

Iceland Greenland seas Project – Field campaign planning meeting

British Antarctic Survey, Cambridge, UK

Tuesday 24 October 2017

- 9.00 **An overview of the Iceland Greenland seas Project** – Bob or Ian or Kjetil (Co-PIs)
- Aims and objectives of the IGP
- 9.15 **The MASIN instrumented research aircraft** – Tom Lachlan-Cope (Aircraft co-lead)
- Capabilities, core instrumentation, personnel, safety requirements for flying, clothing & emergency clothing
- 9.30 **Aircraft logistics for the IGP campaign** – Daniel Beeden (Air unit operations coordinator)
- Personnel, duty cycles, logistical constraints, NOTAM notification period, flight permissions in Iceland and Greenland Seas areas.
 - Akureyri airport: limitations & requirements (hangar, wifi, room, airside passes)
 - Constable Point airport: options for refuelling, overnight stays (costs), food, internet,
- 10.00 **The aircraft-based field campaign** – Ian Renfrew (Co-PI and aircraft co-lead)
- Objectives, weather systems of interest, typical flight plans, daily schedule
 - Flight planning on Google Earth, sortie briefs,
 - Campaign period, aircraft hours, personnel & roles, planning teams
- 10.30 **Discussion**
- 10.45 *Coffee break*
- 11.15 **Isotope measurements on MASIN** – Harald Sodemann (Bergen)
- Aims, requirements
- 11:30 **Weather forecasting plans** – 10-15 min talks to cover:
- Model, domain, resolution, update cycle, location of output, data archival
 - Output: variables, domains, cross-sections, kmz files?,
 - Special diagnostics
 - a. The UK Met Office – Andy Elvidge (UEA postdoc)
 - b. The Icelandic Met Office – Nina Petersen (IMO)
 - c. ECMWF – Lukas Papritz (Bergen postdoc)
 - d. Met Norway/WRF? – Erik Kolstad (Uni Research Bergen)?
 - e. Sea-ice products – Andy?
- 12.30 **Discussion**
- 12.45 *Lunch*
- 13.45 **Other meteorological observations** – Ian Renfrew
- Radiosondes: EUMetNet & YOPP
 - Meteorological buoy (new funding possibility from Norway)
- 14.00 **Plans for the R/V Alliance winter cruise** – Bob Pickart (Co-PI and co-chief scientist)
- Objectives, summary of oceanography measurements, personnel
 - Logistics: mobilisation, domains of operation, etc,
- 14.45 **Gliders and other ocean observations** – Kjetil Våge (Co-PI)
- Large-scale and microstructure gliders, IMR activities,

- MRI (Iceland) activities, UiB related activities

15.00 *Coffee break*

15.30 **Ship-based meteorology** – Ian Renfrew

- Ship's basic met kit
- Radiosondes, HatPro radiometer (installation – Ian Brooks) + motion platform,
- GFI kit: windcube lidar, microwave rain radar, isotope kit
- Turbulent fluxes? Discuss with Ola.

16.00 **Aircraft-ship coordination** – general discussion

- Science aims
- Logistics & limitations
- Communication

17.30 Finish?

19.00 *Meal somewhere nice in Cambridge*

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9.00 **Aircraft-ship coordination** – general discussion II

10.00 **Akureyri Logistics** – Ian and Tom

- Personnel and roles
- Accommodation – Air BnB?
- Meeting rooms – University or hotel and/or Airport; good internet
- Transport – hire cars & drivers,
- Who should go on a reconnaissance: Daniel + Nina?, Ian?, Andy?
- When?

10.30 *Coffee break*

11.00 **IGP atmospheric modelling summary** – Tom Bracegirdle, Andy or James

11.15 **IGP ocean modelling summary ??**

11.30 **IGP broader project plans**

- Data archiving
- Data management & access policy
- Post-field campaign workshop, date and venue
- IGP overview journal article (BAMS)?
- IGP journal special issue
 - is it worth while
 - if so which journal – Kent to look into this.
- Outreach
- IGP Website
- General discussion

13.00 *Lunch break*

14.00 **Break out meetings** - as required to try and thrash out any remaining questions.

- Packing for the ship – is there an agent?
- Logistics for mobilisation?
- Purchase of radiosonde gases for ship – UK or Iceland

Participants

Name	Institute	Role	Attending
Tom Lachlan Cope	BAS	Aircraft co-lead, Co-I	Y
Alexandra Weiss	BAS	Experienced aircraft scientist	Y
Russ Ladkin	BAS	Instrument scientist	Y
Tom Bracegirdle	BAS	Climate modeller & Co-I	Partly
James Pope	BAS	Climate modeller	Partly
Daniel Beeden	BAS	Air Unit Operations coordinator	Y
Rod Arnold	BAS	Air Unit coordinator	?
Vicky Auld	BAS	Pilot	Y
Ian Renfrew	UEA	Aircraft co-lead, Co-PI	Y
Andy Elvidge	UEA	Experienced aircraft scientist & modeller	Y
Denis Sergeev	UEA	4 th year PhD, radiosondes on ship	Y
Chris Barrell	UEA	1 st year PhD, CAO modelling, radiosondes	Y
Annick Terpstra	UEA/Bergen	Research fellow, modeller & aircraft campaign	Y
Shenjie Zhou	UEA	2 nd year PhD, ocean modelling, radiosondes?	Y
Jake Opher	BAS/UEA	2 nd year PhD, ocean transport, radiosondes?	Y
Kjetil Våge	Bergen	Oceanographer, Co-PI	Y
Lukas Papritz	Bergen	Research fellow, modeller, aircraft	Y
Erik Kolstad	Bergen	Research fellow, modeller, aircraft?	N
Harald Sodemann	Bergen	Atmospheric scientist, isotope lead	Y
Nina Petersen	Icelandic MO	Experienced aircraft scientist & modeller	Y
Bob Pickart	WHOI	Oceanography, Co-PI, Cruise Chief scientist	Y
Amanda Kowalski		Film maker	Y
Cécile Dumas		Film producer	Y
Stéphane		Camera man	N

Logistics

Suggested Hotel:

https://www.hotelscombined.co.uk/Hotel/Arundel_House_Hotel.htm

From central Cambridge to Madingley Road Park and Ride, buses every 10 mins:

<http://cambridgeparkandride.info/madingleyroad.shtml>