



Royal Netherlands Institute for Sea Research

# The National Oceanography Centre of the Netherlands

since 1876

Herman Ridderinkhof  
Deputy director

NIOZ is part of the Netherlands Organisation for Scientific Research





# Our Location



1. Introduction

2. Mission

3. Organisation



# Our Mission



The **mission** of NIOZ is to gain and communicate scientific knowledge on coastal seas and oceans for the understanding and sustainability of our planet. The institute also facilitates and supports marine research and education in the Netherlands and in Europe.





# Our Main Tasks

- **Research**  
**'how does it (the sea) work?'**
- **Education**
- **Facilities**

## 'Pelagia'



'Navicula'



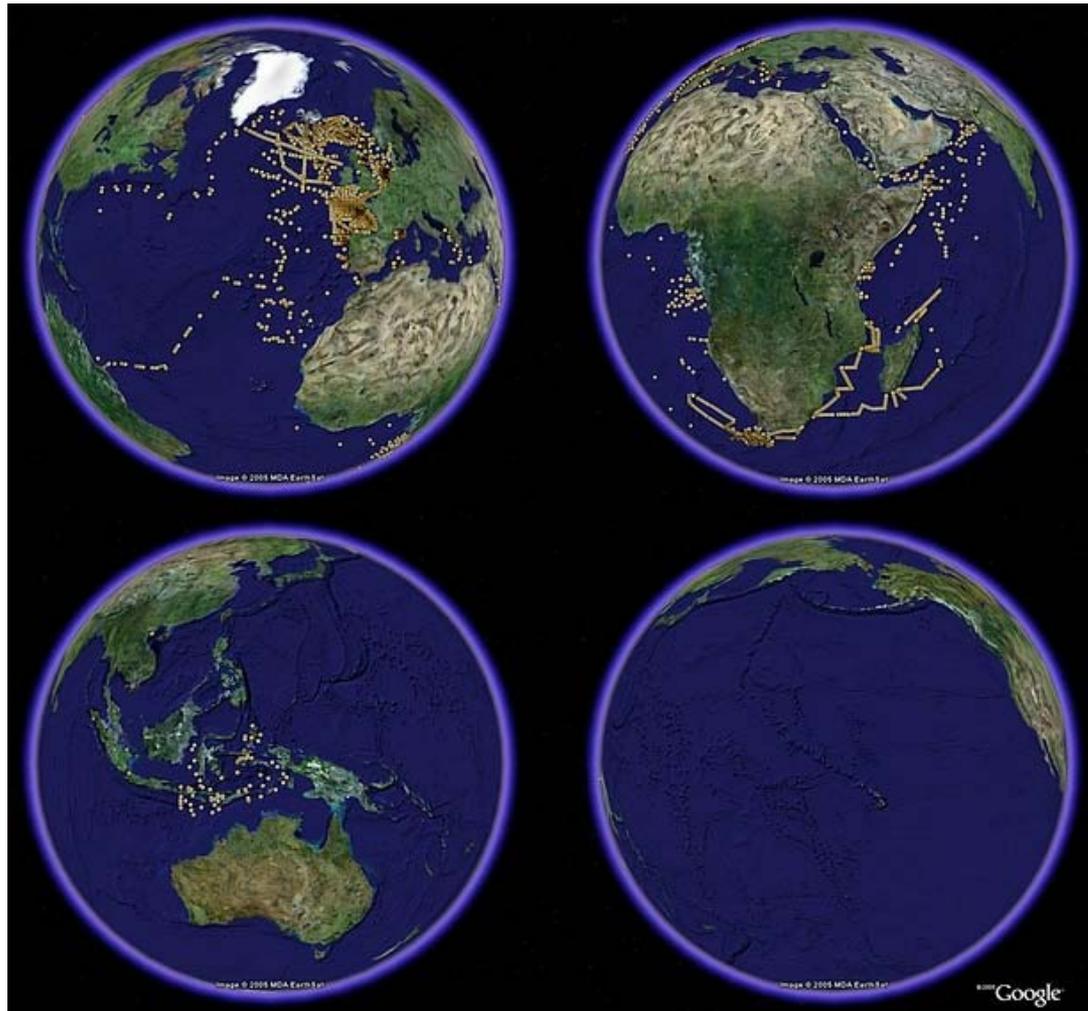
'Stern' (Tern)



