

EUROPLANET 2020: PROMOTING AMATEUR COLLABORATIONS IN PLANETARY SCIENCE

eur PLANET | NA1: Innovation through Science Networking
Task 5: Coordination of Ground Based Observations



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EUROPLANET OVERVIEW

~15 Years - 3 Projects

2005-2008

European Planetology Network (EuroPlaNet) Coordination Action

- € 2 million funding by EC's 6th Framework Programme (FP6)
- “Structuring the European Research Area”
- ~ 50 European laboratories involved



2009-2012

Europlanet Research Infrastructure (RI)

- € 6 million funding by EC's 7th Framework Programme (FP7)
- 27 participating & 33 associated laboratories involved
- Broad range of Research Activities, Networking Activities etc.
 - **NA1 - Observational Infrastructure Networking**



A European Research Infrastructure
for Planetary Science

EUROPLANET OVERVIEW

~15 Years - 3 Projects

2015-2019 - Europlanet 2020

- € 9.94 million funding by EC's 6th Horizon 2020 Framework
- Coordinated by Open University, London, UK (Nigel Mason)
- 33 beneficiaries & 22 partners

European planetary science. This activity aims at furthering the integration of the key research infrastructures in Europe for studying planetary science by drawing in new partners and by providing access to the facilities and to a **larger number of users**, taking into account the multi- and trans-disciplinary nature of the field.

**Inclusion of
amateur
astronomers!**



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Networking Activity 1

Innovation through Science Networking

NA1 “Innovation through Science Networking” will develop the capacity of the European planetary community, synthesising and cascading the expertise that has been developed and generating new activity through a series of carefully selected and targeted workshops. NA1 will combine two of the networking activities (topical workshops and International Space Science Institute (ISSI) workshops) from the former FP7 RI, which have proven to be enormously successful and have created an enduring legacy for the Europlanet-RI project (see the exemplar of the

exemplar of the

Participating Institutes: FMI, Wigner Institute, Aberysthwyth University, MPG, CNRS, UCL, **IWF-OeAW**, **Vilnius University**

Budget: ~ € 1.4 million

NA1 Task 5: Coordination of Ground Based Observations

Coordinated by IWF-OeAW

Workshop budget of € 120 000

NA1 Task 5 - Coordination of Ground Based Observations

Main Objectives

Support/organization of roughly 3 Workshops per year

- Focus on the organization/coordination of ground-based observation campaigns in support of space missions
- Exploitation of campaign results
- Amateur training workshops organized by Vilnius Observatory

Database for ground-based observatories (NA1-Matrix) - <http://iwf.oeaw.ac.at/matrix/>

- Already developed during Europlanet FP7 - further upgraded during EPN2020
- Will provide a possibility for amateurs to set up their own database and to upload observational data
- Database will be linked to the Virtual Observatory of EPN2020

NA1 Task 5 - Coordination of Ground Based Observations - Amateur Linkage

Cooperation with Amateur Community should be strengthened during EPN2020

NA1 Task 5 already identified within the project proposal to foster the cooperation with amateurs!

- **Collection of contacts** to / survey on amateur astronomers (mainly) in Europe
- Potential installment of some sort of “**amateur nodes**” in **different countries** to facilitate information exchange
- **Support for workshop participation** and **organization of dedicated workshops** for the organization of amateur campaigns
- Organisation of **amateur training workshop**
- **Inclusion of their facilities** into the Database of Ground-based Observatories (NA1 Matrix)
- Provision of a **possibility to share their amateur observational data** with the professional scientific community (via the NA1 Matrix and Europlanet VESPA)
- Stronger interconnection between amateur and professional communities in Planetary Sciences in Europe!

Workshop Support for Amateurs

Europlanet FP7 - NA1 Observational Infrastructure Networking (2009 -2012)

Workshops with amateur support:

- 2nd Europlanet Workshop on Exoplanets: Coordinated Observations of Exoplanets from Ground and Space, January 29-30, 2011, Graz, Austria
- Europlanet NA1 Workshop on the “Ground-based Support for Rosetta Mission“, June 28-29, 2011, London, United Kingdom
- Europlanet NA1-NA2 Workshop on “Ground-based Support for ESA’s Rosetta Mission“, April 17-18, 2012, London, United Kingdom

Europlanet 2020 - NA1 Innovation through Science Networking

Dedicated support for amateurs...

