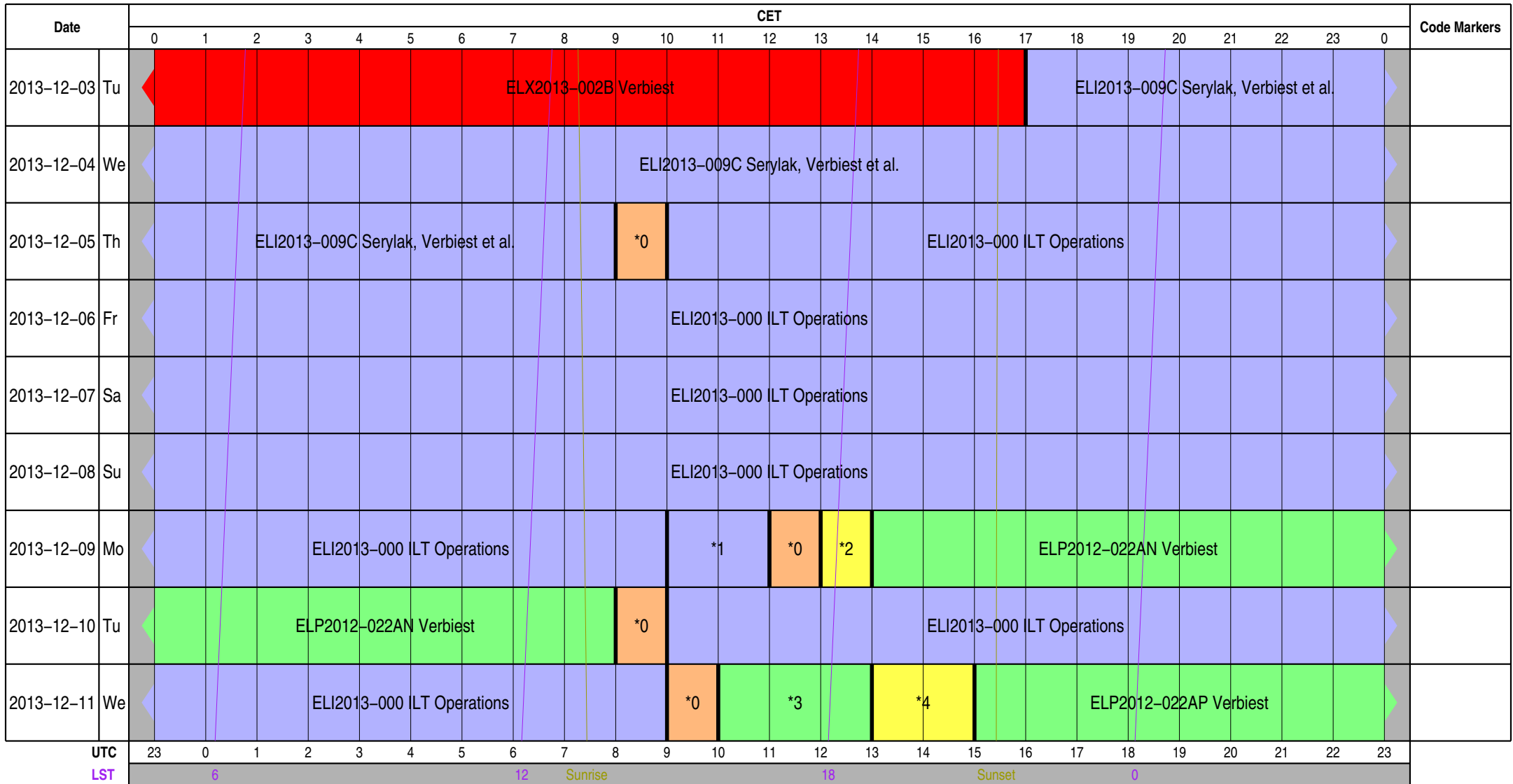


# Observing Plan for Station Control (LCU)

## MPIfR Effelsberg LOFAR Station

### 2013-12-03 through 2013-12-11



#### Normal Experiment Code Markers

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELI2013-010 ILT Operations
- 2 ELT2013-006C Horneffer
- 3 ELP2012-022AO Verbiest
- 4 ELT2013-006D Horneffer

