

Sediment in Small Harbors

DREDGING FOR BENEFICIAL USE OF SEDIMENTS NEEDS:

**SEDIMENT LAYER CLASSIFICATION,
MONITORING OF DREDGING OPERATIONS,
DREDGE MATERIAL PROCESSING**



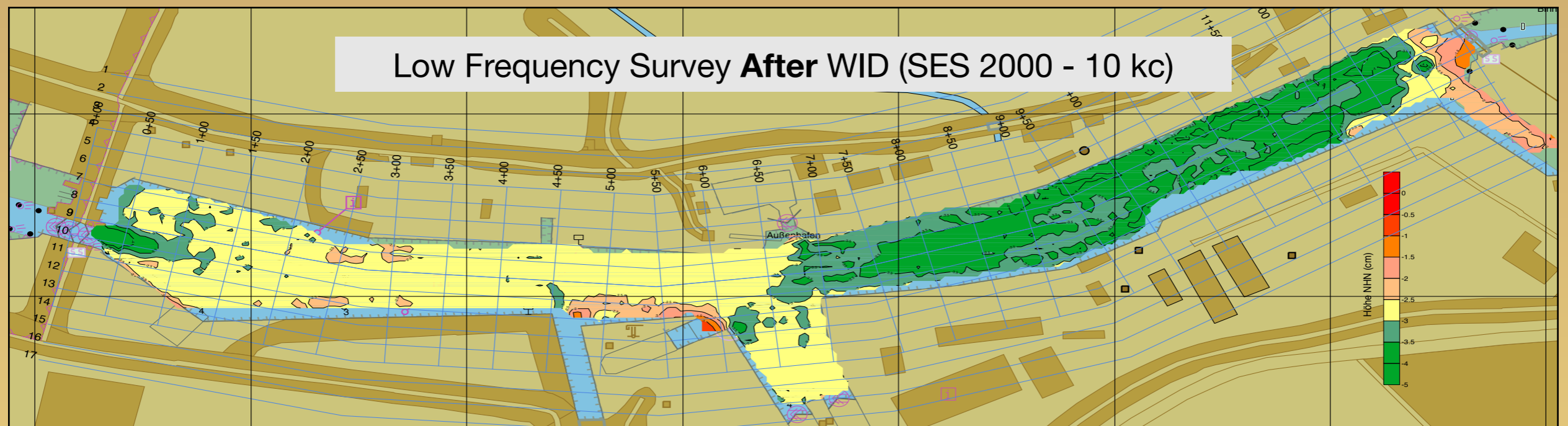
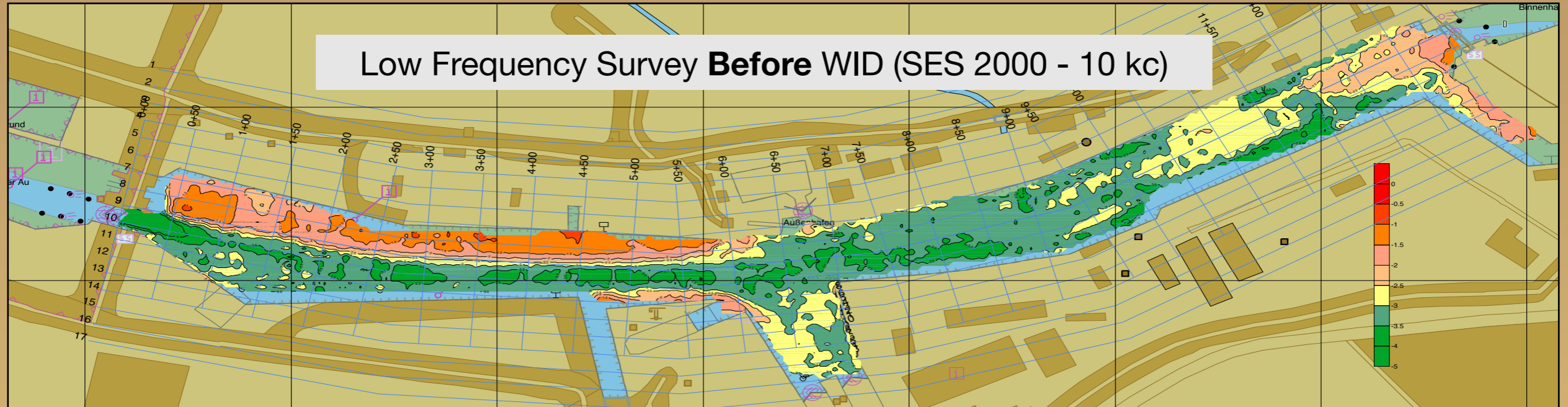
Norbert und Fabian Greiser