- to participate in NA1 supported [science/coordination workshops](#)
- to participate in [amateur training workshops](#) organized by NA1

Workshop Support for Amateurs

Juno Ground-Based Support from Amateurs: Science and Public Impact EPN2020-NA1-Task #5 Workshop

Observatoire de la Côte d'Azur
Nice, France
May 12-13, 2016
#JunoProAm

Science Organizing Comittee (SOC):
Ricardo Hueso (UPV/EHU, Spain)
Marc Delcroix (Société Astron. de France)
François Colas (IMCCE - Pic du Midi)
John Rogers (British Astron. Association, UK)
Glenn S. Orton (JPL, USA)
Manuel Scherf (EPN2020, IWF-ÖeAW, Austria)
Kargl Günter (EPN2020, IWF-ÖeAW, Austria)

Local Organizing Committee (LOC):
Paolo Tanga (Observatoire de la Côte d'Azur)
Ricardo Hueso (formerly at Observatoire de la Côte d'Azur)

www.ajax.ehu.es/Juno_amateur_workshop/

background image:
artist's illustration of Juno at Jupiter / NASA

This workshop is supported by Europlanet 2020 RI Work Package NA1 - Innovation through Science Networking, Task 5. The EU-project Europlanet 2020 RI has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654208. Additional support from the Observatoire de la Côte d'Azur is also acknowledged.

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Task 5: Coordination of Ground Based Observations

Workshop Support for Amateurs



big background image:
Rosetta mission poster showing the deployment of the Philae lander to comet 67P/Churyumov-Gerasimenko; Copyright: ESA/Rosetta/NavCam

small background image:
67P observed from ground, Isaac Newton Telescope
Copyright: Alan Fitzsimmons

**Ground-based observations
of 67P/Churyumov-Gerasimenko**
EPN2020-NA1-Task #5 Workshop

**Schloss Seggau
Seggau / Graz, Austria
June 20-22, 2016
#67P**

www.rosetta-campaign.net/meetings/2016-seggau

Science Organizing Committee (SOC):
Colin Snodgrass (Open University, UK)
Stefano Bagnulo (Armagh Observatory, UK)
Alan Fitzsimmons (Queen's University Belfast, UK)
Aurélie Guilbert-Lepoutre (CNRS, France)
Emmanuel Jehin (Université de Liège, Belgium)
Manuel Scherf (EPN2020, IWF-OeAW, Austria)
Kargl Günter (EPN2020, IWF-OeAW, Austria)

Local Organizing Committee (LOC):
Manuel Scherf (EPN2020, IWF-OeAW, Austria)
Kargl Günter (EPN2020, IWF-OeAW, Austria)
Claudia Grill (IWF-OeAW, Austria)

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Task 5: Coordination of Ground Based Observations

Workshop Support for Amateurs

First Amateur Training Workshop

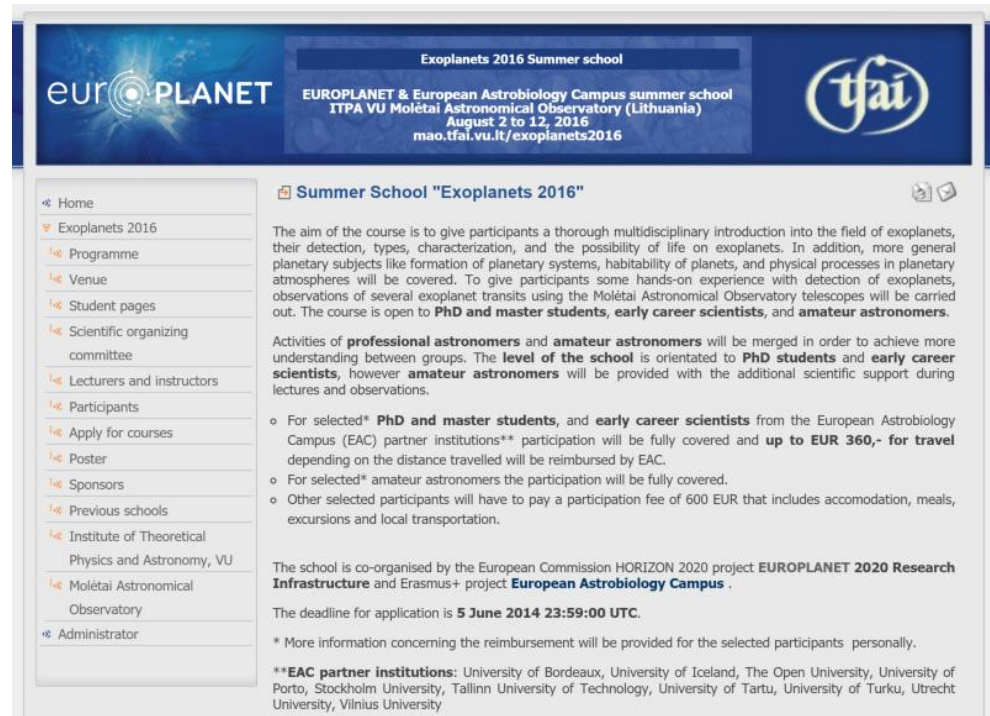
Summer School “Exoplanets 2016”

Moletai Astronomical Observatory, Lithuania

August 02-12, 2016

<http://mao.tfai.vu.lt/schools/index.php>

Open for applications!



