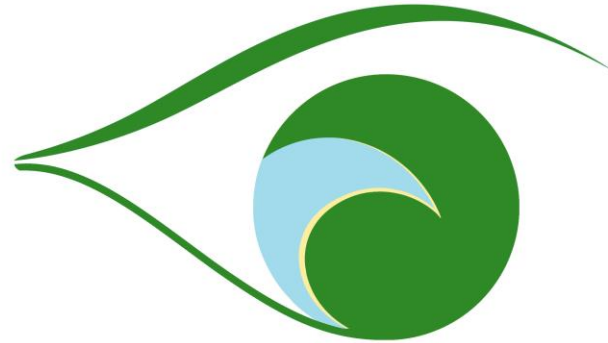


The Brahan Project



UK HF Radar Demonstration Project

marinescotland



Bill Turrell
Alejandro Gallego



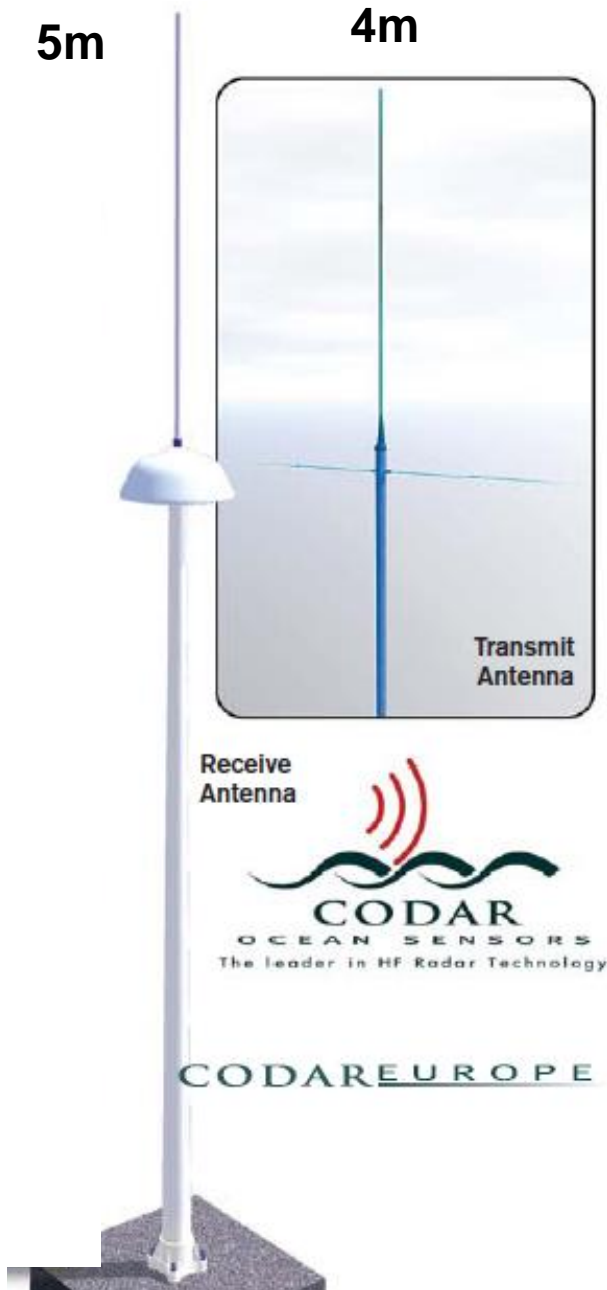
Jorge Sánchez
Bruno Pereira

THE
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OF THE
BRAHAN SEER
(COINNEACH ODHAR FIOSAICHE).
BY
