



MAX PLANCK INSTITUTE
FOR SOLAR SYSTEM RESEARCH



SUNRISE III MISSION ARCHIVE

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Login



Sunrise-3 Mission Archive

Welcome to the Sunrise III Mission Archive and Data Access Portal

Sunrise III is a balloon-borne solar observatory that obtained high-resolution spectropolarimetric observations of the Sun's atmosphere during it's 6.5-day long journey from Sweden to Canada. This portal serves as the primary access point for researchers and the public to explore and utilize the data collected by the Sunrise III mission. Here, you can find information on how to access the data, browse available observations, and learn more about the mission's objectives and instruments.

How to get access?

Data use regulations

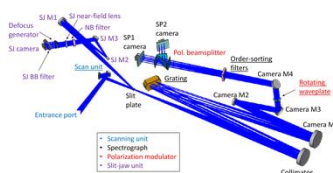
Browse the observations

Find out more about the mission

All data on this website are freely available to the public.
When you publish your work on Sunrise III data, please follow the instructions on the [Data use regulations](#) page to properly acknowledge the data and the mission.



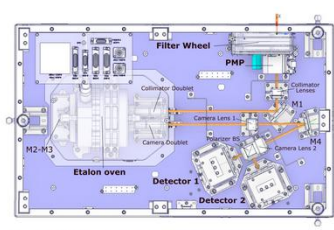
SUSI



The Sunrise UV Spectropolarimeter and Imager (SUSI), covers the wavelength range from 309 nm to 417 nm. The spectrum across most of SUSI's wavelength range has largely remained underutilized in solar physics so far. It includes thousands of spectral lines among which are more than 100 chromospheric lines, covering a height range of more than 1300 km in the solar atmosphere, seamlessly from deep photospheric to mid-upper chromospheric layers. [...read more](#)



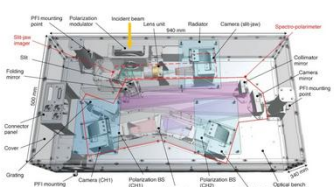
TuMag



The Tunable Magnetograph (TuMag), is a visible-light imaging spectropolarimeter designed to investigate the magnetic and dynamic structure of the photosphere and lower chromosphere. TuMag operates in the wavelength range around 517–525 nm, targeting magnetically sensitive spectral lines of Fe I (525.02 nm, 525.06 nm) and Mg I b₂ (517.3 nm). [...read more](#)



SCIP



Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation [...more](#)



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SR-III DATA RELEASE, 2026 2

OBSERVATION OVERVIEW

DEFAULT: SHOW ONLY AVAILABLE DATA



Filter (matching 4 of 39 entries)

Time span

From

To

Target

Type

Ar Nr.

μ-position

0

0.25

0.5

0.75

1

Instrument Specific

310 nm

336

363

389

415 nm

SUSI wavelength

310

336

363

389

415

TuMag line

☐ Fe.02 ☐ Fe.06 ☐ Mg

SCIP mode

Data availability

☒ Show only entries where data are available

Reset

Apply

01_QSUN

SUSI (2) TuMag (1) SCIP (3)

data patchy

Start 2024-07-10T13:15:59Z

Stop 2024-07-10T14:52:11Z

Duration 1h 36m 12s

Target Quiet Sun

NOAA AR N/A

Start position

X -164"

Y 30"

μ 0.98

End position

X -3.51"

Y 29.79"

μ 1

02_EMEF

SUSI (9) TuMag (1) SCIP (2)

data patchy

Start 2024-07-10T19:14:06Z

Stop 2024-07-10T23:22:14Z

Duration 4h 8m 8s

Target Emerging Flux

NOAA AR 13738

Start position

X -71.01"

Y -199.64"

μ 0.98

End position

X -30.12"

Y -239.39"

μ 0.97

07_PLAG

SUSI (2) TuMag (0) SCIP (0)

data available

Start 2024-07-12T15:46:57Z

Stop 2024-07-12T15:50:34Z

Duration 3m 37s

Target Plage

NOAA AR 13742

Start position

X -397.19"

Y -261.46"

μ 0.87

End position

X -395.3"

Y -264.31"

