

Registering Resources from Observatoire de Paris and Nançay in SPASE/HPDE

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- Registration of support resources: Observatory, Instrument, Data Repository, Person...
- Registration of data product resources: Numerical Data, Display Data, Catalogs

HPDE repository update

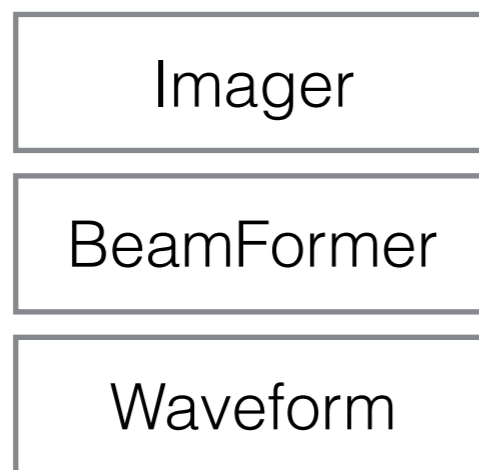
- Using HPDE Github repositories:
straightforward git process
(fork, branch, update, commit, push, pull-request)
- history available (commits, diffs, comments):
<https://github.com/hpde/SMWVG/pull/6>
- Nice and efficient
Automated validation could be integrated

Observatory / Instruments

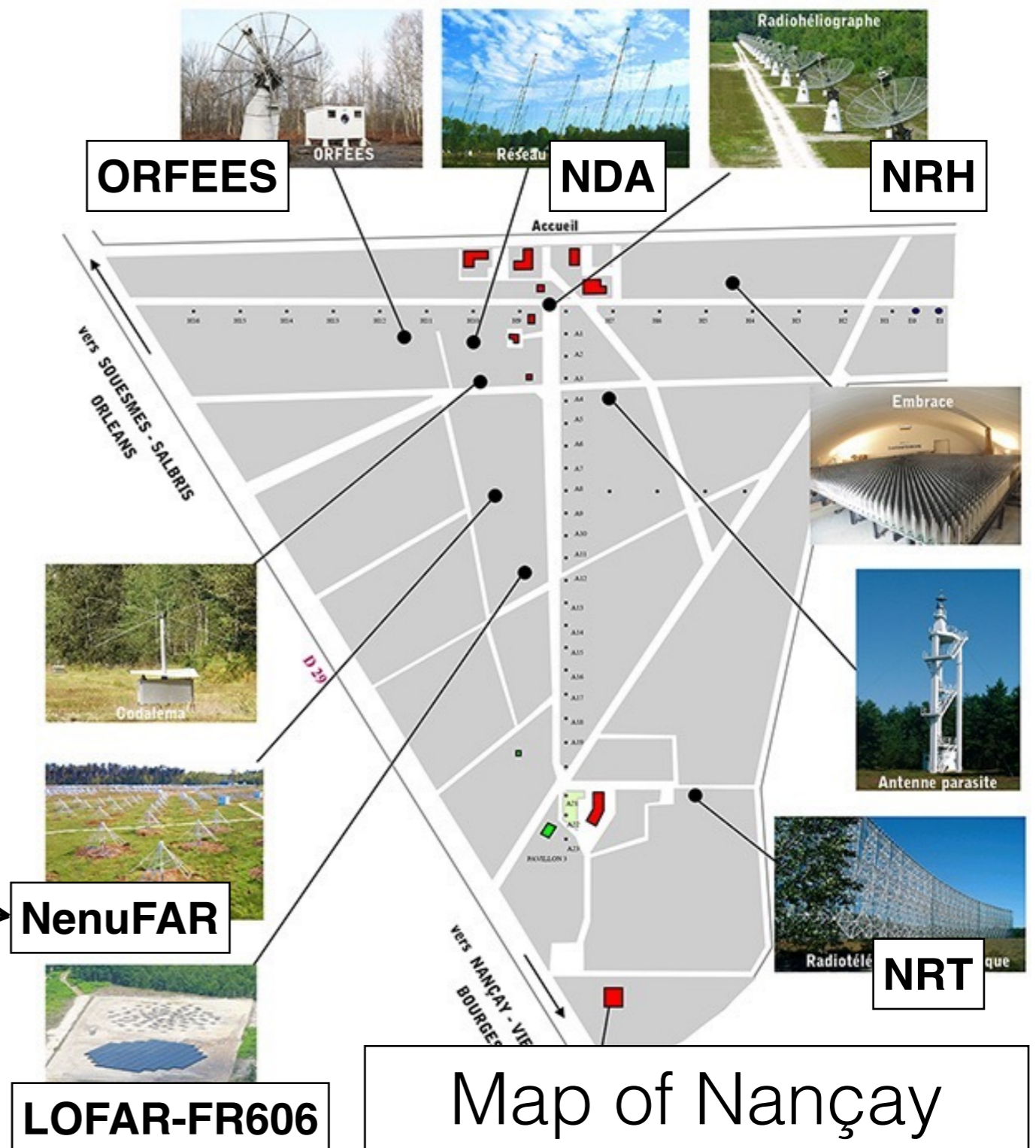
- **How to decide between Observatory and Instrument**

