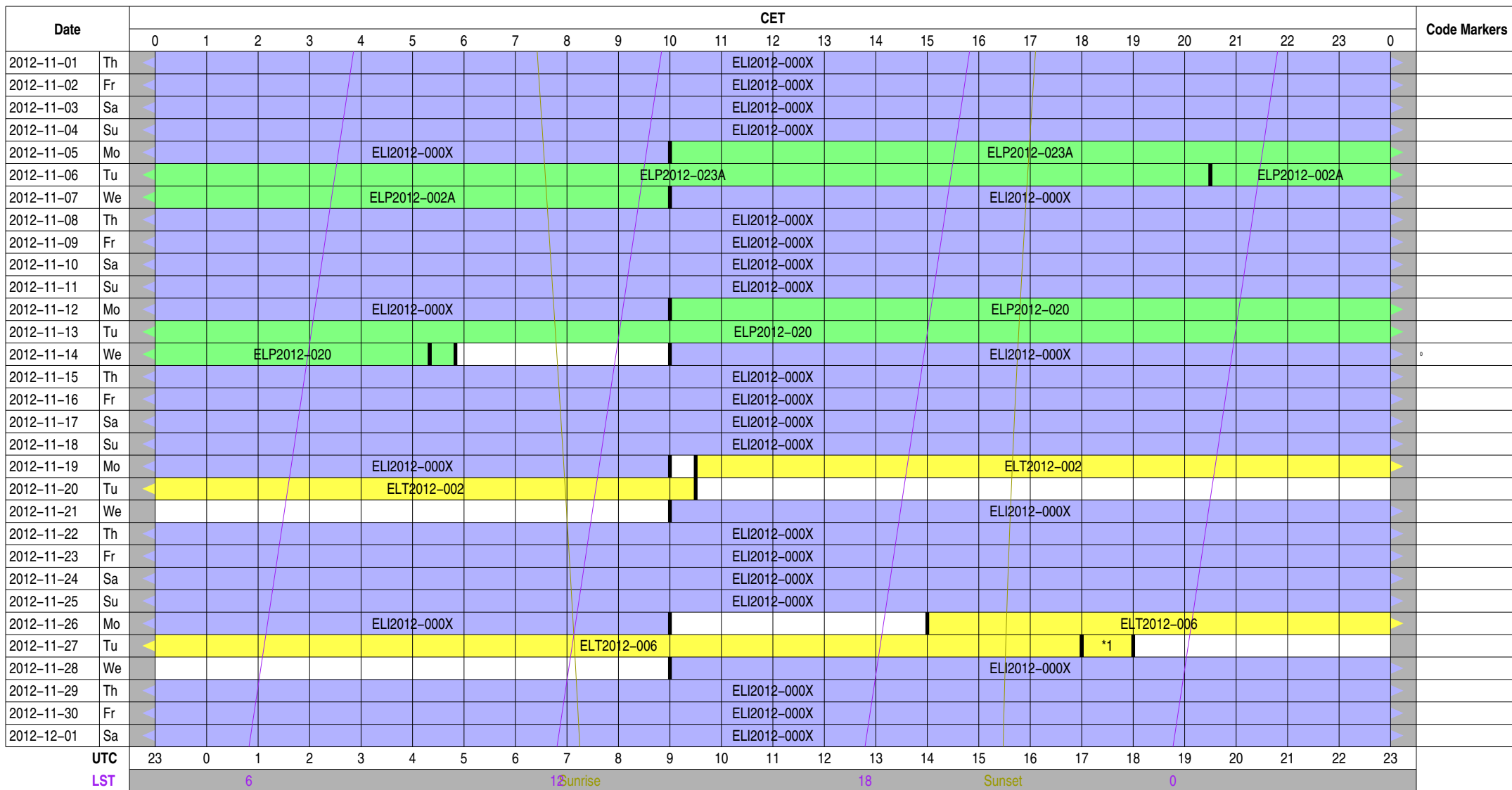


# Observing Plan for Station Control (LCU)

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01

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 ELP2012-023A
- 1 ELT2012-007

#### Other Experiment Code Markers

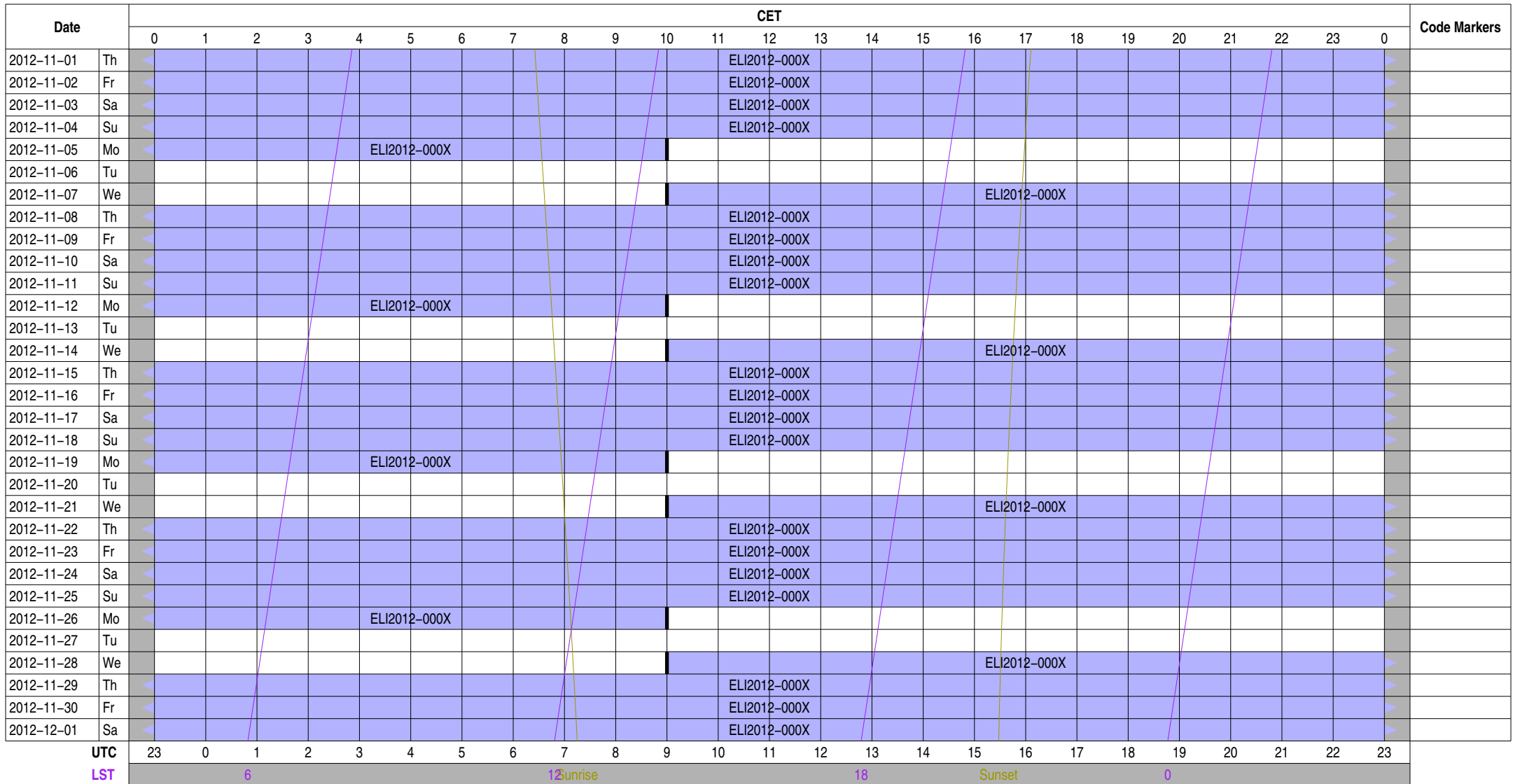
#### Color Meanings

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

# Observing Plan for Transient Buffer Boards

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01



**Normal Experiment Code Markers**

**Other Experiment Code Markers**

**Color Meanings**

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

# Observing Plan for HBA MPIfR Effelsberg LOFAR Station 2012-11-01 through 2012-12-01

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
2012-11-01	Th												ELI2012-000X														
2012-11-02	Fr												ELI2012-000X														
2012-11-03	Sa												ELI2012-000X														
2012-11-04	Su												ELI2012-000X														
2012-11-05	Mo					ELI2012-000X													ELP2012-023A								
2012-11-06	Tu									ELP2012-023A																ELP2012-002A	
2012-11-07	We					ELP2012-002A													ELI2012-000X								
2012-11-08	Th												ELI2012-000X														
2012-11-09	Fr												ELI2012-000X														
2012-11-10	Sa												ELI2012-000X														
2012-11-11	Su												ELI2012-000X														
2012-11-12	Mo					ELI2012-000X													ELP2012-020								
2012-11-13	Tu												ELP2012-020														
2012-11-14	We			ELP2012-020															ELI2012-000X								
2012-11-15	Th												ELI2012-000X														
2012-11-16	Fr												ELI2012-000X														
2012-11-17	Sa												ELI2012-000X														
2012-11-18	Su												ELI2012-000X														
2012-11-19	Mo					ELI2012-000X																					
2012-11-20	Tu																										
2012-11-21	We																		ELI2012-000X								
2012-11-22	Th												ELI2012-000X														
2012-11-23	Fr												ELI2012-000X														
2012-11-24	Sa												ELI2012-000X														
2012-11-25	Su												ELI2012-000X														
2012-11-26	Mo					ELI2012-000X																					
2012-11-27	Tu																										
2012-11-28	We																		ELI2012-000X								
2012-11-29	Th												ELI2012-000X														
2012-11-30	Fr												ELI2012-000X														
2012-12-01	Sa												ELI2012-000X														