The screenshot shows the website for the "Exoplanets 2016 Summer school". The header features the "eur PLANET" logo on the left and the "tfai" logo on the right. The main banner text reads: "Exoplanets 2016 Summer school", "EUROPLANET & European Astrobiology Campus summer school", "ITPA VU Moletai Astronomical Observatory (Lithuania)", "August 2 to 12, 2016", and "mao.tfai.vu.lt/exoplanets2016".

On the left side, there is a navigation menu with the following links: Home, Exoplanets 2016, Programme, Venue, Student pages, Scientific organizing committee, Lecturers and instructors, Participants, Apply for courses, Poster, Sponsors, Previous schools, Institute of Theoretical Physics and Astronomy, VU, Moletai Astronomical Observatory, and Administrator.

The main content area is titled "Summer School 'Exoplanets 2016'". It contains the following text:

The aim of the course is to give participants a thorough multidisciplinary introduction into the field of exoplanets, their detection, types, characterization, and the possibility of life on exoplanets. In addition, more general planetary subjects like formation of planetary systems, habitability of planets, and physical processes in planetary atmospheres will be covered. To give participants some hands-on experience with detection of exoplanets, observations of several exoplanet transits using the Moletai Astronomical Observatory telescopes will be carried out. The course is open to **PhD and master students, early career scientists, and amateur astronomers**.

Activities of **professional astronomers** and **amateur astronomers** will be merged in order to achieve more understanding between groups. The **level of the school** is orientated to **PhD students and early career scientists**, however **amateur astronomers** will be provided with the additional scientific support during lectures and observations.

- For selected* **PhD and master students**, and **early career scientists** from the European Astrobiology Campus (EAC) partner institutions** participation will be fully covered and **up to EUR 360,- for travel** depending on the distance travelled will be reimbursed by EAC.
- For selected* **amateur astronomers** the participation will be fully covered.
- Other selected participants will have to pay a participation fee of 600 EUR that includes accommodation, meals, excursions and local transportation.

The school is co-organised by the European Commission HORIZON 2020 project **EUROPLANET 2020 Research Infrastructure** and Erasmus+ project **European Astrobiology Campus**.

The deadline for application is **5 June 2014 23:59:00 UTC**.

* More information concerning the reimbursement will be provided for the selected participants personally.

****EAC partner institutions:** University of Bordeaux, University of Iceland, The Open University, University of Porto, Stockholm University, Tallinn University of Technology, University of Tartu, University of Turku, Utrecht University, Vilnius University

Workshop Support for Amateurs

Latest confirmed workshop with support of NA1 Task 5



8TH INTERNATIONAL WORKSHOP ON PLANETARY, SOLAR AND HELIOSPHERIC RADIO EMISSIONS
SEGGAUBERG NEAR GRAZ, AUSTRIA, OCTOBER 25-27, 2016

[HOME](#) | [PROGRAM](#) | [VENUE](#) | [ACCOMODATION](#) | [REGISTRATION](#) | [ABSTRACTS](#) | [PROCEEDINGS](#) | [COMMITTEES](#)

8th International Workshop on Planetary, Solar and Heliospheric Radio Emissions (PRE VIII)

 The Space Research Institute of the Austrian Academy of Sciences welcomes you to the 8th International Workshop on Planetary, Solar and Heliospheric Radio Emissions (PRE VIII). The meeting will take place in Seggau, about 30 km south of Graz, Austria, from October 25 to 27, 2016. PRE VIII is the continuation of the series of international workshops that took place in 1984, 1987, 1991, 1996, 2001, 2005, and 2010.

Aims & Scope:

 Key topics of our workshop are the recent developments in the study of non-thermal radio emissions from the Sun, the five radio planets, the heliosphere, and potential radio emissions from exoplanets. Special emphasis is put on current missions like Cassini and Juno, but also new findings from data of older missions like Stereo, Voyager, Galileo, Wind or Ulysses are welcome. Studies of terrestrial radio emission data from missions like MMS, Themis, Cluster or Demeter will be another important topic. In addition to space-based observations, new developments in ground-based radio telescope will be matters of discussion, that should lead to a better coordination of ground- and space-based observations. Presentations should focus on physical properties of radio emissions like rotational modulation, fine structures in dynamic spectra, polarization as well as source direction, and theoretical modeling and simulation of plasma and magnetic processes leading to their generation. Key question for future missions like Solar Orbiter or JUICE (Jupiter Icy Moons Explorer) can also be addressed. Oral as well as poster presentations are welcome.

