

Industry Developments, opportunities & Challenges

Introduction by the Association of Arctic Expedition Cruise Operators

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- Member organization founded in 2003 with the **overall goal** to:
 - ensure environmentally friendly, responsible and safe cruise tourism in the Arctic, and
 - advocate for the expedition cruise industry, and AECO's members interests
- AECO currently have 46 members. 26 of which operate approximately 32 expedition cruise vessels all over the Arctic





THE ARCTIC

AECO uses the same definition of the Arctic as the IMO, i.e.:

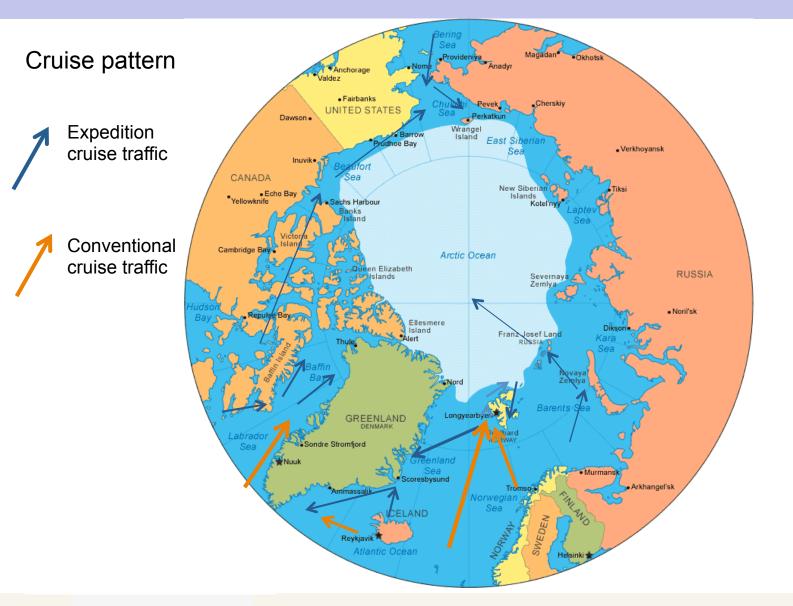
60 degree north, with exceptions

AECO's guidelines applies in all areas

AECO's core areas are Svalbard, Jan Mayen, Greenland, Canada and the national park "Russian Arctic" (Franz Josef Land and northern Novaya Zemlya)



ShipArc 2015

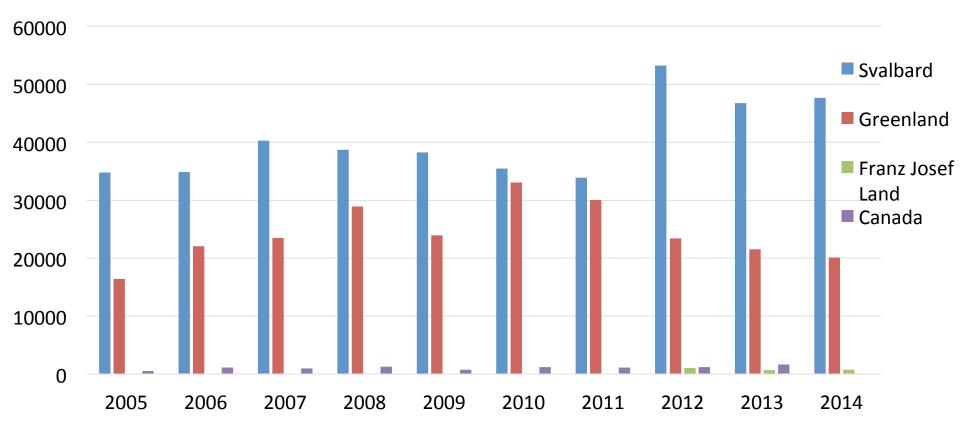




Cruise passengers

Svalbard, Greenland, Franz Josef Land, Canada

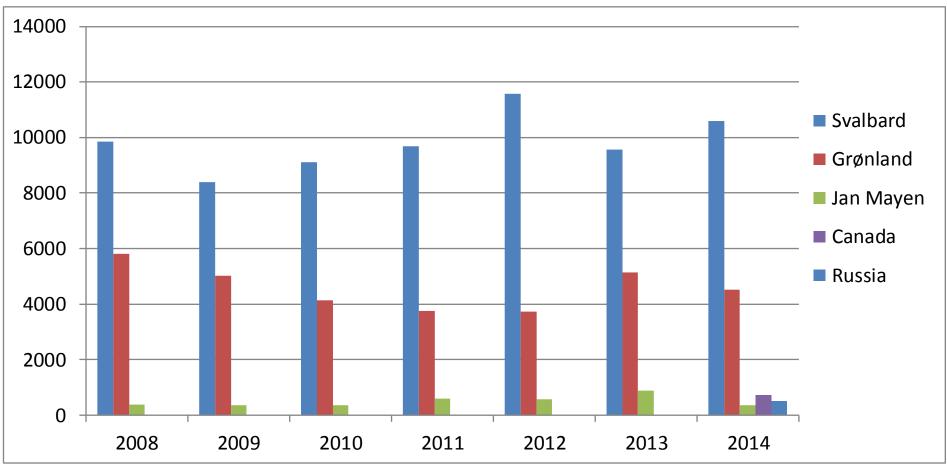
Conventional cruise vessels and expedition cruise vessels





AECO passengers

Svalbard, Greenland, Jan Mayen, Canada & Russia



Numbers include all commercial cruise traffic; passengers on small, medium and large conventional cruise vessels as well as passengers on small expedition cruise vessels.