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 ELP2012-023A

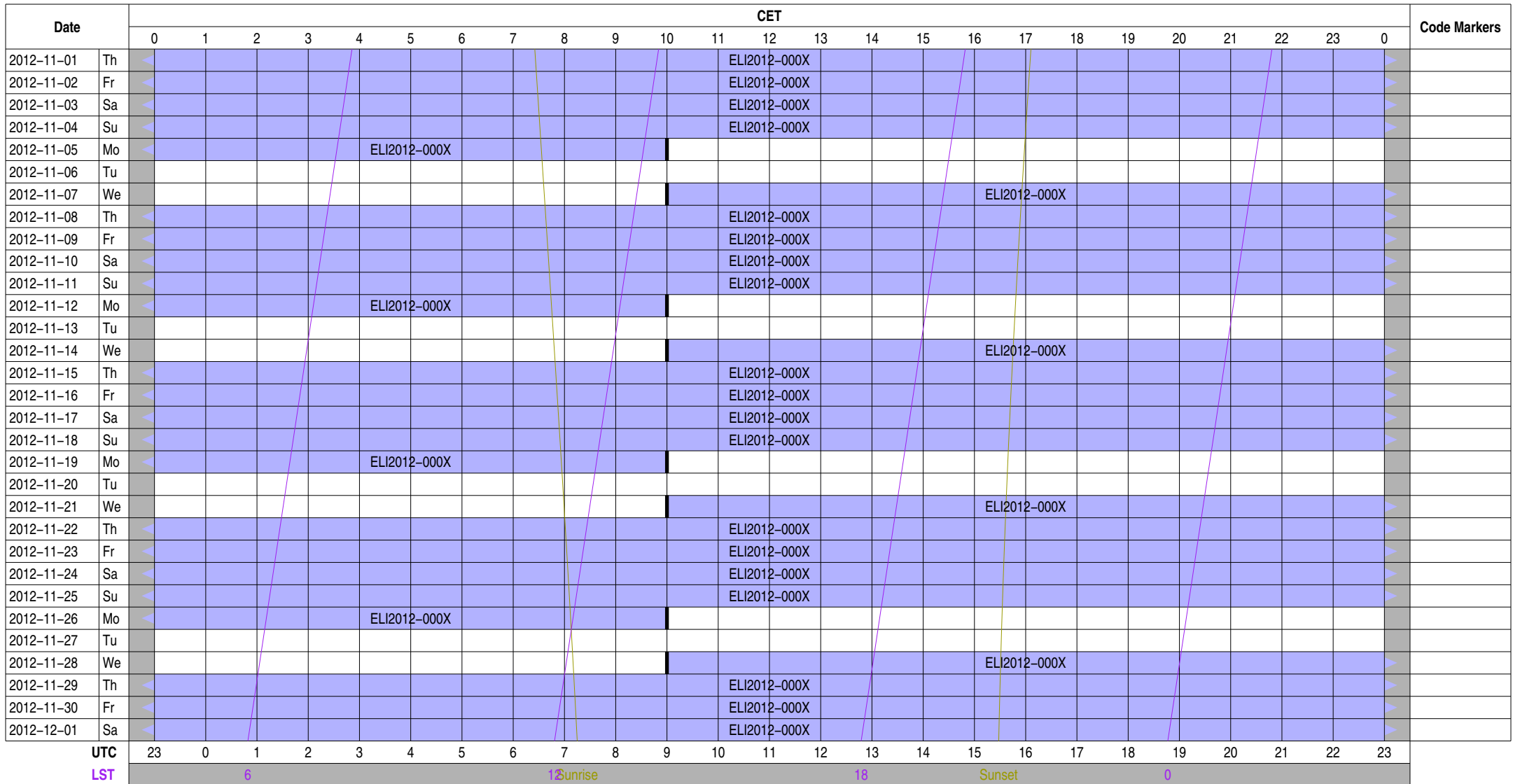
### Other Experiment Code Markers

### Color Meanings

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

# Observing Plan for Low Band High (LBA) MPIfR Effelsberg LOFAR Station 2012-11-01 through 2012-12-01

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

### Other Experiment Code Markers

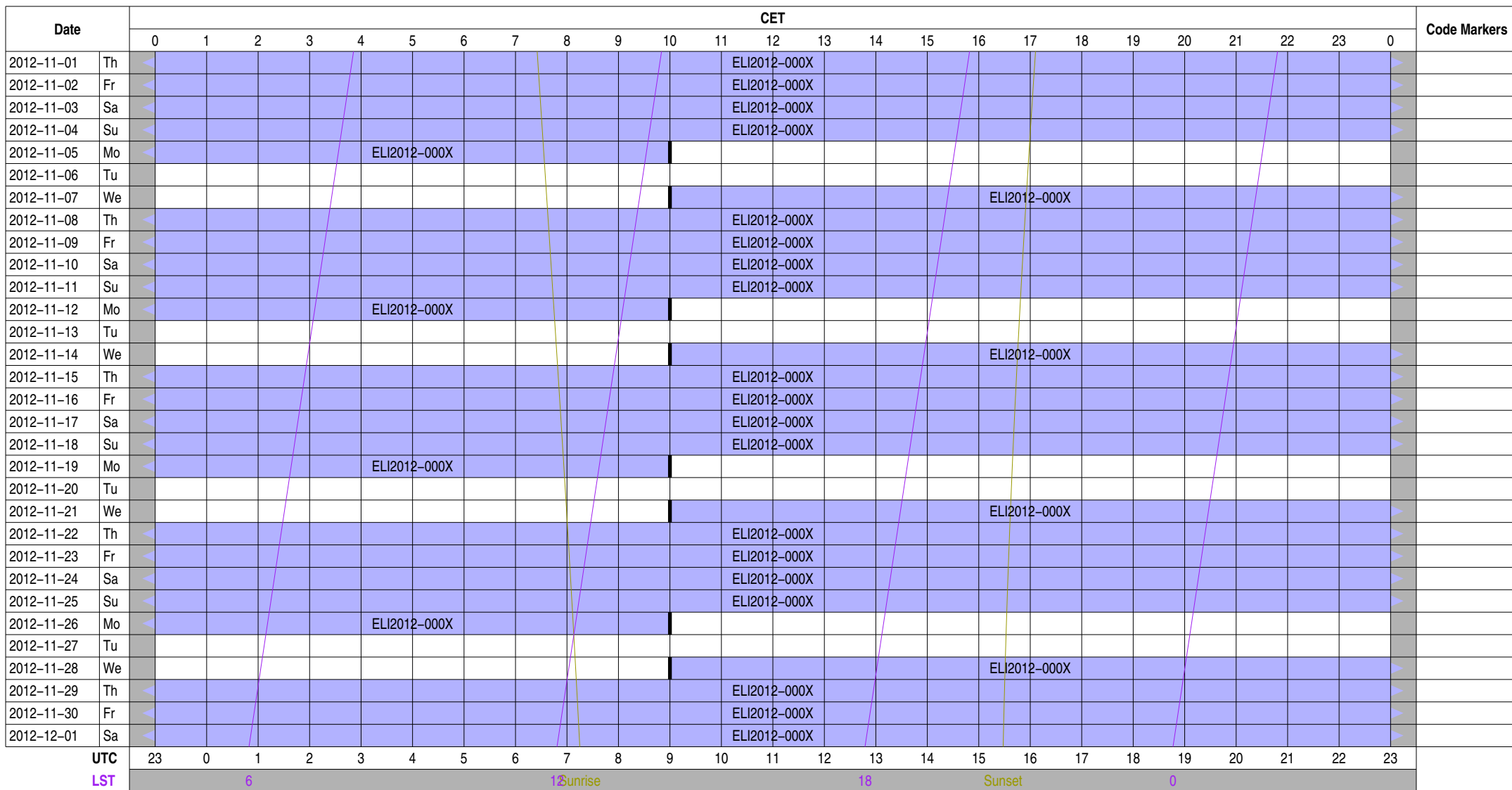
### Color Meanings

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

# Observing Plan for Low Band Low, Unused Inputs

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01



#### Normal Experiment Code Markers

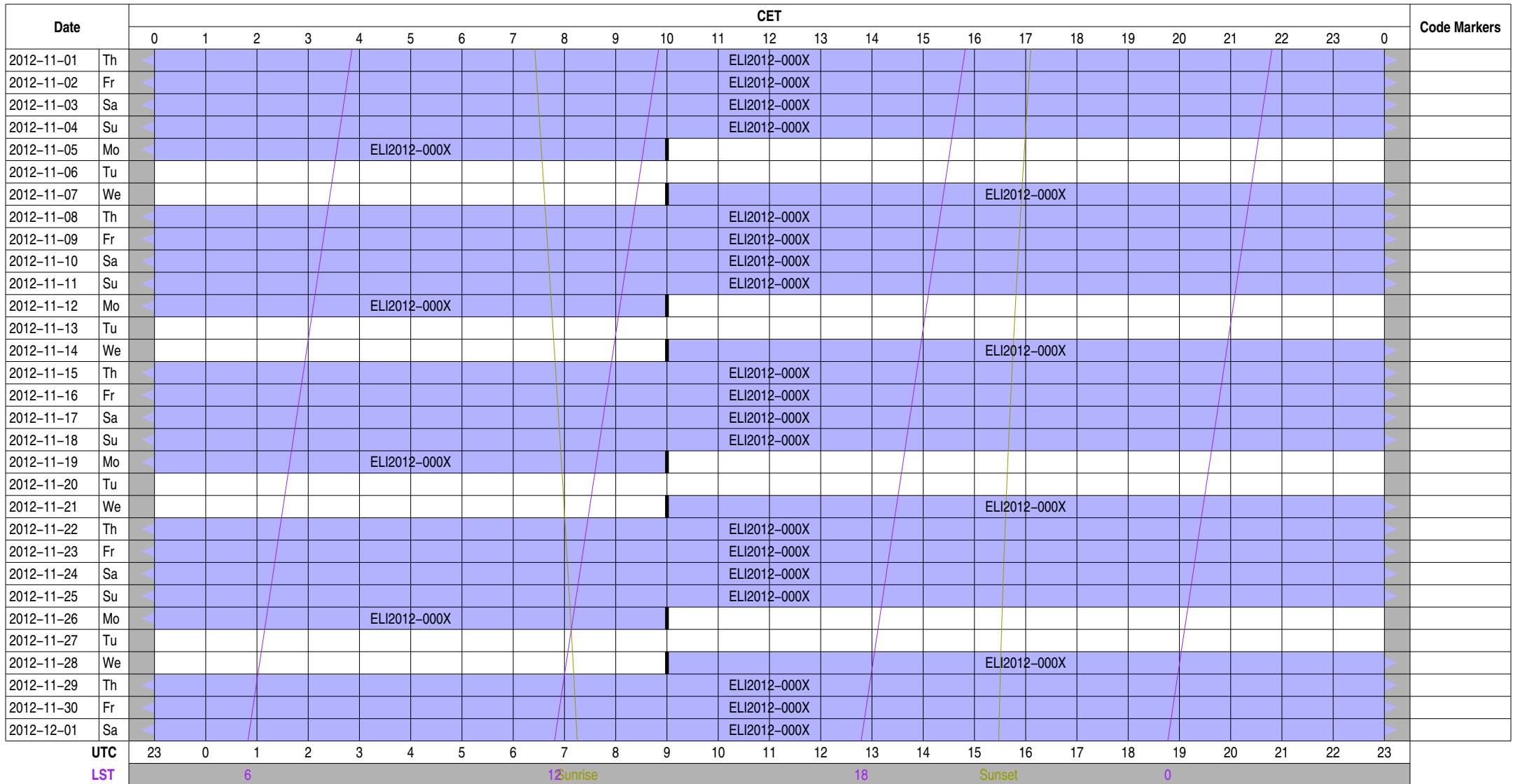
#### Other Experiment Code Markers

#### Color Meanings

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

# Observing Plan for Station Interferometer MPIfR Effelsberg LOFAR Station 2012-11-01 through 2012-12-01

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**

