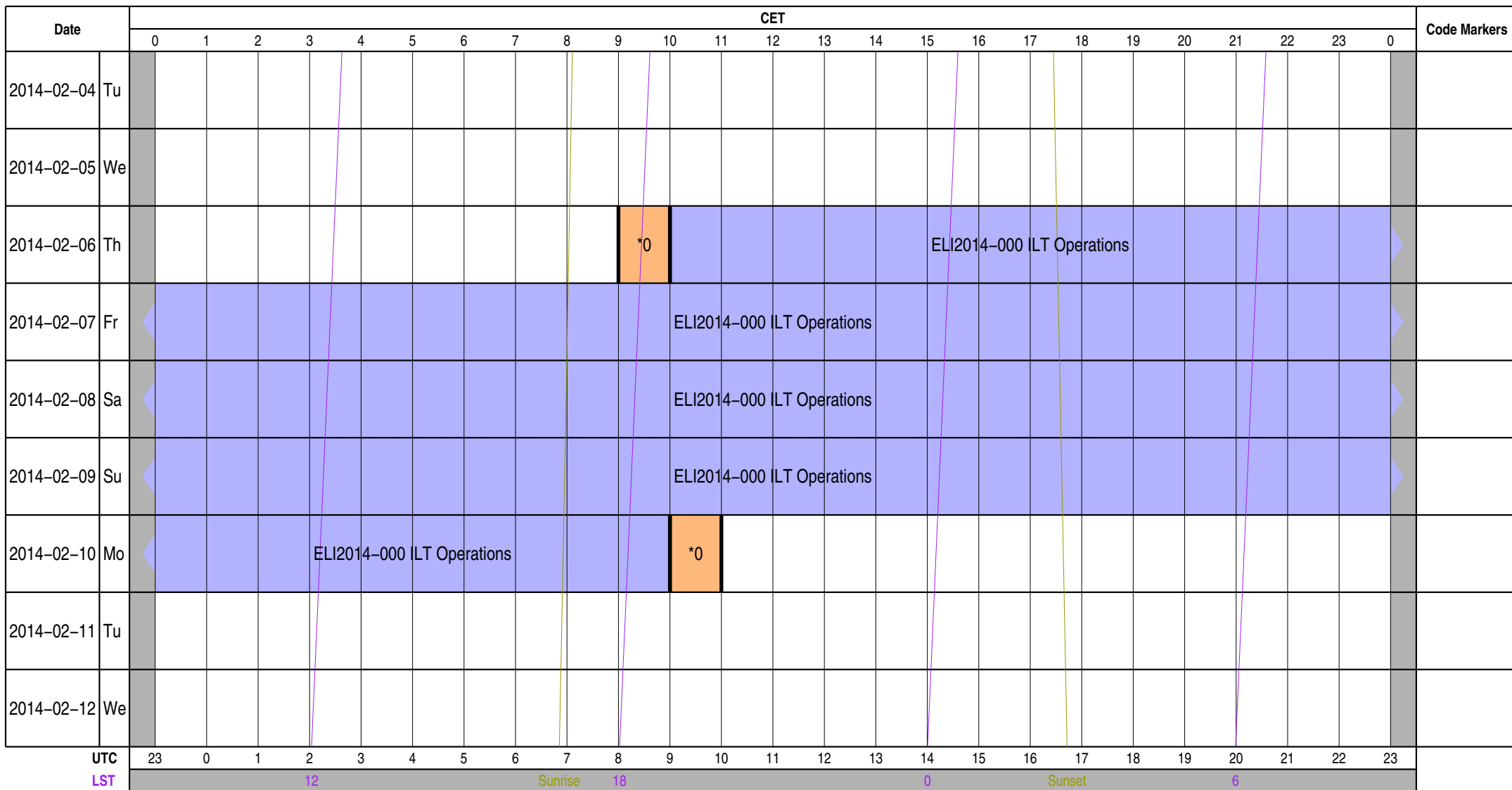


# Observing Plan for Station Control (LCU)

## MPIfR Effelsberg LOFAR Station

### 2014-02-04 through 2014-02-12

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."



