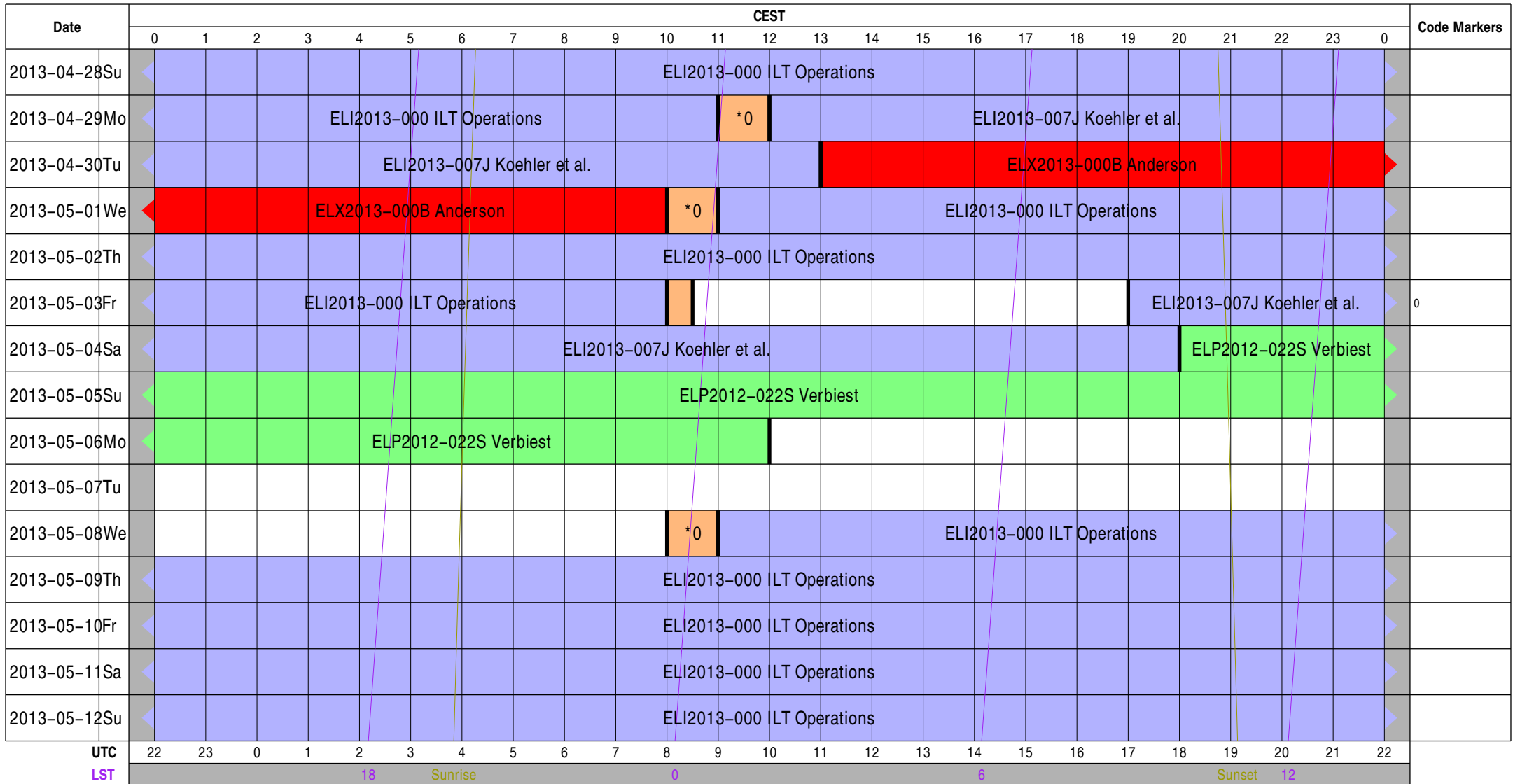
Other Code Markers

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 2013-04-28 through 2013-05-12

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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 2013-04-28 through 2013-05-12

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Date	CEST																								Code Markers		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		0	
2013-04-28 Su											ELI2013-000 LT Operations																
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 LT Operations																
2013-05-03 Fr	ELI2013-000 LT Operations												ELI2013-007J Koehler et al.										0				
2013-05-04 Sa											ELI2013-007J Koehler et al.																
2013-05-05 Su																											
2013-05-06 Mo																											
2013-05-07 Tu																											
2013-05-08 We											*0		ELI2013-000 ILT Operations														
2013-05-09 Th											ELI2013-000 LT Operations																
2013-05-10 Fr											ELI2013-000 LT Operations																
2013-05-11 Sa											ELI2013-000 LT Operations																
2013-05-12 Su											ELI2013-000 LT 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										Sunrise		0		6										Sunset		12