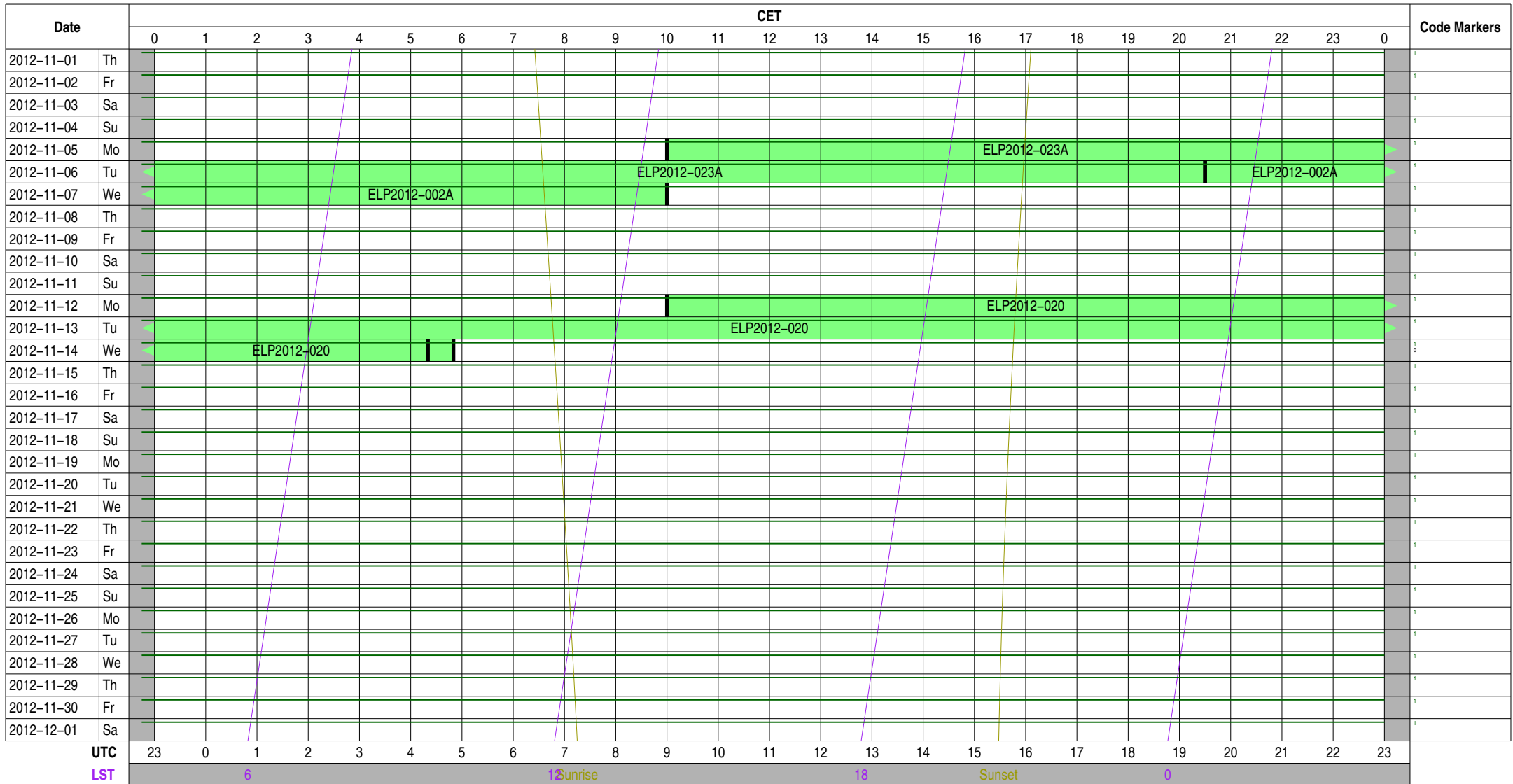
**Other Experiment Code Markers**

**Color Meanings**

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

# Observing Plan for lofar1 Computer MPIfR Effelsberg LOFAR Station 2012-11-01 through 2012-12-01

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 ELP2012-023A

### Other Experiment Code Markers

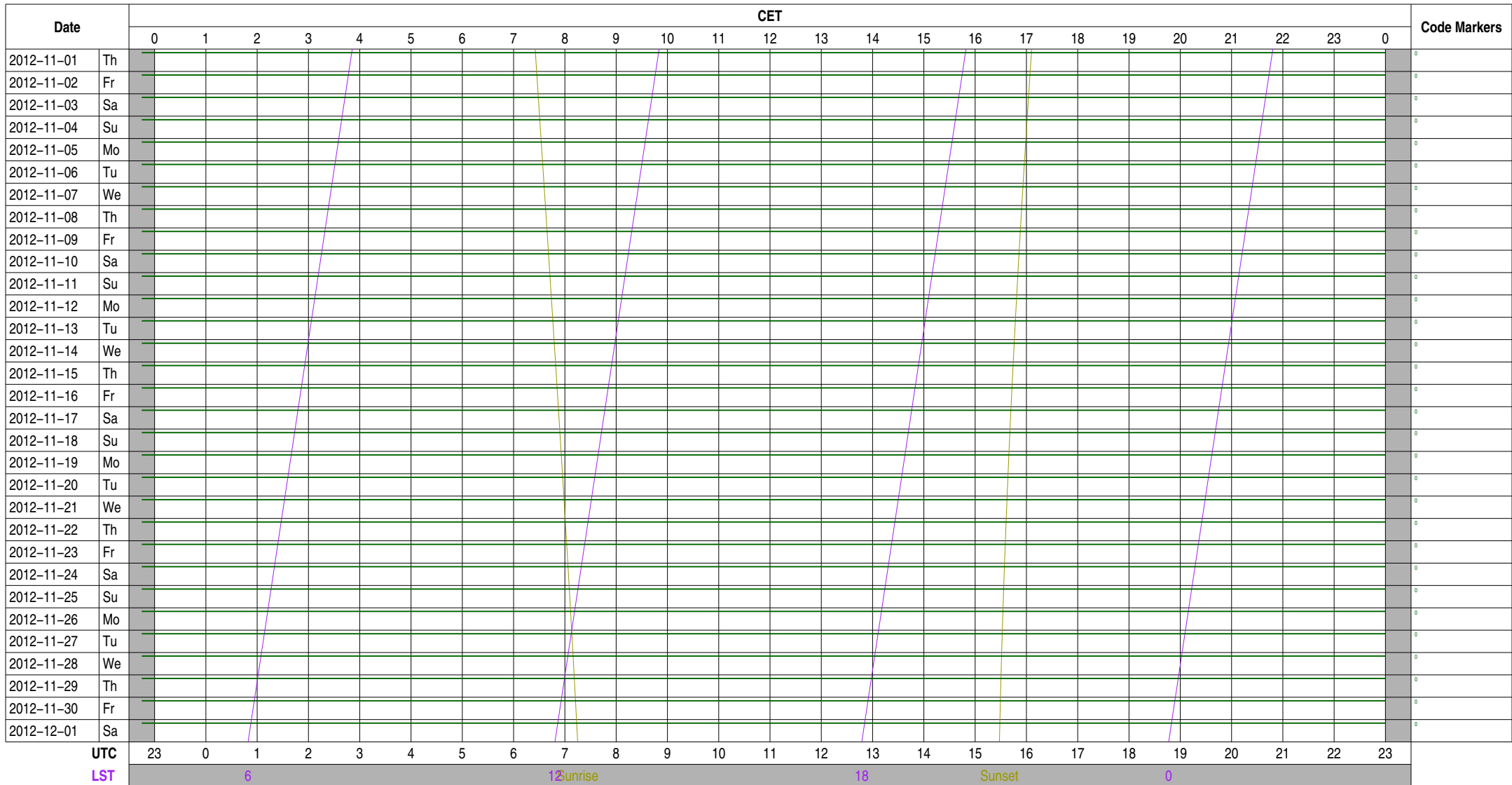
1 ELP2012-008

### Color Meanings

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

# Observing Plan for lofar2 Computer MPIfR Effelsberg LOFAR Station 2012-11-01 through 2012-12-01

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**

**Other Experiment Code Markers**

**Color Meanings**

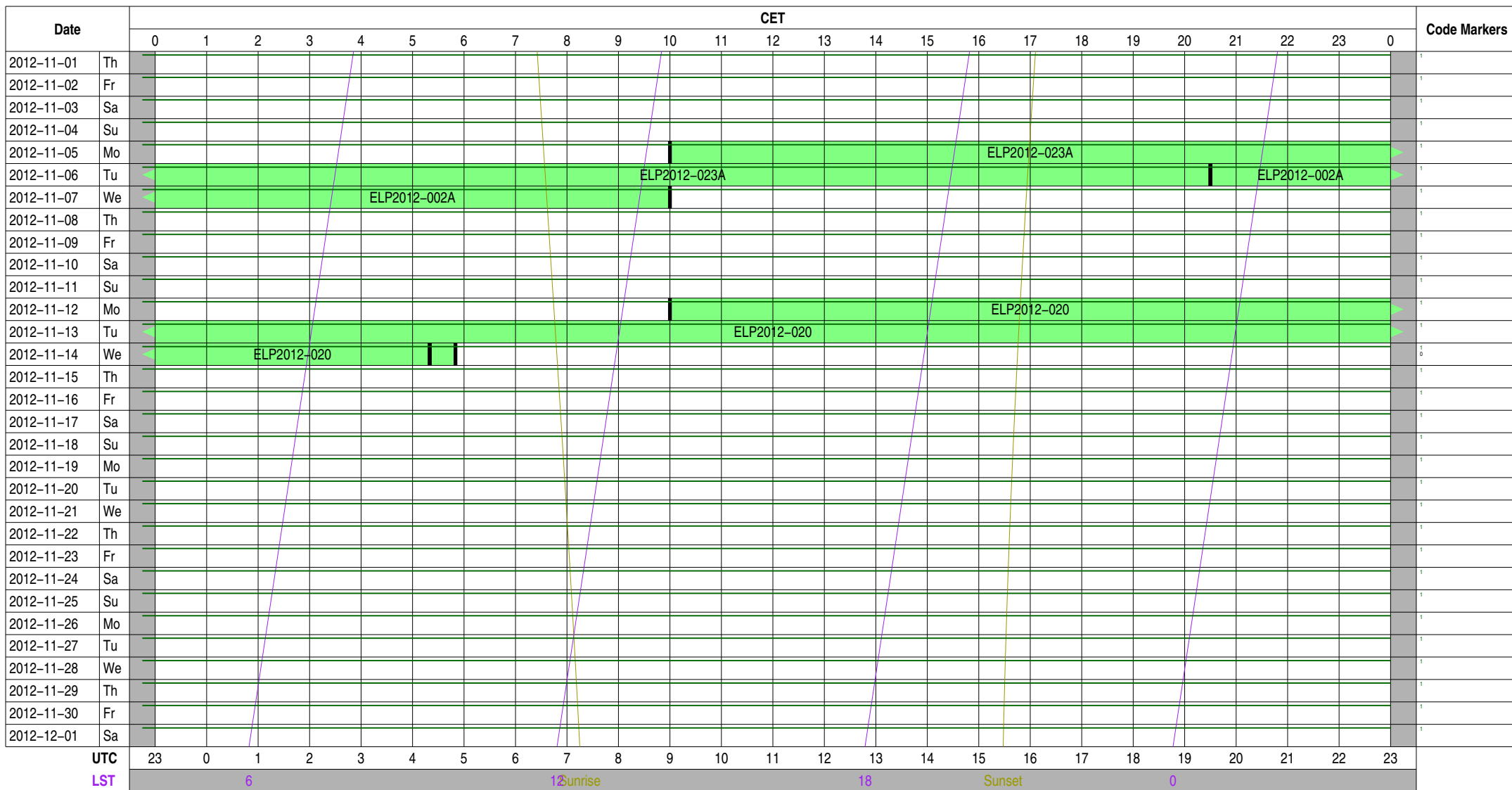
0 ELP2012-008

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