#### Normal Experiment Code Markers

0 ELM2014-000 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

### 2014-02-04 through 2014-02-12

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	
2014-02-04 Tu																											
2014-02-05 We																											
2014-02-06 Th										*0																	
2014-02-07 Fr																											
2014-02-08 Sa																											
2014-02-09 Su																											
2014-02-10 Mo																											
2014-02-11 Tu																											
2014-02-12 We																											
<b>UTC</b>	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		
<b>LST</b>				12						Sunrise	18					0		Sunset				6					

**Normal Experiment Code Markers**

0 ELM2014-000 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 2014-02-04 through 2014-02-12

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	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	
2014-02-04 Tu																											
2014-02-05 We																											
2014-02-06 Th										*0																	
2014-02-07 Fr																											
2014-02-08 Sa																											
2014-02-09 Su																											
2014-02-10 Mo																											
2014-02-11 Tu																											
2014-02-12 We																											
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				12						Sunrise	18					0			Sunset			6					

**Normal Experiment Code Markers**

0 ELM2014-000 Kuniyoshi, Horneff

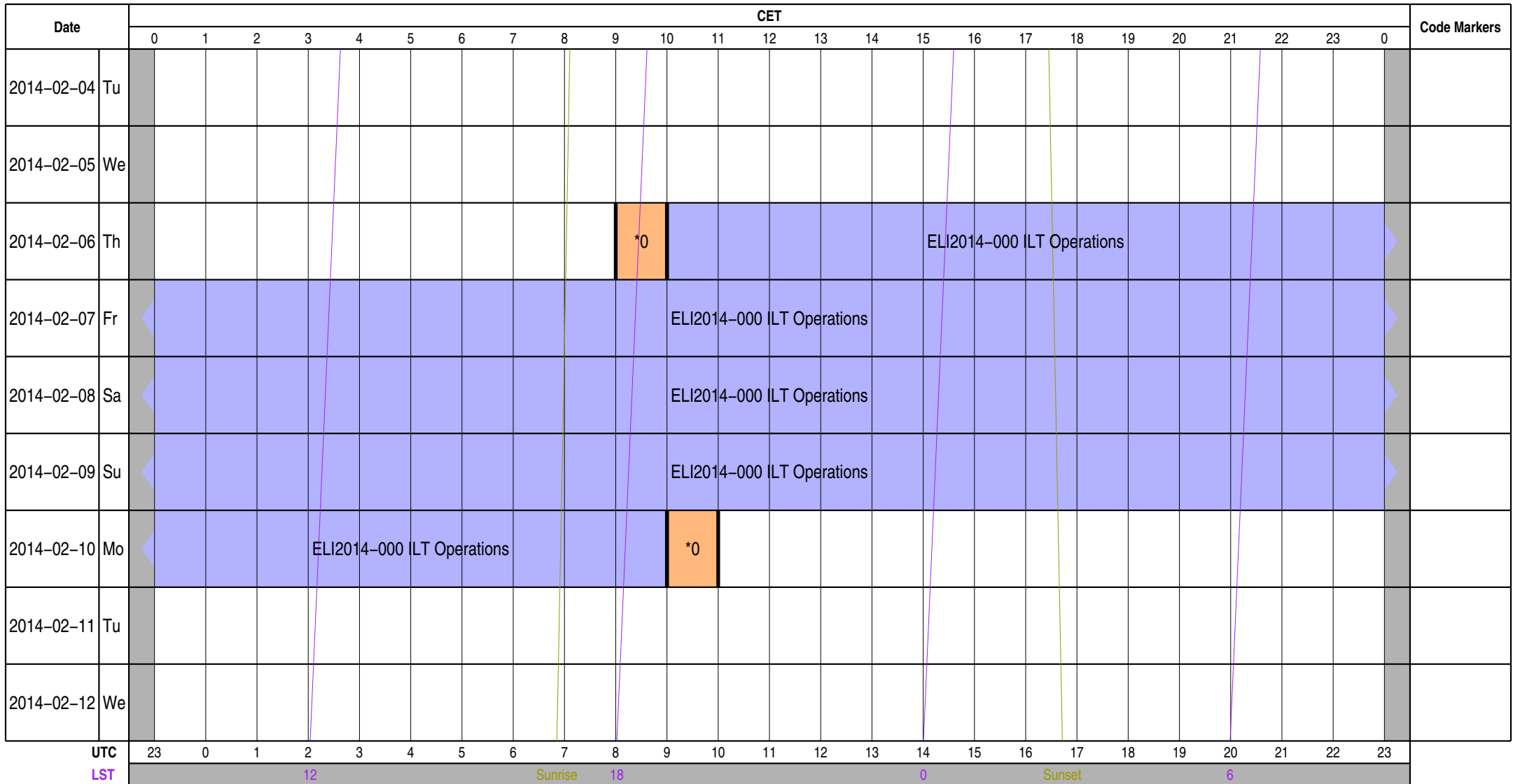
**Other Code Markers**

**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 2014-02-04 through 2014-02-12

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."