μ 0.87

09_SPOT

SUSI (3) TuMag (3) SCIP (1)

data available

Start 2024-07-12T20:58:54Z

Stop 2024-07-12T21:30:37Z

Duration 31m 43s

Target Sunspot

NOAA AR 13738

Start position

X 442.27"

Y -169.92"

μ 0.87

End position

X 449.33"

Y -184.66"

μ 0.86

Pending	No dataset has any data available
Patchy	Some datasets have data available
Available	Every dataset has at least some data available

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SR-III DATA RELEASE, 2026 3

OBSERVATION OVERVIEW

FILTER OBSERVATIONS TO YOUR NEEDS



Filter (matching 6 of 39 entries)

Time span

From dd / mm / yyyy, --:--

To dd / mm / yyyy, --:--

Target

Type Choose...

Ar Nr. AR 13738

μ-position

0

0.25

0.5

0.75

1

0.75

1

Instrument Specific

SUSI wavelength

310 nm

415 nm

310

330

360

380

415

TuMag line

☐ Fe.02

☐ Fe.06

☐ Mg

SCIP mode

Choose...

Data availability

☒ Show only entries where data is available

Reset

Apply

02_EMEF

Start 2024-07-10T19:14:06Z

Stop 2024-07-10T23:22:14Z

Duration 4h 8m 8s

Target Emerging Flux

NOAA AR 13738

SUSI (9)

TuMag (1)

SCIP (2)

data patchy

Start position

X -71.01"

Y -199.64"

μ 0.98

End position

X -30.12"

Y -239.39"

μ 0.97

09_SPOT

Start 2024-07-12T20:58:54Z

Stop 2024-07-12T21:30:37Z

Duration 31m 43s

Target Sunspot

NOAA AR 13738

SUSI (3)

TuMag (3)

SCIP (1)

data available

Start position

X 442.27"

Y -169.92"

μ 0.87

End position

X 449.33"

Y -184.66"

μ 0.86

10_FLAR

Start 2024-07-13T00:59:24Z

Stop 2024-07-13T03:21:19Z

Duration 2h 21m 55s

Target Flare

NOAA AR 13738

SUSI (3)

TuMag (1)

SCIP (2)

data pending

Start position

X 506.7"

Y -237.18"

μ 0.81

End position

X 528.41"

Y -196.37"

μ 0.81

11_SPOT

Start 2024-07-13T03:59:41Z

Stop 2024-07-13T07:34:47Z

Duration 3h 35m 6s

Target Sunspot

NOAA AR 13738

SUSI (6)

TuMag (1)

SCIP (2)

data pending

Start position

X 536.02"

Y -222.37"

μ 0.8

End position

X 571.54"

Y -196.07"

μ 0.78

12_FLAR

Start 2024-07-13T11:44:09Z

Stop 2024-07-13T14:32:54Z

SUSI (17)

TuMag (1)

SCIP (1)

data pending

Start position

X 605.53"