#### Other Code Markers

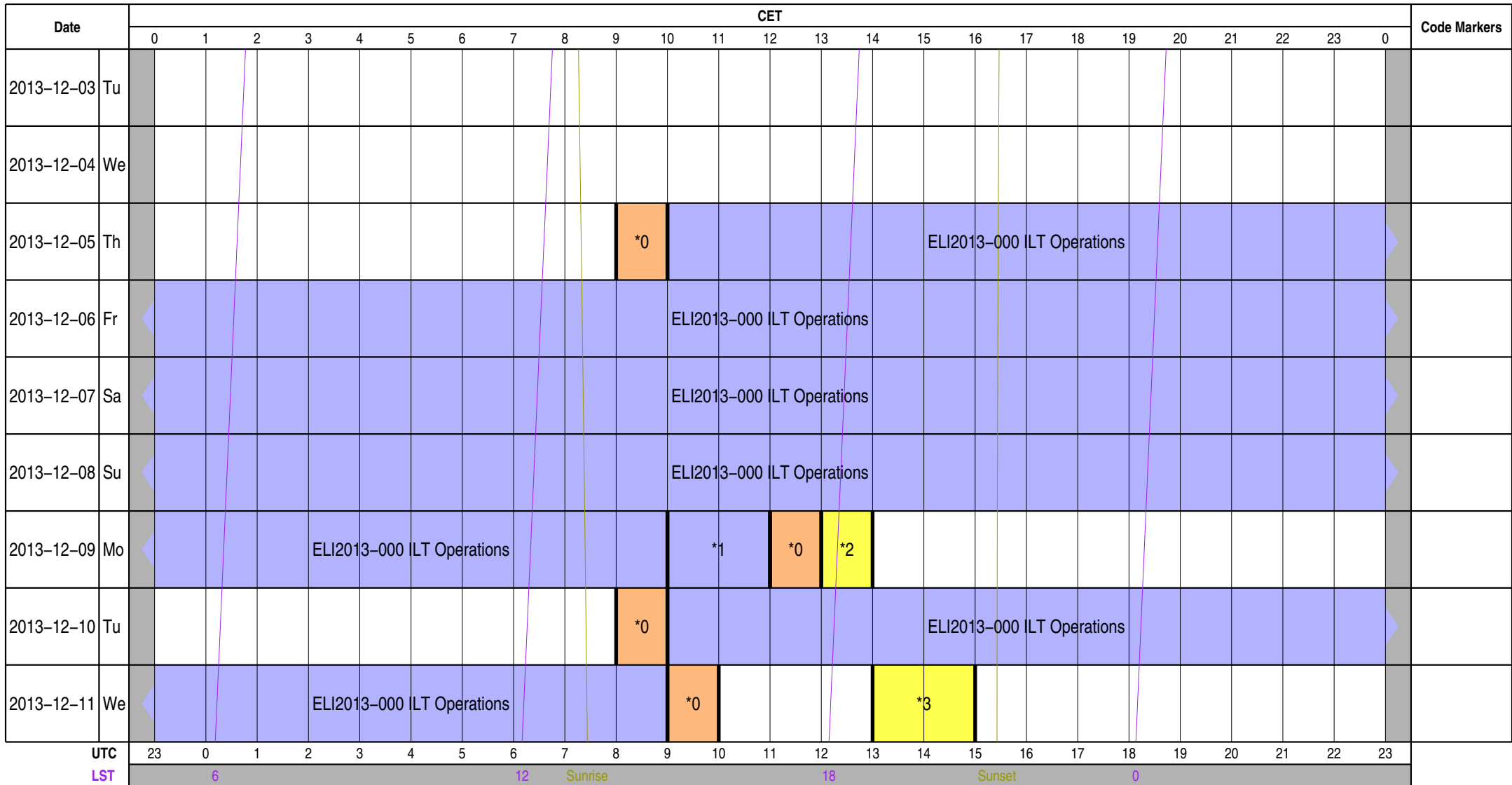
#### Color Meanings

- |                           |                          |                   |                           |
|---------------------------|--------------------------|-------------------|---------------------------|
| 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

### 2013-12-03 through 2013-12-11



**Normal Experiment Code Markers**

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELI2013-010 ILT Operations
- 2 ELT2013-006C Horneffer
- 3 ELT2013-006D Horneffer

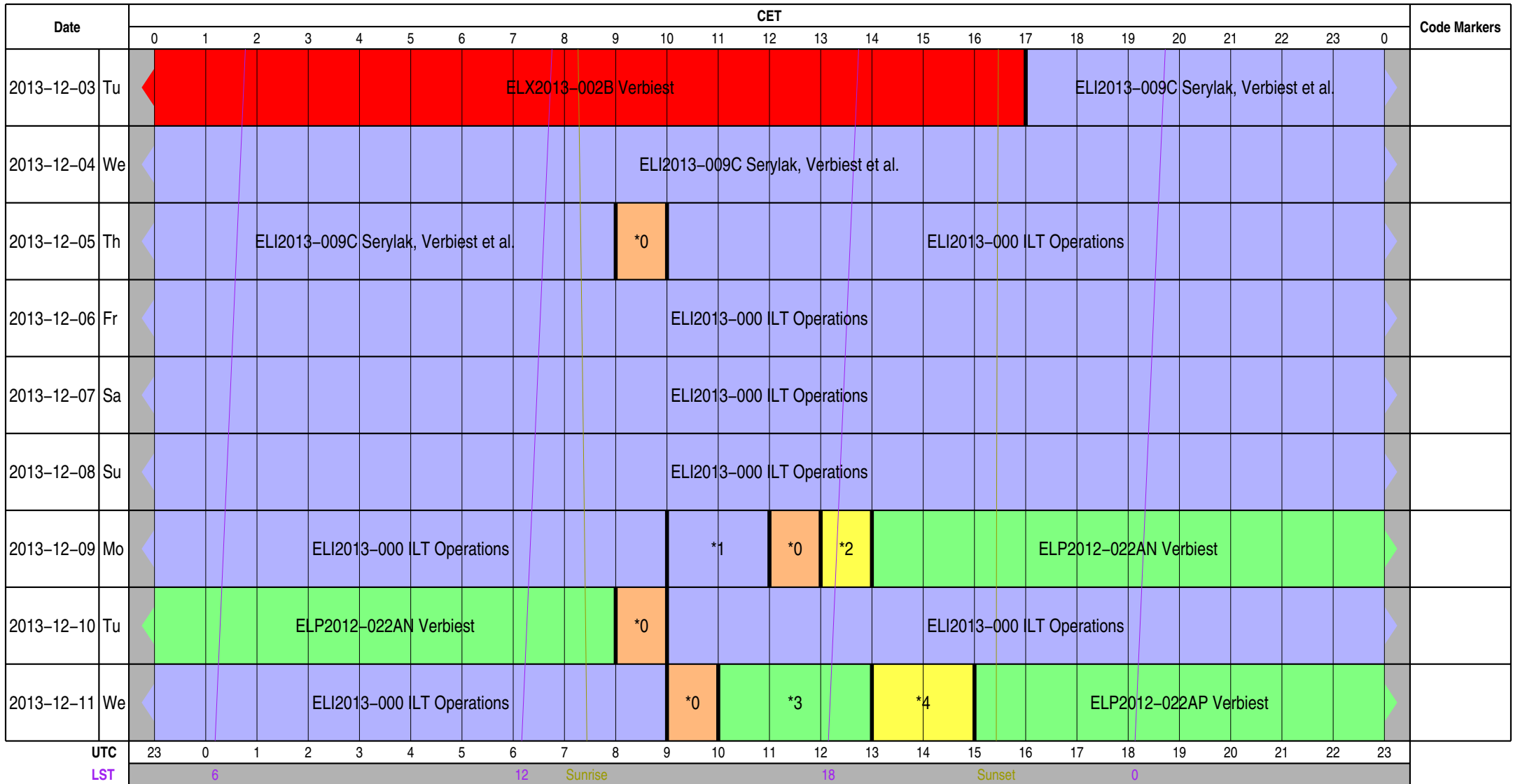
**Other Code Markers**

**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 2013-12-03 through 2013-12-11

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."