ALEXANDER MACKENZIE, F.S.A. SCOT.,
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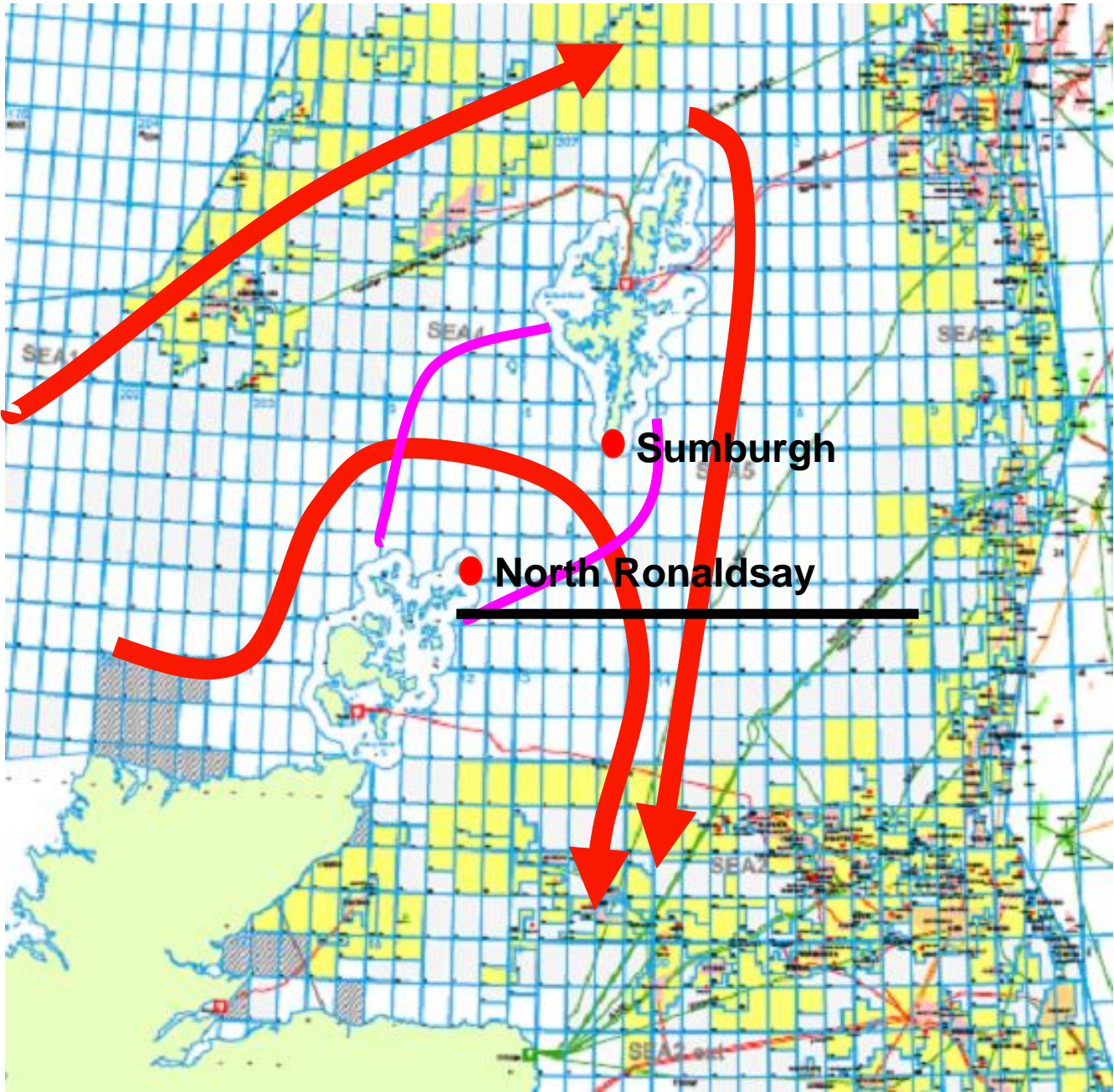


- Technology readiness
- Cost
- User Relevance
- Multi-purpose

21st Century Observing Technology



- Range 20 km to 200 km
- Spatial resolution 500m – 12 km
- Accuracy – 2-7 cm s⁻¹
- 4 – 40 MHz
- 220v, 500W