SPASE Observatory:
*includes location
 (phase reference location)*

SPASE Instrument:
includes instrument type



(Instrument)



Observatory Resources declared in SMWG

<spase://SMWG/Observatory/LOFAR>
<spase://SMWG/Observatory/Meudon>
<spase://SMWG/Observatory/ObsParis>
<spase://SMWG/Observatory/SRN>
<spase://SMWG/Observatory/SRN/FR606/HBA>
<spase://SMWG/Observatory/SRN/FR606/LBA>
<spase://SMWG/Observatory/SRN/NDA>
<spase://SMWG/Observatory/SRN/NRH>
<spase://SMWG/Observatory/SRN/NRT>
<spase://SMWG/Observatory/SRN/NenuFAR>
<spase://SMWG/Observatory/SRN/ORFEES>

Instrument Resources declared in SMWG

<spase://SMWG/Instrument/Meudon/Heliograph>
<spase://SMWG/Instrument/Meudon/SID>
<spase://SMWG/Instrument/Meudon/Spectroheliograph>
<spase://SMWG/Instrument/SRN/FR606/HBA>
<spase://SMWG/Instrument/SRN/FR606/LBA>
<spase://SMWG/Instrument/SRN/NDA/JunoN>
<spase://SMWG/Instrument/SRN/NDA/NewRoutine>
<spase://SMWG/Instrument/SRN/NDA/Routine>
<spase://SMWG/Instrument/SRN/NRH>
<spase://SMWG/Instrument/SRN/NenuFAR/BeamFormer>
<spase://SMWG/Instrument/SRN/NenuFAR/Imager>

hpde.io/SMWG/Observato

VESPA forums Mission IPDA JUICE CDPD radio

SPASE Resource Description

HPDE.io

Nancy Decameter Array

ResourceID
spase://SMWG/Observatory/SRN/NDA

Description

Details

Observatory

ResourceID
spase://SMWG/Observatory/SRN/NDA

ResourceHeader

ResourceName
Nancy Decameter Array

ReleaseDate
2020-07-01 22:17:00Z

Description

Contacts

Role	Person
1. GeneralContact	spase://SMWG/Person/La
2. TechnicalContact	spase://SMWG/Person/Ali
3. MetadataContact	spase://SMWG/Person/Ba

InformationURL

URL
<https://www.obs-nancay.fr/reseau-dec>

Language
en

ObservatoryGroupID
spase://SMWG/Observatory/SRN

Location

ObservatoryRegion
Earth.Surface

CoordinateSystemName
GEO

Latitude
47.380510

Longitude
2.193226

Elevation
135

OperatingSpan

StartDate
1978-01-01 00:00:00.000Z

Afficher un menu

spase://SMWG/Observatory/SRN/NDA

ObservatoryGroupID
spase://SMWG/Observatory/SRN

Location

ObservatoryRegion
Earth.Surface

CoordinateSystemName
GEO

Latitude
47.380510

Longitude
2.193226

Elevation
135

OperatingSpan

StartDate
1978-01-01 00:00:00.000Z

hpde.io/SMWG/Instrument

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SPASE Resource Description

HPDE.io

Routine

ResourceID
spase://SMWG/Instrument/SRN/NDA/Routine

Description

Details

Instrument

ResourceID
spase://SMWG/Instrument/SRN/NDA/Routine

ResourceHeader

ResourceName
Routine

ReleaseDate
2020-07-01 22:16:00Z

Description

Contacts

Role	Person
1. GeneralContact	spase://SMWG/Person/Laurent.Lamy
2. TechnicalContact	spase://SMWG/Person/Alexandre.Le.Gall
3. MetadataContact	spase://SMWG/Person/Baptiste.Cecconi