### Normal Experiment Code Markers

0 ELM2014-000 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

### 2014-02-04 through 2014-02-12

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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	
2014-02-04 Tu																											
2014-02-05 We																											
2014-02-06 Th										*0																	
2014-02-07 Fr																											
2014-02-08 Sa																											
2014-02-09 Su																											
2014-02-10 Mo																											
2014-02-11 Tu																											
2014-02-12 We																											

**Normal Experiment Code Markers**

0 ELM2014-000 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	

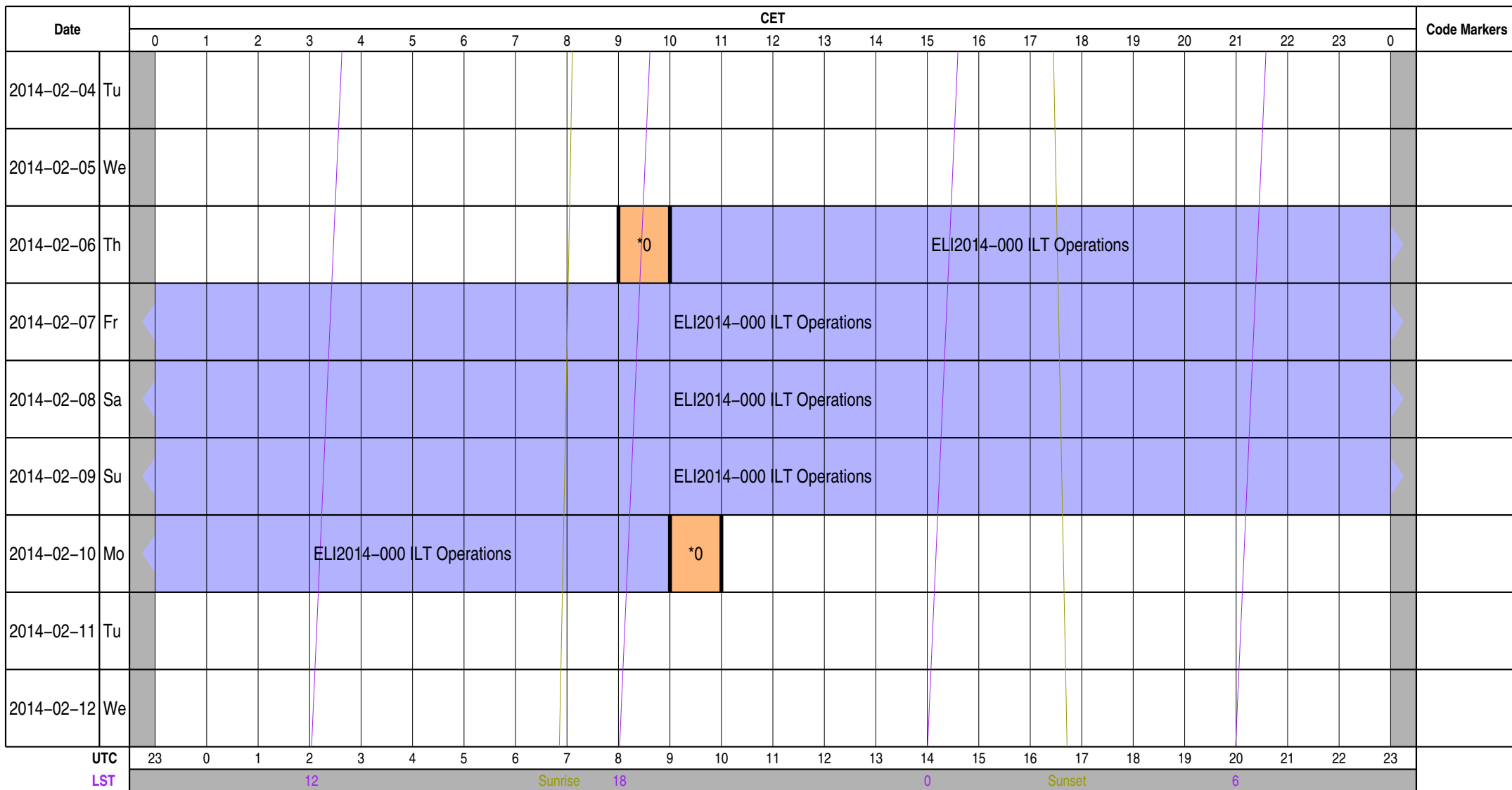
UTC 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