### Normal Experiment Code Markers

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELI2013-010 ILT Operations
- 2 ELT2013-006C Horneffer
- 3 ELP2012-022AO Verbiest
- 4 ELT2013-006D Horneffer

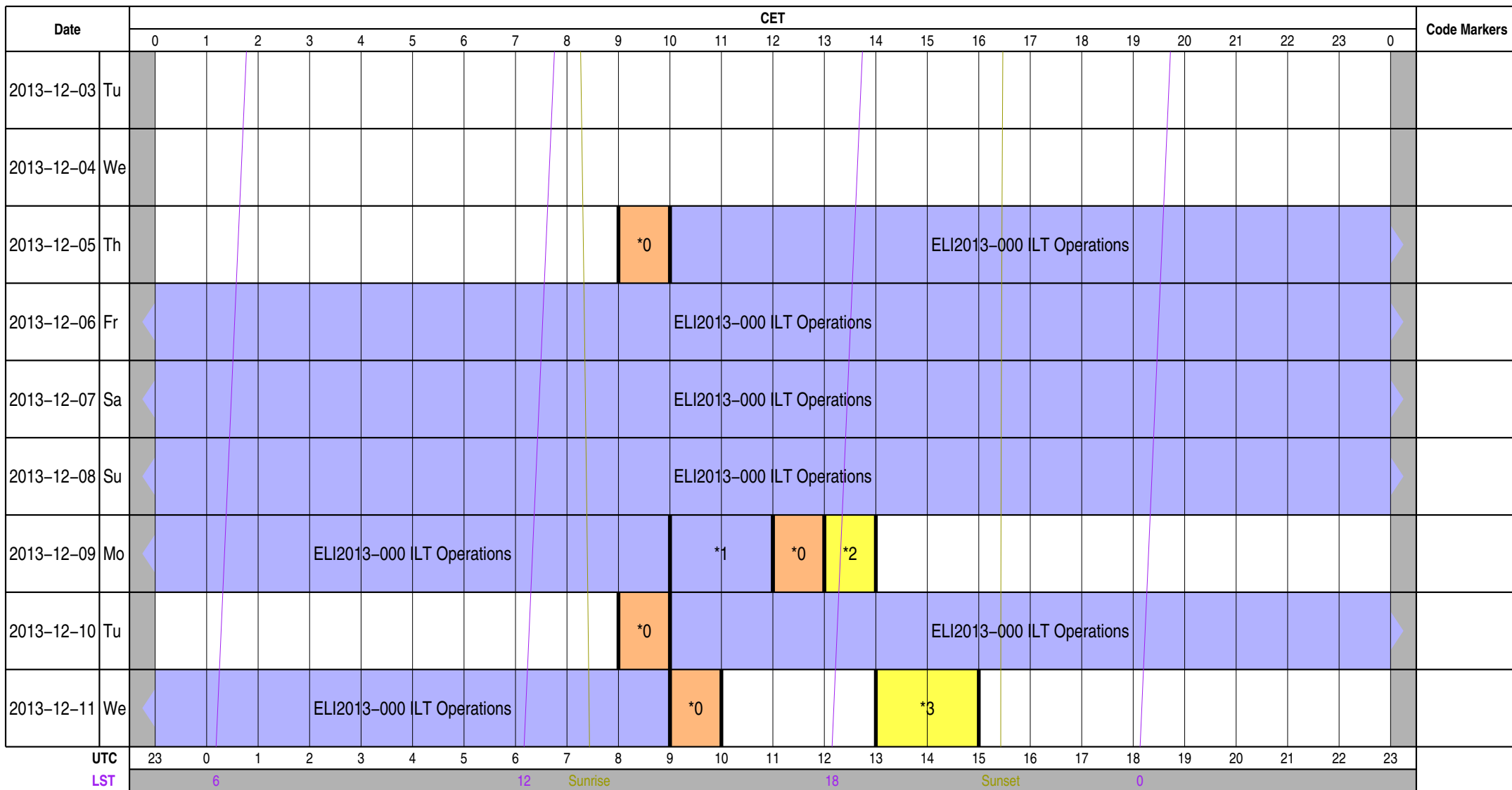
### Other Code Markers

### 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 2013-12-03 through 2013-12-11

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."



### Normal Experiment Code Markers

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELI2013-010 ILT Operations
- 2 ELT2013-006C Horneffer
- 3 ELT2013-006D Horneffer