End position

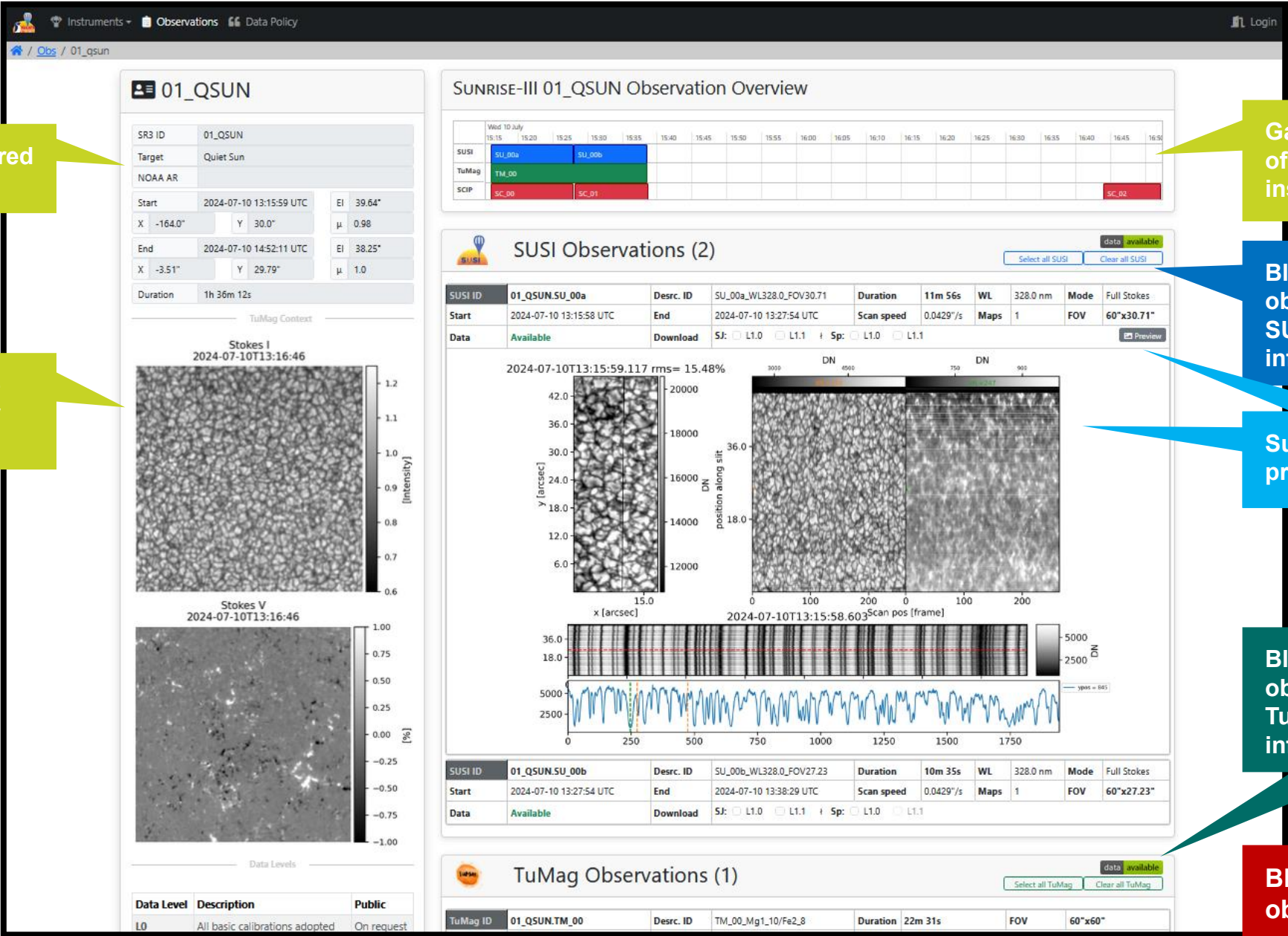
X 0"

Pending	No dataset has any data available
Patchy	Some datasets have data available
Available	Every dataset has at least some data available

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SR-III DATA RELEASE, 2026 4

OBSERVATION DETAILS & DOWNLOAD



OBSERVATION DETAILS & DOWNLOAD



Data Level	Description	Public
L0	All basic calibrations adopted	On request
L1.0	L0 + Demodulated, full header	Yes
L1.1	L1.0 + Reconstructed	Yes

Entries selected for download are highlighted in the gantt chart to ease combined dataset request

You need to register/login to enable the download button.

The download information will be sent to your registered email address.

SUSI

SU_00a

SU_00b

SU_01a

SU_02a

SU_02b

TuMag

TM_00

SCIP

SC_00

SC_01

SC_02

SC_03

SC_04

SCIP ID

04_QSUN.SC_02

Descr. ID

SC_02_FOV1.0_1.02s

Duration

59m 34s

Integration

1.02s

Mode

Full Stokes (I, Q, U, V)

Start

2024-07-11 06:52:08 UTC

End

2024-07-11 07:51:42 UTC

Map duration

13.0s

Maps

274

FOV

60"x1.0"

SUSI Sync

False

Download

SJ: ☐ L1 ☒ L1

Sp: ☐ L1

Details

SCIP ID

04_QSUN.SC_03

Descr. ID

SC_03_FOV1.0_1.02s

Duration

59m 29s

Integration

1.02s

Mode

Full Stokes (I, Q, U, V)

Start

2024-07-11 07:54:27 UTC

End

2024-07-11 08:53:56 UTC

Map duration

13.0s

Maps

274

FOV

60"x1.0"

