13/06/2000

NESTOR STATUS REPORT

- ***Cable to shore*** (18 monomode fibers plus copper conductor, composed of 13 km Heavy Armour + 12 km of Light Armour + 6 km of "*Torque free*" cable for "Resurfacing" of cable end with the scientific payload) is ready to be deployed.

- ***Cable Deployment*** will be done by the cable ship "MAERSK FIGHTER".

- ***The MAERSK FIGHTER*** is an ultra modern cable laying vessel with Dynamic Positioning capability (station keeping) and Linear Cable Winches.

- ***Expected Date of deployment*** : Week of June 18.

- ***Scientific Payload (to be deployed at the end of the cable)***:

One Titanium NESTOR floor (short arms of diameter 12 m) with 12 optical modules (15´´ HAMAMATSU's) and environmental sensors (current meter, compass, tilt meters, accelerometers, pressure gauges) at a distance of 80 m above the sea bottom,

plus

a BENTHIC (sea bottom) STATION consisting of: current meter, Ocean Bottom Seismometer, light transmissiometer, compass and pressure gauges

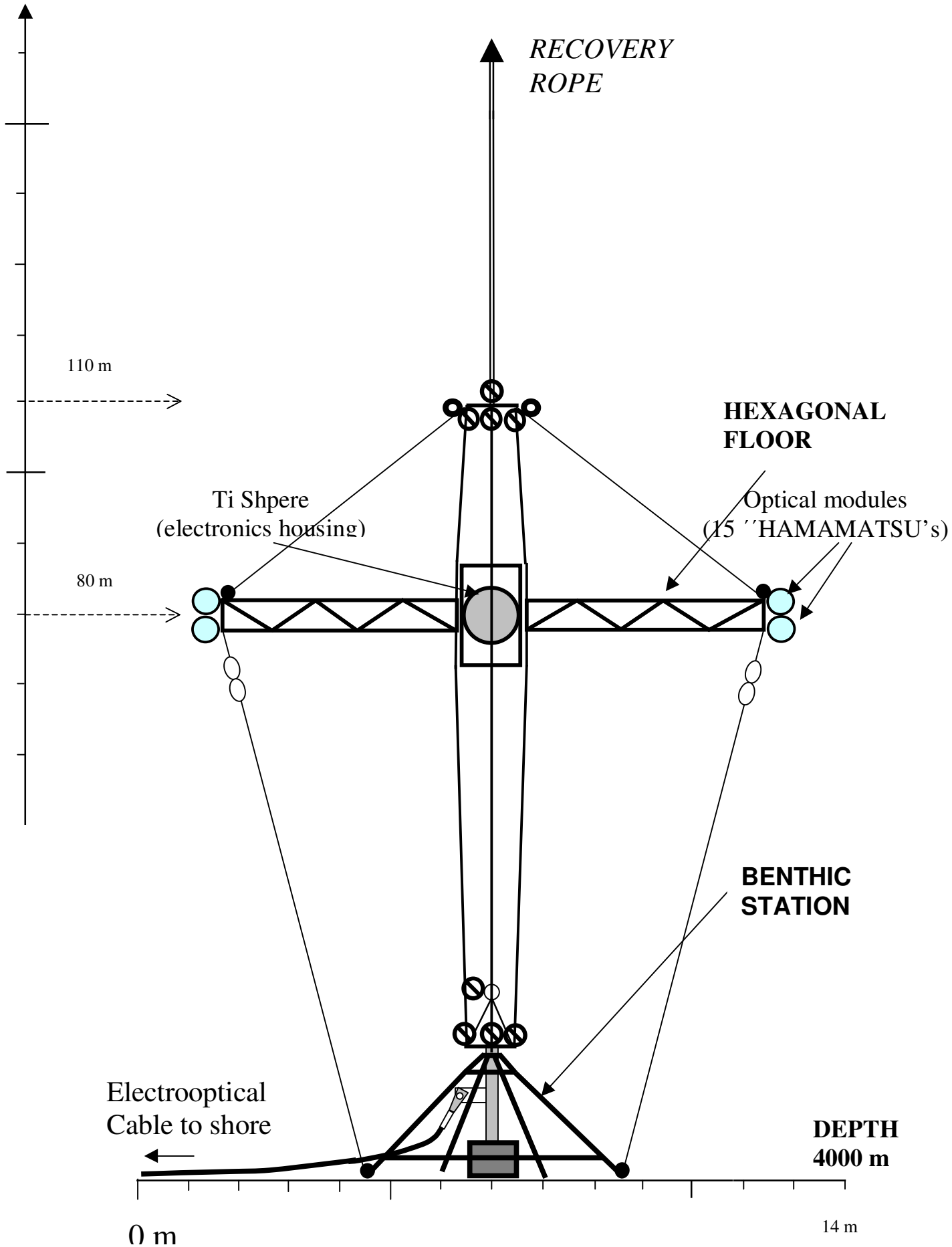
plus

an acoustic telemetry station.