### Other Code Markers

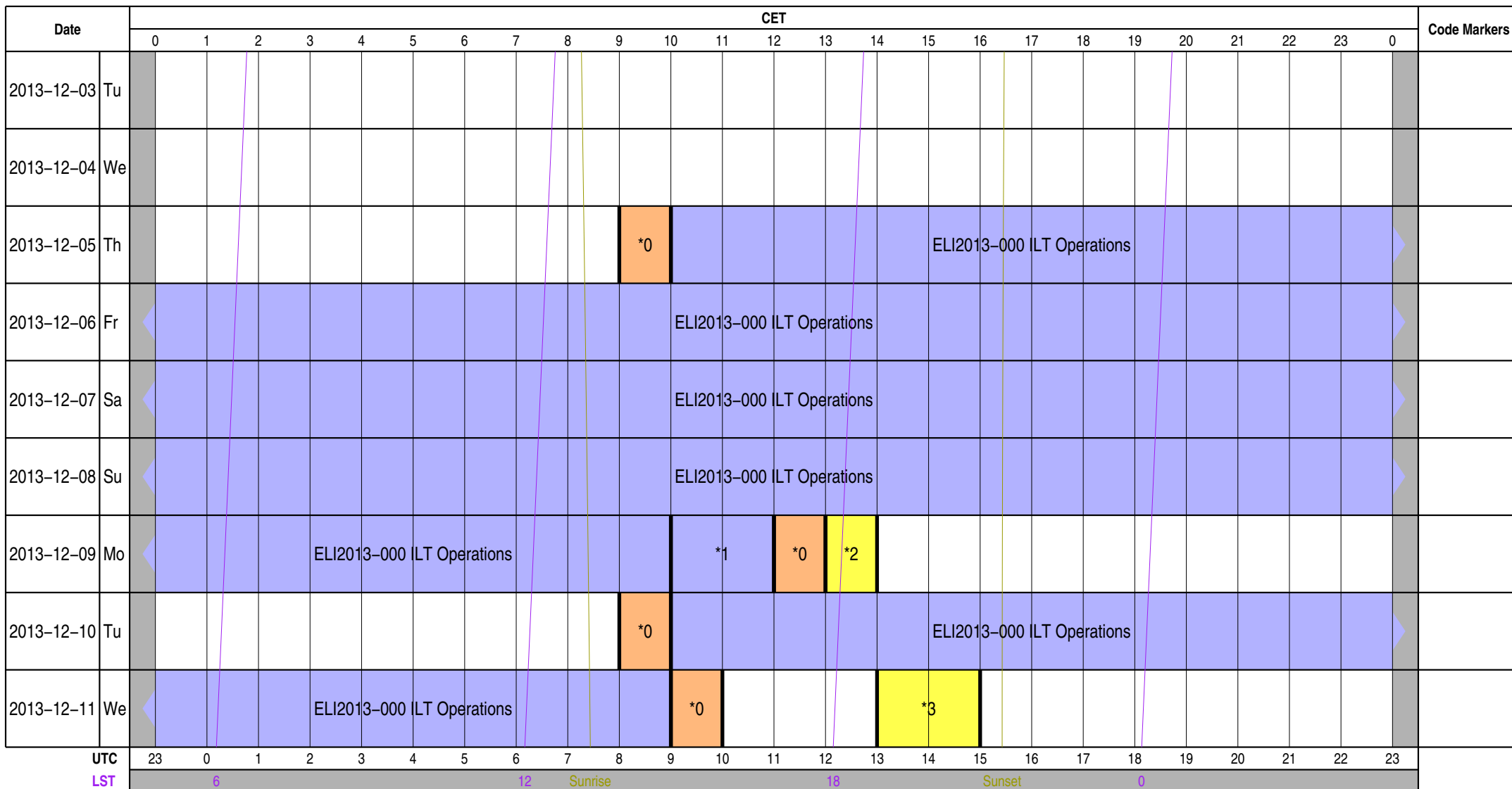
### Color Meanings

- |                           |                          |                   |                           |
|---------------------------|--------------------------|-------------------|---------------------------|
| 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

### 2013-12-03 through 2013-12-11



#### Normal Experiment Code Markers

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELI2013-010 ILT Operations
- 2 ELT2013-006C Horneffer
- 3 ELT2013-006D Horneffer

#### Other Code Markers

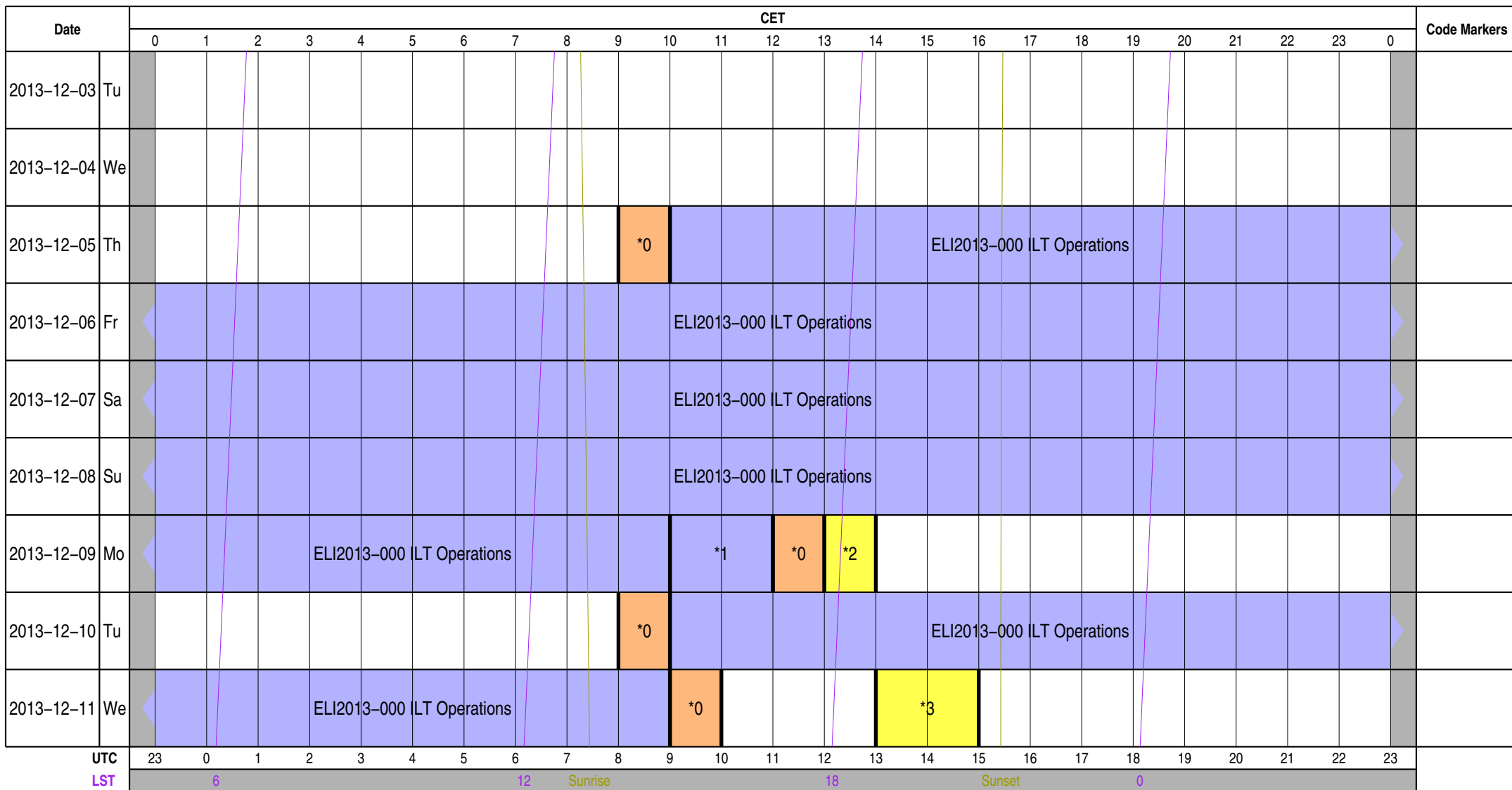
#### Color Meanings

- |                           |                          |                   |                           |
|---------------------------|--------------------------|-------------------|---------------------------|
| 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

