



REPORT ON POGO VISITING FELLOWSHIP PROGRAMME 2012

Report from the Visiting Professor

Name of Visiting Professor: Iossif Lozovatsky

Name of Host: Kanapathipillai Arulanathan and Priyantha Jinadasa

Host institution: Institute of Oceanography and Marine Sciences, National Aquatic Resources Research and Development Agency (NARA)

Dates of Training: March 27 – April 24, 2012

Subject of Training: Coastal Dynamics: Observation and analysis of currents, internal waves and turbulence on shelves

Please provide a brief description of activities undertaken during the visiting professorship period. Please include elements of formal training (e.g. lectures, practical and field trips) as well as research collaboration, if applicable

A series of lectures was presented at NARA (20 hours of classes during 8 training days) on turbulence, mesoscale dynamics and internal waves focussing on basic theories, instrumentation (ADCP, ADV, CTR7, CTD and microstructure profilers), measurements on the shelf and in deep ocean and data processing methodology. A two hours practicum was given on the specifics of Grapher and Surfer software. One day of field work started on April 23 and another two days of profiling and mooring measurements on the shelf will follow in May.

How do you think the training was received by the students? Did it meet its objectives? What do you think the students gained from the training? Was the students' level as you had expected?

The training was favourably received by students. The overall level of students was relatively low, which was expected, as the students do not have solid background in physical oceanography and fluid mechanics. However, linking ocean mixing to marine biology and sediment transport kept most of the students to attend most of the lectures.

Did you encounter any obstacles to the implementation of your planned training/ research activities? Do you have any recommendations for future capacity building initiatives in the same institute/country, building on your experience and on any problems you may have encountered?

NARA perfectly organized the training, offering an air conditioning auditorium, tea breaks, and transportation to the hotel at the end of the working day. People there were very kind and supportive.

Do you envisage that any future collaborations (e.g. publications, proposals, future visits, student exchanges) will result from this visit? Please provide details

I have started close research collaboration with Priyantha Jinadasa; NARA and University of Notre Dame are planning to submit a joint proposal to ONR to conduct microstructure measurements on the Sri Lanka shelf in 2013-2014; UND will invite two NARA students for 2-3 months of training in the US.

Please provide a brief overview of the host institution's research and teaching facilities and any specific areas you can identify that would benefit from particular support

The teaching facilities at NARA (auditorium and computers) are sufficiently good, but the instrumentation capabilities are weak. Several drifter floats have already been sent to NARA. It is expected also to provide a VMP microstructure profiler next month. A comprehensive proposal has been submitted to USAID asking for modern mooring and profiling instrumentation for NARA