

SIOS Data Management System: distributed data system for Earth System Science

Dariusz Ignatiuk¹, Øystein Godøy^{1,2}, Lara Ferrighi², Inger Jennings¹, Christiane Hübner¹, Shridhar Jawak¹, and Heikki Lihavainen¹

¹ Svalbard Integrated Arctic Earth Observing System (SIOS), Longyearbyen, Svalbard

² Norwegian Meteorological Institute, Oslo, Norway



EGU21-15205

<https://doi.org/10.5194/egusphere-egu21-15205>

EGU General Assembly 2021

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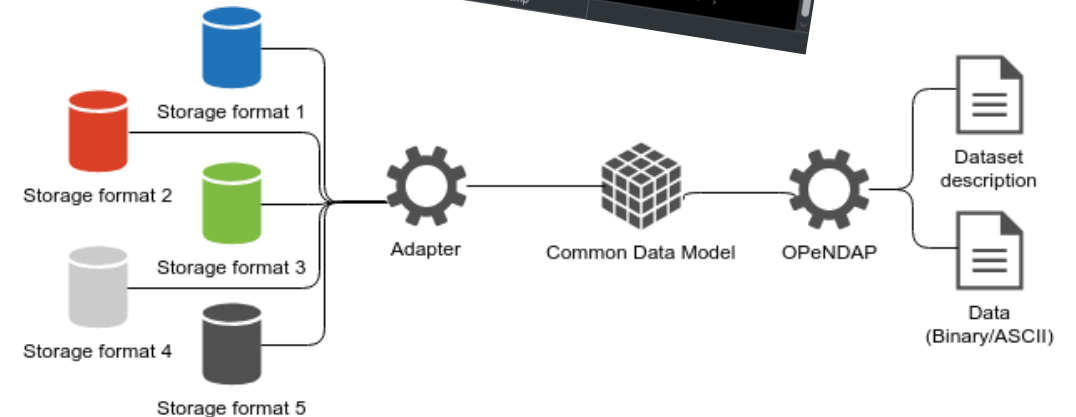
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SIOS Data Management System (SDMS)