# Observing Plan for lofar3 Computer MPIfR Effelsberg LOFAR Station 2012-11-01 through 2012-12-01

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 ELP2012-023A

### Other Experiment Code Markers

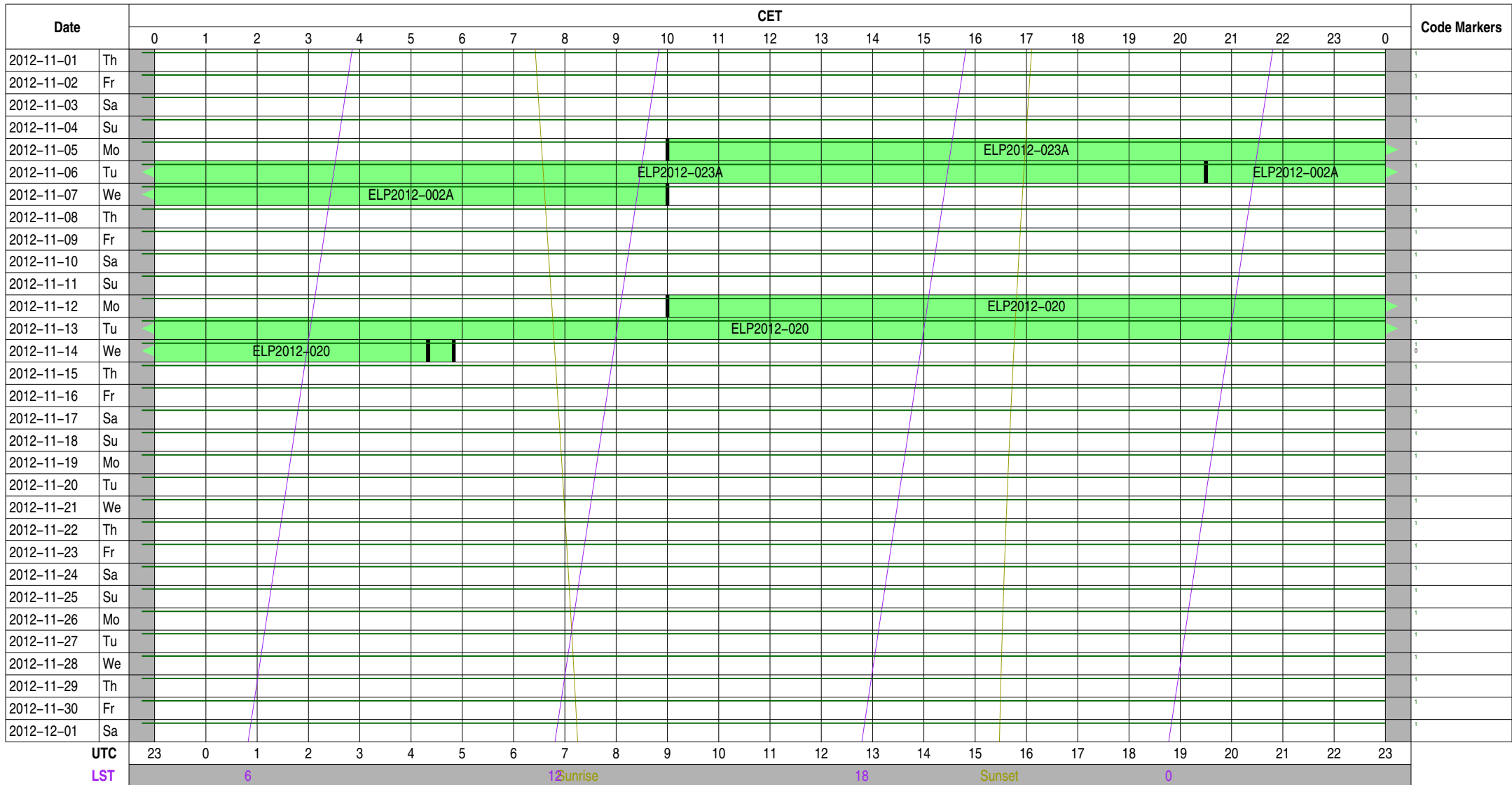
1 ELP2012-008

### Color Meanings

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

# Observing Plan for lofar4 Computer MPIfR Effelsberg LOFAR Station 2012-11-01 through 2012-12-01

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 ELP2012-023A

### Other Experiment Code Markers

1 ELP2012-008

### Color Meanings

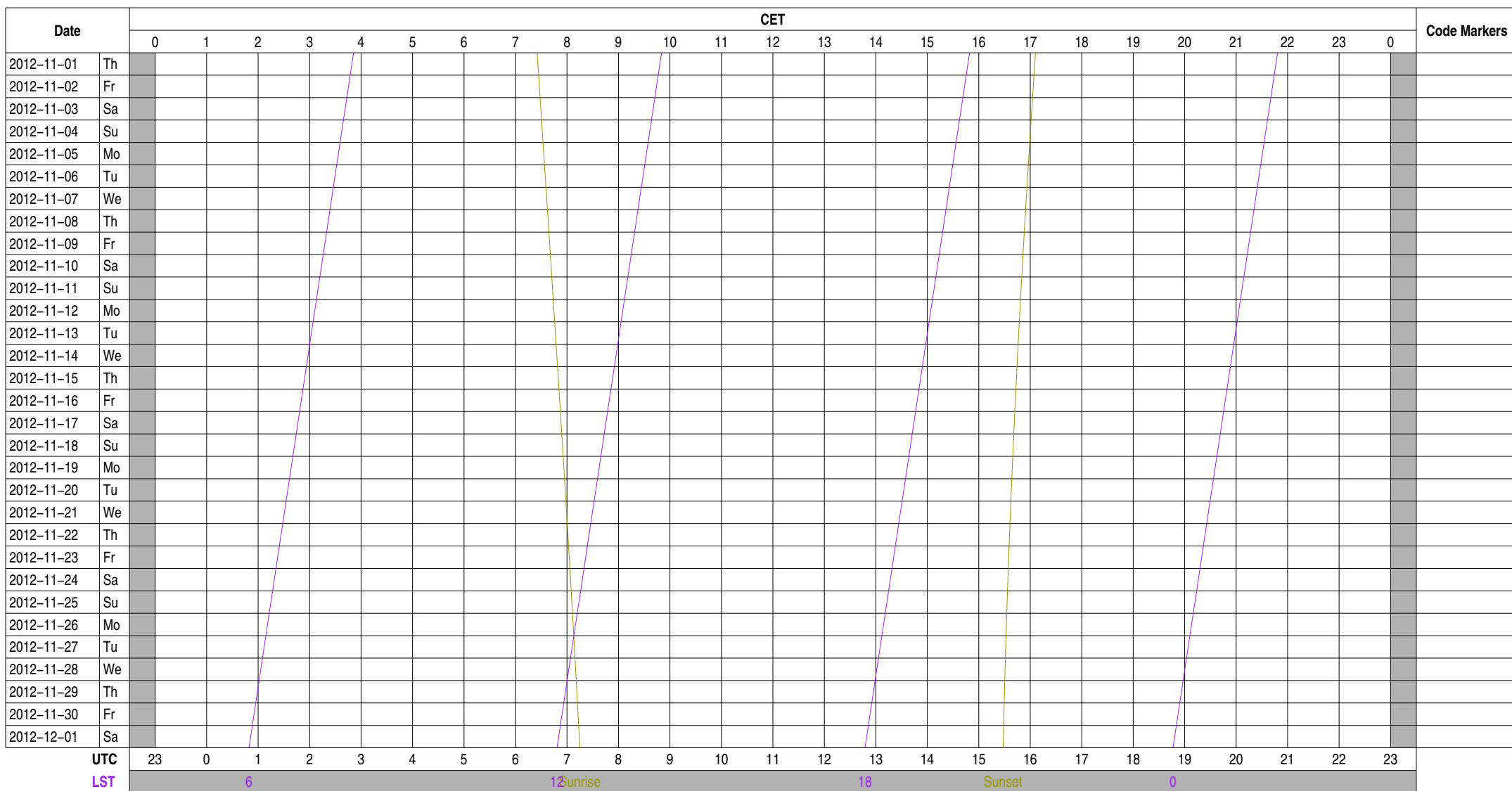
- Science A (Astrometry)
- Science N (AGN)
- Test Observation
- Juelich Mode
- Science C (Cosmology)
- Science O (Other)
- Maintenance Mode
- Piggyback Control
- Science E (Extragalactic)
- Science P (Pulsar)
- ILT Mode
- Piggyback Without Control
- Science G (Galactic)
- Science R (Cosmic Rays)
- Effelsberg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