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

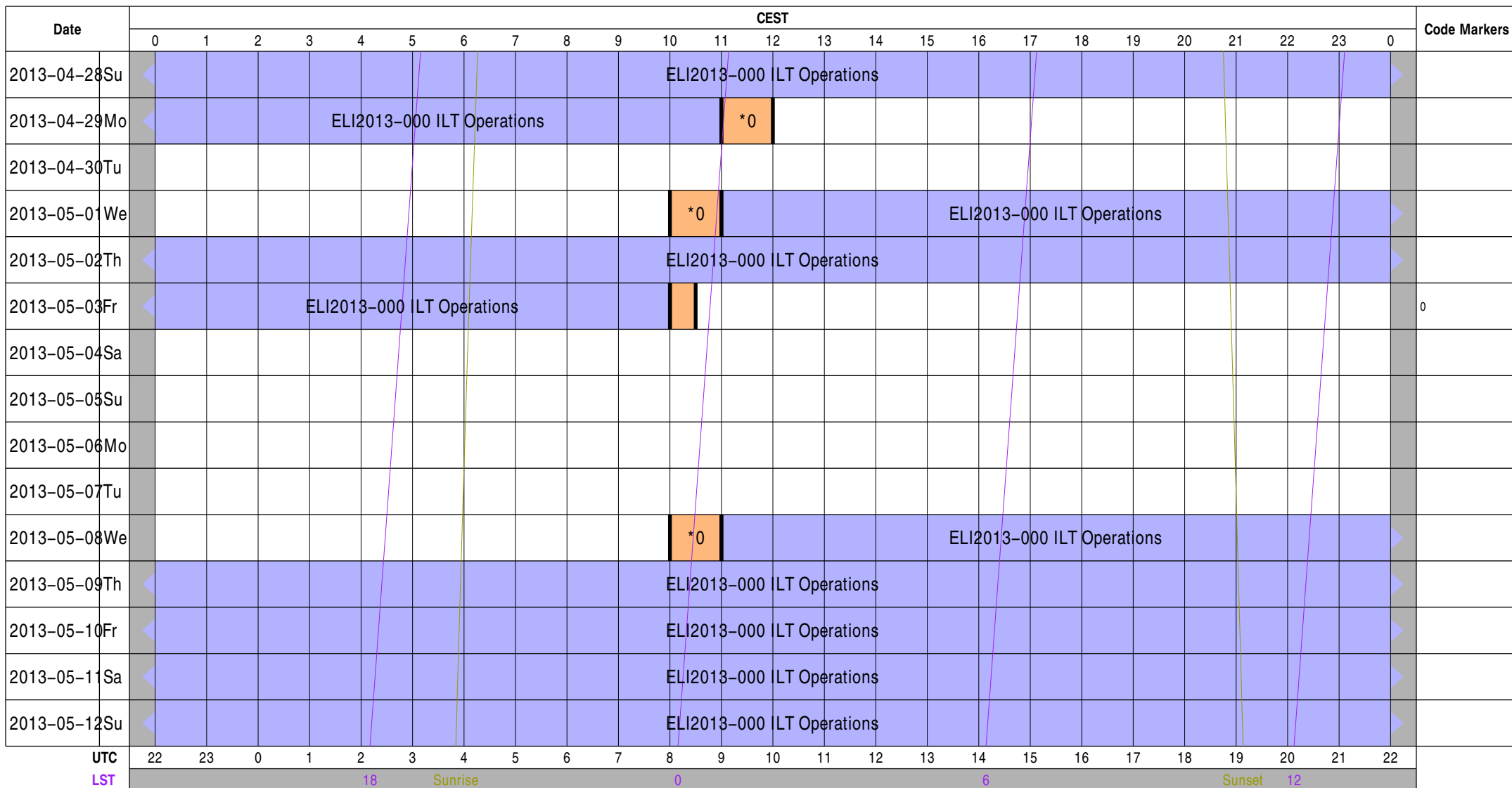
Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)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

Observing Plan for Low Band Low, Unused Inputs

MPIfR Effelsberg LOFAR Station

2013-04-28 through 2013-05-12

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Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