### 2013-12-03 through 2013-12-11



**Normal Experiment Code Markers**

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELI2013-010 ILT Operations
- 2 ELT2013-006C Horneffer
- 3 ELT2013-006D Horneffer

**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

### 2013-12-03 through 2013-12-11

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	CET																								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
2013-12-03 Tu																										
2013-12-04 We																										
2013-12-05 Th																										
2013-12-06 Fr																										
2013-12-07 Sa																										
2013-12-08 Su																										
2013-12-09 Mo													*0	*1												
2013-12-10 Tu																										
2013-12-11 We													*0													

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

LST 6 12 Sunrise 18 Sunset 0

#### Normal Experiment Code Markers

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELT2013-006C Horneffer
- 2 ELT2013-006D Horneffer

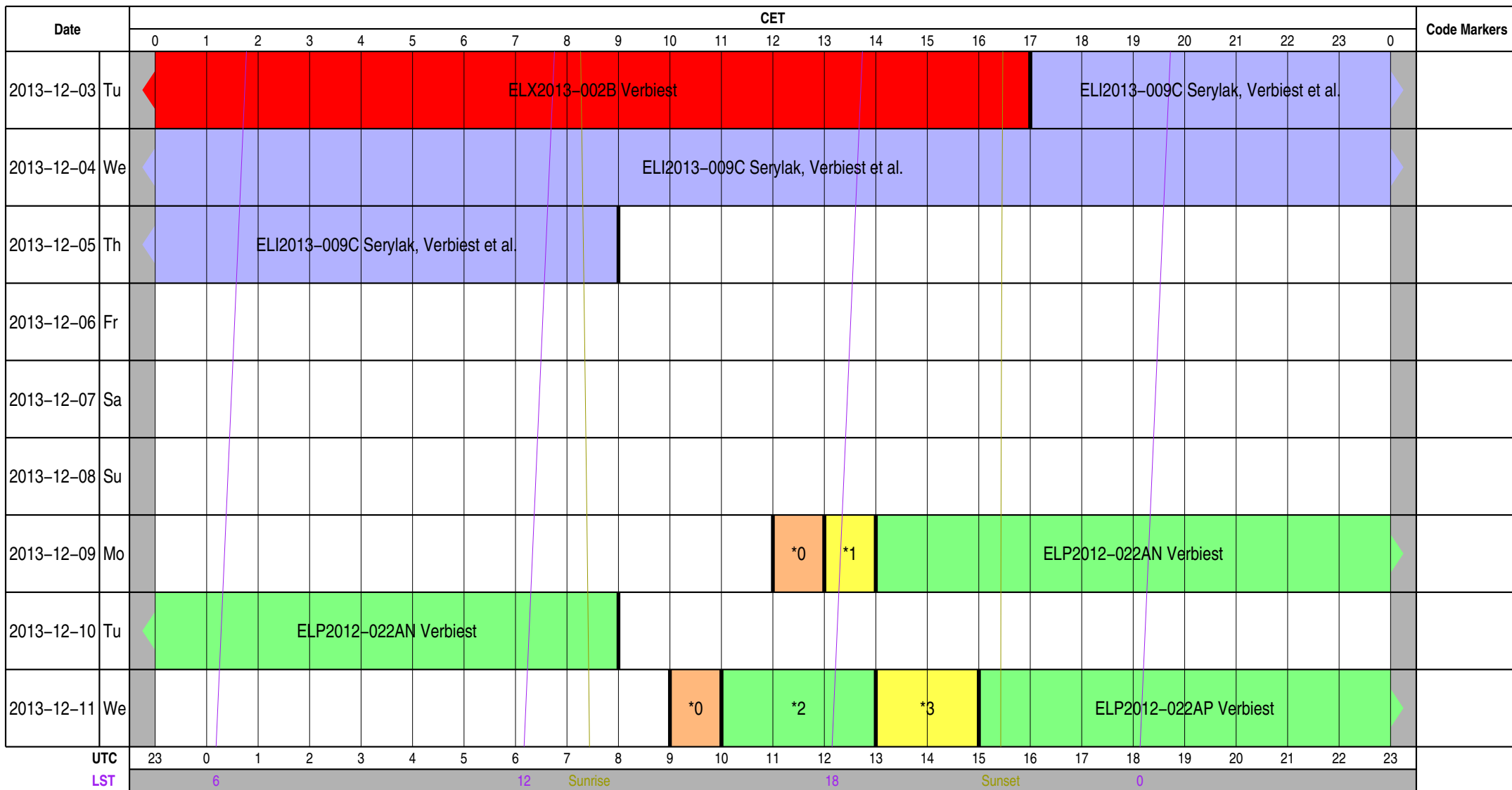
#### Other Code Markers

#### 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 2013-12-03 through 2013-12-11

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."



### Normal Experiment Code Markers

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELT2013-006C Horneffer
- 2 ELP2012-022AO Verbiest
- 3 ELT2013-006D Horneffer

