



# OceanPredict Intercomparison and Validation Task Team (IV-TT) Virtual Meeting

# Agenda

1. Discussion regarding the use of the external ECCO computing cluster as a class4 mirror (and more).
2. Policy regarding the use and sharing of class4 data
3. Preparation for OceanPredict'24 (IV-TT side meeting)
4. Preparation of publication on Class 4 intercomparison
5. Online seminar series



# External ECCC computing cluster

- General Purpose Scientific Computing Cluster (GPSC-C)
  - Referred to hereafter as “ECCC cluster”
- ECCC cluster has some limited parallel computing capacity, significant disk space (many TBs) as well as general libraries (e.g. Netcdf, Python)
- Provides shared space for exchange of files, codes and can be used as a common “sandbox” for collaboration
  - Not to be used for activities unrelated to IV-TT.
- Accessible via SSH at : [hpfx.collab.science.gc.ca](https://hpfx.collab.science.gc.ca)
- Files can be made openly accessible
  - E.g . [https://hpfx.collab.science.gc.ca/~sdfo500/GODAE\\_Class4\\_out/](https://hpfx.collab.science.gc.ca/~sdfo500/GODAE_Class4_out/)
- Several user accounts already opened for IV-TT
  - Ask Greg for form to open additional user accounts
- GLOPS class4 production installed on machine
  - Upload directory and automated transfer to download directory being setup.



# Policy regarding the use and sharing of class4 data

- Status:
  - Standing agreement that publication of results using class4 data was only with approval of production groups.
  - No sharing of data without approval of production groups.
- Issues:
  - Agreement has been breached more than once.
  - Data can be accessed via online dissemination platforms
- Other considerations
  - WMO share their class4 NWP files openly
  - Free sharing of data good to facilitate uptake and awareness of OceanPredict
- Path forward:
  - Are there any groups that have issues sharing data freely?
  - If so, we could put in place a charter to be signed by groups seeking access.



# OceanPredict'24 (IV-TT side meeting)

- Half or full-day meeting (before or after)
- Finalize publication draft
- Discussion ideas:
  - New class4 datasets
  - Additional data typos (ice thickness)
  - Class1 on GPSCC? Would engage eddy tracking, spectral analyses, etc...
  - Ensemble metrics
  - Sharing of tools (python)
  - ...



# Preparation of publication on Class 4 intercomparison

- Draft circulated.
- Comments on structure, content and suggested additions most welcome!



# Ocean verification seminar series

- No existing forum to focus on ocean verification methods
- Many developments in recent years
  - E.g. new data types, user-relevant metrics, spectral methods, ensembles, uncertainty, ...
- Bi-monthly seminar series proposed.
  - Upcoming seminars:
    - Saima Aijaz: Intercomparison of velocity error using drogued drifters
    - Greg Smith: Verification of Eddy Statistics
    - Other suggestions?

