



# **OPOS-WG update**

**OPST-11 23 September 2025**

# Outline

- **National/system reports**
- **Class 4**
- **Plans for next meeting**

- Annual reports at <https://oceanpredict.org/science/operational-ocean-forecasting-systems/system-reports/>
- Not been updated since 2021
- Had hoped the DCC Atlas would capture this information for us
- This is not (yet) fully the case
- Plan to revive the reports

## Annual reports from the OceanPredict analysis and forecasting systems

OceanPredict (OP) systems provide annual reports about their achievements and progress, including descriptions of the forecasting and analysis systems, ocean models, assimilation methods and routine set-up.

Annual national reports started in 2009 and can be downloaded accessing the year links below:

<a href="#">2010</a>	<a href="#">2011</a>	<a href="#">2012</a>	<a href="#">2013</a>	<a href="#">2014</a>	<a href="#">2015</a>	<a href="#">2016</a>	<a href="#">2017</a>	<a href="#">2018</a>	<a href="#">2019</a>	<a href="#">2020/21</a>
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Annual reports include descriptions of the national operational forecasting systems represented in OceanPredict:

- *Background*
- *Input data*
- *Data serving*
- *Models*
- *Assimilation methods*
- *Assimilation products and dissemination*
- *Systems*
- *Observations*
- *Internal metrics and intercomparison plans*
- *Targeted users and envisioned external metrics*
- *Reanalysis activities*
- *Computing resources*
- *Consolidation phase and transition to operational systems (activities)*
- *OceanPredict related achievements and measures of success*
- *System information overview table(s)*

## National/system reports

- Coordinate with DCC, OSEval-TT (who collect info on obs used), and other interested parties
- Long-term sustainable technical solution
- Simpler to complete/update and easier to compare different systems than previous reports
- Promote visibility and unlock collaboration

## National/system reports – plan

- OPOS-WG co-chairs draft template (initial draft on next slides)
- Circulate to OPOS-WG members for initial comments
- Meet with relevant parties (DCC, OSEVal-TT & OPST chairs, OPPO)
- OPOS-WG members complete simplified version this year (probably)
- Long-term technical solution implemented as resource allows

### Centre

Enter Centre name

### Country

Enter Centre country

### Date

Select date this report was filled in

### Overview

Free text giving a high-level overview of the Centre's systems and activities

### Notable changes since last report

Free text summarising notable changes since last version of report

### Systems

Details of each system run by Centre. Click below and then click "+" at the right to add another system.

#### **System name**

Name by which system is referred

#### **Version number**

Version number of system (if applicable)

#### **Brief description**

Free text giving high-level description of the system and its purpose

#### **Components**

- ☐ Hydrodynamics
- ☐ Sea ice
- ☐ Waves
- ☐ Biogeochemistry
- ☐ Ecosystem
- ☐ Atmosphere/land
- ☐ Storm surge
- ☐ Tsunami
- ☐ Observation-only analysis
- ☐ Other
  - Please specify

### **Domain**

- ☐ Global
  - Notes (optional)
- ☐ Regional
  - Please specify
- ☐ Coastal
  - Please specify

### **Model(s)**

Click below and then on "+" to add details for each system component

#### **Component**

Choose an item.  
Specify component if "Other"

#### **Model name**

Enter model name

#### **Model version**

Enter model version

#### **Horizontal resolution and grid type**

Please specify

#### **Vertical resolution, number of levels, discretisation**

Please specify

#### **Notes**

Anything else you wish to note

### **Atmospheric, boundary, river, land inputs**

Click below and then click "+" to add a new field

#### **Input type**

Choose an item.  
Please specify if "Other"

#### **Field**

Name/description of (group of) input field/variable(s)

#### **Source**

Model/system from which derived (e.g. ECMWF)

#### **Frequency**

Frequency (e.g. three-hourly, daily)

#### **Native resolution**

Resolution of original field

#### **Forcing scheme**

Scheme (e.g. CORE bulk formulae, Dirichlet)

#### Notes

Anything else you wish to capture

### Assimilation scheme

#### Overview

High-level overview

#### Assimilation type

e.g. SEEK filter, 3D-Var

#### Assimilation scheme name

e.g. NEMOVAR

#### Assimilation scheme version

Version number if applicable

#### Notes

Anything else you wish to capture

### Assimilated observations

Click below and then click "+" to add a new variable

#### Variable

e.g. SST

#### Sources/sensors

Please list

#### Notes

Anything else you want to capture

### Forecast details

#### Forecast range

e.g. 5 days

#### Hindcast/analysis length

e.g. 1 day

#### Update frequency

e.g. daily

#### Notes

Anything else you wish to capture

### Coupling details

Details of coupling between components

### Compute resource

Details of computational resource required

### Products

#### Users

List or summary of known/intended users

#### Data availability

- ☐ Fully publicly available
- ☐ Partially publicly available
- ☐ Not publicly available

#### Link to data access

Link to products (if available)

### Operational Readiness Level (ORL)

Optional to include: ORL for system (unofficially calculated at this stage)

ORL

### References

List of reference publications, webpages, etc

### Validation and intercomparison

#### Validation

Details of validation procedures

#### Intercomparison

Details of intercomparisons

### Planned updates

Details of planned updates

### Reanalysis activities

Details of reanalysis activities

### Research activities

Details of related research activities

### Recent publications

List of relevant publications from the past year (or so)

## Class 4 operationalisation

- Will pick up discussion with new IV-TT co-chairs
- Fraser now sits on Joint WMO-IOC Collaborative Board (JCB) and is discussing there
- (Keep) watch(ing) this space!

## Next OPOS-WG meeting

- Aim to meet in October or November
- Doodle poll will be circulated in due course
- Discuss national reports and share system updates



**Thank you!**