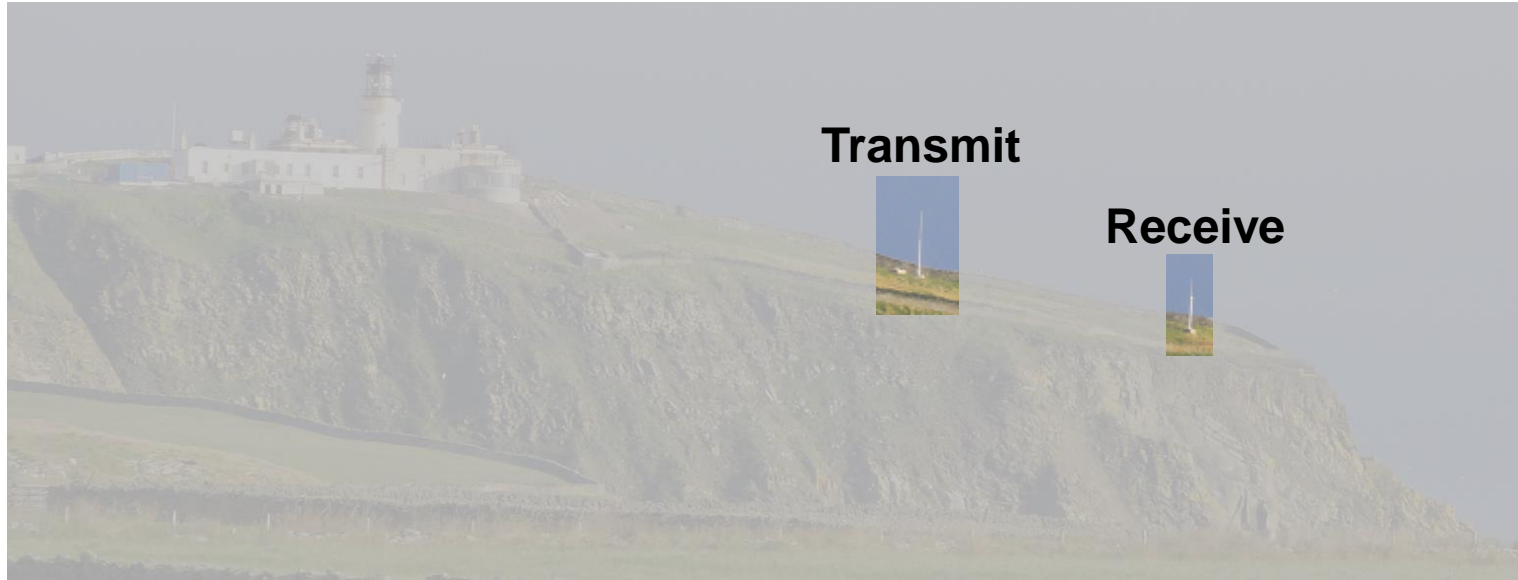




Sumburgh



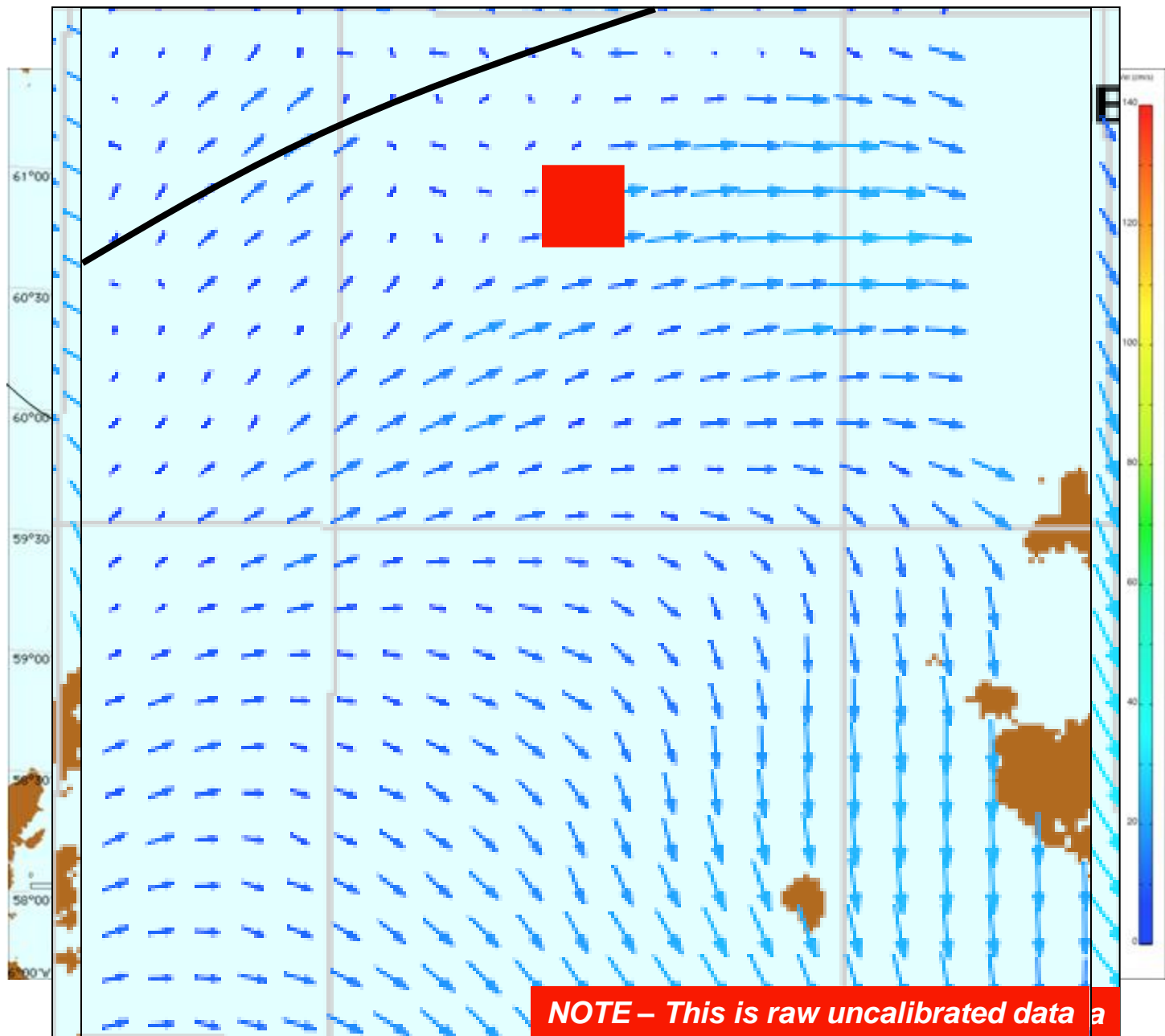
North Ronaldsay



Sumburgh



North Ronaldsay



1800 August 29 2013



The Brahan Project

Actual System Parameters Achieved

Range – 180 to 200 km

Temporal Resolution – 1 hour

Spatial Resolution - 3km

In Situ Instrumentation

Current meter moorings (Seagaurds)

Bottom mount ADCP (RDI)

Current / wave mooring (Nortec AWAC)

UEA Glider

RV Scotia surveys

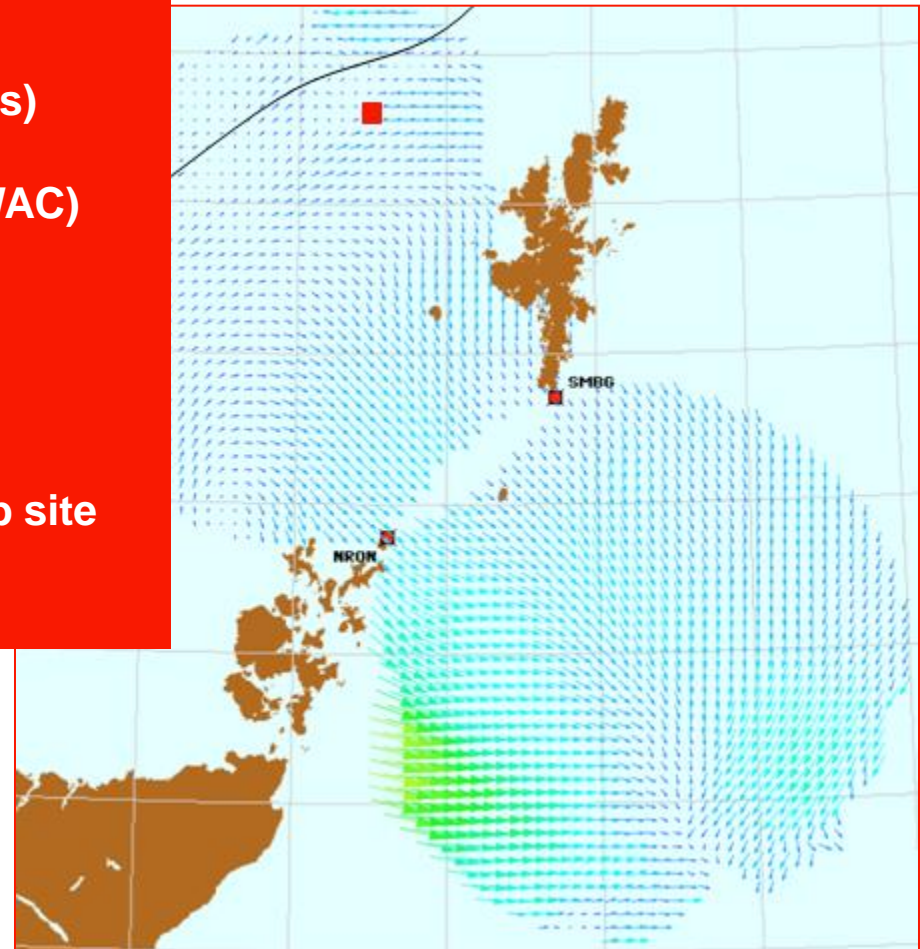
Next Steps

September – System calibration

October – Official launch + live web site

November – User workshop

February – Demonstration End





The Brahan Project

marinescotland



Project Leader

**Validation data (mooring / drifter deployments)
Research**

Initial concept

**Equipment supply
Technical expertise**



Supporting Research



End user demonstration (spill prediction)



End user demonstration (spill prediction)



End user demonstration (model assimilation)



End user demonstration (national monitoring)