SUSI Sync

False

Download

SJ: ☐ L1 ☐ L1

Sp: ☐ L1

Details

SCIP ID

04_QSUN.SC_04

Descr. ID

SC_04_FOV58.0_10.24s

Duration

1h 47m 16s

Integration

10.24s

Mode

Full Stokes (I, Q, U, V)

Start

2024-07-11 09:04:56 UTC

End

2024-07-11 10:52:12 UTC

Map duration

1h 47m 19.0s

Maps

0

FOV

60"x58.0"

SUSI Sync

False

Download

SJ: ☐ L1 ☐ L1

Sp: ☐ L1

Details

04_QSUN download request overview

Descriptive ID

Start

End

Download Requested

SUSI

Select all SUSI

Clear all SUSI

data pending

SU_00a_WL393.8_FOV0.14

2024-07-11 03:58:31 UTC

2024-07-11 04:28:16 UTC

SJ: ☐ L1.0 ☐ L1.1 ☒ L1.0 ☐ L1.1

SU_00b_WL393.8_FOV57.95

2024-07-11 04:28:46 UTC

2024-07-11 06:15:50 UTC

SJ: ☒ L1.0 ☐ L1.1 ☒ L1.0 ☐ L1.1

SU_01a_WL396.8_FOV1.0

2024-07-11 06:52:08 UTC

2024-07-11 07:51:42 UTC

SJ: ☐ L1.0 ☐ L1.1 ☐ L1.0 ☐ L1.1

SU_02a_WL409.0_FOV1.0

2024-07-11 07:54:27 UTC

2024-07-11 08:54:02 UTC

SJ: ☐ L1.0 ☐ L1.1 ☐ L1.0 ☐ L1.1

SU_02b_WL409.0_FOV57.95

2024-07-11 09:04:56 UTC

2024-07-11 10:51:59 UTC

SJ: ☐ L1.0 ☐ L1.1 ☐ L1.0 ☐ L1.1

TuMag

Select all TuMag

Clear all TuMag

data pending

TM_00_Mg1_10/Fe2_8

2024-07-11 03:58:31 UTC

2024-07-11 10:51:59 UTC

FI: ☐ L1.0 ☐ L1.1

SCIP

Select all SCIP

Clear all SCIP

data pending

SC_00_FOV0.09_1.54s

2024-07-11 03:58:32 UTC

2024-07-11 04:28:12 UTC

SJ: ☐ L1 ☐ L1

SC_01_FOV58.0_10.24s

2024-07-11 04:28:47 UTC

2024-07-11 06:16:03 UTC

SJ: ☒ L1 ☐ L1

SC_02_FOV1.0_1.02s

2024-07-11 06:52:08 UTC

2024-07-11 07:51:42 UTC

SJ: ☐ L1 ☐ L1

SC_03_FOV1.0_1.02s

2024-07-11 07:54:27 UTC

2024-07-11 08:53:56 UTC

SJ: ☐ L1 ☐ L1

SC_04_FOV58.0_10.24s

2024-07-11 09:04:56 UTC

2024-07-11 10:52:12 UTC

SJ: ☐ L1 ☐ L1

Request download of all selected datasets

DOWNLOAD STATUS



Message to user after download request is created:

✔ Created new download request ([check status](#)). You will receive an e-mail once your download is ready.

Personal download history and status page:

Instruments ▾

Observations

Cite

Statistics

S3DataEx

admin user ▾

[/](#) [My_downloads](#)