# Observing Plan for Iofar1a Pulsar Computer

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01

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

#### Other Experiment Code Markers

#### Color Meanings

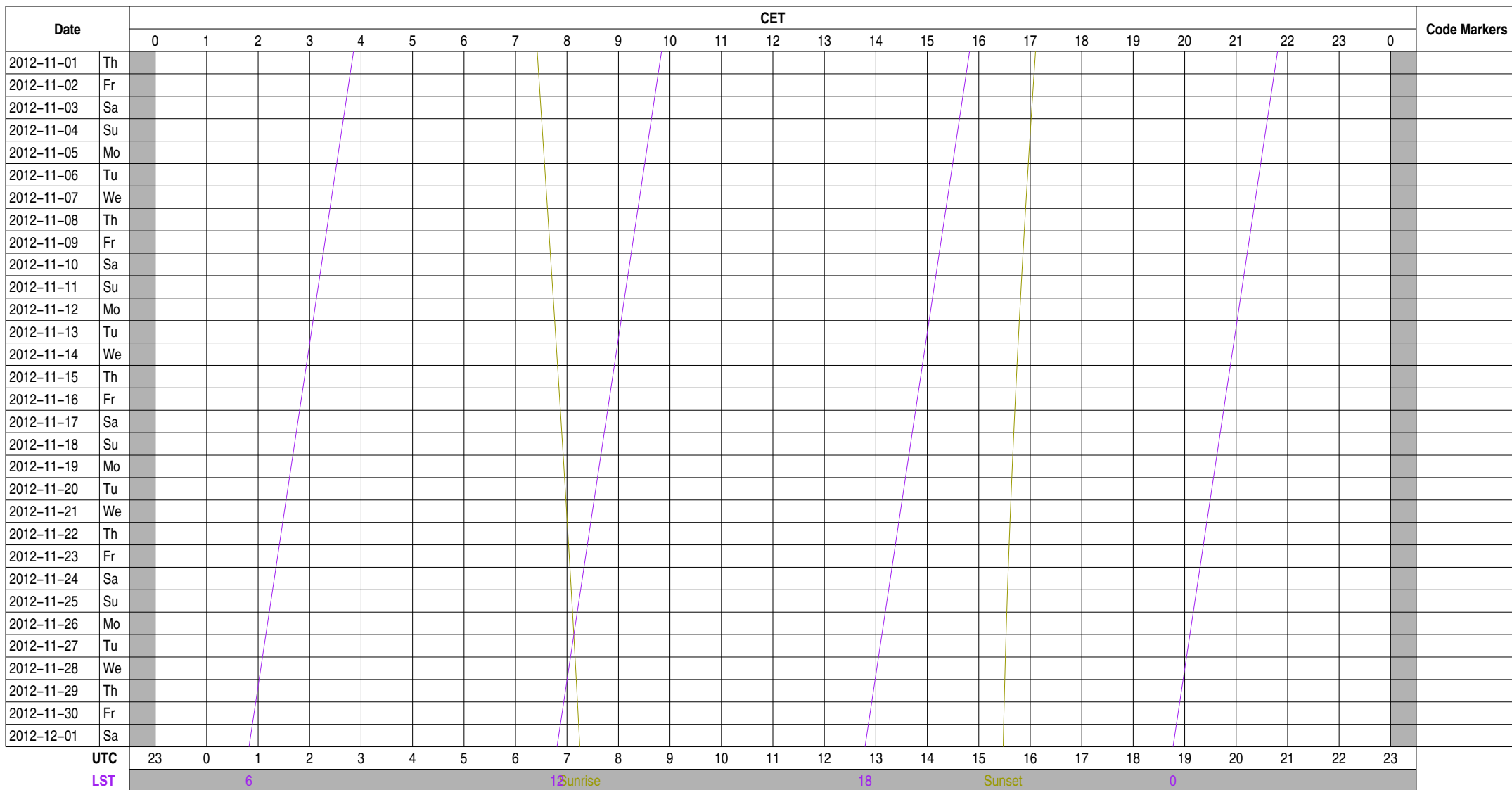
Science A (Astrometry)	Science N (AGN)	Test Observation	Juelich Mode
Science C (Cosmology)	Science O (Other)	Maintenance Mode	Piggyback Control
Science E (Extragalactic)	Science P (Pulsar)	ILT Mode	Piggyback Without Control
Science G (Galactic)	Science R (Cosmic Rays)	Effelsberg Mode	Experiment Warning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

# Observing Plan for Iofar2a Pulsar Computer

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01

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

#### Other Experiment Code Markers

#### Color Meanings

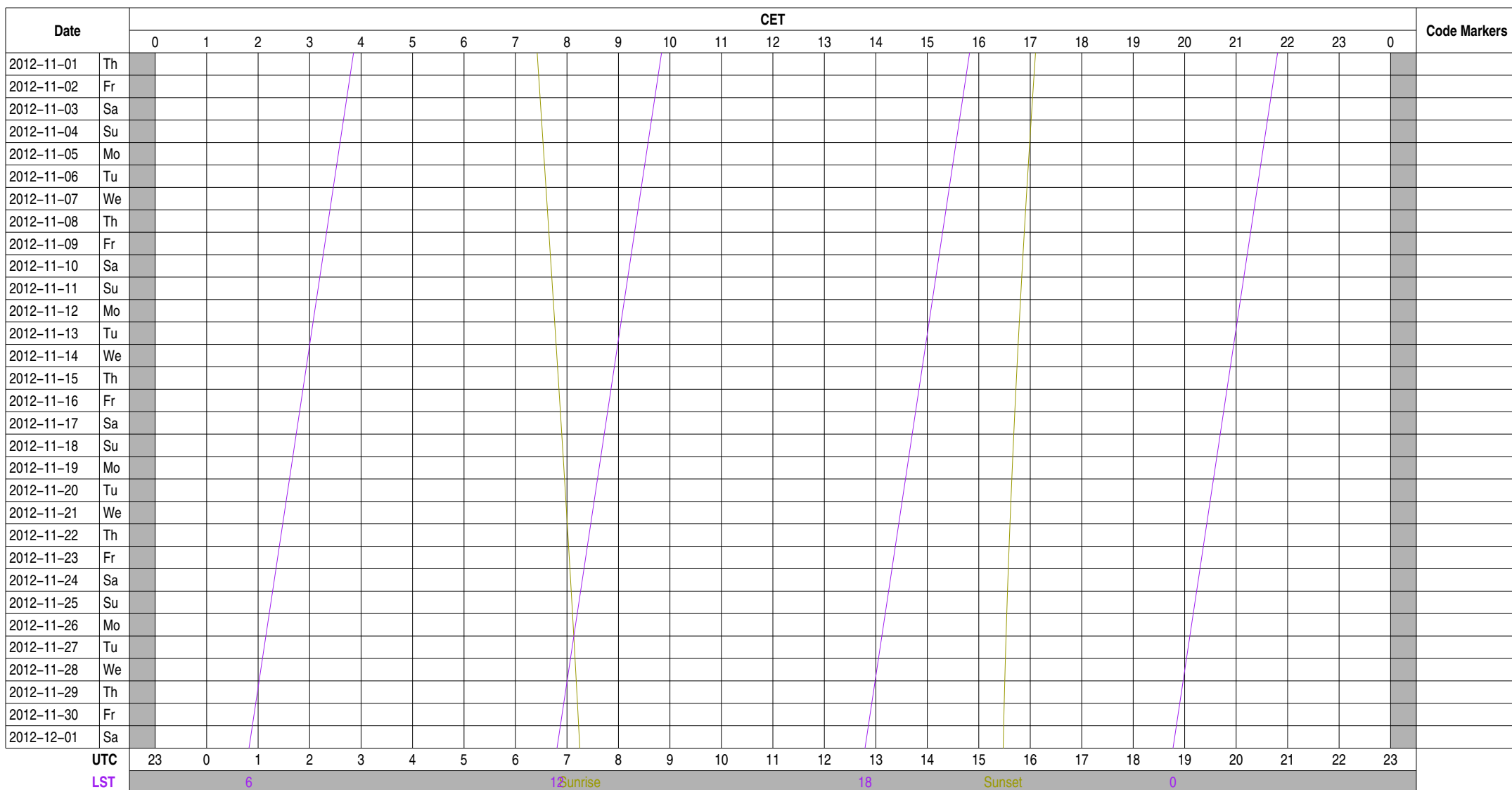
Science A (Astrometry)	Science N (AGN)	Test Observation	Juelich Mode
Science C (Cosmology)	Science O (Other)	Maintenance Mode	Piggyback Control
Science E (Extragalactic)	Science P (Pulsar)	ILT Mode	Piggyback Without Control
Science G (Galactic)	Science R (Cosmic Rays)	Effelsberg Mode	Experiment Warning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