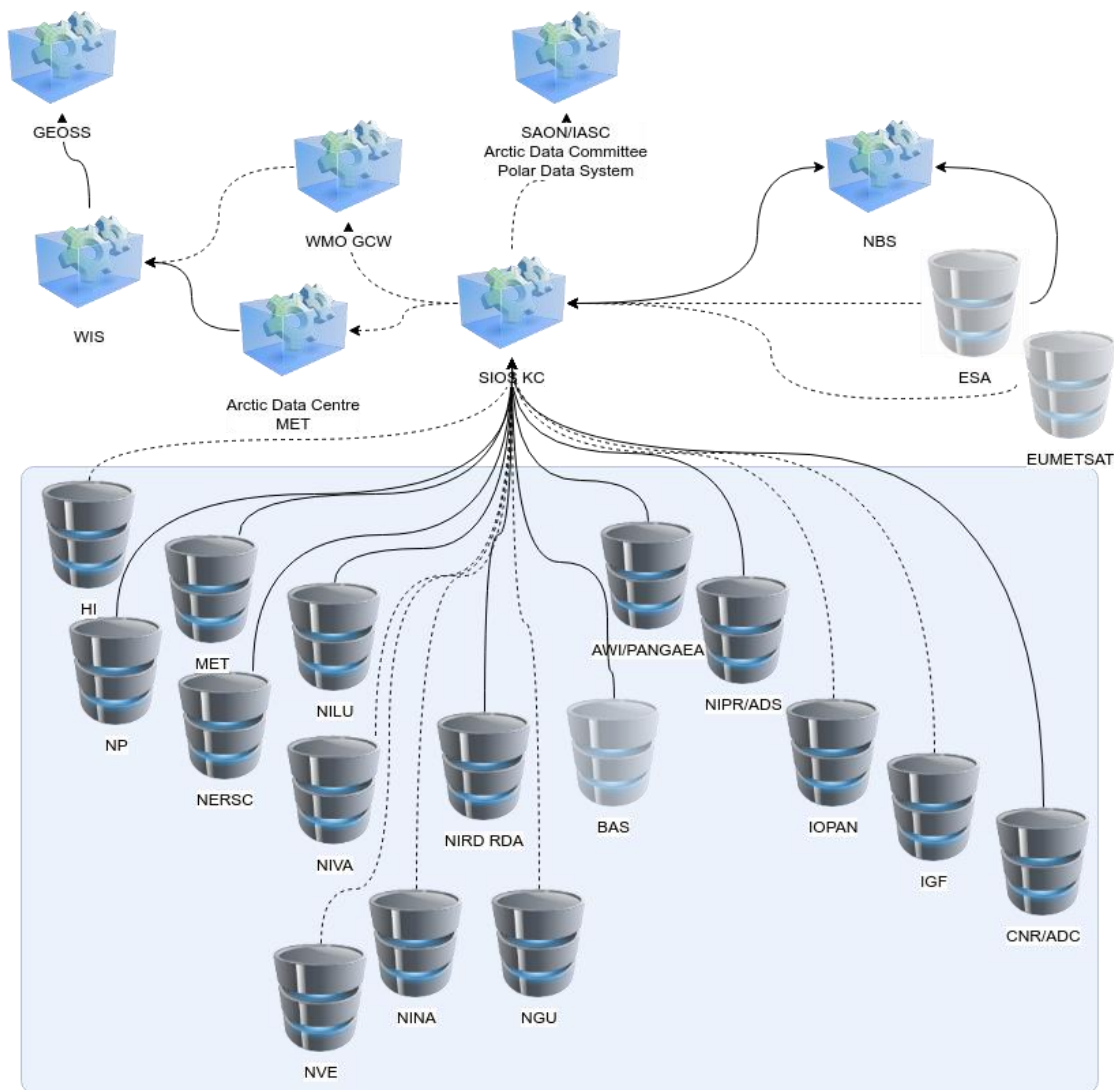
- Open and free data sharing
- FAIR data
- Harmonisation of the data (SIOS Core Data)
- Cross-disciplinary combinations of data and products
- Workshops/trainings/tutorials/tools



```
File Edit View Bookmarks Settings Help
netcdf radiux_bjornoya {
  dimensions:
    time = UNLIMITED ; // (3847970 currently)
    strlen25 = 25 ;
  variables:
    double time(time) ;
    time:long_name = "time of the observation" ;
    time:short_name = "time" ;
    time:standard_name = "time" ;
    time:units = "seconds since 1978-01-01 00:00:00 UTC" ;
    char stationid(strlen25) ;
    stationid:long_name = "name and/or stationnumber used as identifier" ;
    float latitude ;
    latitude:long_name = "latitude" ;
    latitude:short_name = "latitude" ;
    latitude:standard_name = "latitude" ;
    latitude:units = "degree_north" ;
    latitude:valid_min = -90.f ;
    latitude:valid_max = 90.f ;
    float longitude ;
    longitude:long_name = "longitude" ;
    longitude:short_name = "longitude" ;
    longitude:standard_name = "longitude" ;
    longitude:units = "degree_east" ;
    longitude:valid_min = -180.f ;
    longitude:valid_max = 180.f ;
    float ss1(time) ;
    ss1:long_name = "shortwave irradiation at the surface" ;
    ss1:short_name = "ss1" ;
    ss1:standard_name = "surface_downwelling_shortwave_flux" ;
    ss1:units = "watts/meter2" ;
    ss1:cell_method = "time: mean (last minute)" ;
    float ss1senstamp(time) ;
    ss1senstamp:long_name = "temperature of the surface shortwave irradiation sensor" ;
    ss1senstamp:short_name = "ss1senstamp" ;
    ss1senstamp:FillValue = -999.f ;
    ss1senstamp:units = "degC" ;
    ss1senstamp:cell_method = "time: mean (last minute)" ;
    float d1(time) ;
    d1:long_name = "difference between downward atmospheric longwave irradiation and emitted longwave irradiance" ;
    d1:short_name = "d1" ;
    d1:standard_name = "surface_net_downward_longwave_flux" ;
    d1:units = "watts/meter2" ;
    d1:cell_method = "time: mean (last minute)" ;
    float d1senstamp(time) ;
    d1senstamp:long_name = "temperature of the surface longwave irradiation sensor" ;
    d1senstamp:short_name = "d1senstamp" ;
    d1senstamp:FillValue = -999.f ;
    d1senstamp:units = "degC" ;
    d1senstamp:cell_method = "time: mean (last minute)" ;
    float battery(time) ;
    battery:long_name = "minimum battery voltage" ;
    battery:short_name = "battery" ;
    battery:FillValue = -999.f ;
    battery:units = "V" ;
    battery:cell_method = "time: min (last minute)" ;
}
```