Flatboat 't Horntje'



# Where are we active ?





## Our formation & budget (1-1-'08)



### Permanent Staff:

Academics, Laboratory Technicians, Workshop Technicians,  
Ship Crew and others:

**140**

### Temporary Staff:

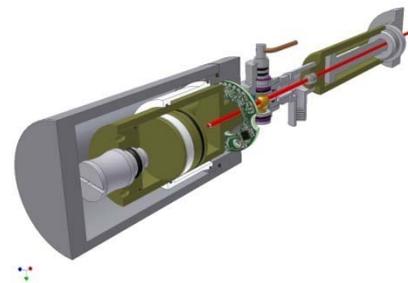
**55**

### Students:

**35**

**Total: 230**

**Annual Budget: €20 Million/ year**





# Marine equipment: combination of 'off the shelf + specials (home built)



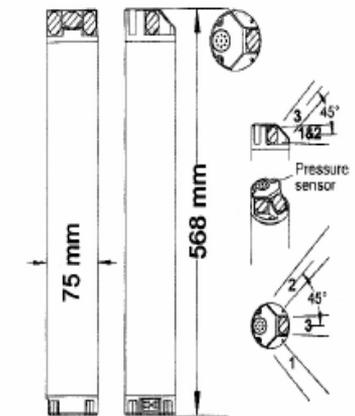
Living animals to test responses



fluorescence-turbidity



salinity temperature

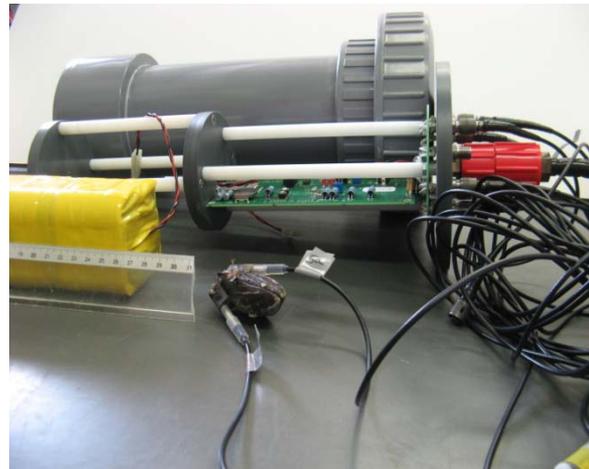


Currents



# Instruments for very specific purposes

## Mussel monitor





## Why is OFEG so important for NIOZ?

Exchange of

- shiptime
- (expensive) facilities
- knowledge

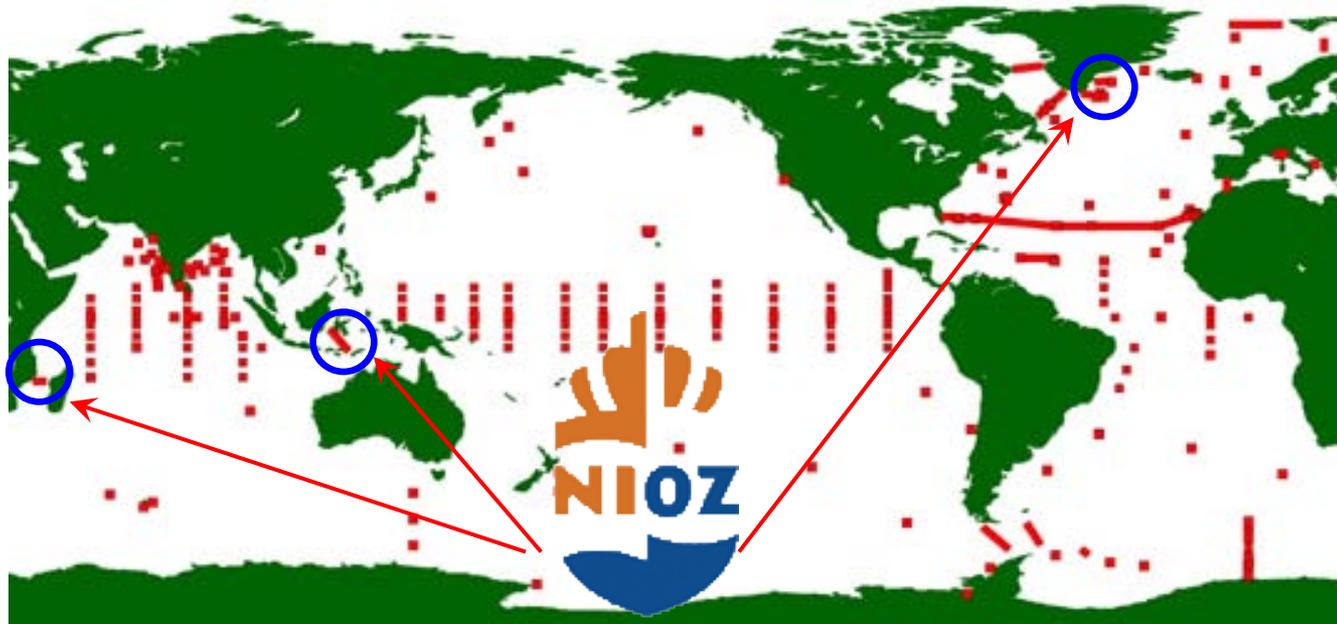
Proof that we do not operate 'in isolation on an island'