LST 12 Sunrise 18 0 Sunset 6

# Observing Plan for Station Interferometer

## MPIfR Effelsberg LOFAR Station

### 2014-02-04 through 2014-02-12



**Normal Experiment Code Markers**

0 ELM2014-000 Kuniyoshi, Horneff

**Other Code Markers**

**Color Meanings**

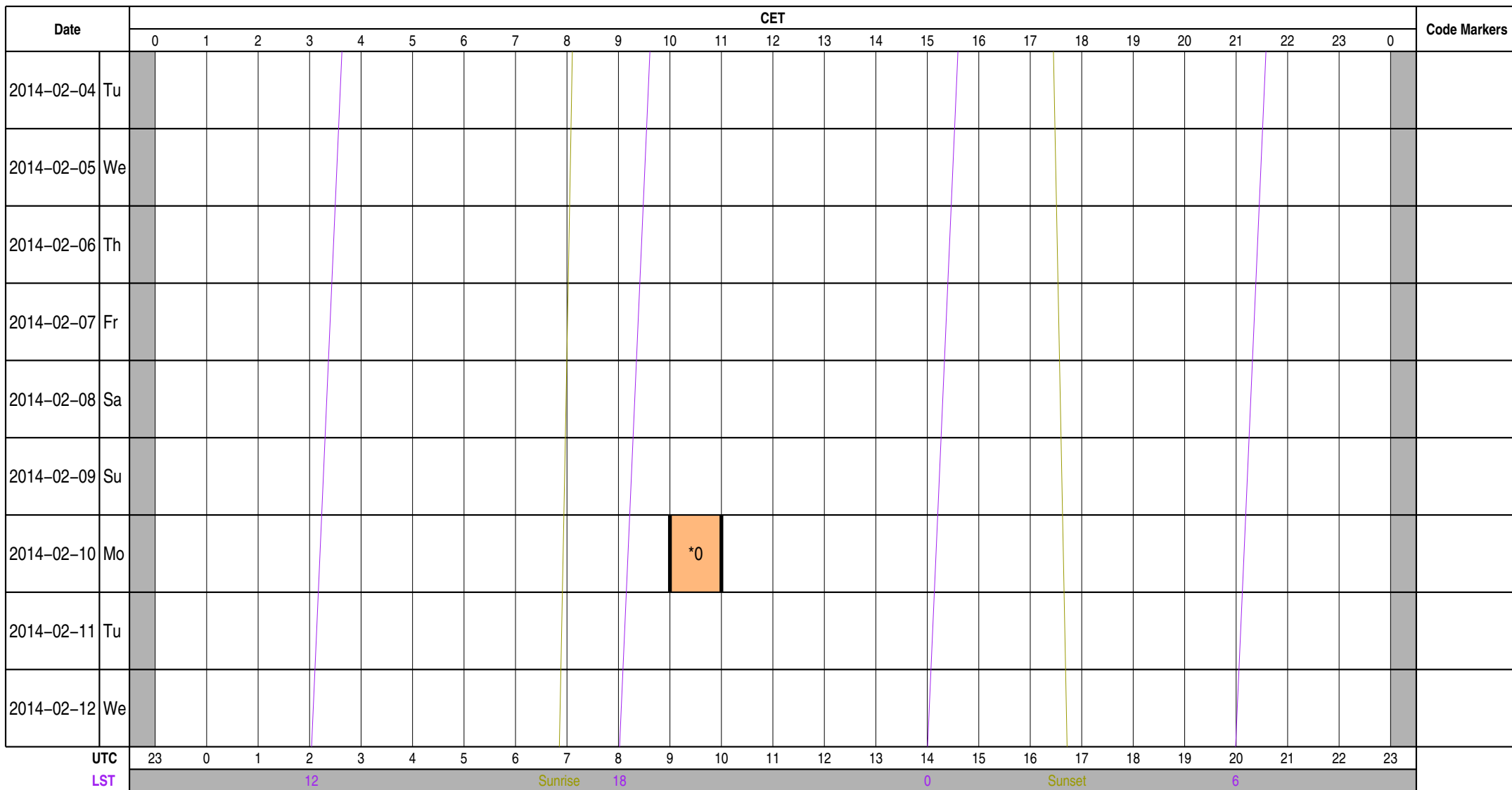
Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)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