CONSULTANTS SELL-GREISER
Technology and Investigation Support

SEDIMENT LAYER CLASSIFICATION

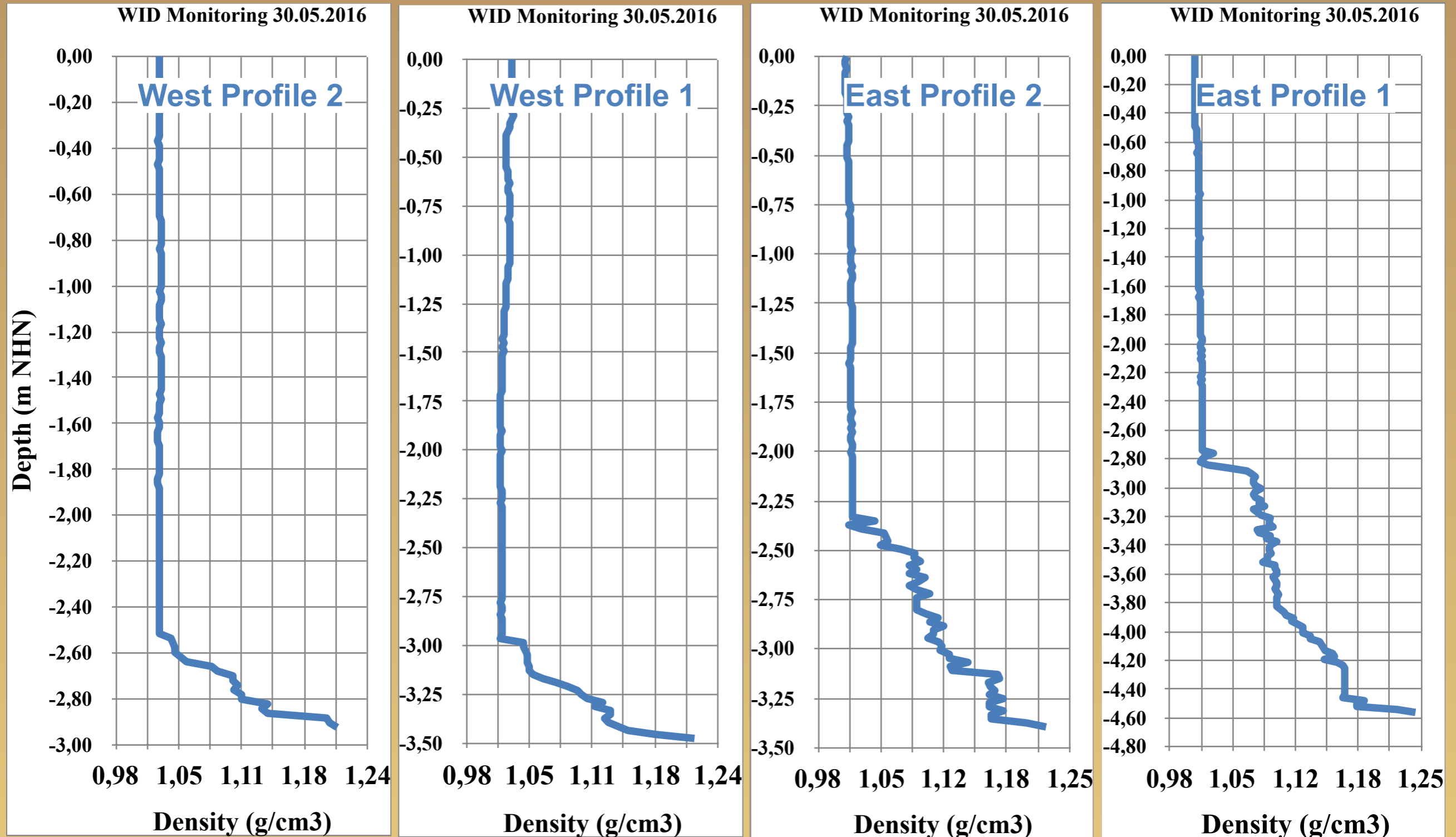
PORT OF HUSUM: INTERPRETATION OF DREDGING RESULTS



