# **FVON Updates**G00S OCG, Victoria BC 2024

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### **FVON Updates general**

### **Positives**

- Decade endorsement under CoastPredict Programme
- Global Coast Experiment (keen to discuss at OCG)
- Guidance from Argo and Glider teams
- First FVON proper funding secured
- More mission-driven networks, e.g. Bahamas Hurricane
- Data valuation/impact: substantial modeling error reduction (OSE/OSSE) work\*

## Coast Predict with The Global Ocean Observing System



### Challenges

- Great directions and enthusiasm, no money
- NZ Moana project critical funding challenges

\*Kerry, C., Roughan, M., & Azevedo Correia de Souza, J. M. (2024). Assessing the **impact of subsurface temperature observations from fishing vessels on temperature and heat content estimates in shelf seas**: a New Zealand case study using Observing System Simulation Experiments. https://doi.org/10.3389/fmars.2024.1358193

May 2024

### Challenges

#### OCG Network attributes



Global in scale - Greater than regional, and as far as feasible, intention to be global.

Progress

Piloted or better: every continent, equator to the poles 600+ vessels

Fishing is rough: challenging for many parameters



Observes one or more EOVs or ECVs - Contributes to meeting requirements through observing one or more of the GOOS Essential Ocean Variables or GCOS¹ Essential Climate Variables



**Observations are sustained -** Sustained over multiple years, beyond time-span of single research or experimental projects, undertaking routine, systematic and essential ocean observations

Leaning into financial innovation and cost-efficiency

No formalized FVON governance



**Community of Practice -** Has an identified governance structure that provides a means of developing a multi-year strategy and implementation plan.

**FVON** 

Mission clarifying as coastal Argo complement + specific missions

towards targets can be tracked and progress assessed.

Delivers data that are free, open, and available in a timely manner - Has a defined

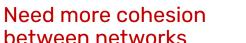
data management infrastructure that provides data on a free and unrestricted basis, in

real time where possible, as well as FAIR-compliant<sup>2</sup> data services for real time and

Maintains network mission and targets - A role in the GOOS is defined and progress

First GTS push

Significant amount remains closed





delayed mode data.

Ensures metadata quality and delivery - Complete platform metadata is submitted to OceanOPS in a timely manner.



Develops and follows Standards and Best Practices - Make accessible, develop, document, follow, and update best practices encompassing the observation lifecycle<sup>3</sup>.



**Undertakes capacity development and technology transfer -** Development of activities that enable new (developing and disadvantaged) communities of ocean observers and supports inclusivity and diversity in its members.



No platform, decreasing fishing ecosystem impacts



**Environmental stewardship awareness -** Actively develops ideas to minimize environmental footprint and contributes positively towards a healthy ocean.

May 2024

3