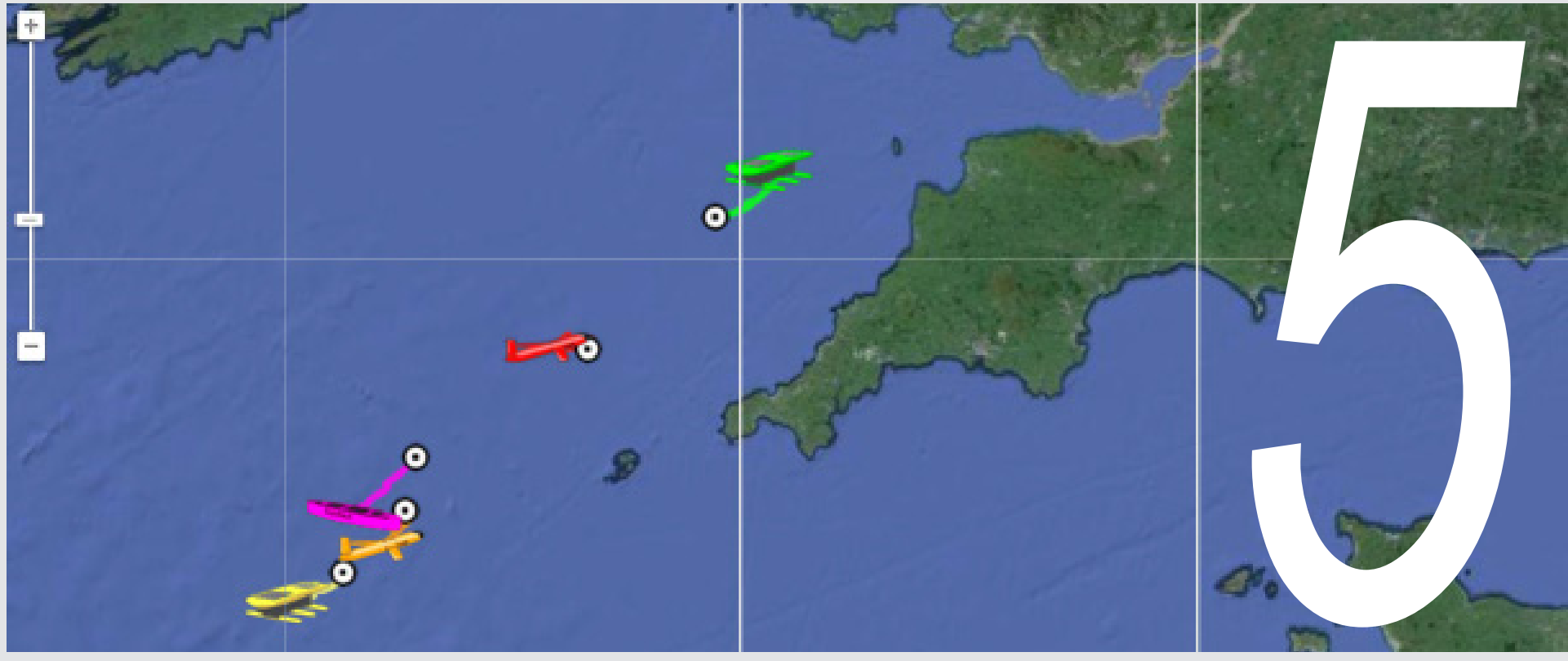




Exploring Ocean Fronts

*UK's largest
marine robotic
mission*

Two submarine gliders
Five unmanned surface vehicles
Autonomous vehicles




5 vehicles deployed off southwest UK in Phase 1 in October 2014 – four of these vehicles ventured up to **150** kilometers from land

3726^{Wh} Solar energy generated from PV panels

1.5_{kts} Top speed

1.14_{kts} Average speed

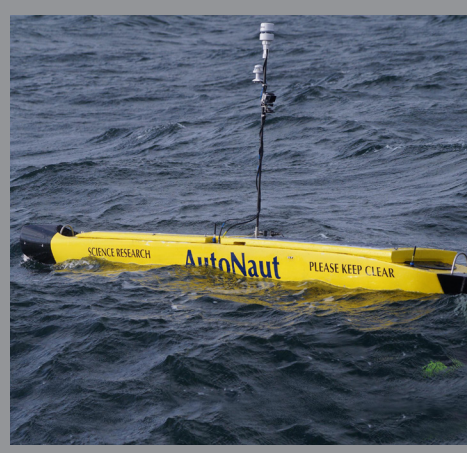


Waveglider

3240^{Wh} Solar energy generated from PV panels

2.3_{kts} Highest speed

1.0_{kts} Average speed

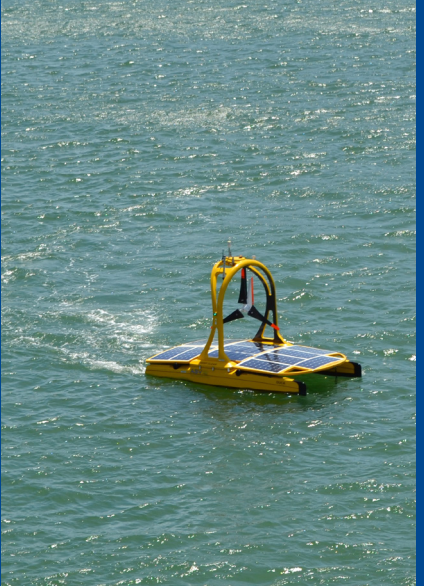


AutoNaut


3 vehicles were deployed off Plymouth in Phase 2 – November 2014

tracking up to **1000** tagged fish

Over 500 hours of continuous temperature and plankton measurements taken



C-Enduro



Slocum glider

Extreme weather

20 foot waves

vehicles showed that ocean surface temperature dropped by more than 1°C during the worst storm events

and winds of up to **70** mph

Media coverage of the launch reached an estimated

15 million people

within the first week, including BBC news



Over 1000 photos taken by cameras mounted on AutoNaut in 2 days

2 species of seabird recorded



17 different organisations involved

Plymouth Marine Laboratory
Cefas
Defence Science and Technology Laboratory
Marine Biological Association
University of St Andrews
Royal Navy
UK Met Office
Defra
University of Exeter

MOST (Autonomous Vessels) Ltd
ASV Ltd
Liquid Robotics
RS Aqua
Teledyne Webb Research
British Oceanographic Data Centre
J+S Ltd
Scilly IFCA