



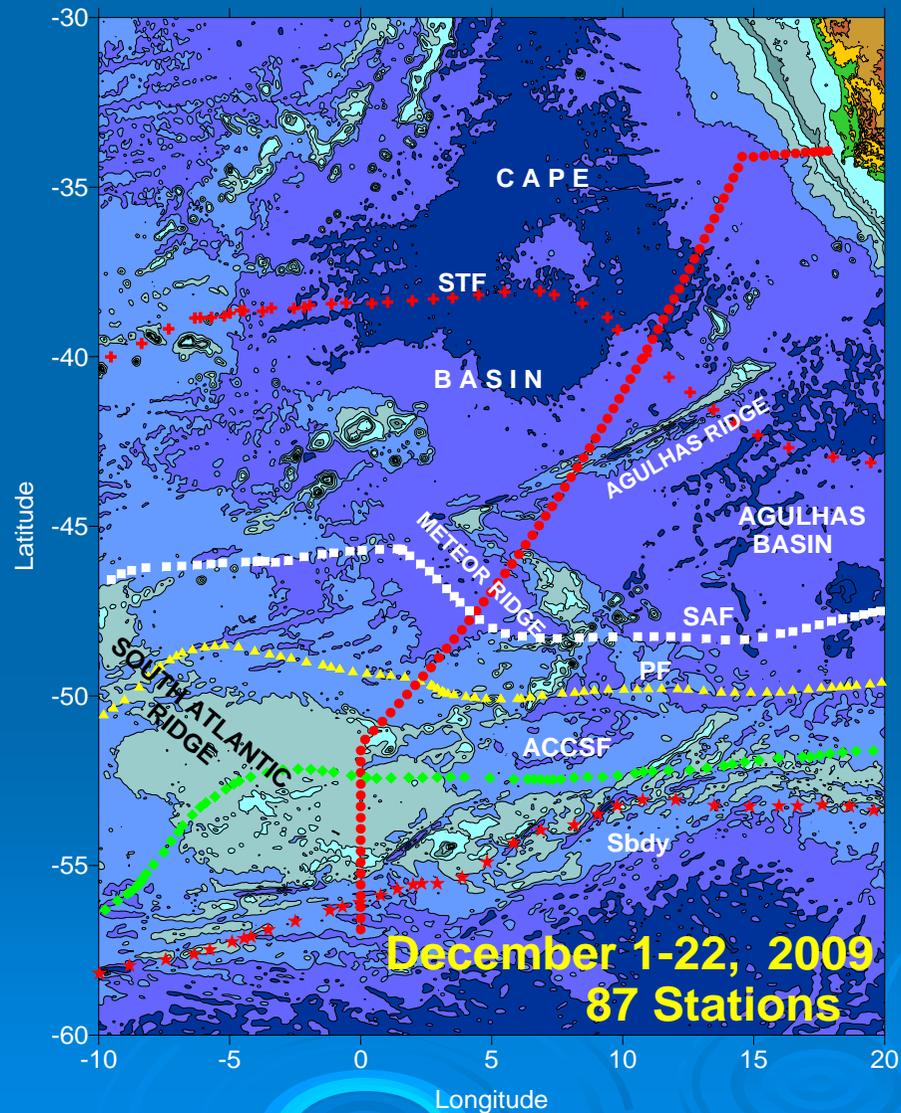
**RUSSIAN MEASUREMENT
PROGRAM
IN THE SOUTH ATLANTIC
2009-2010**