### Other Code Markers

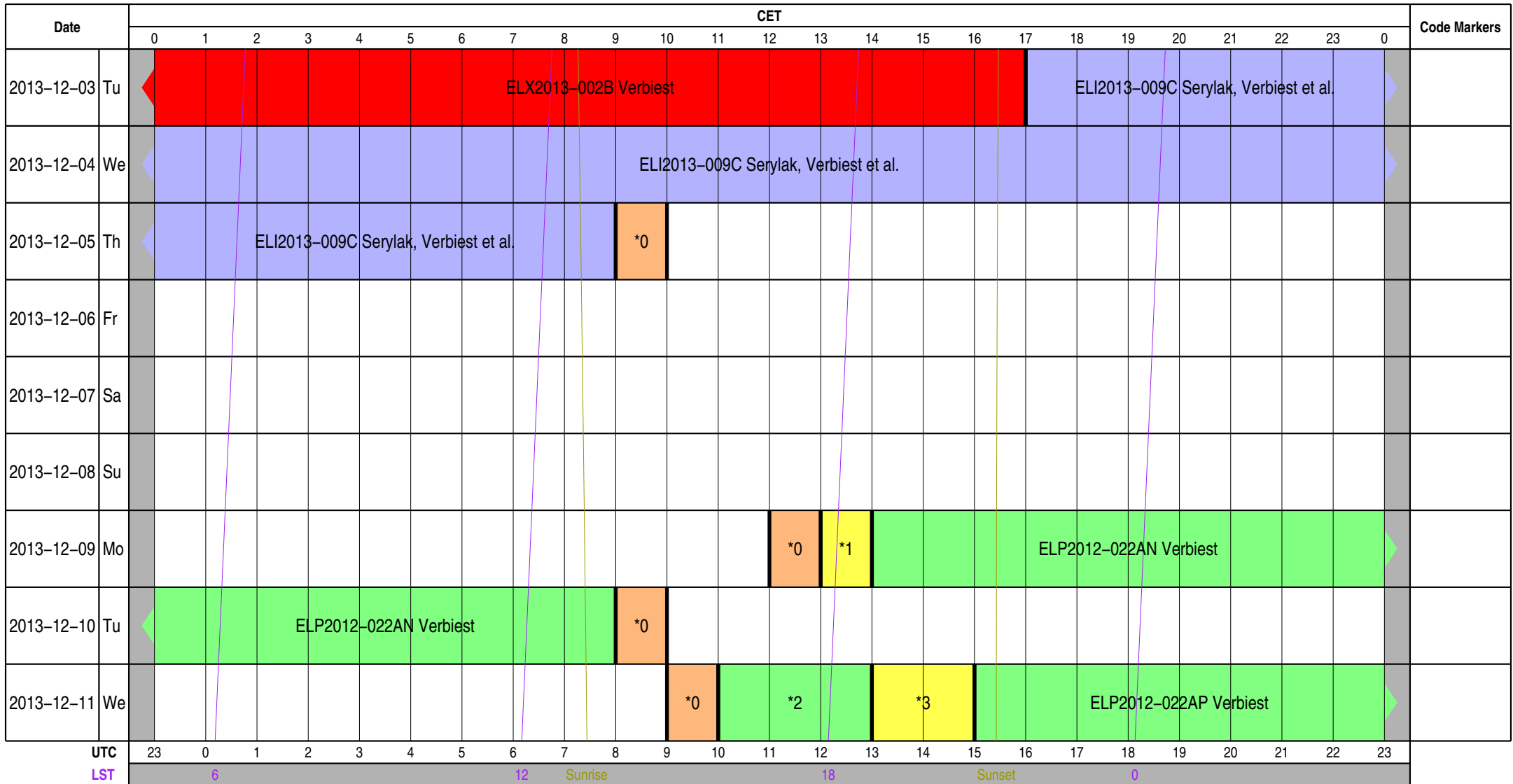
### Color Meanings

- |                           |                          |                   |                           |
|---------------------------|--------------------------|-------------------|---------------------------|
| 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 2013-12-03 through 2013-12-11

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."



### Normal Experiment Code Markers

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELT2013-006C Horneffer
- 2 ELP2012-022AO Verbiest
- 3 ELT2013-006D Horneffer

### 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 lofarsrv Computer

## MPIfR Effelsberg LOFAR Station

### 2013-12-03 through 2013-12-11

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	CET																								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
2013-12-03 Tu																										
2013-12-04 We																										
2013-12-05 Th																										
2013-12-06 Fr																										
2013-12-07 Sa																										
2013-12-08 Su																										
2013-12-09 Mo													*0	*1												
2013-12-10 Tu																										
2013-12-11 We													*0													
UTC	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
LST	6																									
								12	Sunrise					18		Sunset				0						

#### Normal Experiment Code Markers

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELT2013-006C Horneffer
- 2 ELT2013-006D Horneffer