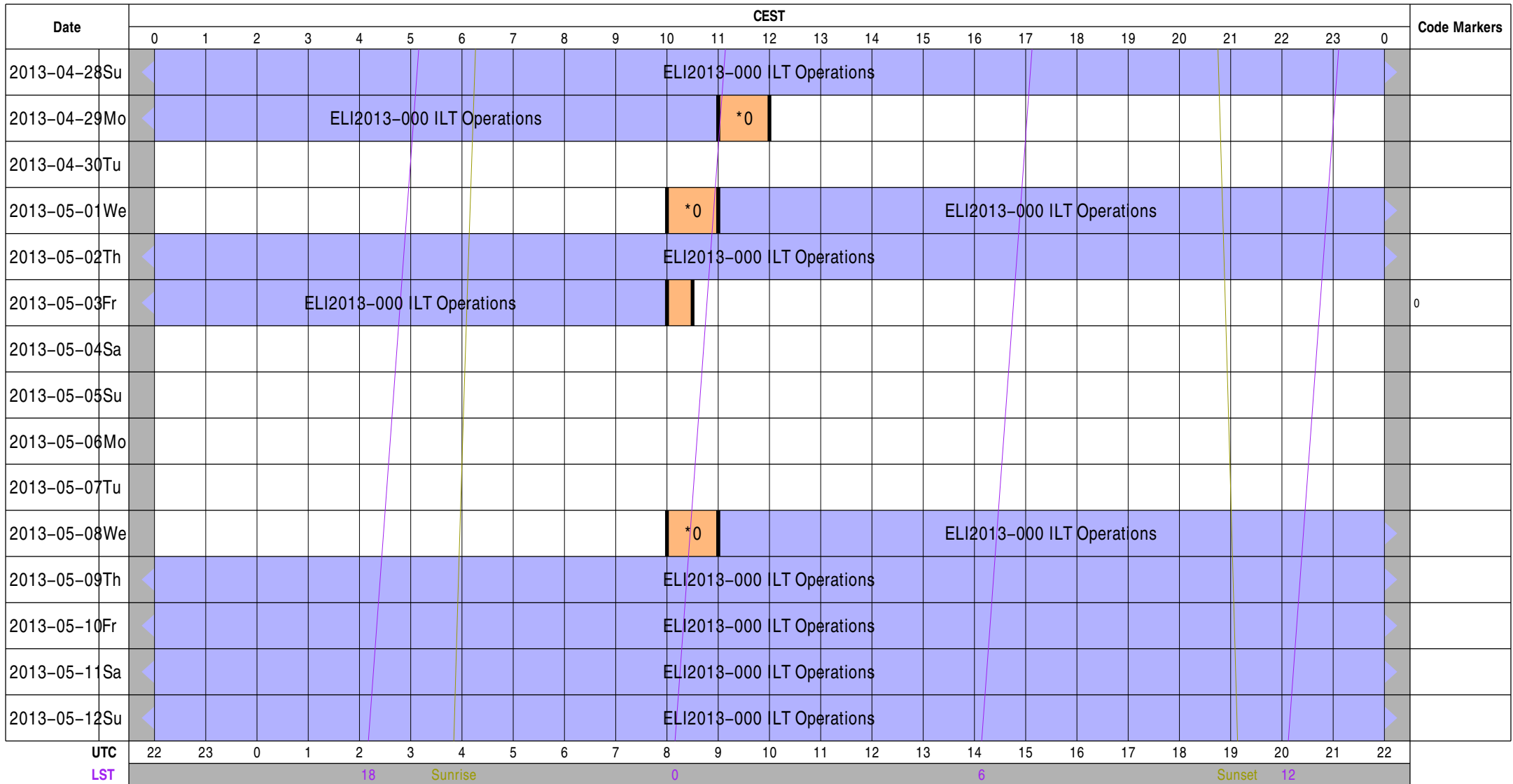
Color Meanings

Science A (Astrometry)	Science O (Other)	ILT Mode
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode
Science G (Galactic)	Science S (Solar System)	Juelich Mode
Science H (Ionosphere)	Test Observation	Station Failure
Science N (AGN)	Maintenance Mode	Piggyback Control

Piggyback Without Control
Experiment Warning
Override Possible

Observing Plan for Station Interferometer MPIfR Effelsberg LOFAR Station 2013-04-28 through 2013-05-12

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Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

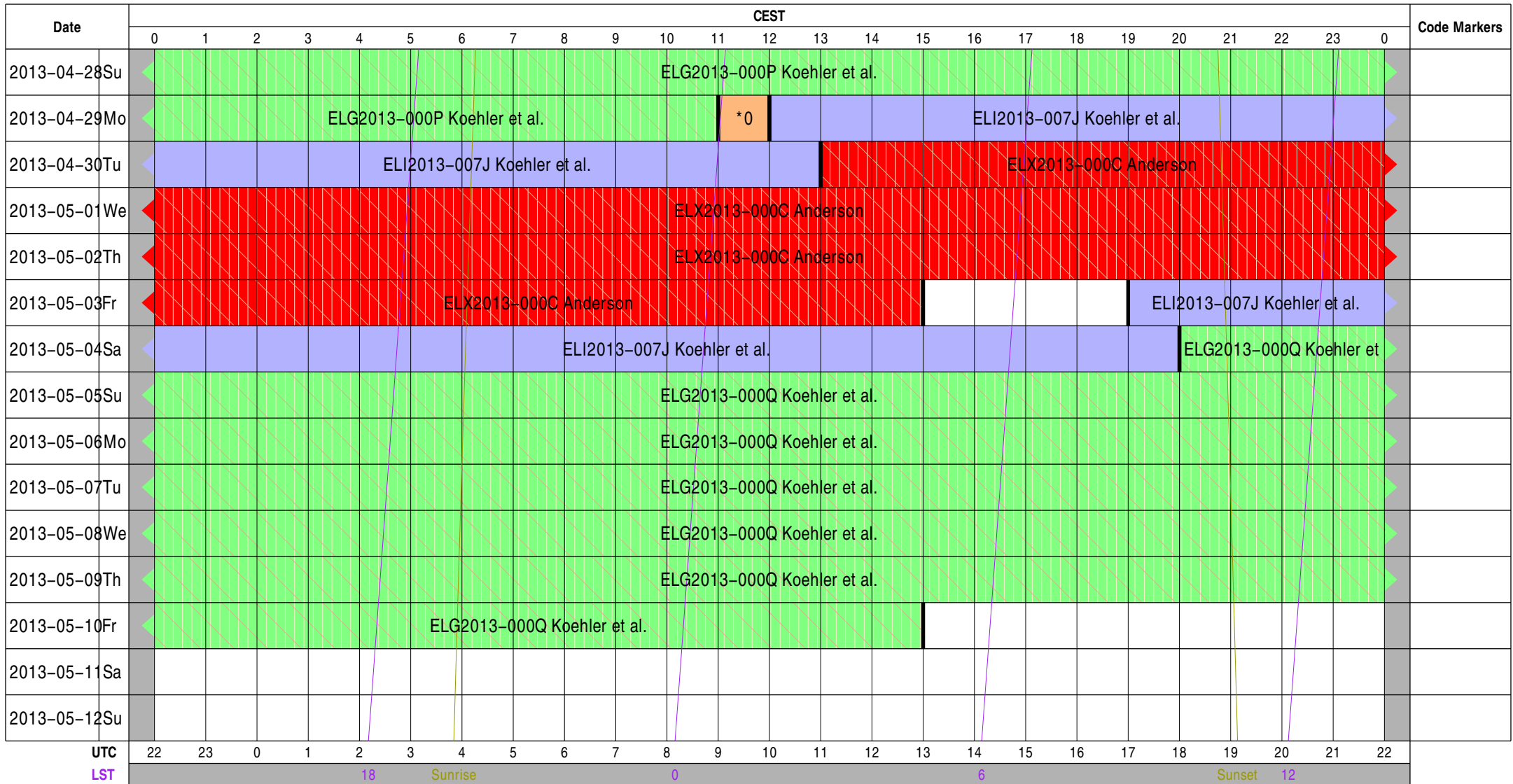
Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)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

