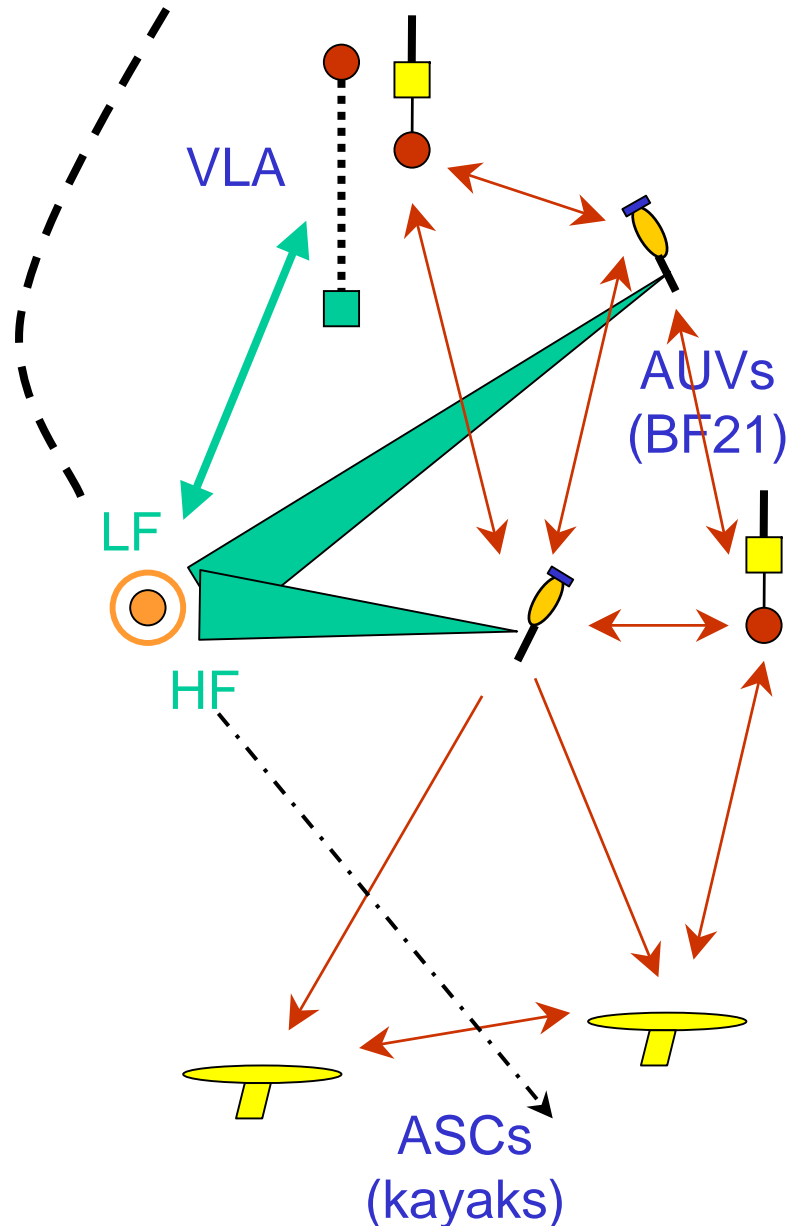




Lab Meeting – June 23. 05

- Status
 - AUVs Battle
 - ASC Curcio
- Personnel
- Travel Issues
- Test Plan
- Mission Software
 - AUV Navigation (Leedekerken)
 - AUV Control (Battle/Bahr)
 - Acomms
 - Operational (Patrikalakis/Bahr)
 - Measurements (Costas/Stojanovic)
 - Moving Baseline Nav (Leonard)
 - Detection and Tracking (Poulsen)
 - Adaptive Sampling (Wang)
 - Adaptive tracking (Eicksted)
 - Collaborative tracking (Eickstedt/Benjamin)
 - Target Handover (Leonard/Benjamin)

PLUSNet Engineering Test



- Adaptive Environmental Assessment
- Nested aperture acoustic signal processing
- Autonomous, cooperative navigation and control
- Modem-ranging network navigation
- Inter-platform communication
- Target handover
- Demonstration in 2005
 - Swordfish arrays
 - Target augmentation with HF source