# Observing Plan for Iofar3a Pulsar Computer

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01

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

#### Other Experiment Code Markers

#### Color Meanings

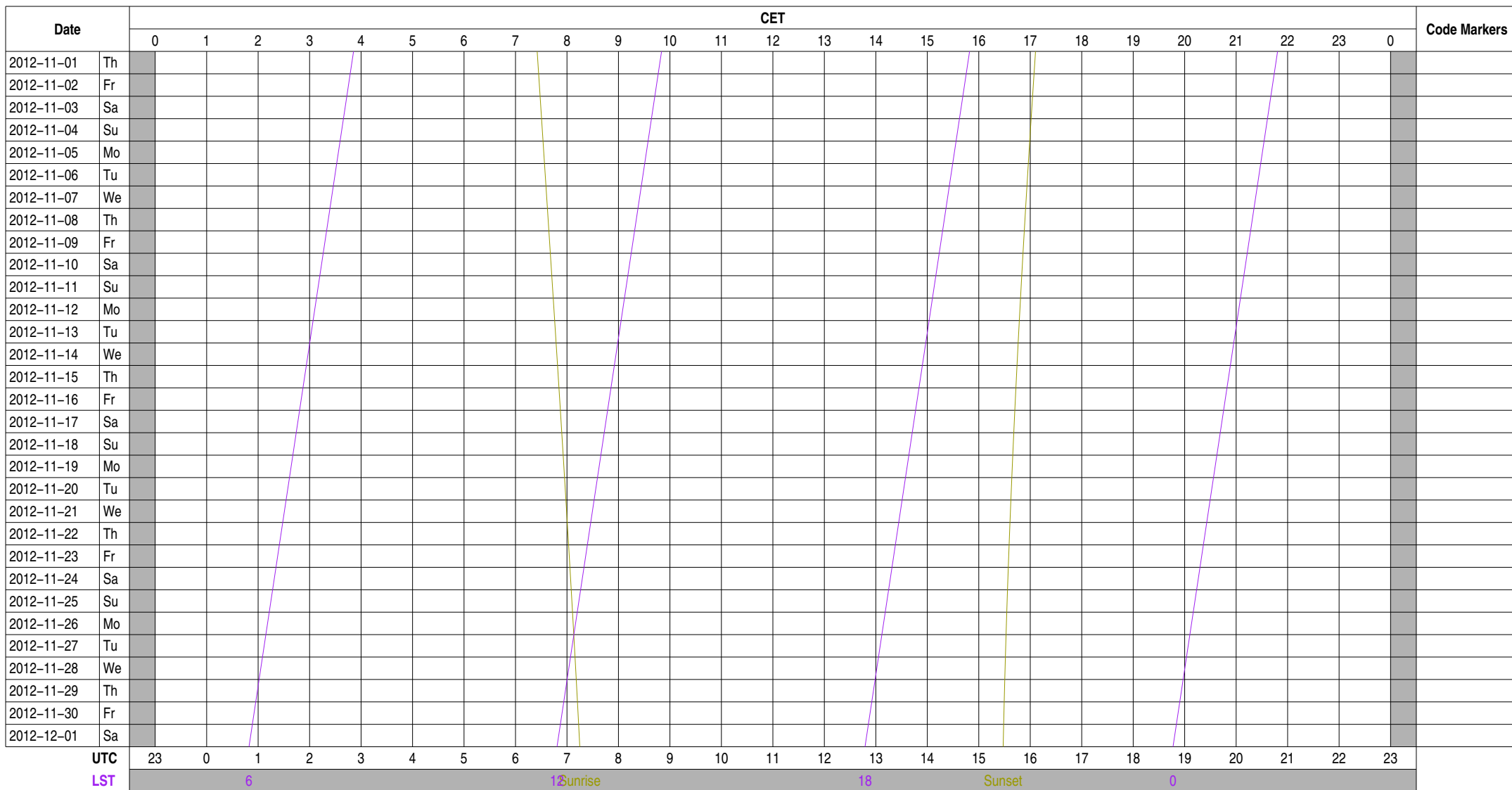
Science A (Astrometry)	Science N (AGN)	Test Observation	Juelich Mode
Science C (Cosmology)	Science O (Other)	Maintenance Mode	Piggyback Control
Science E (Extragalactic)	Science P (Pulsar)	ILT Mode	Piggyback Without Control
Science G (Galactic)	Science R (Cosmic Rays)	Effelsberg Mode	Experiment Warning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

# Observing Plan for Iofar4a Pulsar Computer

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01

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

#### Other Experiment Code Markers

#### Color Meanings

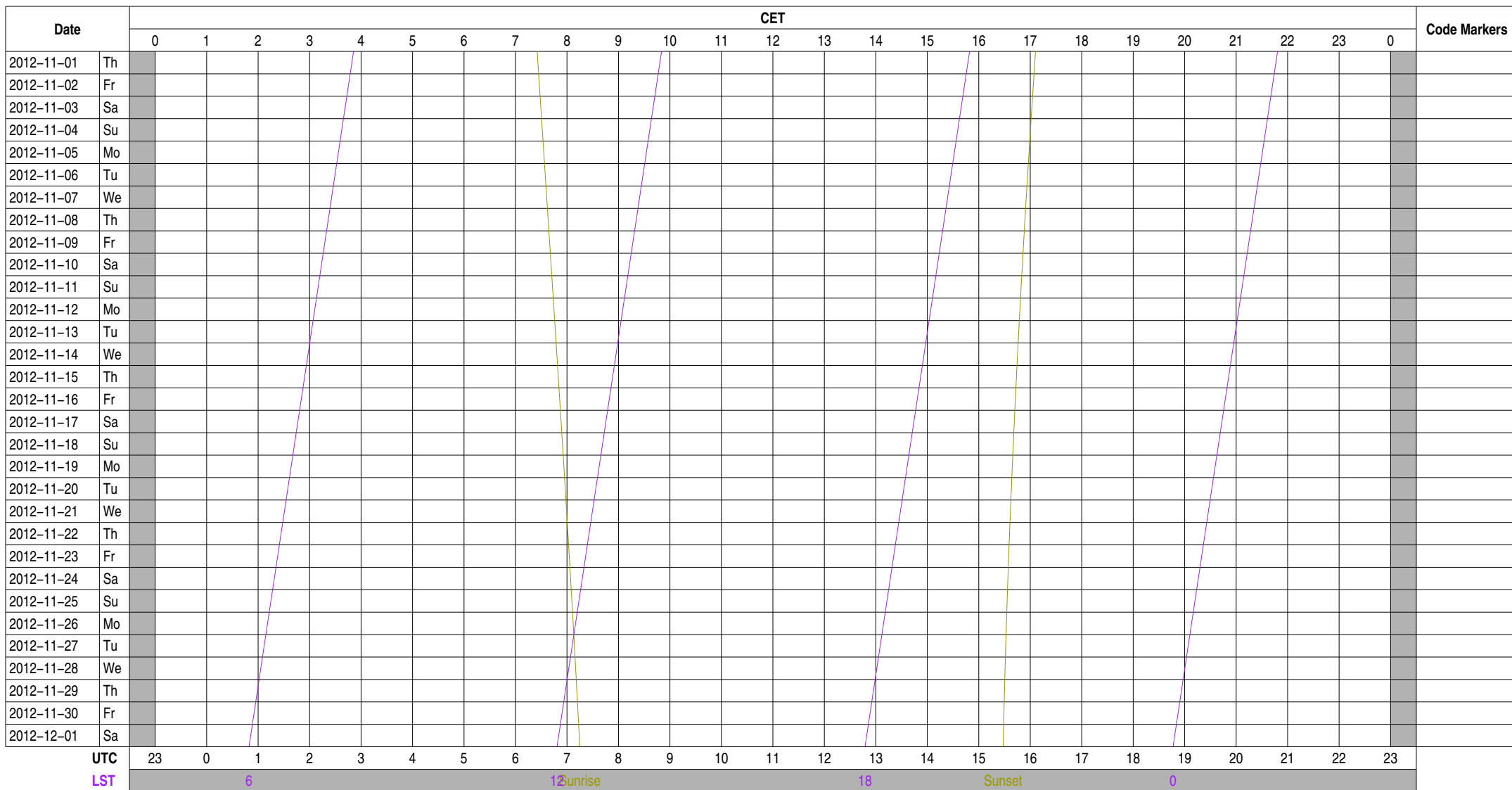
Science A (Astrometry)	Science N (AGN)	Test Observation	Juelich Mode
Science C (Cosmology)	Science O (Other)	Maintenance Mode	Piggyback Control
Science E (Extragalactic)	Science P (Pulsar)	ILT Mode	Piggyback Without Control
Science G (Galactic)	Science R (Cosmic Rays)	Effelsberg Mode	Experiment Warning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