Sources: Governor of Svalbard and Statistics Greenland. Numbers for Canada is an Estimate mad by researchers from University of Ottawa and Lakehaed University. Numbers from Franz Josef Land has been provide by Russian Arctic.

Association of Arctic Expedition Cruise Operators

Arctic cruise tourism risks

ENVIRONMENT

- Oil spill
- Endangering wildlife
- Ruined vegetation
 (paths, marks)
- Cultural remains(wear & tear, stealing)
- Signs & markings
- Transport of non
 -native species
- Garbage / pollution

SOCIAL/CULTURAL

- Strains on small communities
- Disrespect
- Prejudices (both ways)
- Export of banned substances
- Traditions / traditional activities at risk
- Ignorance in regard to the importance of providing local benefits

SAFETY

- Remoteness
- Cold temperatures and water
- Ice
- Limited charts
- Limited search and rescue facilities
- Communication limitations
- Weather- and ice predictability limitations

Measures, Projects & Strategies

- AECO Guidelines
- AECO's Cruise database
- Vessel tracking
- Crowd sourcing
- Clean Up Svalbard

- SAR projects
- Marine Mammal Sighting project
- Voyage Risk Assesment Tool
- Conferences





AECO guidelines











Operational guidelines

AECO's comprehensive guidelines for cruise operators

Visitors guidelines

AECO's guidelines for visitors to the Arctic **New** animation bit.ly/1G2btW6

Wildlife guidelines

Measures to prevent disturbance of wildlife

Biosecurity guidelines

Measures to prevent introduction of alien species

Site specific guidelines

20 different site specific guidelines for Svalbard



AECO's Cruise Database

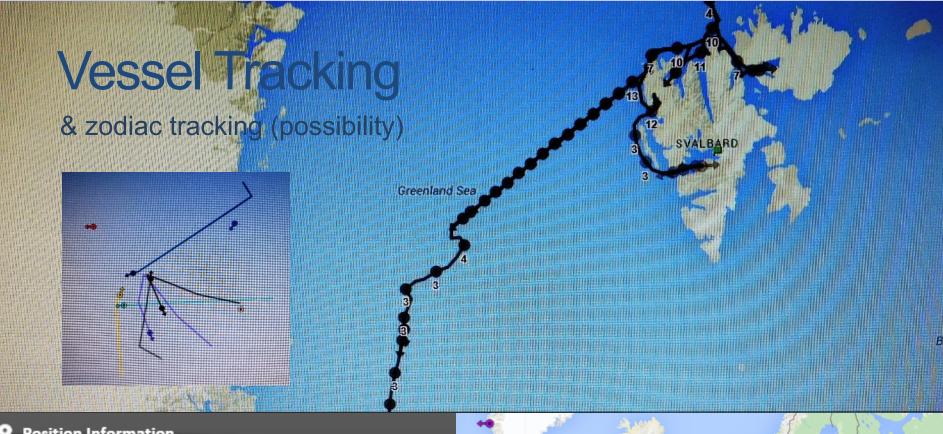
PURPOSE

- Coordination of operations
- Sustainability
- Safety
- Generation of statistics

Alternative to other management tools

1										'
Select all/none	GEN Lifeboats	 WAT_Fresh_WaterMakerCapacityCBM WAT_Fresh_WaterConsumptionCBM WAT_Grey_HoldingCapacityCBM WAT_Grey_HoldingCapacityHours 	14. Juli Breen/bukta (northeast side)	13-06-2015	17:00	13-06-2015	21:00	M/S Stockholm	Polar Quest AB	ŧ
Country	GEN_Liferafts		14. Juli Breen/bukta (northeast side)	16-06-2015	14:00	16-06-2015	18:00	M/V Quest	Polar Quest AB	+
SHIP_Owner SHIP_ContactPerson	GEN_TenderBoats_Number		14. Juli Breen/bukta (northeast side)	17-06-2015	07:00	17-06-2015	12:00	M/S Expedition	G-Adventures	2
SHIP_Address	GEN_GrossTonnage	✓ WAT_Grey_Untreated	14. Juli Breen/bukta (northeast side)	18-06-2015	07:00	18-06-2015	12:30	Ocean Nova	Quark Expeditions	2
SHIP_Telephone SHIP_Mobile	GEN_NetTonnage GEN_DeadWeight	 ✓ WAT_Black_ManagmentPlan ✓ WAT_Black_CertifiedTreatmentPlan ✓ WAT_Black_HoldingCapacityCBM ✓ WAT_Black_HoldingCapacityHours ✓ BAL WaterManagmentPlan 	14. Juli Breen/bukta (northeast side)	19-06-2015	07:00	19-06-2015	12:30	Sea Adventurer	Quark Expeditions	-
SHIP_Telefax	ENG_EngineMain		14. Juli Breen/bukta (northeast side)	19-06-2015	15:00	19-06-2015	18:00	Sea Spirit	Poseidon Expeditions	
SHIP_Email SHIP Url	✓ ENG_EngineAux ✓ ENG Boiler		14. Juli Breen/bukta (northeast side)	20-06-2015	06:00	20-06-2015	12:00	Silver Explorer	Silversea Cruises	751