Sediment in Small Harbors

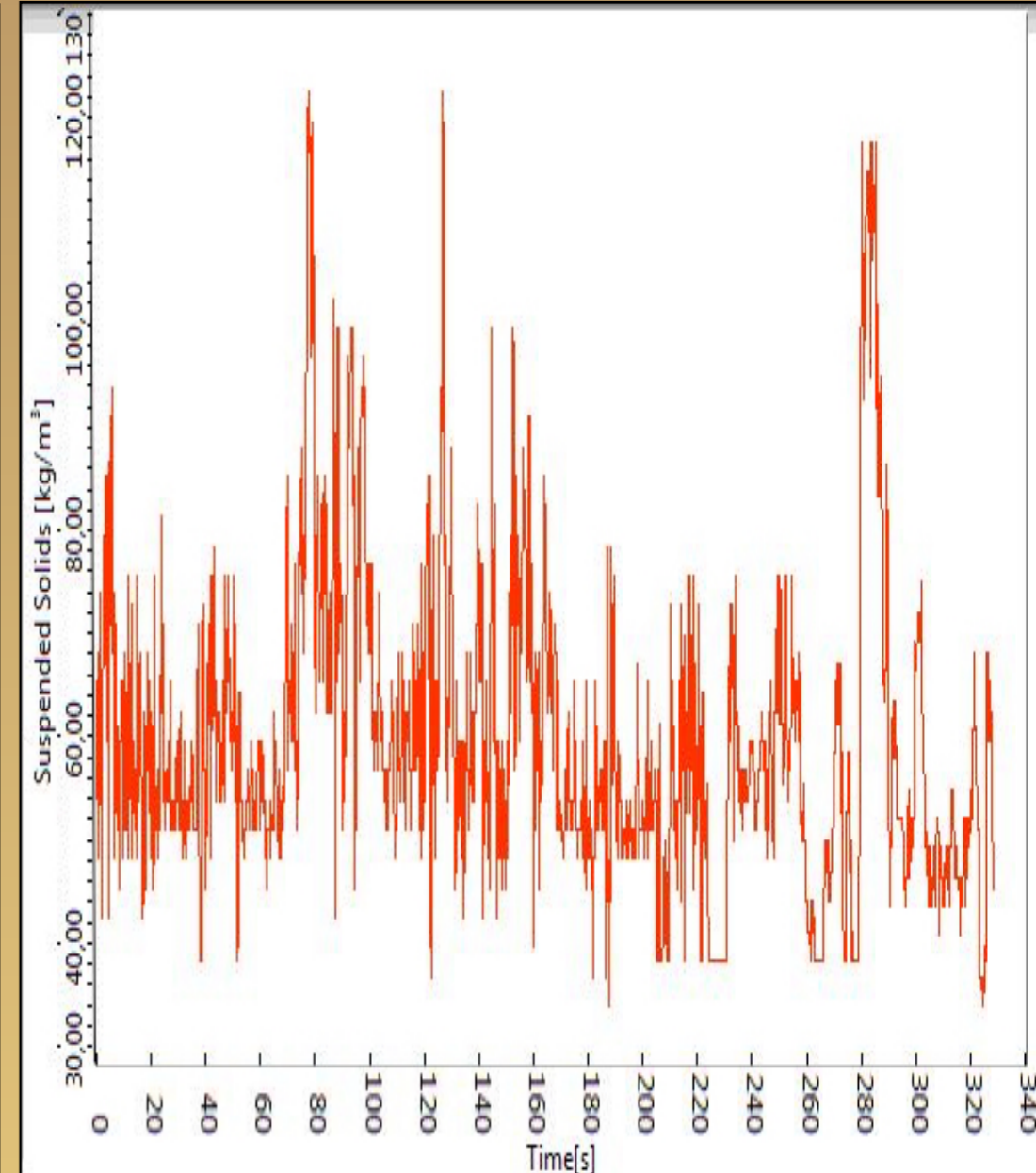
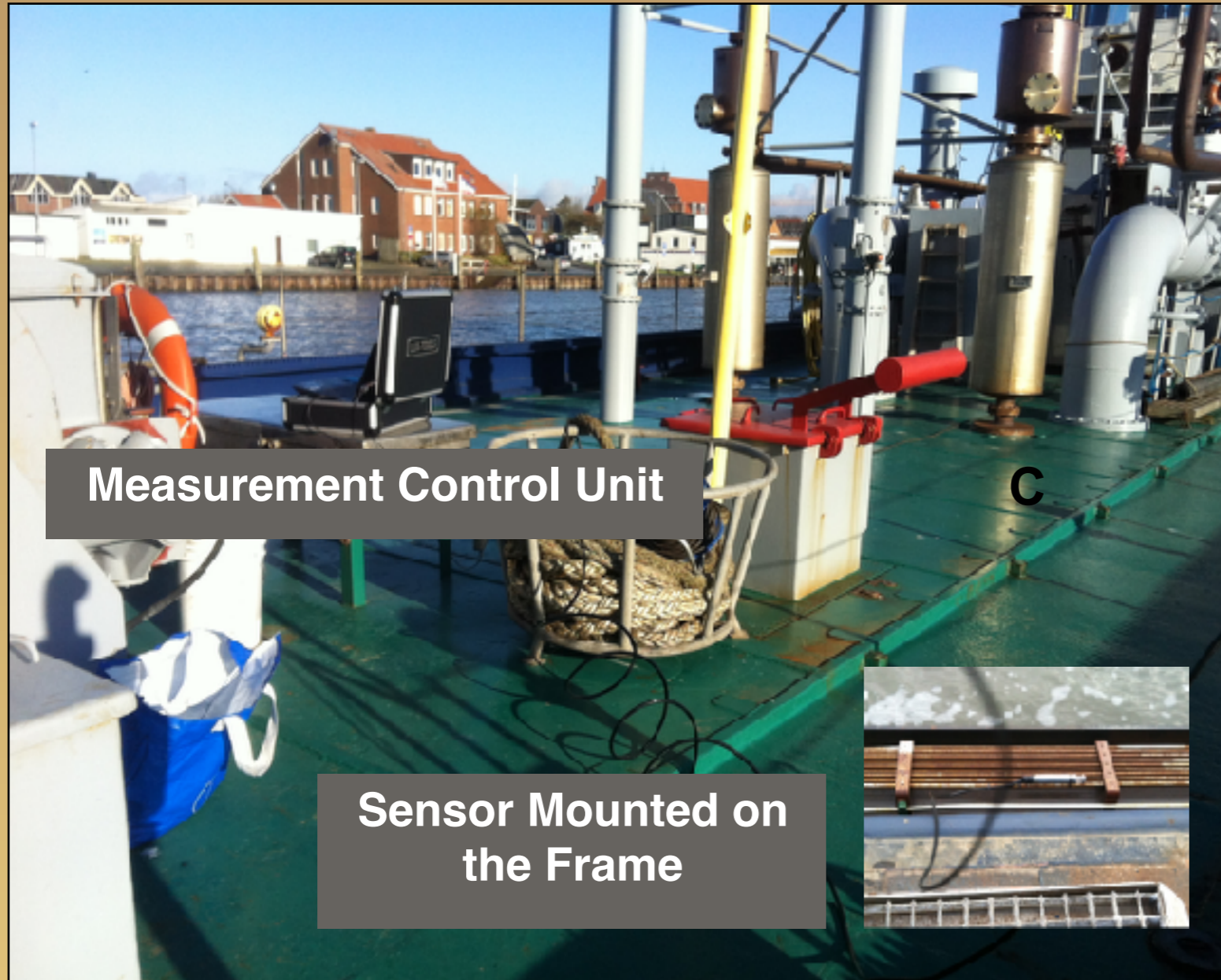
SEDIMENT LAYER CLASSIFICATION

PORT OF HUSUM: DENSITY PROFILES SHOW THE DIFFERENCE



DREDGING OPERATION CONTROL

HOW MUCH SEDIMENT IS RESUSPENDED ?



Survey example: WID Dredge AKKE at Port of Husum (Germany)

Sediment in Small Harbors

DREDGING OPERATION CONTROL

SEDIMENT CONCENTRATION / WATER CONTENT ?



Production Control Needed



MUD PROCESSING WITH FLOCCULANTS SETTLING ACCELERATION AT DUMPING SITES



Sediment in Small Harbors

MUD PROCESSING WITH FLOCCULANTS **QUICK FILLING AND DEWATERING IN GEOTUBES**



REAL-TIME MUD PROCESSING CONTROL

ADJUSTMENT OF DREDGE MATERIAL CONCENTRATION