This page contains further information about the workshop, and it will be updated as the news become available.

Registration and abstract submission for PRE VIII will be open in late June 2016!

Site administrators: Manuel Scherf, [manuel.scherf\[at\]oeaw.ac.at](mailto:manuel.scherf[at]oeaw.ac.at)
 Georg Fischer, [georg.fischer\[at\]oeaw.ac.at](mailto:georg.fischer[at]oeaw.ac.at)

Last updates: April 25, 2016

This workshop is co-supported by Europlanet 2020 RI NA1 - Innovation through Science Networking, Task 5: Coordination of ground based observations. Europlanet 2020 RI has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654208.

NA1-Matrix: Database for Ground-based Observatories

<http://iwf.oeaw.ac.at/matrix/>

List of ground-based observatories

Developed during Europlanet FP7

Will be extended during Europlanet 2020!

eur PLANET NA1 - Innovation through Science Networking Task 5 - Coordination of ground based observation

NA1-MATRIX OF GROUND-BASED FACILITIES & SPACE MISSIONS

HOME
BROWSE MATRIX GROUND-BASED FACILITY MAP

LOGIN:

USERNAME:
PASSWORD:

REGISTER A NEW ACCOUNT
FORGOT PASSWORD?

RETURN TO NA1 WEBSITE

DEVELOPED BY
IWF GRAZ TEAM
AND
UCL LONDON TEAM

What is the purpose of a Matrix for Ground-based Facilities and Space Missions?

The goal of this task, led by IWF/OEAW, and supported by UCL, is to provide the user community with **interactive links to ground-based instrumentation that is available to European planetary scientists**, and which has the capability of **supporting and complementing space missions**. This task will not limit itself just to the major observatories, but will also include medium- and small-size telescopes and instruments that can fulfill niche requirements for the community.

Planetary space missions cost anything from a few hundred million dollars to several billion dollars, with the largest missions taking decades to prepare. Due to the sizes of the projects, they involve several large international teams of scientists working on a variety of instruments. For example the Cassini Mission, which took 25 years from its inception to arrival at Saturn in 2004, has 12 instruments all involved in taking data regarding the planet, its magnetosphere, rings and moons. The budget for the whole mission is estimated to be well in excess of \$3 billion and rising every day, as scientists are employed in directing the spacecraft and analysing the information returned. Thus, it is vital that the scientific return obtained from this large investment of money, time and effort is maximised.

Observations from the ground are much cheaper to make in comparison to the space missions and can back up spacecraft measurements: a nights observation on the largest telescopes costs something in the order of \$20,000. Also not every type of instrument can be own as some are too heavy and others lose out to mission-decided priorities. This can be overcome though as ground based telescopes may have the capabilities to fill the gaps in the data collection, while complementing what the spacecraft can achieve. For example, there is no high-spectral-resolution infrared spectrometer on Cassini capable of measuring the Saturns wind systems. But such instruments are available on NASAs Infrared Telescope Facility on Mauna Kea, Hawaii and elsewhere. In the USA, the American planetary science community has a long and productive history of supporting their space missions with ground-based observations. Europe is much less organised in this respect. Thus, the aim of Europlanet is to bridge this gap with European planetary science.

This website exists to aid in the organisation of collaborative efforts between astronomers world-wide. It provides a database of current and proposed space missions and ground-based facilities that are designed for Planetary Science.

Project supported by the European Union

Contact the Team:
Tarek Al-Ubaidi | Manuel Scherf | Joanna Fabbri

NA1-Matrix: Database for Ground-based Observatories

<http://iwf.oeaw.ac.at/matrix/>

Ground-based facilities map

Everyone is free to share as many (or less) information as she/he wants to be online accessible!



The screenshot displays the NA1-Matrix website. At the top, the 'eur PLANET' logo is on the left, and the text 'NA1 – Innovation through Science Networking Task 5 – Coordination of ground based observation' is on the right, alongside the European Union flag and 'HORIZON 2020' logo. Below this is a large banner image of a solar system with a large orange sun, a small blue planet, and a larger white planet. The main heading is 'NA1-MATRIX OF GROUND-BASED FACILITIES & SPACE MISSIONS'.