Observing Plan for IofarAN Computers

MPIfR Effelsberg LOFAR Station

2013-04-28 through 2013-05-12

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Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

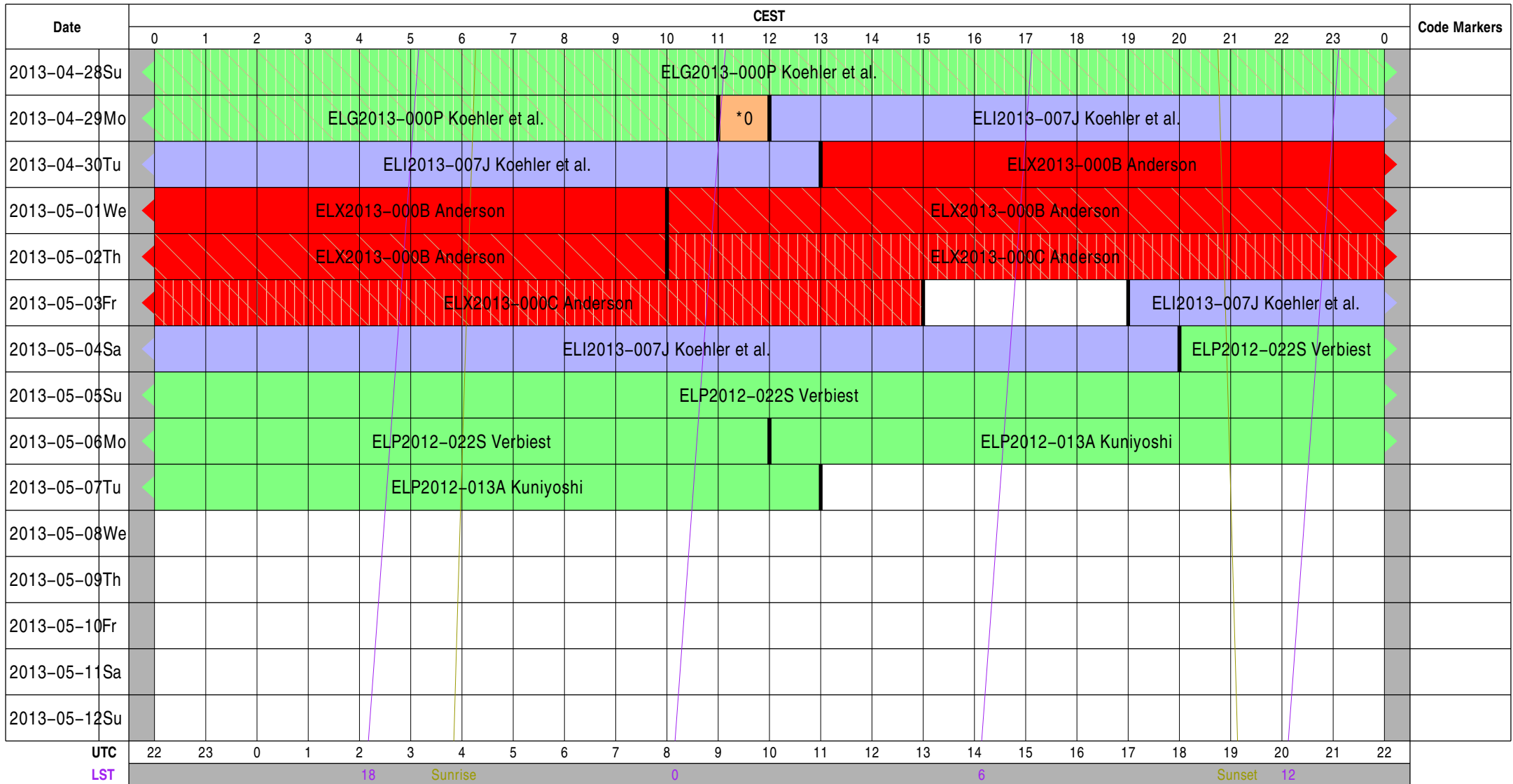
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|---------------------------|--------------------------|-------------------|---------------------------|
| Science A (Astrometry) | Science O (Other) | ILT Mode | Piggyback Without Control |
| Science C (Cosmology) | Science P (Pulsar) | Effelsberg 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

2013-04-28 through 2013-05-12

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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 Sunrise 0 6 Sunset 12

Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

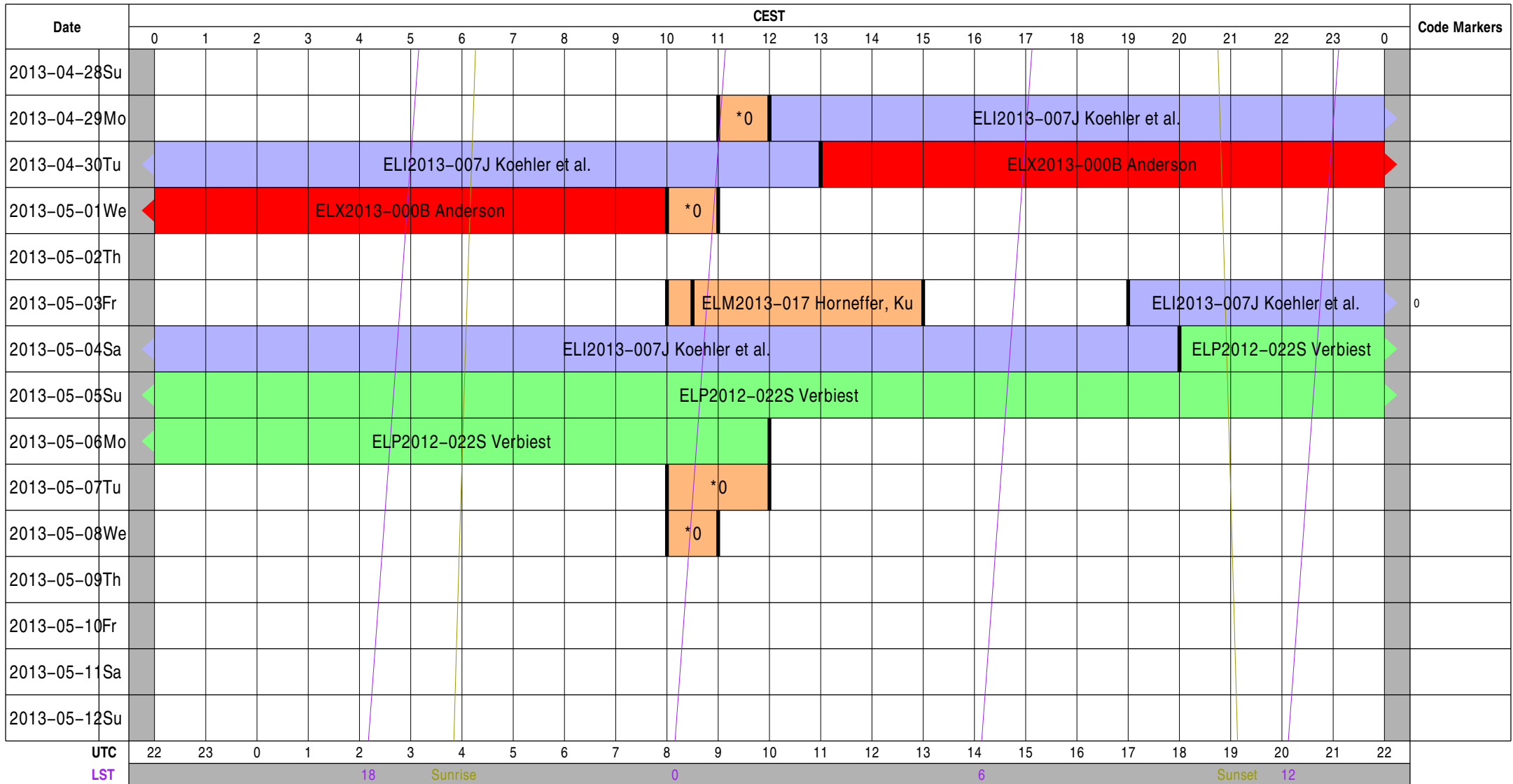
Other Code Markers

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 lofarx Computer MPIfR Effelsberg LOFAR Station 2013-04-28 through 2013-05-12

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Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