#### Other Code Markers

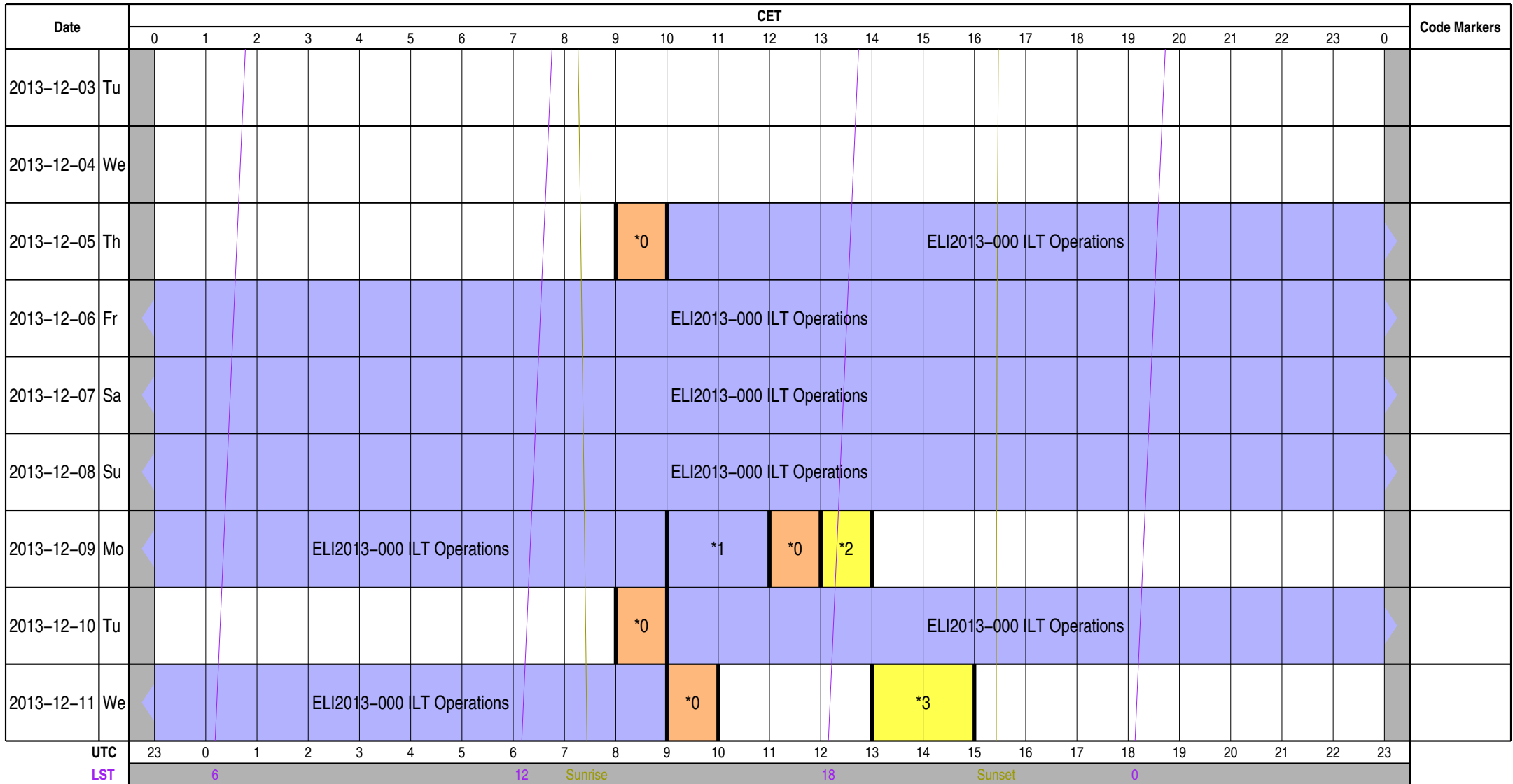
#### Color Meanings

- |                           |                          |                   |                           |
|---------------------------|--------------------------|-------------------|---------------------------|
| 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

### 2013-12-03 through 2013-12-11



**Normal Experiment Code Markers**

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELI2013-010 ILT Operations
- 2 ELT2013-006C Horneffer
- 3 ELT2013-006D Horneffer

**Other Code Markers**

**Color Meanings**

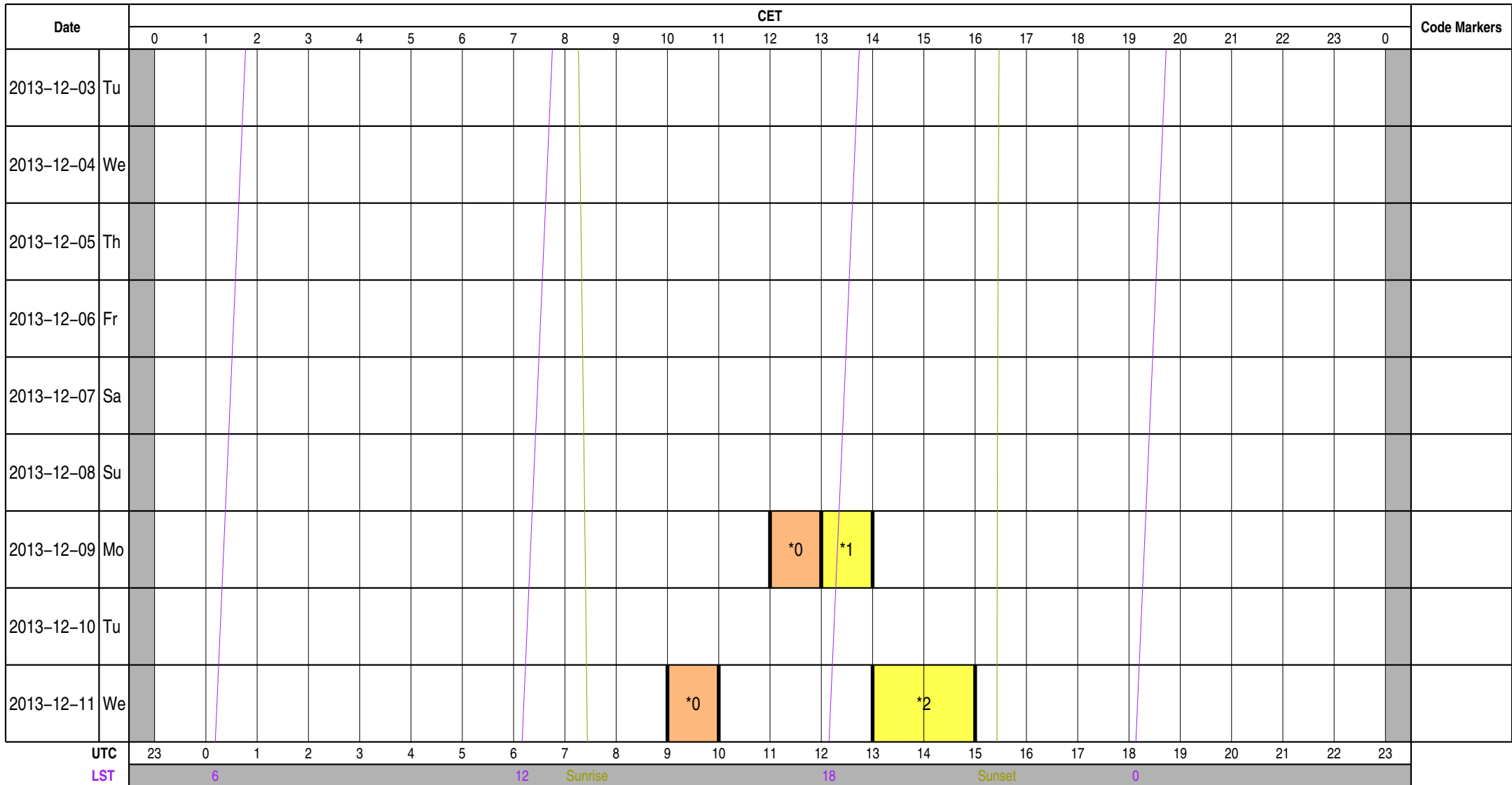
- |                           |                          |                   |                           |
|---------------------------|--------------------------|-------------------|---------------------------|
| Science A (Astrometry)    | Science O (Other)        | ILT Mode          | Piggyback Without 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

### 2013-12-03 through 2013-12-11

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."