# Observing Plan for IofarAN Computers

## MPIfR Effelsberg LOFAR Station

### 2014-02-04 through 2014-02-12

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**Normal Experiment Code Markers**

0 ELM2014-000 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

### 2014-02-04 through 2014-02-12

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		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	
2014-02-04	Tu																											
2014-02-05	We																											
2014-02-06	Th																											
2014-02-07	Fr																											
2014-02-08	Sa																											
2014-02-09	Su																											
2014-02-10	Mo										*0																	
2014-02-11	Tu																											
2014-02-12	We																											
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					12					Sunrise	18						0		Sunset			6						

#### Normal Experiment Code Markers

0 ELM2014-000 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

### 2014-02-04 through 2014-02-12

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	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
2014-02-04 Tu																										
2014-02-05 We																										
2014-02-06 Th																										
2014-02-07 Fr																										
2014-02-08 Sa																										
2014-02-09 Su																										
2014-02-10 Mo																										
2014-02-11 Tu																										
2014-02-12 We																										
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				12					Sunrise	18						0		Sunset				6				

\*0

#### Normal Experiment Code Markers

0 ELM2014-000 Kuniyoshi, Horneff

#### Other Code Markers

#### Color Meanings

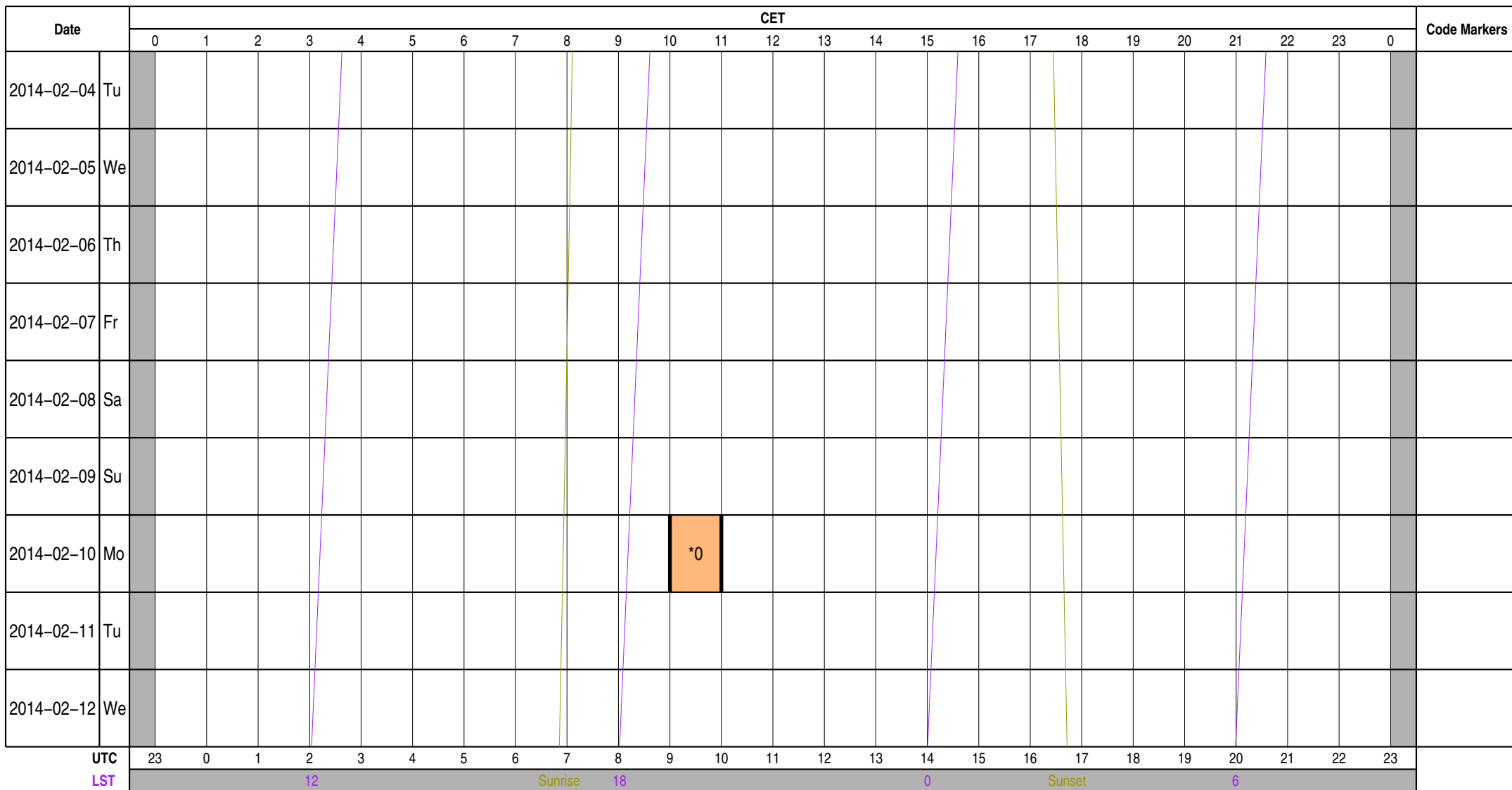
Science A (Astrometry)	Science O (Other)	ILT Mode	Piggyback Without Control
Science C (Cosmology)	Science P (Pulsar)	Effelsberg Mode	Experiment Warning
Science E (Extragalactic)	Science R (Cosmic Rays)	GLOW Mode	Override Possible
Science G (Galactic)	Science S (Solar System)	Juelich Mode	
Science H (Ionosphere)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