SIOS Data Management System



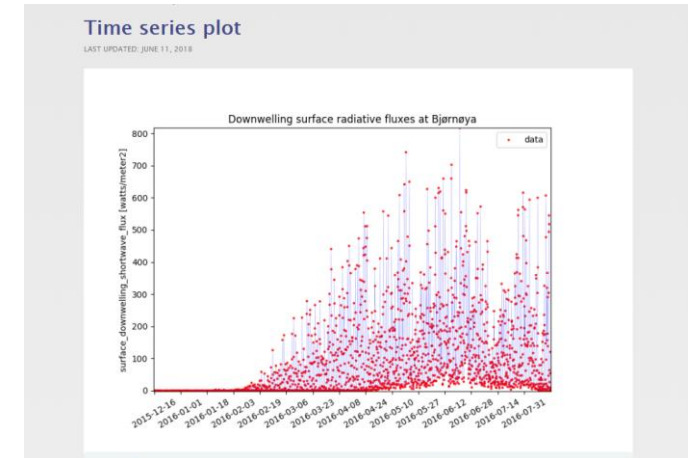
SIOS Data Access Point



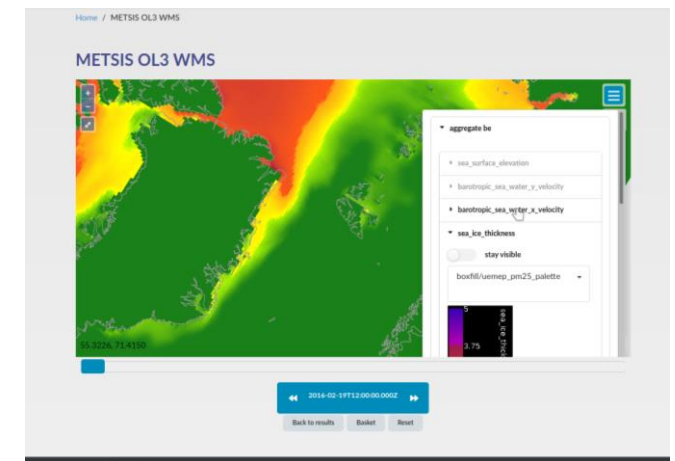
https://sios-svalbard.org/metadata_search



Services: Time Series plotting

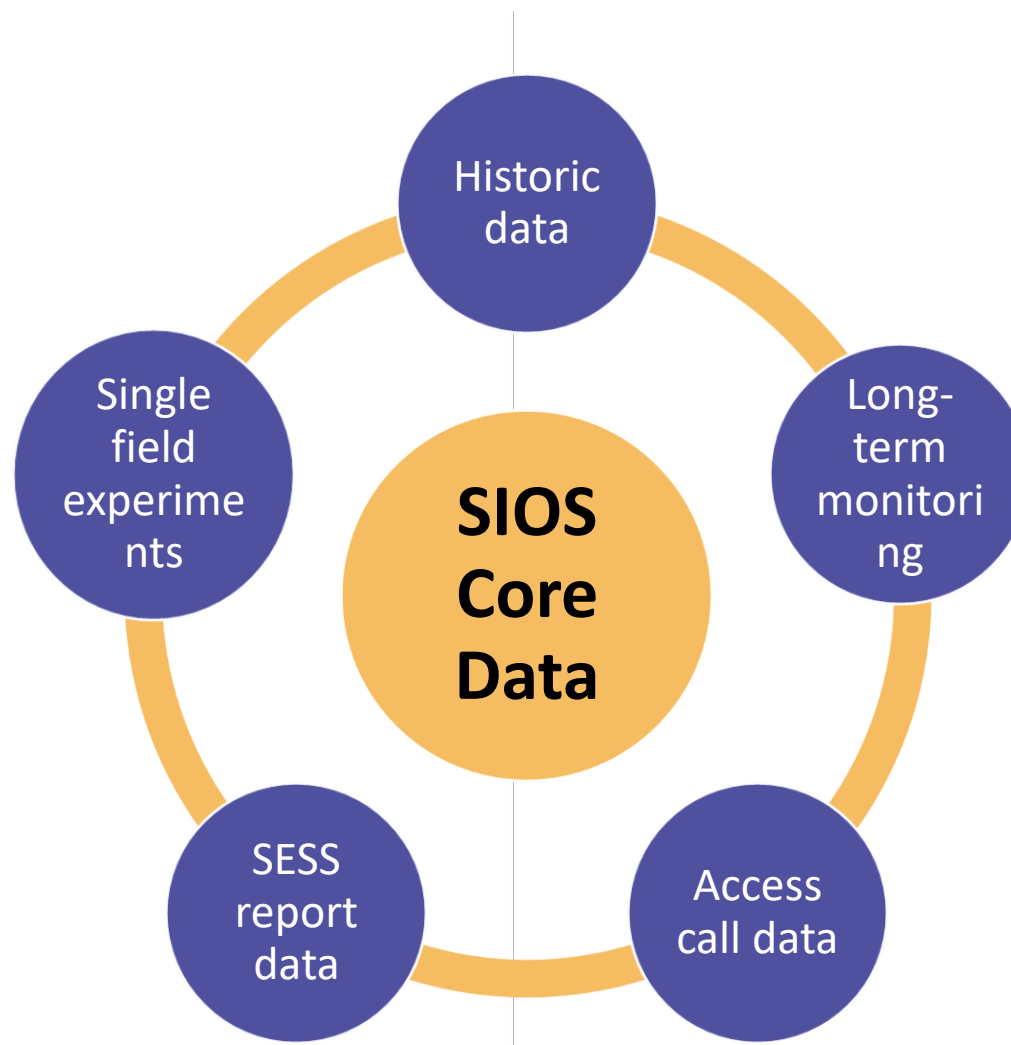


Services: Visualization



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Types of SIOS Data



life is
not
FAIR,
our
DATA
is

Criteria for SIOS Core Data