On the left side, there is a navigation menu with the following links: HOME, BROWSE MATRIX, GROUND-BASED FACILITY MAP, LOGIN: (with fields for USERNAME: and PASSWORD: and a Log in button), REGISTER A NEW ACCOUNT, FORGOT PASSWORD?, and RETURN TO NA1 WEBSITE. At the bottom of this menu, it says 'DEVELOPED BY IWF GRAZ TEAM AND UCL LONDON TEAM'.

The main content area features the title 'Interactive map of Ground-based Facilities'. Below this, a paragraph explains: 'On this map you can see the location of all **currently integrated ground-based facilities**. If you agree to the browsers notification, it will determine **your current location** and display it with a **blue marker**. The map is then centered to your location. You may get **more information** on an observatory by clicking on one of the **red markers**. Note, that this service is in experimental state and not fully functioning.'


Below the text, it states 'There are 235 ground-based facilities with GPS data listed in the matrix'. This is followed by a world map showing numerous red pins indicating the locations of these facilities. The map includes labels for various countries and regions, such as Grönland, Island, Schweden, Norwegen, Finnland, Kanada, USA, Mexiko, Venezuela, Kolumbien, Peru, Brasilien, Argentinien, Nord Atlantischer Ozean, Südatlantik, Indischer Ozean, and others. The map is powered by Google and includes a 'Karte' button and a 'Satellit' button. At the bottom right, it says 'Kartendaten © 2016 Nutzungsbedingungen'.

NA1-Matrix: Database for Ground-based Observatories

<http://iwf.oeaw.ac.at/matrix/>

List of observatories is searchable via a diverse set of different filters!

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Task 5 – Coordination of ground based observation



NA1-MATRIX OF GROUND-BASED FACILITIES & SPACE MISSIONS

Resource Selection:
☒ Ground-based Facility ☐ Space Mission

There are 271 ground-based facilities listed in the matrix

Filter the content by selecting one of the dropdown menus or type a facility name to search

Search by Observatory Name

Filter by Country

Search by Telescope Name

Filter by Telescope Type

Show Mobile Stations only ☐

Filter by Telescope Diameter

Filter by Wavelength Ranges

Filter by Instrument Type

Filter by Area of Interest

Filter by Target

For details please click on ground-based facility entry name

NAME	INSTITUTION	COUNTRY	WEB	TELESCOPE-TYPE (WAVELENGTH)
88-inch Telescope (Mauna Kea)	University of Hawaii	United States		2.2 m Reflecting Telescope (optical, infrared)
A81 Balzaretti Observatory	Privately owned	Italy		0.203 m Schmidt-Cassegrain (optical)
Abastumani Astrophysical Observatory	Abastumani Astrophysical Observatory	Georgia		1.25 m Ritchey-Chretien (optical) 0.7 m Other (infrared, optical, ultraviolet) 0.53 m Other 0.5 m Reflecting Telescope (optical) 0.44 m Other 0.4 m Refracting Telescope (optical) 0.4 m Refracting Telescope (optical) 0.36 m Reflecting Telescope (optical)

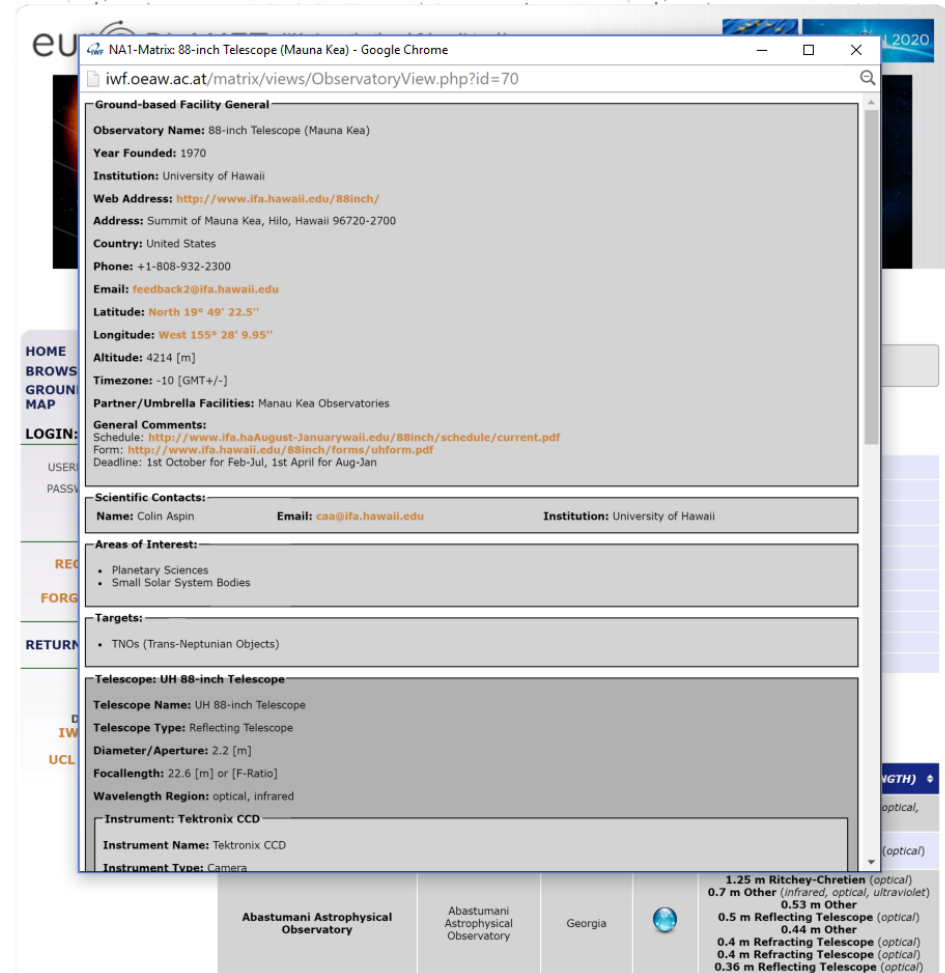
DEVELOPED BY
IWF GRAZ TEAM
AND
UCL LONDON TEAM