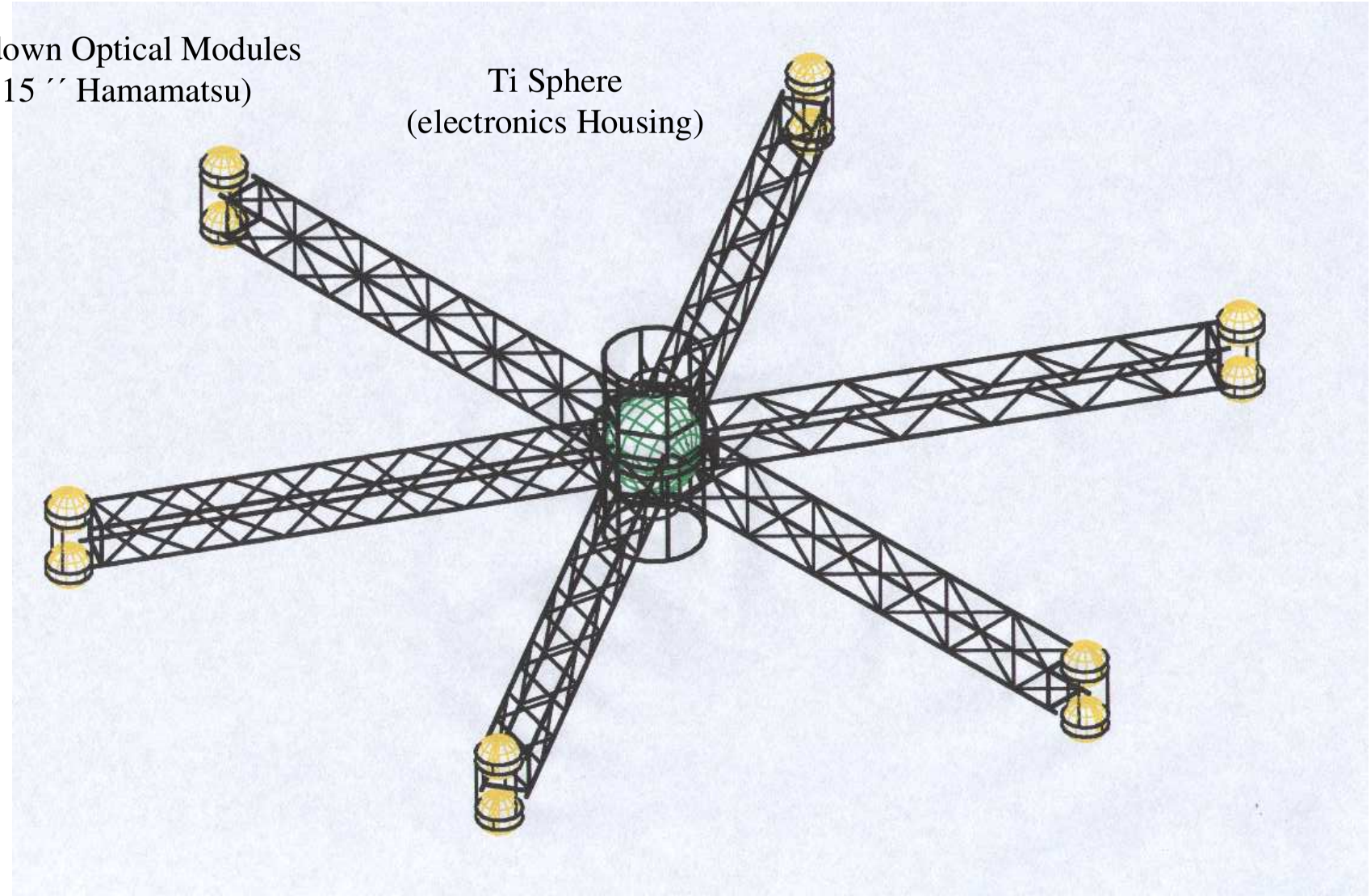
Plan *(for the near future)*

Operate this system for a few months, then winch it up to the surface (using the recovery ropes), replace it with 2 NESTOR floors and run the system for many months.

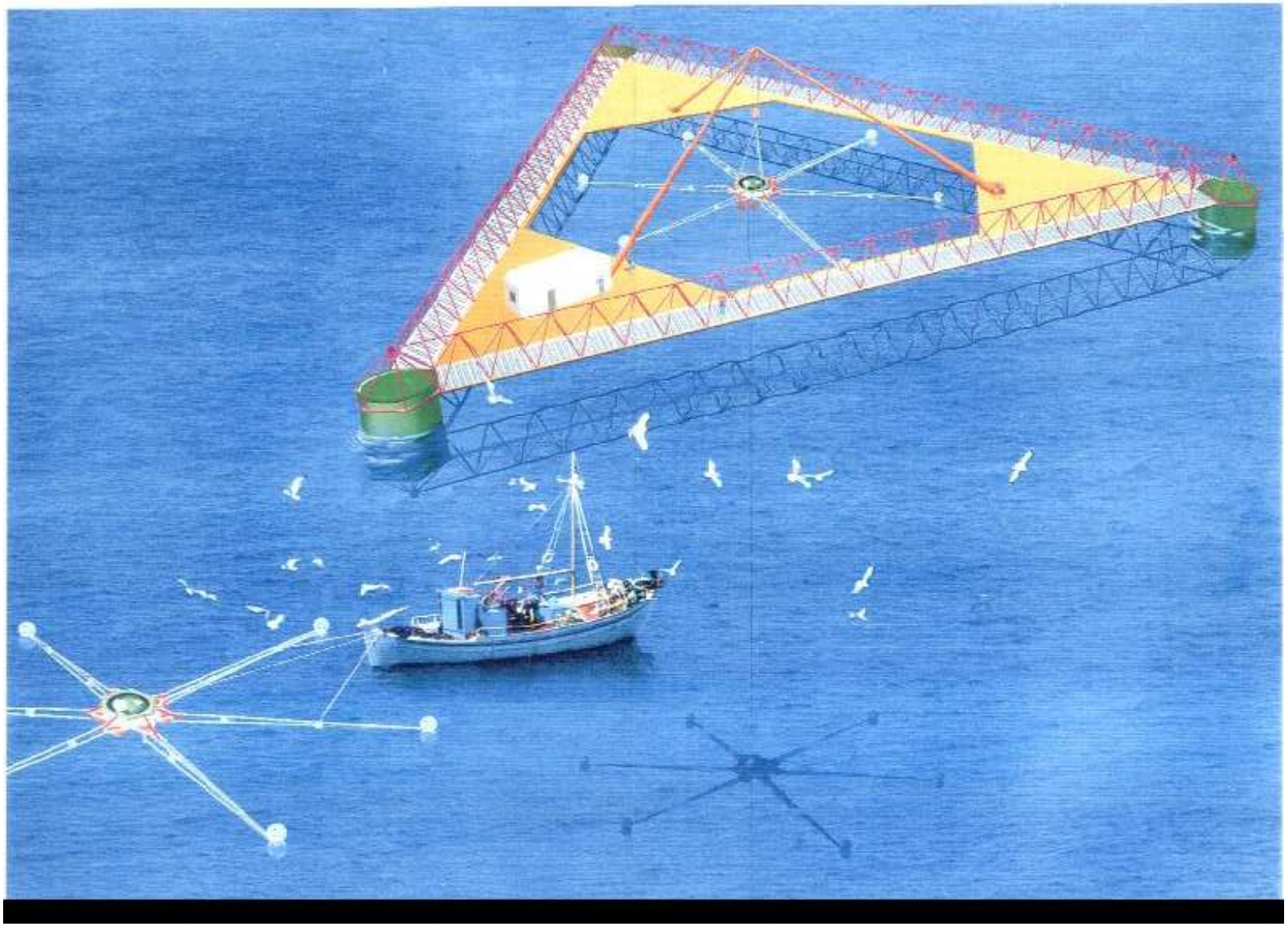
Then in a year from now, winch it up to the surface and replace it with a 12 floors tower using the "DELTA BERENIKE". DELTA BERENIKE is a station-keeping, ballasted triangular platform (equilateral triangle 55 m on each side) designed specifically to deploy NESTOR towers and she is under construction at the Elefsis Shipyard, Greece.



