Universität Bremen

DLR

Intake, Zarr, Healpix

ESMValTool Workshop

Oberpfaffenhofen, 13.05.2025

ESMValTool
Earth System Model Evaluation Tool

New data sources

https://github.com/ESMValGroup/ESMValCore/issues/2584

The plan for what the configuration should look like is in #2371. Example `dkrz-intake.yml` configuration file:

```yaml
projects:
  CMIP6:
    data:
      CMIP6-intake-esm:
        type: esmvalcore.intake.IntakeDataSource
        file: '/pool/data/Catalogs/levante-cmip6.json'
        facets:
          # mapping from recipe facets to intake-esm catalog facets
          activity: activity_id
          dataset: source_id
          ensemble: member_id
          exp: experiment_id
          grid: grid_label
          institute: institution_id
          mip: table_id
          short_name: variable_id
          version: version
```

Intake

https://github.com/ESMValGroup/ESMValCore/pull/2690

Charles working on their local intake catalogue

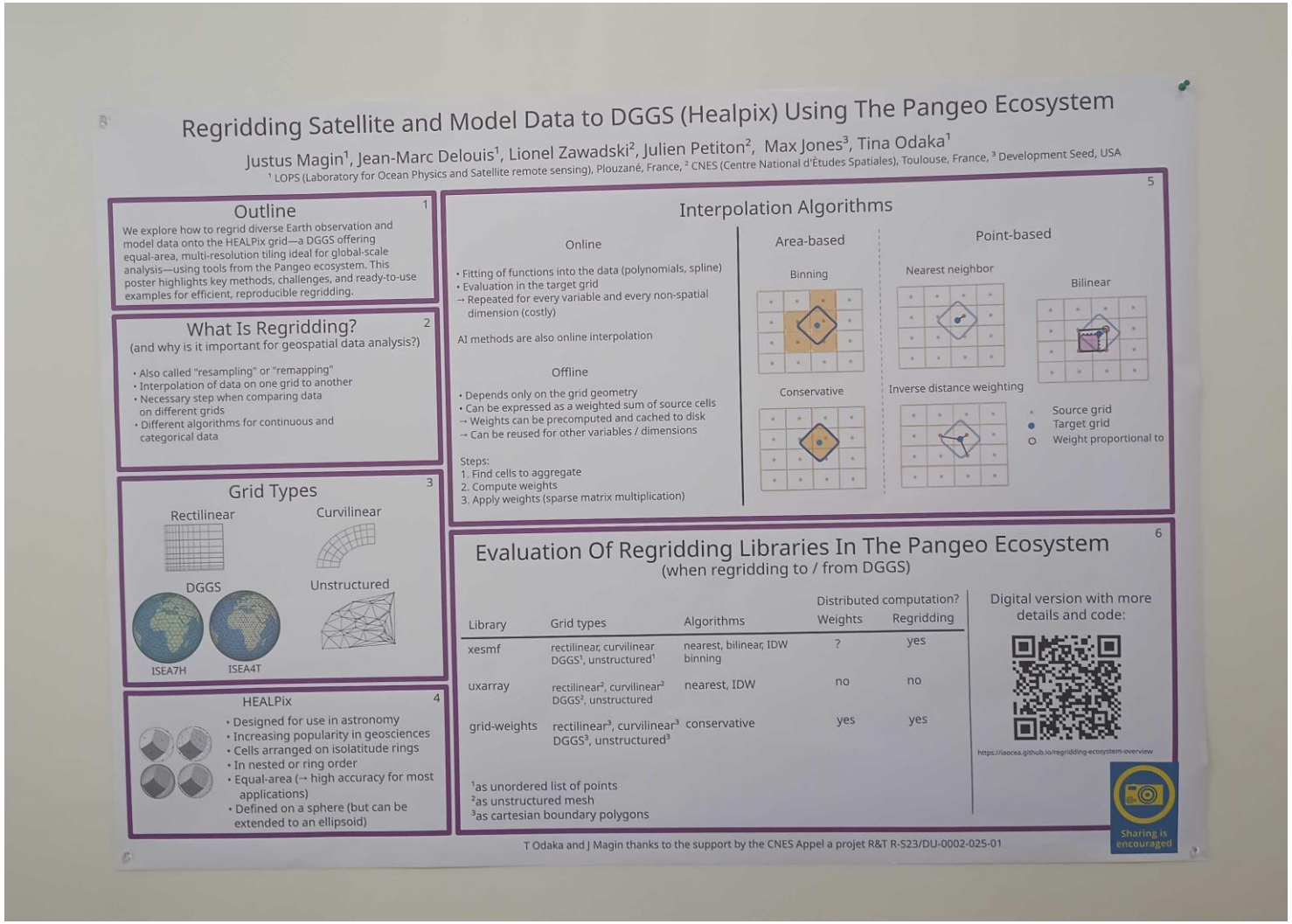
Many different facets of intake: intake-esm, intake-stac, etc

Zarr

Probably access through xarray?
Jan has a working prototype for reading it with xarray, but not in the structure we're aiming for

HEALPix

Goal: Just to read
or also to use the grid natively for plotting/ using the zoom function?
People at km-scale hackathon will work with HEALPix this week and give us some insight
Timeline?



https://github.com/IAOCEA/regridding-ecosystem-overview