Position Information

Sea Spirit

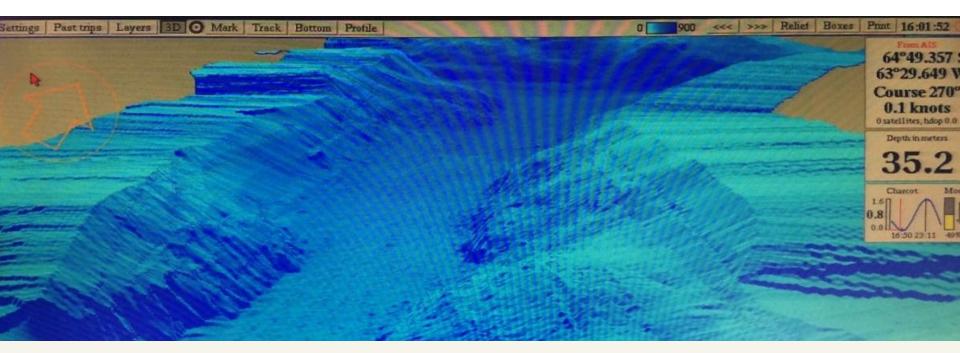
5/16/2015 10:14:00 AM Address: Street, 20457 Hamburg Lat/Lng: 53°31.6241' 10°0.2807' Speed: 0.0 knots





Crowd sourcing of depth soundings

Olex based solution to 'crowd sourcing' of historical depth soundings





Clean Up Svalbard

- Cruise industry initiative
- Collection of sea-transported garbage
- 10 years experience hundred tons of waste
- Cooperation with the Governor of Svalbard







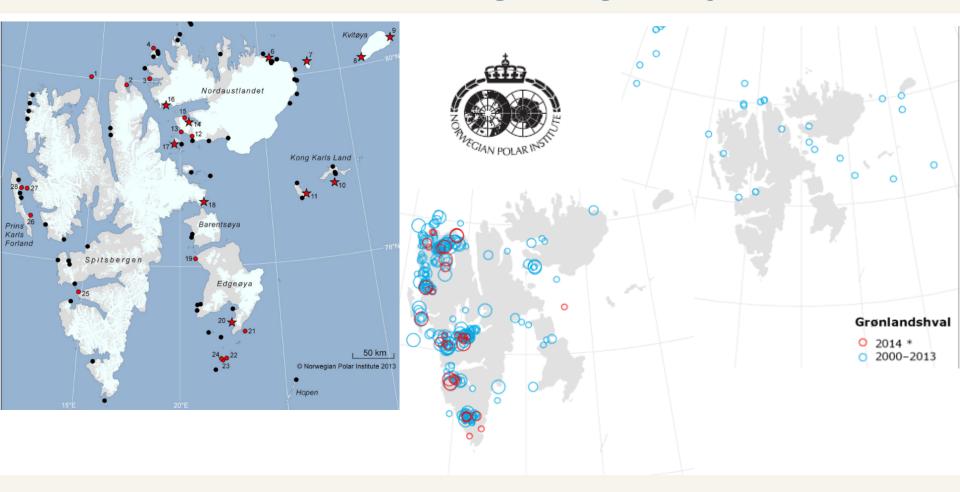
SAR Projects

- Arctic Zephyr table-top 2014
- Arctic Security Forces Roundtable 2015
- Sharing contingency plans with JRCC





Marine Mammal Sighting Project





Voyage Risk Assessment Tool

- 1. Regions
- 2. Time of the season
- 3. Landing Sites, ratings
- 4. Tide, Neap and Spring
- 5. Current expected
- 6. Distances to SAR facilities, to other ships
- 7. Ice cover and type of ice
- 8. Wind speed
- 9. Sea Conditions
- 10. Visibility
- 11. Air temperature
- 12. Miscellaneous factors internal/vessel issues





AECO events, conferences & training

- Annual Arctic cruise conference
- Annual meeting (members and special invitees only)
- Industry-research workshops

- Expedition leader Conference
- Member staff seminars
- Expedition leader conferences





Thank you!