# Observing Plan for Iofar1b Recording Computer

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01

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

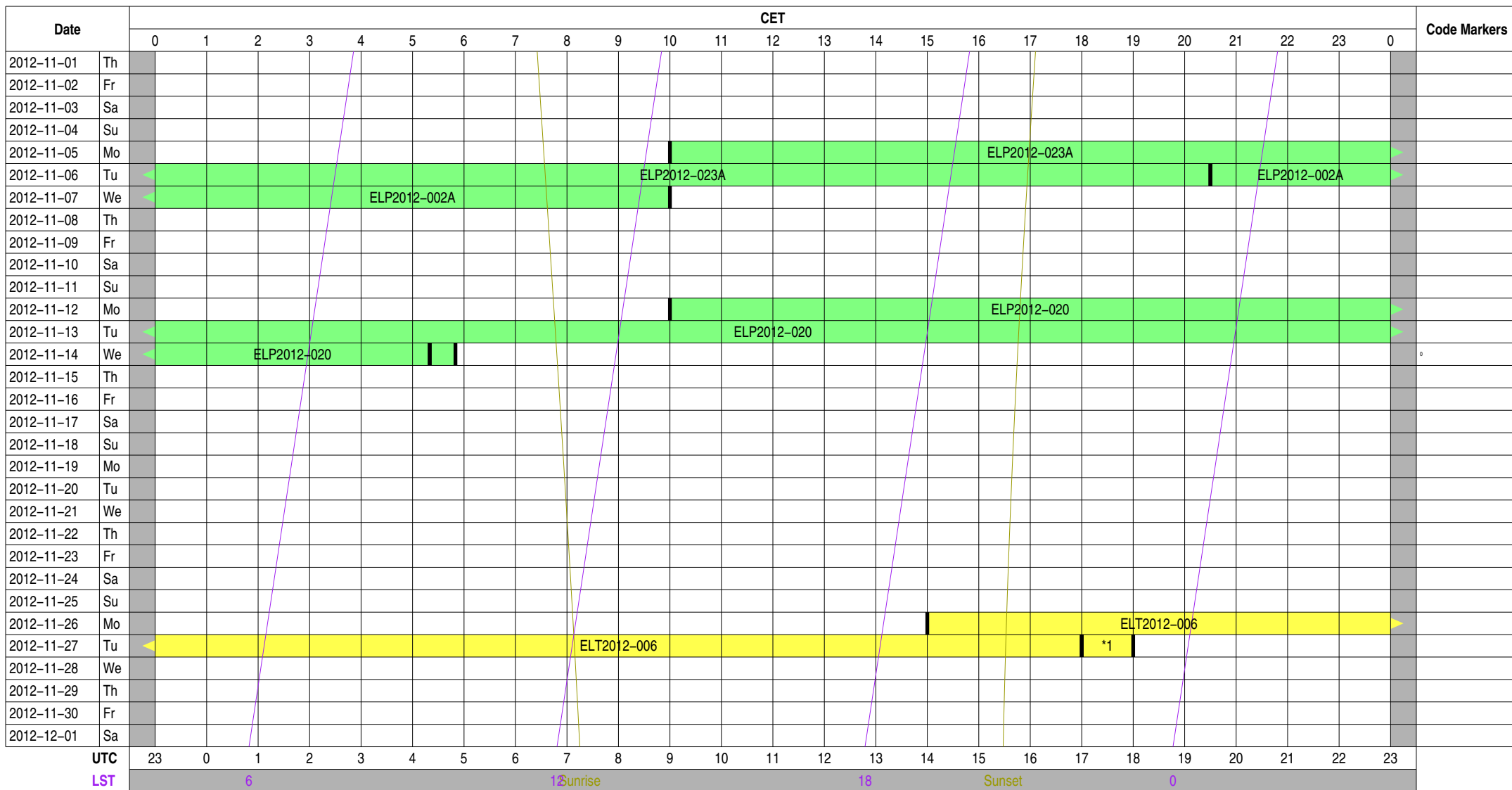
#### Other Experiment Code Markers

#### Color Meanings

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

# Observing Plan for Iofarx Computer MPIfR Effelsberg LOFAR Station 2012-11-01 through 2012-12-01

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 ELP2012-023A
- 1 ELT2012-007

### Other Experiment Code Markers

### Color Meanings

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

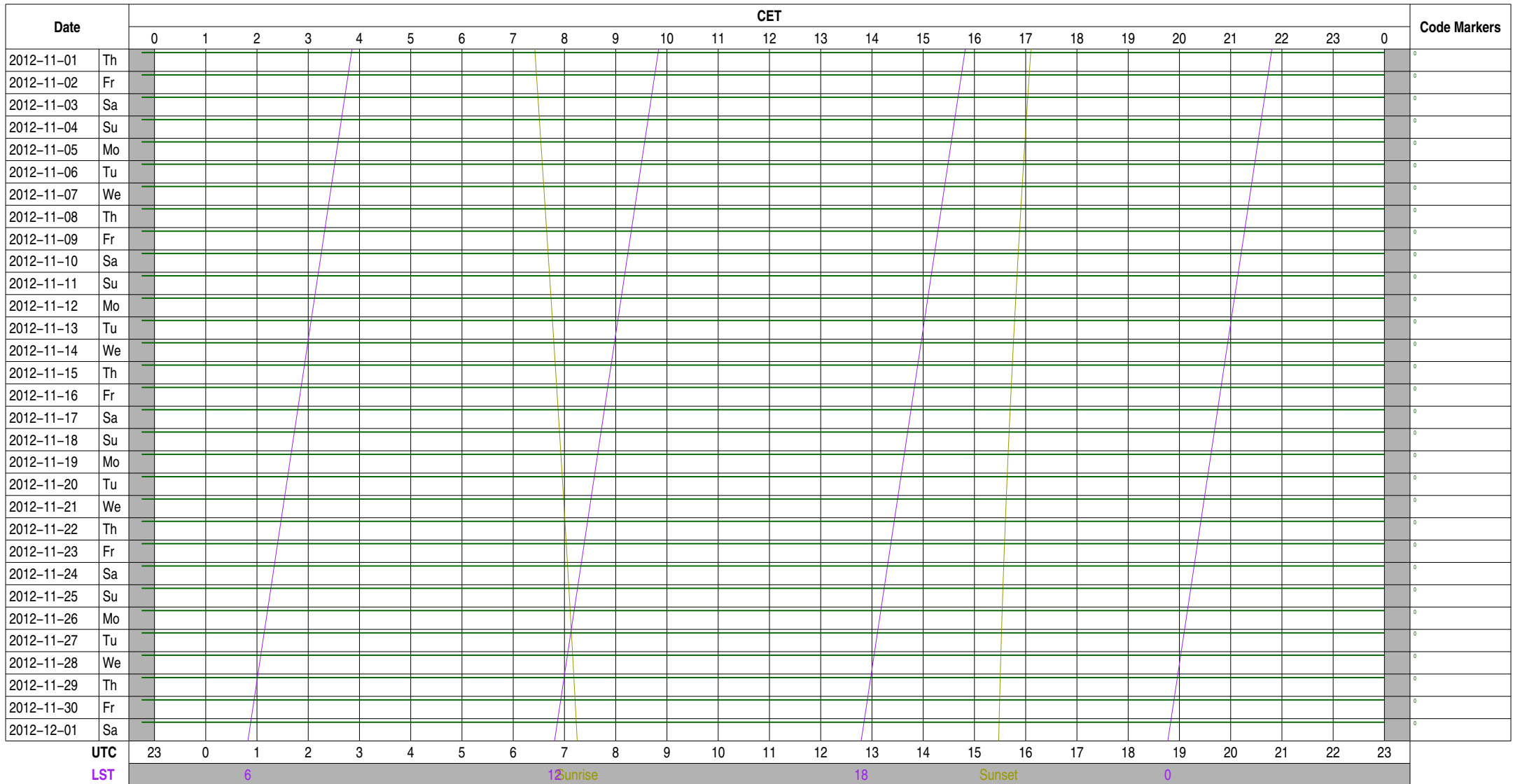


# Observing Plan for Iofarsrv Computer

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01

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

#### Other Experiment Code Markers

0 ELP2012-008

#### Color Meanings

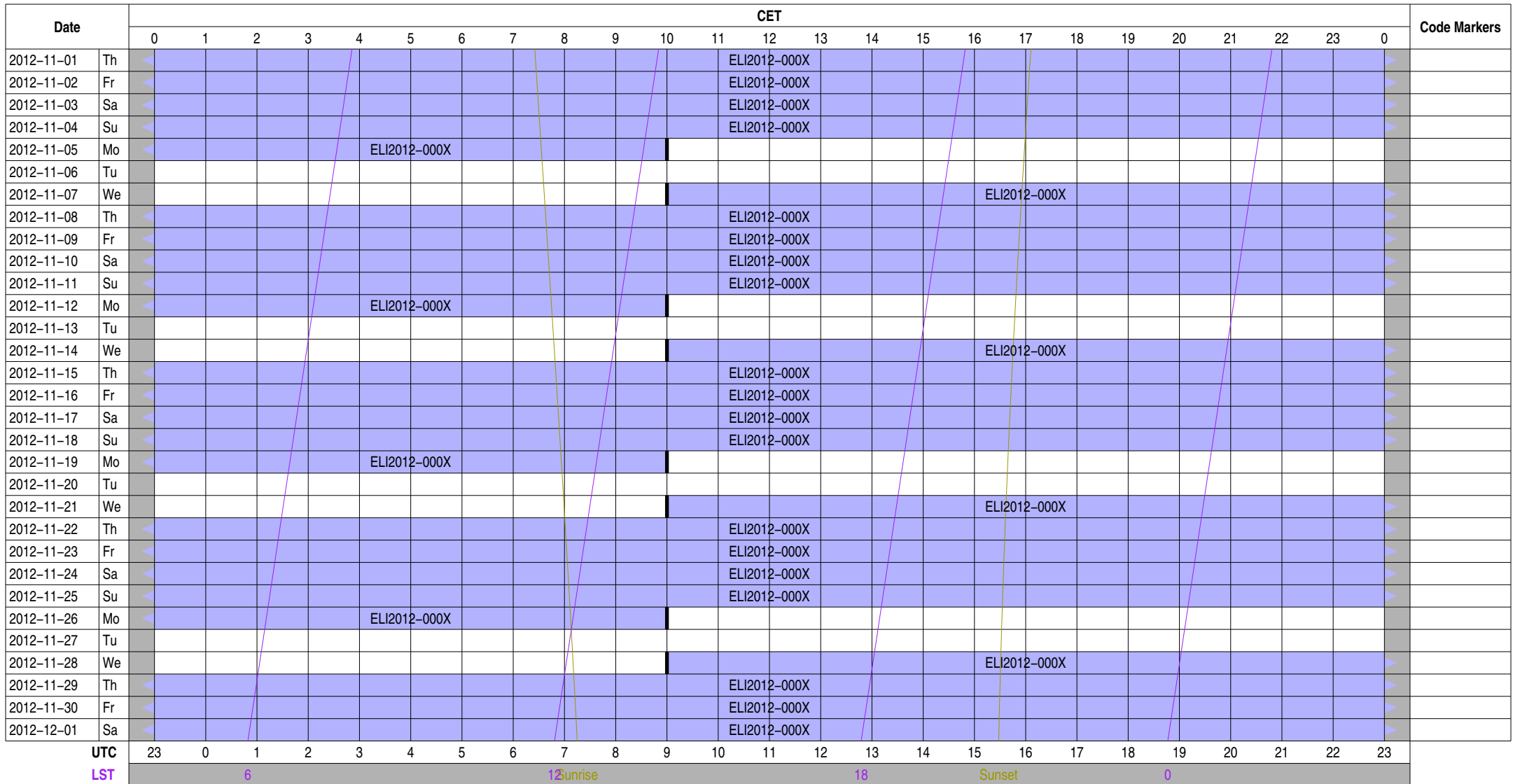
Science A (Astrometry)	Science N (AGN)	Test Observation	Juelich Mode
Science C (Cosmology)	Science O (Other)	Maintenance Mode	Piggyback Control
Science E (Extragalactic)	Science P (Pulsar)	ILT Mode	Piggyback Without Control
Science G (Galactic)	Science R (Cosmic Rays)	Effelsberg Mode	Experiment Warning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