#### Normal Experiment Code Markers

- 0 ELM2013-012 Kuniyoshi, Horneff
- 1 ELT2013-006C Horneffer
- 2 ELT2013-006D Horneffer

#### 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 |                           |



## Experiment Information for Normal Observations

<b>ELI2013-000</b>	<b>ILT Operations</b>	<b>observer@astron.nl</b>	<b>+31 521 595 777</b>	<b>Main ILT Observations, ILT Operations only on-duty 9--17, M</b>
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
<b>ELI2013-009</b>	<b>Serylak, Verbiest et al.</b>	<b>joris.verbiest@gmail.com</b>	<b>+49 521 106 3184</b>	<b>LC1_048 Studying Pulsars and the Interstellar Medium using</b>
ELI2013-009 C	Serylak, Verbiest et al.	joris.verbiest@gmail.com	+49 521 106 3184	LC1_048 Studying Pulsars and the Interstellar Medium using
<b>ELI2013-010</b>	<b>ILT Operations</b>	<b>observer@astron.nl</b>	<b>+31 521 595 777</b>	<b>Handover to local or GLOW mode delayed</b>
ELI2013-010	ILT Operations	observer@astron.nl	+31 521 595 777	Handover to local or GLOW mode delayed
<b>ELM2013-012</b>	<b>Kuniyoshi, Horneffer, Anderson</b>	<b>lofar-ops@mpifr-bonn.mpg.de</b>	<b>+49 228 525 356</b>	<b>Handover operations for local to ILT mode (MPIfR time)</b>
ELM2013-012	Kuniyoshi, Horneffer, Anderson	lofar-ops@mpifr-bonn.mpg.de	+49 228 525 356	Handover operations for local to ILT mode (MPIfR time)
ELM2013-012	Kuniyoshi, Horneffer, Anderson	lofar-ops@mpifr-bonn.mpg.de	+49 228 525 356	Handover operations for local to ILT mode (MPIfR time)
ELM2013-012	Kuniyoshi, Horneffer, Anderson	lofar-ops@mpifr-bonn.mpg.de	+49 228 525 356	Handover operations for local to ILT mode (MPIfR time)
<b>ELP2012-022</b>	<b>Verbiest</b>	<b>verbiest@mpifr-bonn.mpg.de</b>	<b>+49 228 525 246</b>	<b>Assessing the Timing Potential of LOFAR for Pulsars</b>
ELP2012-022 AN	Verbiest	verbiest@mpifr-bonn.mpg.de	+49 228 525 246	Assessing the Timing Potential of LOFAR for Pulsars
ELP2012-022 AO	Verbiest	verbiest@mpifr-bonn.mpg.de	+49 228 525 246	Assessing the Timing Potential of LOFAR for Pulsars
ELP2012-022 AP	Verbiest	verbiest@mpifr-bonn.mpg.de	+49 228 525 246	Assessing the Timing Potential of LOFAR for Pulsars
<b>ELT2013-006</b>	<b>Horneffer</b>	<b>ahorneffer@mpifr-bonn.mpg.de</b>	<b>+49 228 525 505</b>	<b>testing GLOW mode setup</b>
ELT2013-006 C	Horneffer	ahorneffer@mpifr-bonn.mpg.de	+49 228 525 505	testing GLOW mode setup
ELT2013-006 D	Horneffer	ahorneffer@mpifr-bonn.mpg.de	+49 228 525 505	testing GLOW mode setup
<b>ELX2013-002</b>	<b>Verbiest</b>	<b>verbiest@mpifr-bonn.mpg.de</b>	<b>+49 228 525 246</b>	<b>Loose fiber connector on switch S2</b>
ELX2013-002 B	Verbiest	verbiest@mpifr-bonn.mpg.de	+49 228 525 246	Loose fiber connector on switch S2

## Experiment Information for Other Actions

## Experiment Information for Operator On-Duty Schedule



## Time Usage [hours] for Normal Observations

Experiment Code	station	TBB	HBA	LBH	LBL	interfe	lofarAN	lofarBN	lofarx	lofarsr	fiber	BN--EF_	duty
<b>ELI2013-000</b>	<b>120.00</b>	<b>120.00</b>	<b>120.00</b>	<b>120.00</b>	<b>120.00</b>	<b>120.00</b>					<b>120.00</b>		
ELI2013-000	96.00	96.00	96.00	96.00	96.00	96.00					96.00		
ELI2013-000	24.00	24.00	24.00	24.00	24.00	24.00					24.00		
<b>ELI2013-009</b>	<b>40.00</b>		<b>40.00</b>					<b>40.00</b>	<b>40.00</b>				
ELI2013-009 C	40.00		40.00					40.00	40.00				
<b>ELI2013-010</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>					<b>2.00</b>		
ELI2013-010	2.00	2.00	2.00	2.00	2.00	2.00					2.00		
<b>ELM2013-012</b>	<b>4.00</b>	<b>4.00</b>	<b>4.00</b>	<b>4.00</b>	<b>4.00</b>	<b>4.00</b>	<b>2.00</b>	<b>2.00</b>	<b>4.00</b>	<b>2.00</b>	<b>4.00</b>	<b>2.00</b>	
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	
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	
<b>ELP2012-022</b>	<b>30.00</b>		<b>30.00</b>					<b>30.00</b>	<b>30.00</b>				
ELP2012-022 AN	19.00		19.00					19.00	19.00				
ELP2012-022 AO	3.00		3.00					3.00	3.00				
ELP2012-022 AP	8.00		8.00					8.00	8.00				
<b>ELT2013-006</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	
ELT2013-006 C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
ELT2013-006 D	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	
<b>ELX2013-002</b>	<b>17.00</b>		<b>17.00</b>					<b>17.00</b>	<b>17.00</b>				
ELX2013-002 B	17.00		17.00					17.00	17.00				

# Time Usage [hours] for Other Actions

Experiment Code      station      TBB      HBA      LBH      LBL      interfe      lofarAN      lofarBN      lofarx      lofarsr      fiber BN--EF\_      duty

# Time Usage [hours] for Operator On-Duty Schedule

Experiment Code

station

TBB

HBA

LBH

LBL

interfe

lofarAN

lofarBN

lofarx

lofarsr

fiber

BN--EF\_

duty