# Observing Plan for Iofarsrv Computer

## MPIfR Effelsberg LOFAR Station

### 2014-02-04 through 2014-02-12

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."



**Normal Experiment Code Markers**

0 ELM2014-000 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

### 2014-02-04 through 2014-02-12

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	
2014-02-04 Tu																											
2014-02-05 We																											
2014-02-06 Th										*0																	
2014-02-07 Fr																											
2014-02-08 Sa																											
2014-02-09 Su																											
2014-02-10 Mo																											
2014-02-11 Tu																											
2014-02-12 We																											
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				12						Sunrise	18					0			Sunset			6					

**Normal Experiment Code Markers**

0 ELM2014-000 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

### 2014-02-04 through 2014-02-12

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	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	
2014-02-04 Tu																											
2014-02-05 We																											
2014-02-06 Th																											
2014-02-07 Fr																											
2014-02-08 Sa																											
2014-02-09 Su																											
2014-02-10 Mo											*0																
2014-02-11 Tu																											
2014-02-12 We																											
<b>UTC</b>	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		
<b>LST</b>				12					Sunrise	18						0		Sunset				6					

**Normal Experiment Code Markers**

0 ELM2014-000 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

### 2014-02-04 through 2014-02-12

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
2014-02-04 Tu																										
2014-02-05 We																										
2014-02-06 Th																										
2014-02-07 Fr																										
2014-02-08 Sa																										
2014-02-09 Su																										
2014-02-10 Mo																										
2014-02-11 Tu																										
2014-02-12 We																										

<b>UTC</b>	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
<b>LST</b>				12					Sunrise	18						0		Sunset				6			

**Normal Experiment Code Markers**

**Other Code Markers**

**Color Meanings**

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

## Experiment Information for Normal Observations

<b>ELI2014-000</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>
ELI2014-000	ILT Operations	observer@astron.nl	+31 521 595 777	Main ILT Observations, ILT Operations only on-duty 9--17, M
<b>ELM2014-000</b>	<b>Kuniyoshi, Horneffer, Adebahr</b>	<b>lofar-ops@mpi-fr-bonn.mpg.de</b>	<b>+49 228 525 505</b>	<b>Handover operations for local to ILT mode (MPIFR time)</b>
ELM2014-000	Kuniyoshi, Horneffer, Adebahr	lofar-ops@mpi-fr-bonn.mpg.de	+49 228 525 505	Handover operations for local to ILT mode (MPIFR time)
ELM2014-000	Kuniyoshi, Horneffer, Adebahr	lofar-ops@mpi-fr-bonn.mpg.de	+49 228 525 505	Handover operations for local to ILT mode (MPIFR time)

## Experiment Information for Other Actions

## Experiment Information for Operator On-Duty Schedule





# 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



# 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)

Science H (Ionosphere)

Science N (AGN)

Science O (Other)

Science P (Pulsar)

Science R (Cosmic Rays)

Science S (Solar System)

Test Observation

Maintenance Mode      0.93      0.93      0.93      0.93      0.93      0.93      0.46      0.46      0.46      0.46      0.93      0.46

ILT Mode      44.44      44.44      44.44      44.44      44.44      44.44                                    44.44

Effelsberg Mode

GLOW Mode

Juelich Mode

Station Failure

Unknown Code

Idle      54.63      54.63      54.63      54.63      54.63      54.63      99.54      99.54      99.54      99.54      54.63      99.54

## 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

Horneffer

Other

Unknown

Unknown Code

Idle      100.00