# Observing Plan for LOFAR Fiber Connection

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01

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

#### Other Experiment Code Markers

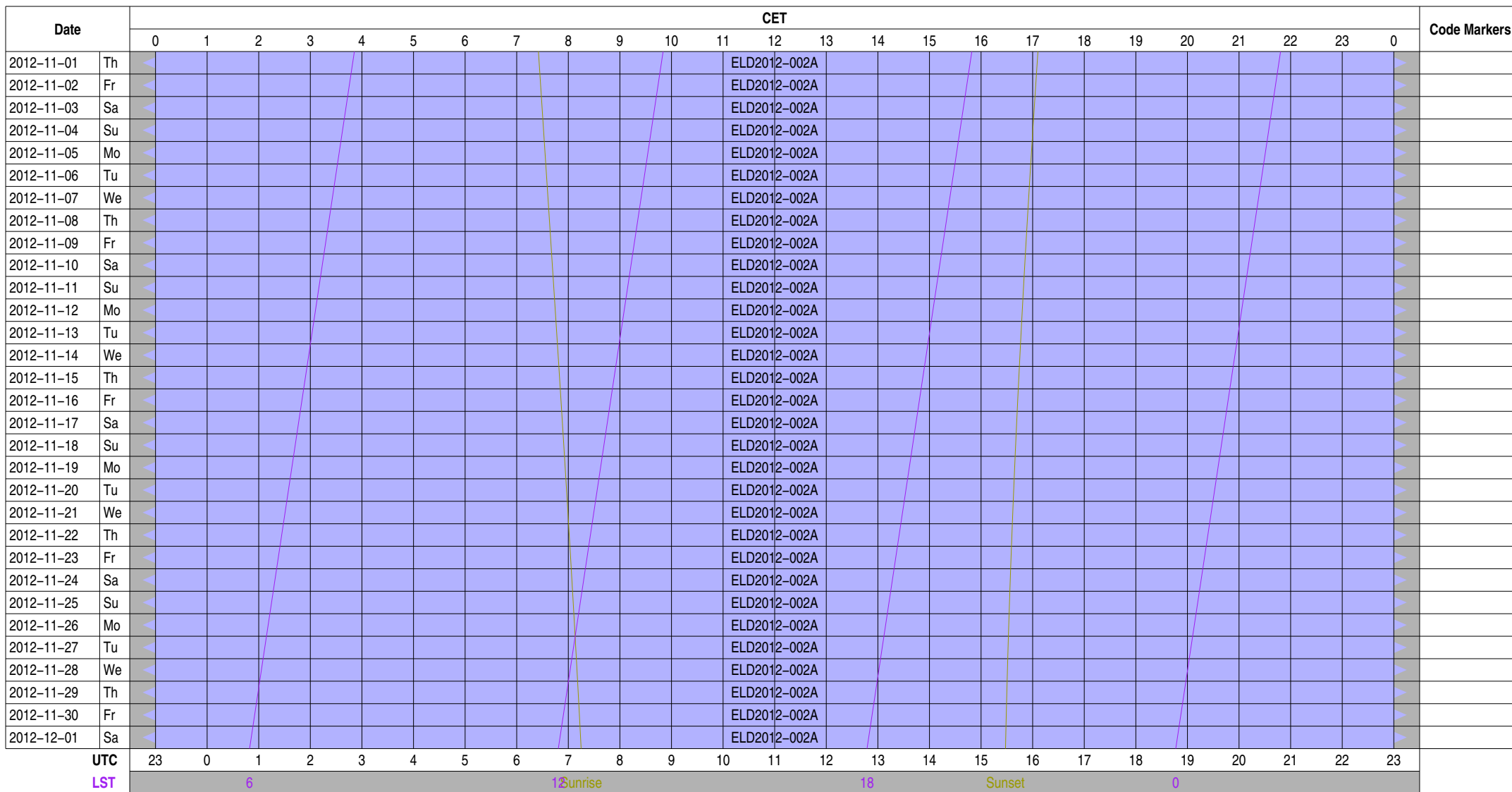
#### Color Meanings

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

# Observing Plan for Operator On-Duty

## MPIfR Effelsberg LOFAR Station

### 2012-11-01 through 2012-12-01



**Normal Experiment Code Markers**

**Other Experiment Code Markers**

**Color Meanings**

- 100 m Operator
- Anderson
- Kuniyoshi
- Homeffer
- Other
- Unknown

## Experiment Information for Normal Observations

<b>ELI2012-000</b>	<b>Anderson, 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>
ELI2012-000	Anderson, ILT Operations	observer@astron.nl	+31 521 595 777	Main ILT Observations, ILT Operations only on-duty 9--17, M
ELI2012-000	Anderson, ILT Operations	observer@astron.nl	+31 521 595 777	Main ILT Observations, ILT Operations only on-duty 9--17, M
ELI2012-000	Anderson, ILT Operations	observer@astron.nl	+31 521 595 777	Main ILT Observations, ILT Operations only on-duty 9--17, M
ELI2012-000	Anderson, ILT Operations	observer@astron.nl	+31 521 595 777	Main ILT Observations, ILT Operations only on-duty 9--17, M
<b>ELP2012-002</b>	<b>Kuniyoshi</b>	<b>mkuniyos@mpifr-bonn.mpg.de</b>	<b>+49 228 525 505</b>	<b>software testing</b>
ELP2012-002	Kuniyoshi	mkuniyos@mpifr-bonn.mpg.de	+49 228 525 505	software testing
<b>ELP2012-020</b>	<b>Verbiest</b>	<b>verbiest@mpifr-bonn.mpg.de</b>	<b>+49 228 525 246</b>	<b>Mapping the Solar Heliosphere with LOFAR Observations of Pu</b>
ELP2012-020	Verbiest	verbiest@mpifr-bonn.mpg.de	+49 228 525 246	Mapping the Solar Heliosphere with LOFAR Observations of Pu
<b>ELP2012-023</b>	<b>Kuniyoshi, Verbiest</b>	<b>mkuniyos@mpifr-bonn.mpg.de</b>	<b>+49 228 525 505</b>	<b>test detecting millisecond pulsar</b>
ELP2012-023	Kuniyoshi, Verbiest	mkuniyos@mpifr-bonn.mpg.de	+49 228 525 505	test detecting millisecond pulsar
ELP2012-023	Kuniyoshi, Verbiest	mkuniyos@mpifr-bonn.mpg.de	+49 228 525 505	test detecting millisecond pulsar
<b>ELT2012-002</b>	<b>Wucknitz</b>	<b>wucknitz@mpifr-bonn.mpg.de</b>	<b>+49 228 525 418</b>	<b>testing station beamforming</b>
ELT2012-002	Wucknitz	wucknitz@mpifr-bonn.mpg.de	+49 228 525 418	testing station beamforming
<b>ELT2012-006</b>	<b>Horneffer</b>	<b>horneff@mpifr-bonn.mpg.de</b>	<b>+49 228 525 505</b>	<b>test</b>
ELT2012-006	Horneffer	horneff@mpifr-bonn.mpg.de	+49 228 525 505	test
<b>ELT2012-007</b>	<b>Wucknitz</b>	<b>wucknitz@mpifr-bonn.mpg.de</b>	<b>+49 228 525 418</b>	<b>test timing</b>
ELT2012-007	Wucknitz	wucknitz@mpifr-bonn.mpg.de	+49 228 525 418	test timing

## Experiment Information for Other Actions

ELP2012-008	Kuniyoshi	mkuniyos@mpifr-bonn.mpg.de	+49 228 525 505	development of software and data analysis
ELP2012-008	Kuniyoshi	mkuniyos@mpifr-bonn.mpg.de	+49 228 525 505	development of software and data analysis

# Experiment Information for Operator On-Duty Schedule

ELD2012-002	Kuniyoshi	mkuniyos@mpifr-bonn.mpg.de	+49 228 525 505	Project Scheduler
ELD2012-002	Kuniyoshi	mkuniyos@mpifr-bonn.mpg.de	+49 228 525 505	Project Scheduler



## Time Usage [hours] for Other Actions

Experiment Code	station	TBB	HBA	LBH	LBL	interfe	lofar1	lofar2	lofar3	lofar4	lofar1a	lofar2a	lofar3a	lofar4a	lofar1b	lofarx	lofarsr	fiber	duty
ELP2012-008							744.00	744.00	744.00	744.00							744.00		
ELP2012-008							744.00	744.00	744.00	744.00							744.00		







