# Dr. Nicholas Makris KN215 Nordic Seas Experiment

Pre-Cruise Meeting 10/9/2013

Agenda Items

**Mission Objectives:**

Conduct Ocean Acoustic Waveguide Remote Sensing Experiments in the Nordic Seas. One component will be to reveal the currently unknown behavior of many

keystone fish species during mass migrations and spawning.

## Science Activities

Towed array sensing and coordination with a Norwegian research vessel using conventional fisheries acoustics and capture trawl gear.

**Agenda Items:**

1. Chief Scientist

Dr. Nicholas Makris: Chief Scientist, Principal Investigator

MIT 77 Massachusetts Avenue Cambridge, MA USA 02139

+1 617 999 0467

makris@mit.edu

1. Identify operating area:

Coastal / Offshore Norway

Lat/Lon: 62° 28.5N / 6° 12.0? E

1. Voyage Info:
	1. **NUMBER**: KN215
	2. **Loading**: Jan 29th @ WHOI
	3. **MOB**: February 16th @ Alesund
	4. **DEPARTURE**: February 18th
	5. **ARRIVA**L: March 11th, WHOI
	6. **DEMOB END**: March 13th, WHOI
2. Schedule Notes:
* Science can move aboard February 16th

1. Science party (size) : \_\_\_\_

**Pre-cruise and Administrative:**

1. Financial responsibility: Purchase Order

1. Personnel forms: Due: January 03th to kgrodzki@whoi.edu
2. Berthing Plan: Complete and remit to csmith@whoi.edu

<http://www.whoi.edu/cms/files/dpandya/2007/1/kn_sciberth_17271.pdf>

1. Any Special Food Requirements? (Kosher, Allergy, Vegetarian, etc)

**Instrumentation & Technician Support**  ***:***

1. **General Duties of Marine Technician :**

SSSG Technicians (WHOI SSSG) (To be announced)

WHOI sssg techs do not stand watches. But are available 24/7 to train and to assist in operations.

1. **Science Party Supplied Equipment:**

**Equipment**

* OWARS Source Array (MIT)
* FORA Receiver Array (ONR)
* MRI/BAE Receiver Array (IF AVAILABLE)

Primary plan is to utilize the FOR A Receiver Array as the MRI/BAE unit may not be available. If Both Arrays are available then the science party would like to tow and employ both simultaneously.

**Vans**

* **OAWRS Source Van**

1. **WHOI general use equipment required for cruise** **:**

**Shipboard Equipment**

* Bathymetry System 12 kHz
* Sippican XBT System (Mark 21)
* ADCP 300 kHz
* Bathymetry System 3.5 kHz
* Multibeam
* Transducer well for visiting instrumentation
* Uncontaminated Seawater System
* Deionized Water System
* 12 kHz Pinger for Wire Use
* ADCP 75 kHz

 **Shipboard Communication**

* Basic Internet access via HiSeasNet

**CTD/Water Sampling**

* 911+ Rosette 24-position, 10-liter bottle Rosette with dual T/C sensors

**Critical CTD Sensors:**

* Lowered Acoustic Doppler Current Profiler (LADCP)
* Hydrographic Analysis Equipment
* Salinometer

**MET Sensors**

* Air temperature
* Barometric Pressure
* Precipitation
* Relative Humidity
* Short Wave Solar Radiation

**Ship** ***[Other Requirements][Shipboard Equipment/Nav] :***

1. Science/Ship Operations ***:***
	1. Instrument Deployment / Recovery Procedures:
	2. Over boarding Equipment (ISM)
	3. Vans: 1
	4. Night Operations: Yes
2. Deck Safety – Safety Shoes
3. Lab Safety – PPE
4. Hazardous Material**:** no

Please Submit MSDS electronically to csmith@whoi.edu and provide 3 hard copies of each MSDS to the Knorr’s Chief Mate.

1. Policies: (speed, departure/arrival times, moving aboard, etc.)

11kts

1. Communication (voice, fax, e-mail, Blog)

## Logistics *[Notes]*

1. Shipping gear to and from vessel

Load list

* 1. US Customs (forms and AMS): YES

Submit Customs 4455 Forms to csmith@whoi.edu no later than **January 30th 2014**

* 1. Berthing plan:

 32 bunks available.

* 1. Use of ship’s agent or local facilities (financial responsibility)

-cc kheywood@whoi.edu on all agent communications

**Post-Cruise**:

1. Actions departing ship
2. UNOLS cruise evaluation [Chief Scientist & Master]
3. Reports to foreign government/State Department [required for work in EEZs]
4. Data delivery [shipboard] USB Hard drive.
5. Data archiving policy

All data on a WHOI Cruise Data Distribution (which includes all underway data) will, by default be considered publicly available once a copy of it has been delivered to the chief scientist at the end of the cruise. Please review the [Cruise Assignment of Data Access Protection](http://www.sssg.whoi.edu/sssg/pdf/cruiseData_v3.pdf)

As of January 1, 2011, the default treatment for underway data from Woods Hole Oceanographic

Institution (WHOI) research vessels is:

1. Cruise data files are copied by a WHOI SSSG Technician to the distribution media. One copy is delivered

to the cruise Chief Scientist, the other is delivered to WHOI's Data Library and Archives. Please note that

the distribution of cruise data to other scientist is the responsibility of the Chief Scientist.

2. The **default** access status for the cruise instrument datasets is that they will be immediately accessible by

the public. If something other than this default protection is desired, the Chief Scientist must assign

alternate protection as indicated below. For cruises funded by the National Science Foundation ,the

maximum protection is two years, for non-NFS cruises, other guidelines may apply.

3. WHOI maintains a local copy of the cruise shipboard data distribution at its Data Library and Archives,

which also honors access moratorium periods. If the cruise Chief Scientist wishes to modify the data

protection assignments made in this pre-cruise document upon cruise completion, they should contact the

WHOI Data Library and Archives at dla@whoi.edu, or the SSSG Data Manager at

sssgdatamgr@whoi.edu