NA1-Matrix: Database for Ground-based Observatories

<http://iwf.oeaw.ac.at/matrix/>

Every facility entry list information on

- administrative issues like contact data, geographical position, etc.;
- science and target interests;
- detailed telescope and instrument information;
- ...



NA1-Matrix: 88-inch Telescope (Mauna Kea) - Google Chrome

iwf.oeaw.ac.at/matrix/views/ObservatoryView.php?id=70

Ground-based Facility General

Observatory Name: 88-inch Telescope (Mauna Kea)
Year Founded: 1970
Institution: University of Hawaii
Web Address: <http://www.ifa.hawaii.edu/88inch/>
Address: Summit of Mauna Kea, Hilo, Hawaii 96720-2700
Country: United States
Phone: +1-808-932-2300
Email: feedback2@ifa.hawaii.edu
Latitude: North 19° 49' 22.5"
Longitude: West 155° 28' 9.95"
Altitude: 4214 [m]
Timezone: -10 [GMT+/-]
Partner/Umbrella Facilities: Manau Kea Observatories

General Comments:
 Schedule: <http://www.ifa.hawaii.edu/88inch/schedule/current.pdf>
 Form: <http://www.ifa.hawaii.edu/88inch/forms/uhform.pdf>
 Deadline: 1st October for Feb-Jul, 1st April for Aug-Jan

Scientific Contacts:

Name	Email	Institution
Colin Aspin	caa@ifa.hawaii.edu	University of Hawaii

Areas of Interest:

- Planetary Sciences
- Small Solar System Bodies

Targets:

- TNOs (Trans-Neptunian Objects)

Telescope: UH 88-inch Telescope

Telescope Name: UH 88-inch Telescope
Telescope Type: Reflecting Telescope
Diameter/Aperture: 2.2 [m]
Focallength: 22.6 [m] or [F-Ratio]
Wavelength Region: optical, infrared