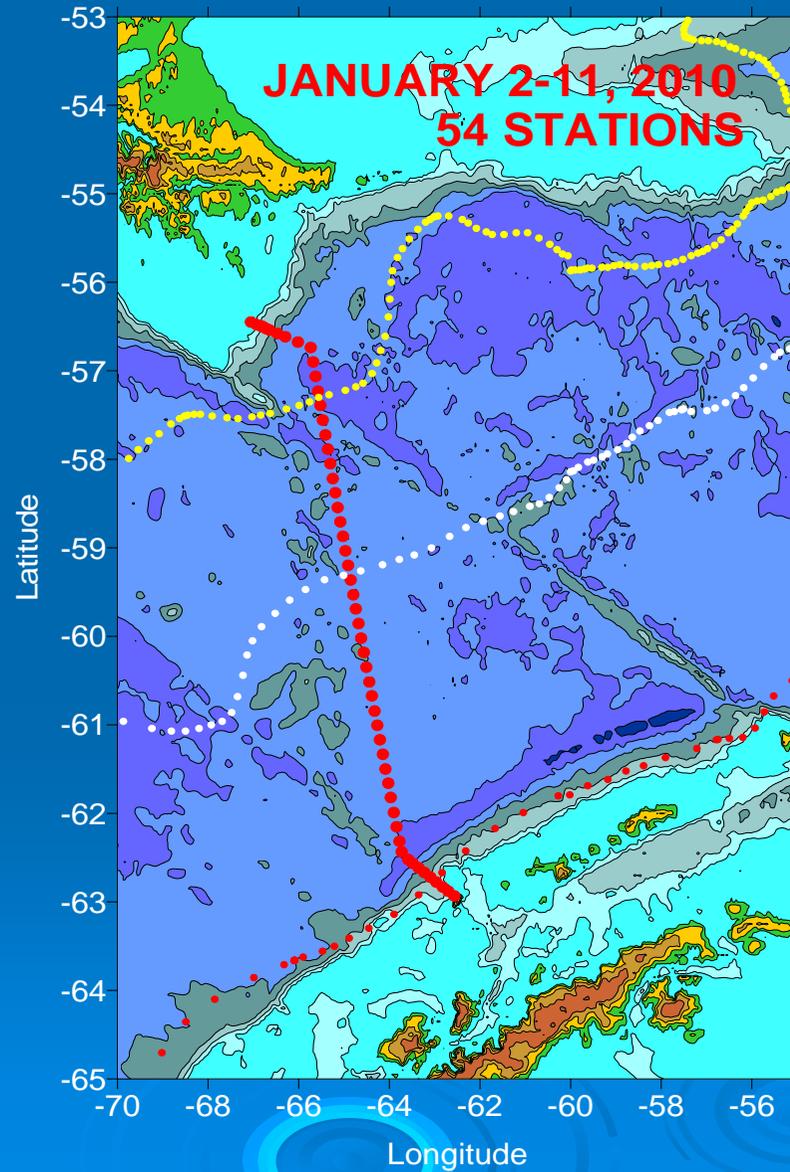
OUR METHOD IS REPEAT
HYDROGRAPHY

THE MAIN GOAL IS TO MONITOR
THE ACC CURRENT TO ESTIMATE
LONG-TERM TRENDS IN IT'S
STATUS AND HEAT AND FRESH
WATER FLUXES

SECTION SOUTH OF AFRICA



SECTION IN DRAKE PASSAGE