Personal download history and status

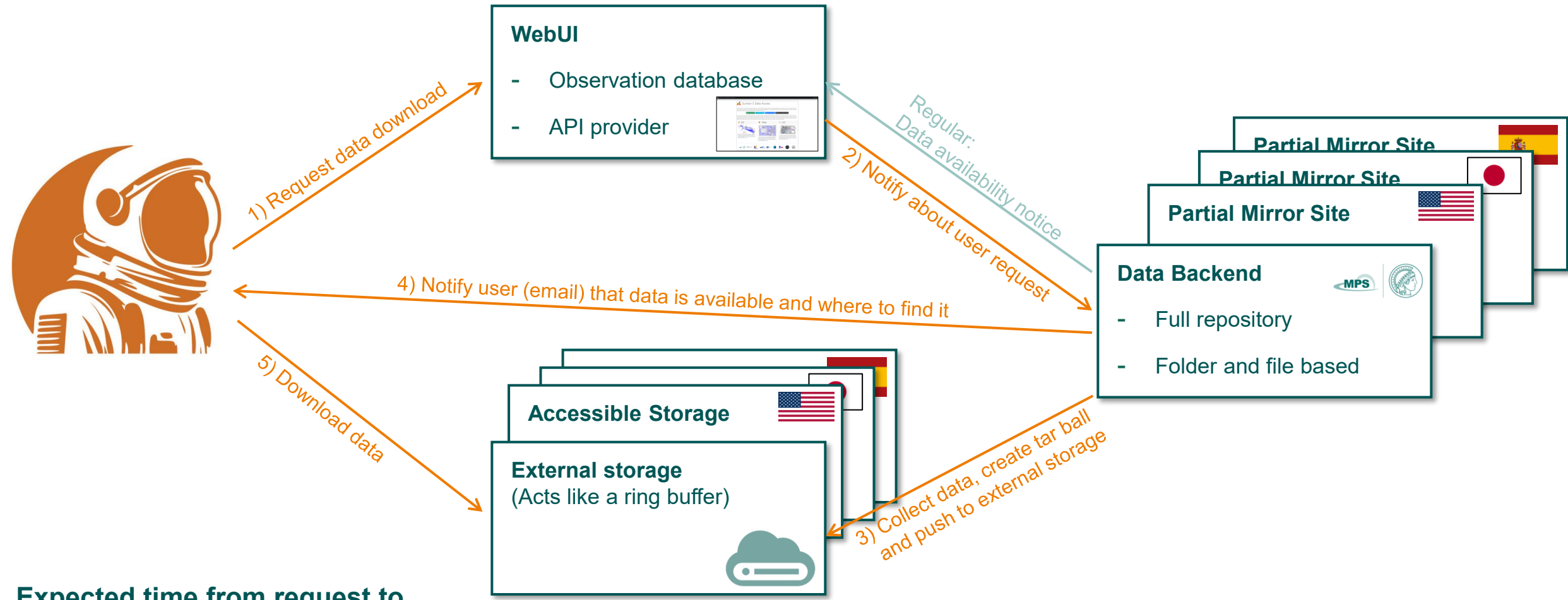
20 ▾ entries per page

Search:

⬆	ID	Observation	⬆	Created	⬆	Last Update	⬆	Time	⬆	Status	⬆
	28	01_QSUN		2026-03-16 13:59:22 UTC		2026-03-16 13:59:22 UTC		N/A		New	
	27	01_QSUN		2026-03-16 13:57:11 UTC		2026-03-16 13:57:11 UTC		N/A		New	
	26	02_EMEF		2026-03-16 13:57:05 UTC		2026-03-16 13:57:05 UTC		N/A		New	
	25	02_EMEF		2026-03-16 13:56:53 UTC		2026-03-16 13:56:53 UTC		N/A		New	
	24	01_QSUN		2026-03-16 13:56:20 UTC		2026-03-16 13:56:20 UTC		N/A		New	To be communicated to the backend
	23	01_QSUN		2026-03-16 13:54:25 UTC		2026-03-16 13:55:17 UTC		N/A		Pending	
	22	04_QSUN		2026-03-15 20:38:33 UTC		2026-03-16 13:54:47 UTC		17h 16m 14s		Completed	
	21	04_QSUN		2026-03-15 20:37:18 UTC		2026-03-16 13:54:37 UTC		17h 17m 19s		Completed	
	20	04_QSUN		2026-03-15 20:29:11 UTC		2026-03-16 13:54:31 UTC		17h 25m 19s		Completed	
	19	03_SPOT		2026-03-15 20:26:54 UTC		2026-03-16 13:54:25 UTC		17h 27m 31s		Completed	
	18	01_QSUN		2026-03-15 20:23:33 UTC		2026-03-16 13:54:18 UTC		17h 30m 45s		Completed	

DATA ACCESS SCHEMATIC

SCALABLE WITH LOCALIZED MIRRORS



Expected time from request to download availability depends on data amount and backend load.