Instrument: Tektronix CCD

Instrument Name: Tektronix CCD
Instrument Type: Camera

Abastumani Astrophysical Observatory

Abastumani Astrophysical Observatory Georgia

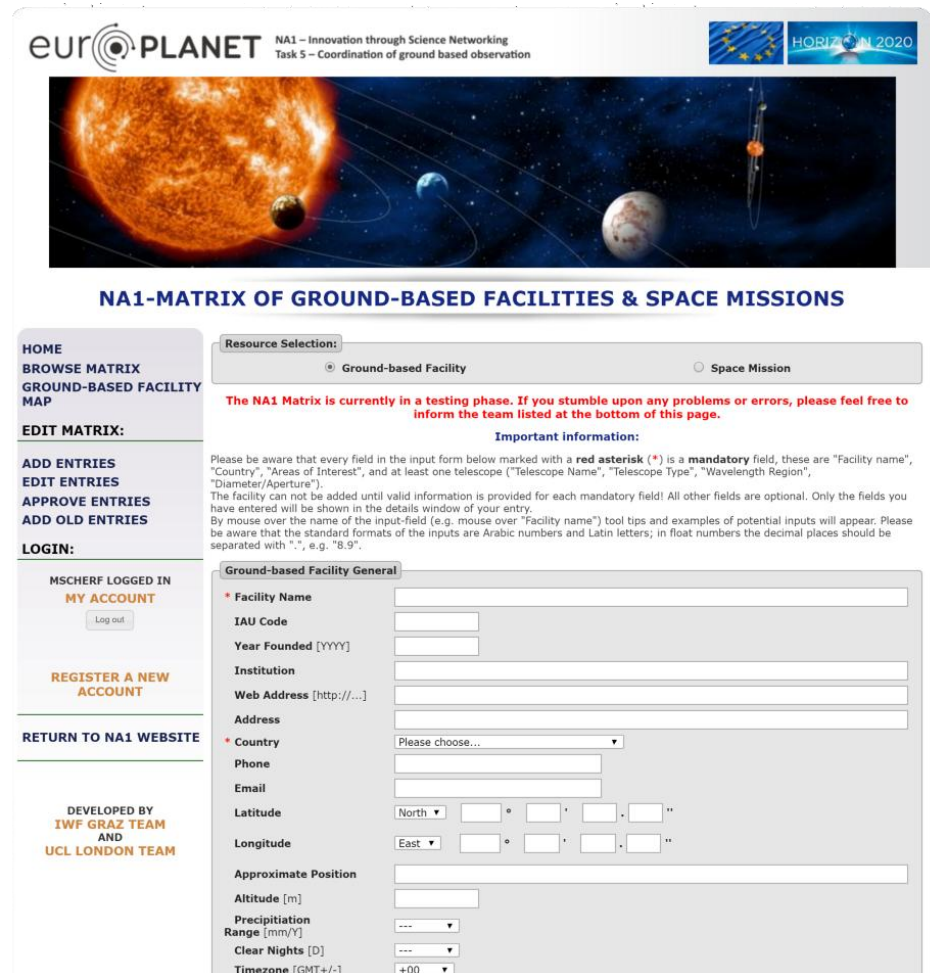
1.25 m Ritchey-Chretien (optical)
0.7 m Other (infrared, optical, ultraviolet)
0.53 m Other
0.5 m Reflecting Telescope (optical)
0.44 m Other
0.4 m Refracting Telescope (optical)
0.4 m Refracting Telescope (optical)
0.36 m Reflecting Telescope (optical)

NA1-Matrix: Database for Ground-based Observatories

<http://iwf.oeaw.ac.at/matrix/>

Everyone can register for free and add her/his own observatory, telescope or instrument!

This will be extended, so that amateur astronomer can also directly upload their observational data linked to her/his observatory entry, so that it will get publicly accessible!



The screenshot shows the NA1-Matrix website interface. At the top, there is a header with the eur PLANET logo and the text "NA1 – Innovation through Science Networking Task 5 – Coordination of ground based observation". Below the header is a large image of a solar system with a large orange sun, a small blue planet, and a larger grey planet. The title "NA1-MATRIX OF GROUND-BASED FACILITIES & SPACE MISSIONS" is displayed below the image.

On the left side, there is a navigation menu with the following links: HOME, BROWSE MATRIX, GROUND-BASED FACILITY MAP, EDIT MATRIX, ADD ENTRIES, EDIT ENTRIES, APPROVE ENTRIES, ADD OLD ENTRIES, and LOGIN. Below the login link, it says "MSCHERF LOGGED IN MY ACCOUNT" with a "Log out" button. Further down, there is a "REGISTER A NEW ACCOUNT" button. At the bottom of the menu, it says "RETURN TO NA1 WEBSITE".

On the right side, there is a "Resource Selection" section with two radio buttons: "Ground-based Facility" (selected) and "Space Mission". Below this, there is a red warning message: "The NA1 Matrix is currently in a testing phase. If you stumble upon any problems or errors, please feel free to inform the team listed at the bottom of this page." Below the warning, there is an "Important information:" section with a paragraph of text explaining the mandatory fields and the testing phase.