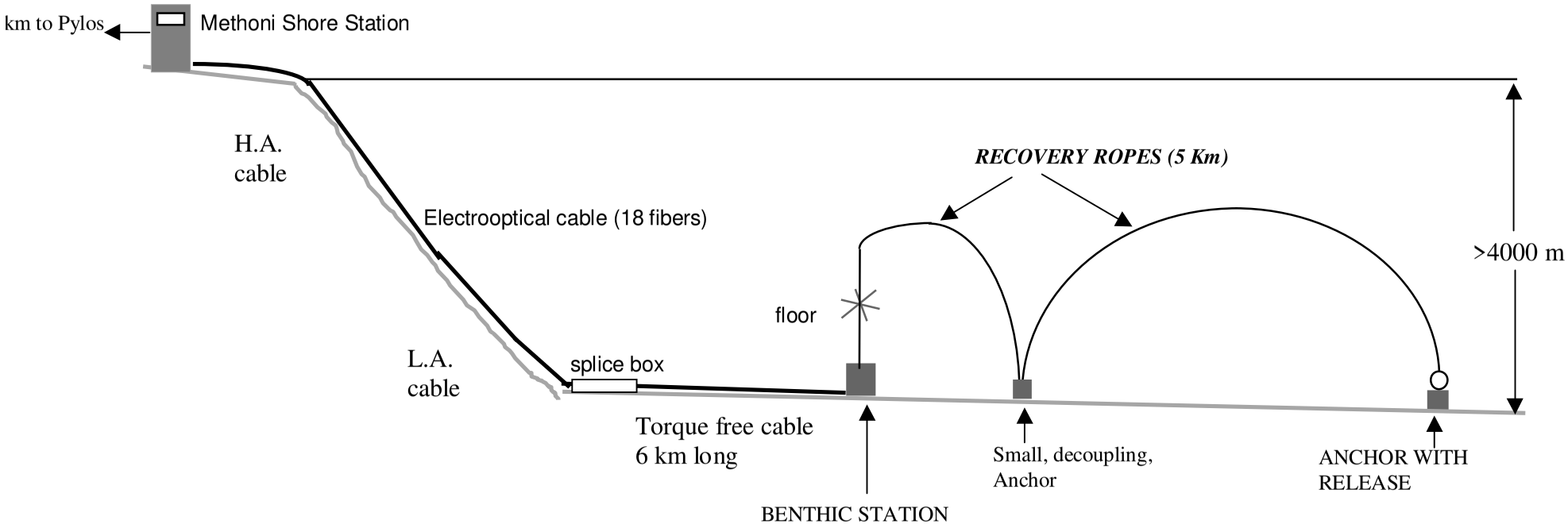
SCHEMATIC OF THE SCIENTIFIC PAYLOAD



SHORT ARM (1/3 the usual diameter)
HEXAGONAL TITANIUM FLOOR



DELTA BERENIKE


km to Pylos
Methoni Shore Station
H.A.
cable
Electrooptical cable (18 fibers)
RECOVERY ROPES (5 Km)
>4000 m
floor
L.A.
cable
splice box
Torque free cable
6 km long
Small, decoupling,
Anchor
ANCHOR WITH
RELEASE
BENTHIC STATION

SCHEMATIC