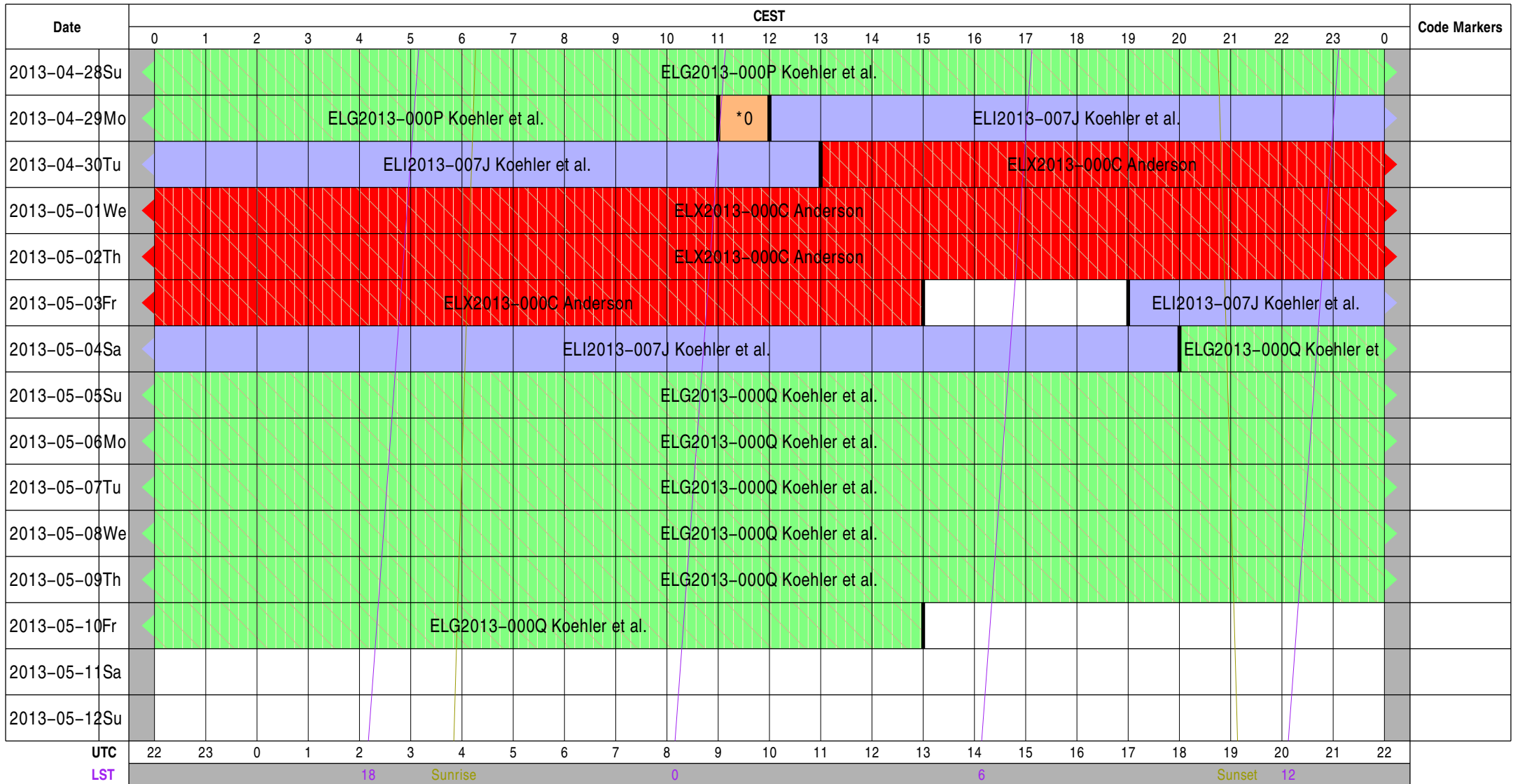
Other Code Markers

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 Iofarsrv Computer MPIfR Effelsberg LOFAR Station 2013-04-28 through 2013-05-12

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Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

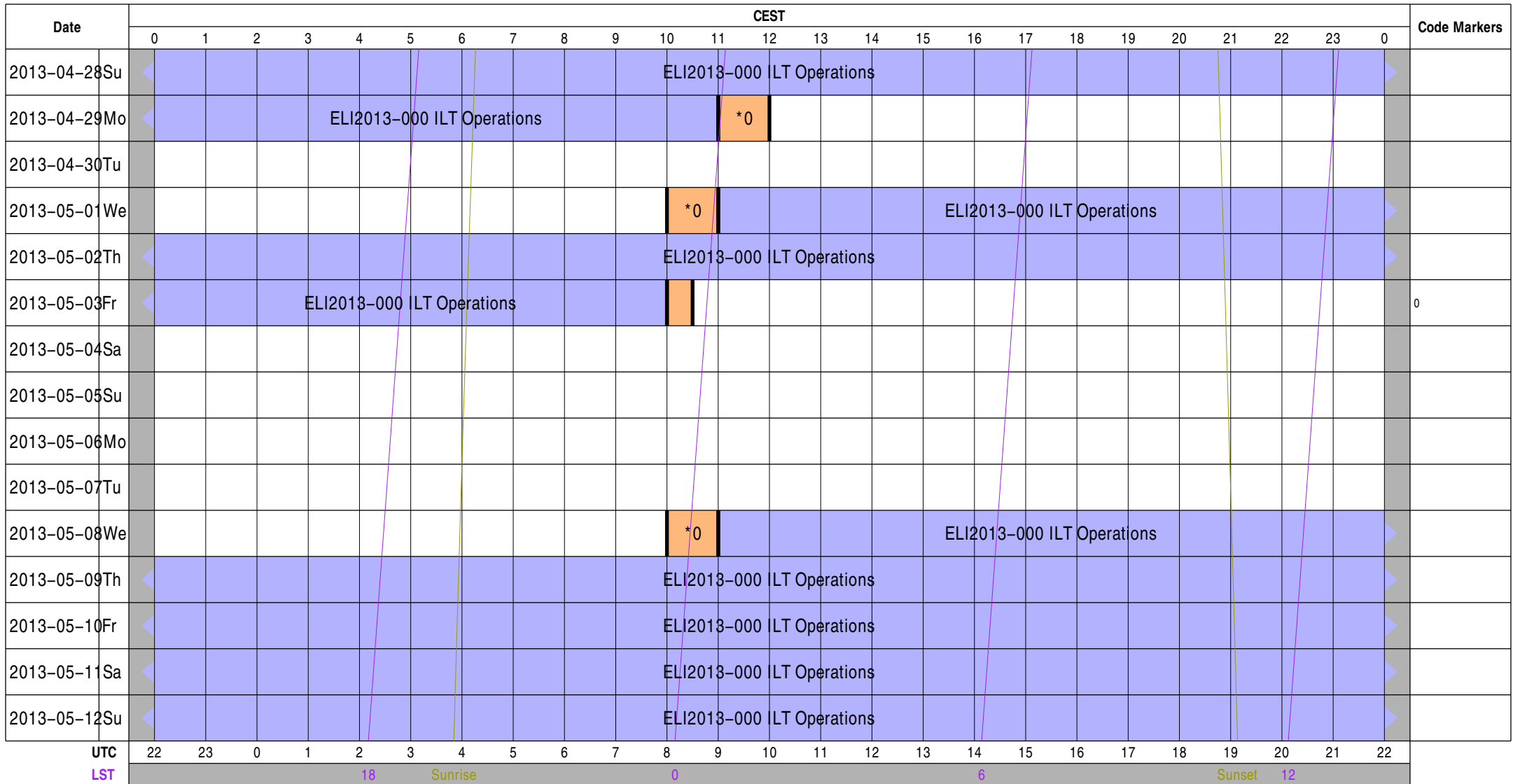
- | | | | |
|---------------------------|--------------------------|-------------------|---------------------------|
| Science A (Astrometry) | Science O (Other) | ILT Mode | Piggyback Without Control |
| Science C (Cosmology) | Science P (Pulsar) | Effelsberg Mode | Experiment Warning |
| Science E (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