The main form is titled "Ground-based Facility General" and contains the following fields:

- * Facility Name (text input)
- IAU Code (text input)
- Year Founded [YYYY] (text input)
- Institution (text input)
- Web Address [http://...] (text input)
- Address (text input)
- * Country (dropdown menu)
- Phone (text input)
- Email (text input)
- Latitude (text input with a dropdown menu for North/South and a degree symbol)
- Longitude (text input with a dropdown menu for East/West and a degree symbol)
- Approximate Position (text input)
- Altitude [m] (text input)
- Precipitation Range [mm/Y] (text input)
- Clear Nights [D] (text input)
- Timezone [GMT+/-] (text input)

NA1-Matrix: Database for Ground-based Observatories



Query form: All VO

Target name <input type="text"/>	Target class <div>asteroid comet dwarf_planet exoplanet interplanetary_medium planet</div>
Resource type <div>granule</div>	
Dataset ID <input type="text"/>	
Time selection <div>Data range is included in</div>	<div>the range between</div>
Time min <input type="text"/>	Time max <input type="text"/>
Dataproduct type <div>image spectrum dynamic_spectrum</div>	Measurement type <input type="text"/>

Location +
Spectral +
Time +
Photometry +
Instrument +
Optional +

Plotting tools

- TOPCAT
- Aladin
- VOSpec
- SPLAT

to
for

Example queries

- Saturn in March 2012

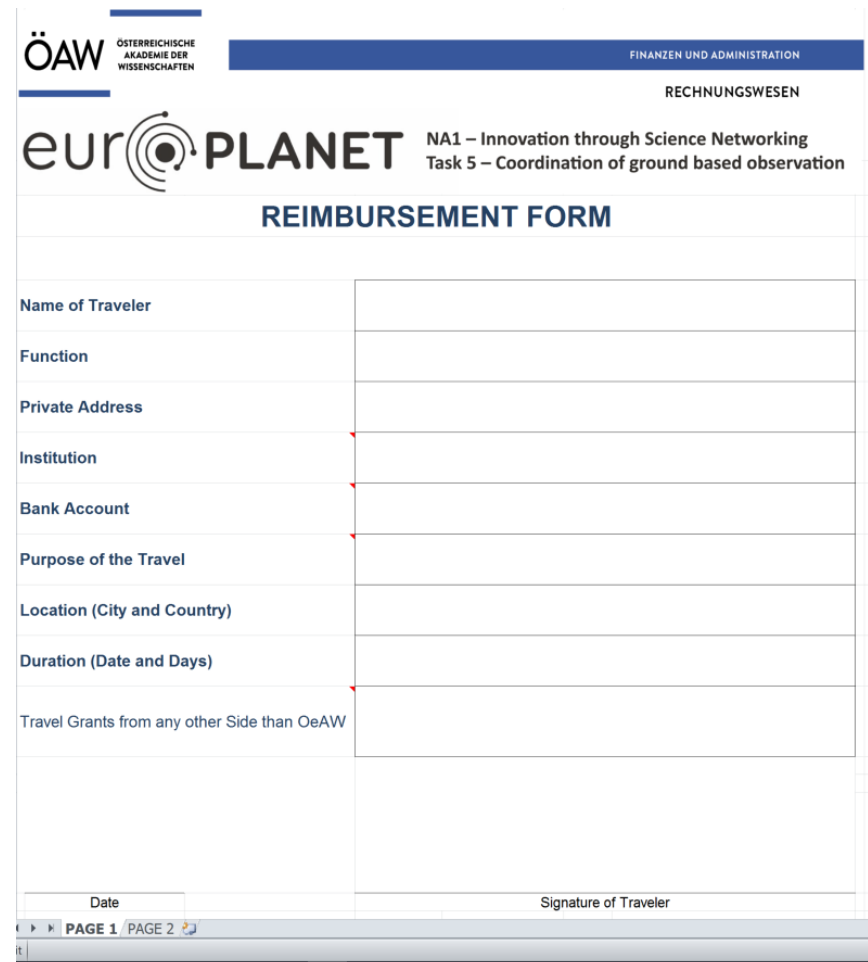
Reimbursement

Reimbursement Form will be sent around via email

The completed form has to be sent via postal mail to

Claudia Grill
Space Research Institute
Austrian Academy of Sciences
Schmiedlstrasse 6
A-8043 Graz, Austria

All original receipts have to be sent together with the reimbursement form!



ÖAW ÖSTERREICHISCHE AKADEMIE DER WISSENSCHAFTEN
FINANZEN UND ADMINISTRATION
RECHNUNGSWESEN

eur PLANET NA1 – Innovation through Science Networking
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REIMBURSEMENT FORM

Name of Traveler	
Function	
Private Address	
Institution	
Bank Account	
Purpose of the Travel	
Location (City and Country)	
Duration (Date and Days)	
Travel Grants from any other Side than OeAW	
Date	Signature of Traveler

PAGE 1 PAGE 2

Reimbursement

If any questions are occurring please feel free to ask me!

...or write me an email (manuel.scherf@oeaw.ac.at)

...or write an email to our secretary Claudia Grill (claudia.grill@oeaw.ac.at)

And please take care on our **Reimbursement Rules!**

Many Thanks and have a nice Workshop!