InstrumentType
SpectralPowerReceiver

InvestigationName
Nancy Decameter Array

OperatingSpan

StartDate
1990-09-18 00:00:00.000Z

ObservatoryID
spase://SMWG/Observatory/SRN/NDA

Afficher un menu

spase://SMWG/Instrument/SRN/NDA/Routine

InstrumentType
SpectralPowerReceiver

InvestigationName
Nancy Decameter Array

OperatingSpan

StartDate
1990-09-18 00:00:00.000Z

ObservatoryID
spase://SMWG/Observatory/SRN/NDA

New Repositories

- Repositories, with access URLs (overview or search interfaces)
- Paris Astronomical Data Centre (Obs Paris)
<spase://SMWG/Repository/PADC>
 - Repositories within PADC:
 - <spase://SMWG/Repository/PADC/APIIS>
Images and Spectra of planetary Aurorae (FITS, PDF)
 - <spase://SMWG/Repository/PADC/BASS2000>
Images of the Sun (FITS)
 - spase://SMWG/Repository/PADC/HELIO_HFC
Solar event database (radio bursts, active regions...)
 - <spase://SMWG/Repository/PADC/MASER>
Ground and space radio data, catalogues
- Nançay Data Centre (CDN):
<spase://SMWG/Repository/CDN>
Nançay radio data

Registering Data Products

- NB: Ongoing work.
All repositories from PADC and CDN will be processed.
- Starting with **SRN/NDA/Routine** data.
- GBO (Ground Based Observatories): who curates and maintains this tree ?
- Not as straightforward as support resources.
 - Parameter description
 - Access information description
- DOI policy: Observatoire de Paris mints its own DOIs for data.
- Licence policy: Creative-Commons licence (CC-BY, or CC-BY-NC-SA)

Registering Data Products

- Several access methods:
 - Search interface (web form)
 - HTTP listing and URL template (several types of files: raw and CDF)
 - Das2 & HAPI interfaces (1 stream per variable + extra variables computed on the fly)
 - EPN-TAP data discovery (standardised data discovery API)

Access Method	Granularity	AccessURL	ProductKey	Style
Web search	files	web form	N/A	Search
HTTP listing	files	listing main level	N/A	Listing
URL Template	file collections	template	N/A	Template
Das2	parameters	das2 server URL	data source name	<missing>
EPN-TAP	files	TAP server URL	epncore table	<missing>
HAPI	parameters	HAPI URL	parameters name	HAPI

Discussion (1)

- **Registration of support products works well** (Observatory, Instruments, Persons, Repository) in SMWG tree.
- **External identifier usage:**
 - Addition of **ORCID into Persons** records is very good.
 - Consider usage of ROR (Research Organisation Registry: <https://ror.org>) could be included as attribute of OrganisationName?
 - Consider usage of Re3Data (Registry of Research Data Repositories: <https://www.re3data.org>) for Repositories?
- For ground based facilities, data products are declared in GBO tree.
Who is curating and managing GBO?
=> more generic question on SPASE IDs (root tree element = naming authority)
- **Continuous Integration and testing** could be implemented in Github/HPDE

Discussion (2)

- **NumericalData** need clarification for:
 - **data provider:** How to fill in *<AccessInformation>* for “extra” *<style>*, like *das2* and *EPN-TAP*
 - **tool developer:** How to interpret *<AccessInformation>* for all *<style>* (including extra ones).
- **DOI:**
 - SPASE/HPDE mints DOIs for SPASE resources
 - what about resources/repositories having their own DOIs?
 - *Proposed IHDEA recommendation for DOI landing page: include a link to SPASE record at HPDE.io*
- **Access rights:**
 - current SPASE model offers 3 levels: Open, PartiallyRestricted, Restricted
 - most data repositories now enforce usage of licences (e.g. CC-BY), => need for a model element to specify this.