2013-04-28 through 2013-05-12

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Normal Experiment Code Markers

0 ELM2013-012 Kuniyoshi, Horneff

Other Code Markers

Color Meanings

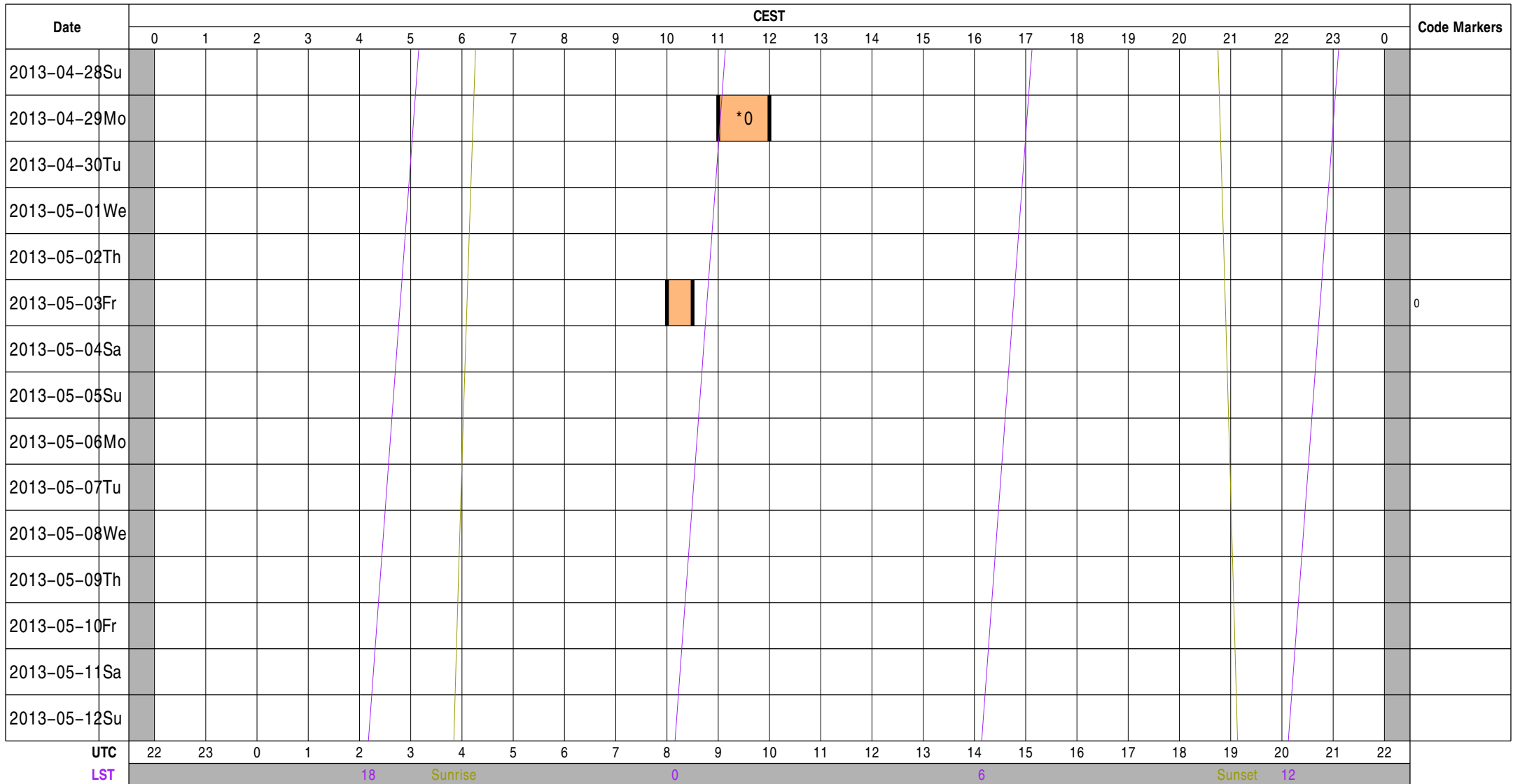
Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)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