CTD/LADCP CASTS



PRIMARY PRODUCTION EXPOSITION



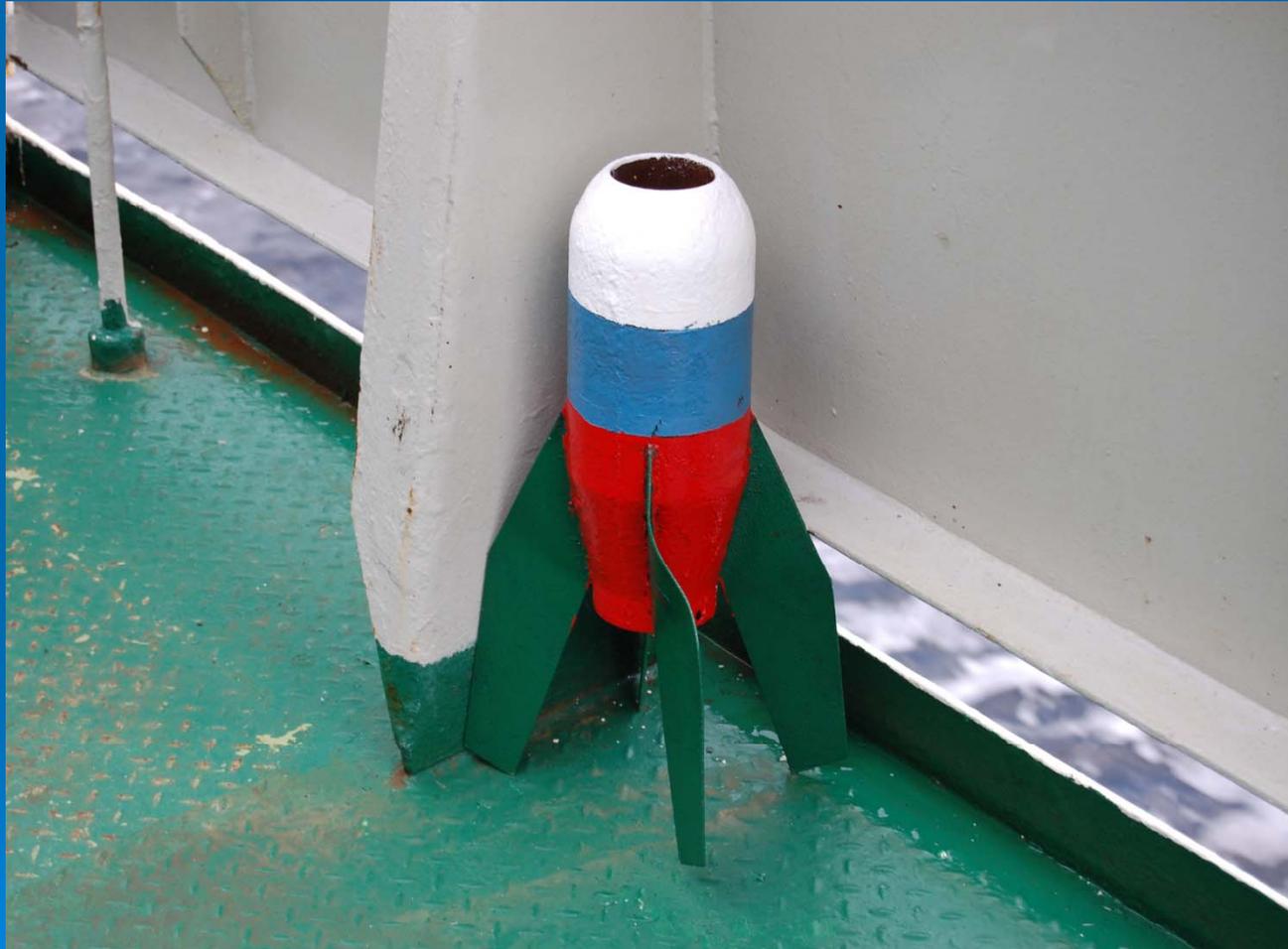
ZOOPLANKTON SAMPLING



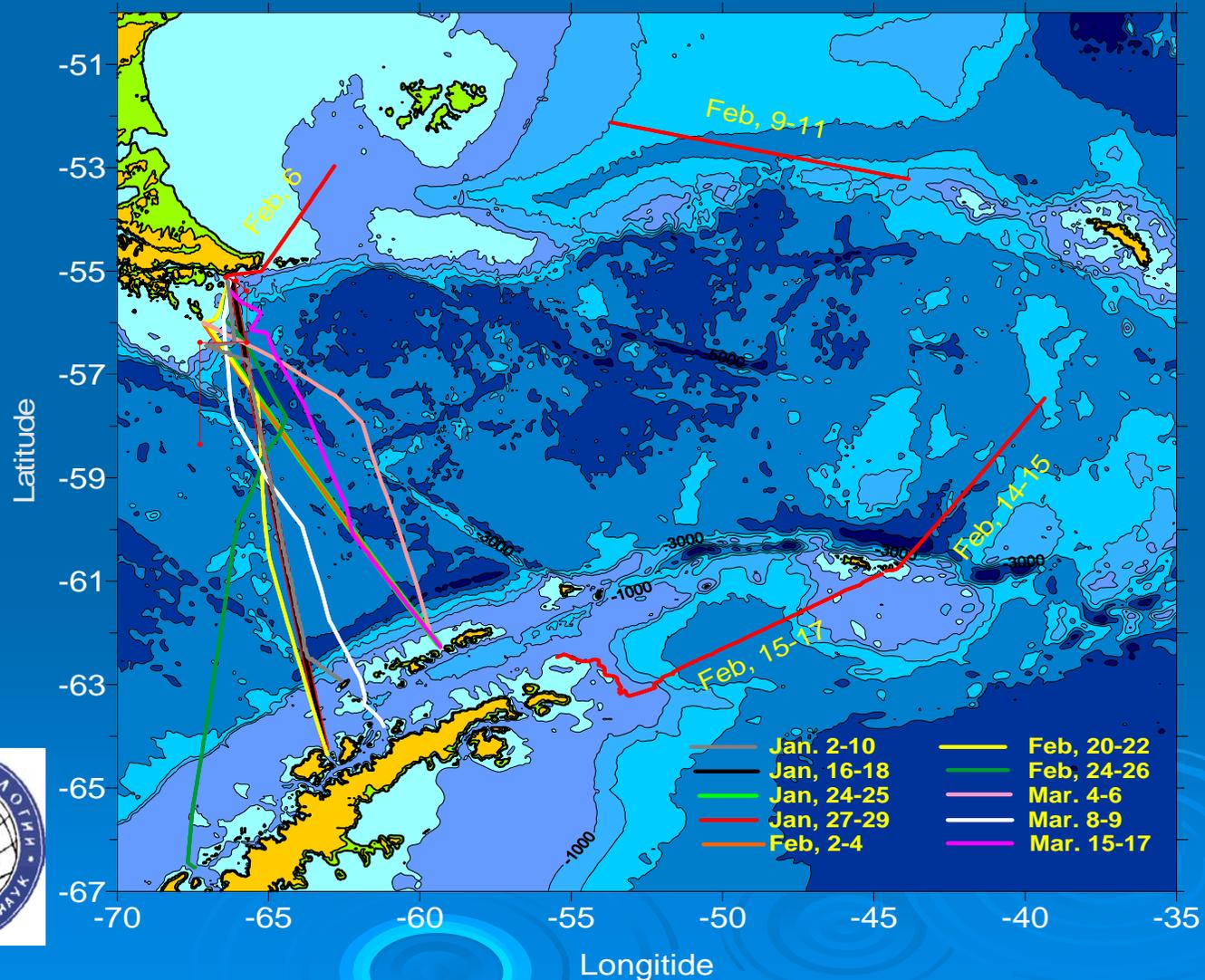
OXYGEN/SILICATE/PHOSPHATE SAMPLING



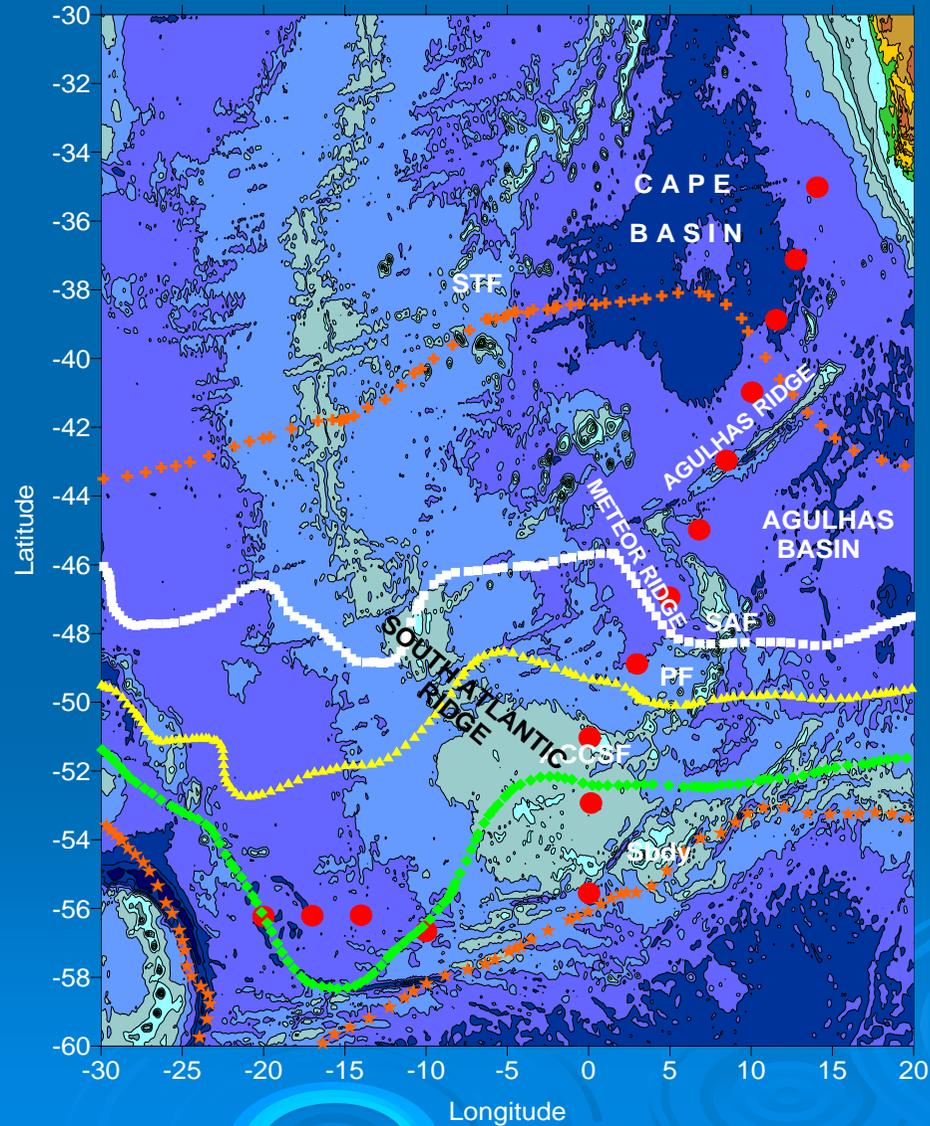