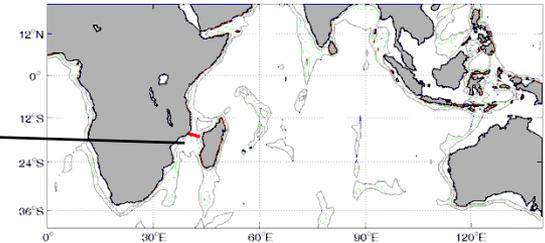
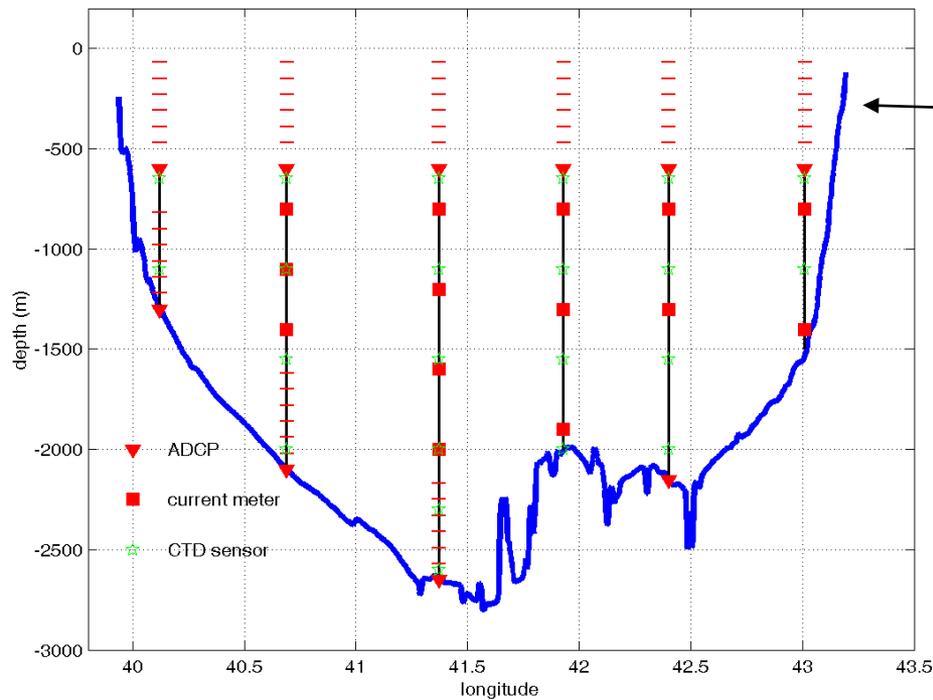
# Role of the oceans in climate variability: variability in ocean currents



Long term observations with deep sea moorings;  
part of international global program OceanSITES



# Role of the oceans in climate variability: variability in ocean currents



Long term (2003-2010) current  
meter moorings in the Mozambique  
Channel