Observing Plan for LOFAR Bonn--EF Fiber Connection

MPIfR Effelsberg LOFAR Station

2013-04-28 through 2013-05-12

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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 Operator On-Duty

MPIfR Effelsberg LOFAR Station

2013-04-28 through 2013-05-12

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Date	CEST																								Code Markers
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2013-04-28 Su	ELD2013-002 Kuniyoshi																								
2013-04-29 Mo	ELD2013-002 Kuniyoshi																								
2013-04-30 Tu	ELD2013-002 Kuniyoshi																								
2013-05-01 We	ELD2013-002 Kuniyoshi																								
2013-05-02 Th	ELD2013-002 Kuniyoshi																								
2013-05-03 Fr	ELD2013-002 Kuniyoshi																								
2013-05-04 Sa	ELD2013-002 Kuniyoshi																								
2013-05-05 Su	ELD2013-002 Kuniyoshi																								
2013-05-06 Mo	ELD2013-002 Kuniyoshi																								
2013-05-07 Tu	ELD2013-002 Kuniyoshi																								
2013-05-08 We	ELD2013-002 Kuniyoshi																								
2013-05-09 Th	ELD2013-002 Kuniyoshi																								
2013-05-10 Fr	ELD2013-002 Kuniyoshi																								
2013-05-11 Sa	ELD2013-002 Kuniyoshi																								
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 Sunrise 0 6 Sunset 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 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
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)
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)
ELM2013-017	Horneffer, Kuniyoshi	lofar-ops@mpi-fr-bonn.mpg.de	+49 228 525 505	Install new TBB memory modules (2013 May 03)
ELM2013-017	Horneffer, Kuniyoshi	lofar-ops@mpi-fr-bonn.mpg.de	+49 228 525 505	Install new TBB memory modules (2013 May 03)
ELP2012-013	Kuniyoshi	mkuniyos@mpi-fr-bonn.mpg.de	+49 228 525 505	testing station beam
ELP2012-013 A	Kuniyoshi	mkuniyos@mpi-fr-bonn.mpg.de	+49 228 525 505	testing station beam
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
ELX2013-000	Anderson	anderson@mpi-fr-bonn.mpg.de	+49 228 525 356	RSP boards not properly configured to send data after new s
ELX2013-000 B	Verbiest	verbiest@mpi-fr-bonn.mpg.de	+49 228 525 246	station beams not working properly after new station firmwa
ELX2013-000 B	Verbiest	verbiest@mpi-fr-bonn.mpg.de	+49 228 525 246	station beams not working properly after new station firmwa
ELX2013-000 C	Koehler	jana@mpi-fr-bonn.mpg.de	+49 228 525 533	station beams not working properly after new station firmwa
ELX2013-000 C	Koehler	jana@mpi-fr-bonn.mpg.de	+49 228 525 533	station beams not working properly after new station firmwa

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							174.00	35.00		174.00			
ELG2013-000 P								35.00					
ELG2013-000 P								35.00		35.00			
ELG2013-000 Q								139.00		139.00			
ELI2013-000	191.00	191.00	191.00	191.00	191.00	191.00							191.00
ELI2013-000	35.00	35.00	35.00	35.00	35.00	35.00							35.00
ELI2013-000	47.00	47.00	47.00	47.00	47.00	47.00							47.00
ELI2013-000	109.00	109.00	109.00	109.00	109.00	109.00							109.00
ELI2013-007	50.00	50.00	50.00	50.00			50.00	50.00	50.00	50.00			
ELI2013-007 J	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	3.50	3.50	3.50	3.50	3.50	3.50	1.00	1.00	5.50	1.00	3.50	1.50	
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	
ELM2013-012	1.00	1.00	1.00	1.00	1.00	1.00			1.00		1.00		
ELM2013-012	0.50	0.50	0.50	0.50	0.50	0.50			0.50		0.50	0.50	
ELM2013-012									2.00				
ELM2013-012	1.00	1.00	1.00	1.00	1.00	1.00			1.00		1.00		
ELM2013-017	4.50	4.50							4.50				
ELM2013-017	4.50	4.50							4.50				
ELP2012-013	25.00							25.00					
ELP2012-013 A	25.00							25.00					
ELP2012-022	40.00		40.00					40.00	40.00				
ELP2012-022 S	40.00		40.00					40.00	40.00				
ELX2013-000	21.00		21.00				74.00	74.00	21.00	74.00			
ELX2013-000 B	21.00		21.00					21.00	21.00				
ELX2013-000 B								24.00					
ELX2013-000 C								29.00					
ELX2013-000 C							74.00			74.00			

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=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) 48.33 9.72 48.33													
Science H (Ionosphere)													
Science N (AGN)													
Science O (Other)													
Science P (Pulsar) 18.06 11.11 18.06 11.11													
Science R (Cosmic Rays)													
Science S (Solar System)													
Test Observation													
Maintenance Mode 2.22 2.22 0.97 0.97 0.97 0.97 0.28 0.28 2.78 0.28 0.97 0.42													
ILT Mode 66.94 66.94 66.94 66.94 53.06 53.06 13.89 13.89 13.89 13.89 53.06													
Effelsberg Mode													
GLOW Mode													
Juelich Mode													
Station Failure 5.83 5.83 20.56 20.56 5.83 20.56													
Unknown Code													
Idle 6.94 30.83 15.14 32.08 45.97 45.97 16.94 37.50 66.39 16.94 45.97 99.58													
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													