MOBILE RUSSIAN MISSILE LAUNCHING



UNDERWAY MEASUREMENTS VM ADCP OS38, SBE21



PROVOR DEPLOYMENT



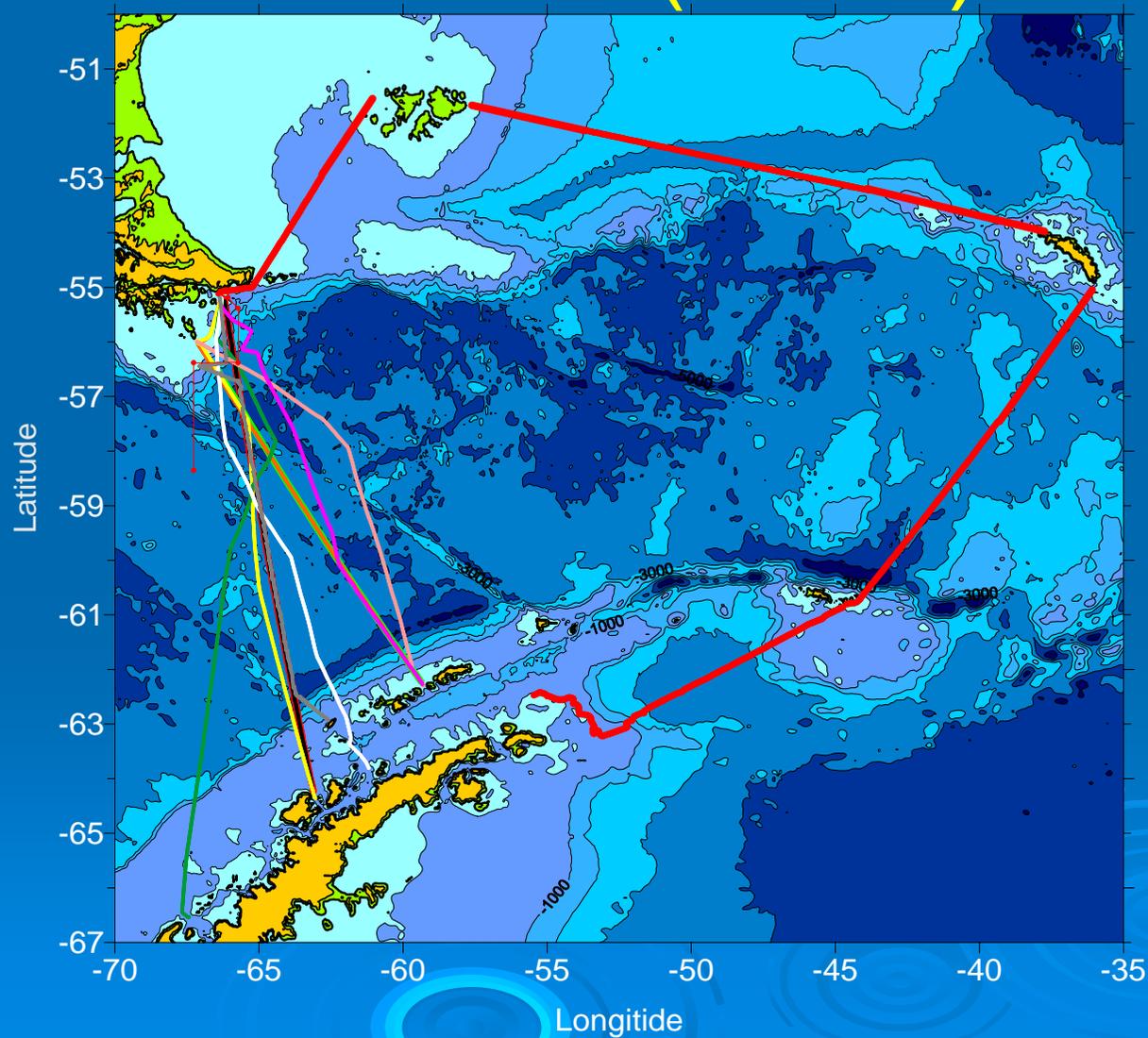
IN COOPERATION WITH IFREMER (FRANCE)



PLAN FOR 2010-2011

1. SECTION SOUTH OF AFRICA
(OCTOBER 2010)
2. SECTION IN DRAKE PASSAGE
(NOVEMBER 2010)
3. 20-40 CROSSINGS OF THE DRAKE
(NOVEMBER – MARCH 2010-2011)
4. 3 ACC CROSSINGS IN THE SCOTIA
SEA (NOVEMBER – JANUARY 2010-
2011)

UNDERWAY MEASUREMENTS IN 2010-2011 (PLAN)



WHAT DO WE NEED TO MEASURE UNDERWAY ?

1. XBT measurements to calculate proxy ACC transport
2. Continuous $p\text{CO}_2$ measurements to estimate changes in ocean – atmosphere exchange in the Southern Ocean

SHIRSHOV INSTITUTE INFRASTRUCTURE



AKADEMIK SERGEY VAVILOV



AKADEMIK MSTISLAV KELDYSH