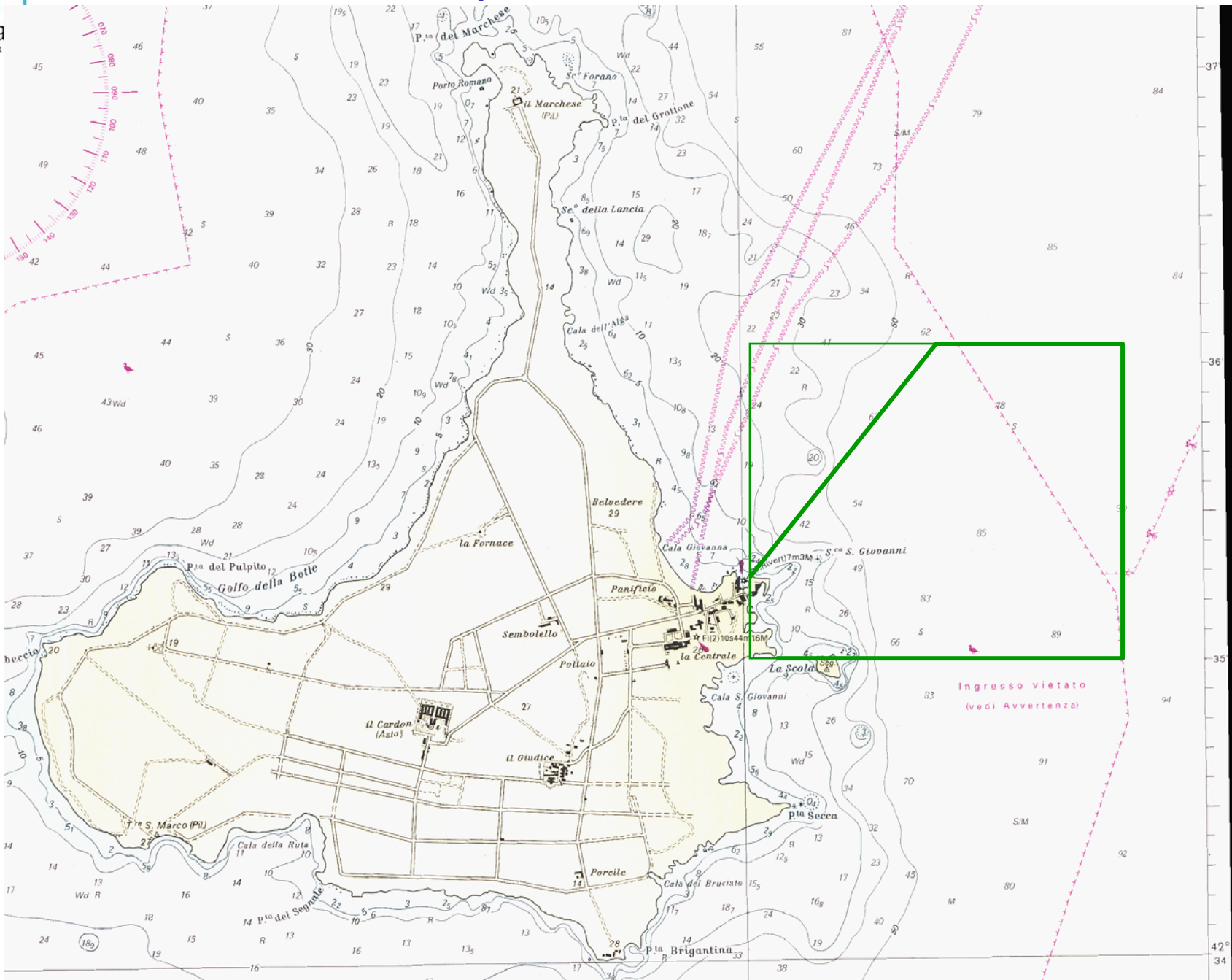


2005

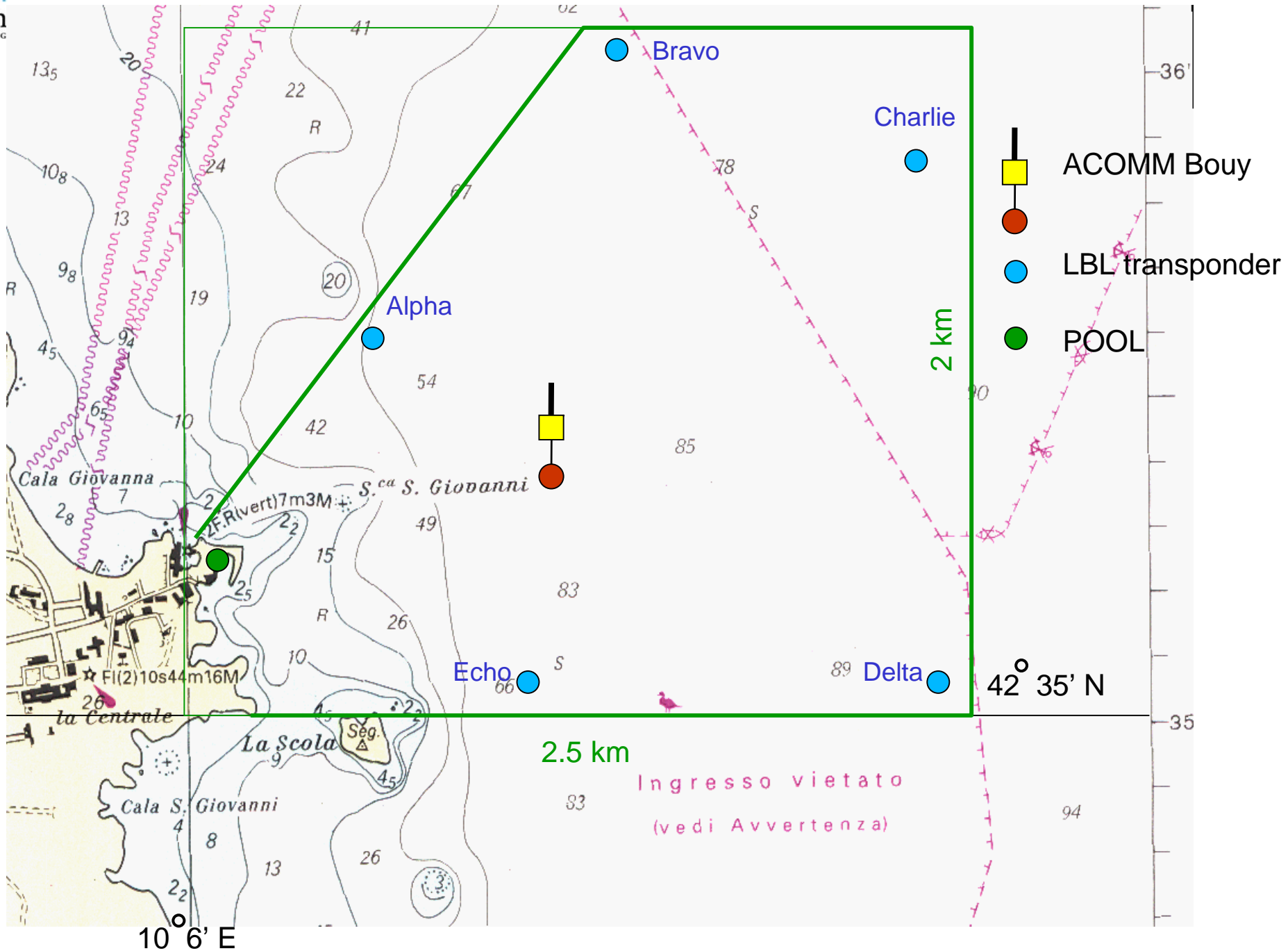
MIT Operations Area



Ocea
ENGINEER



2005 MIT Operations Area





Pianosa – 2005

MIT Assets



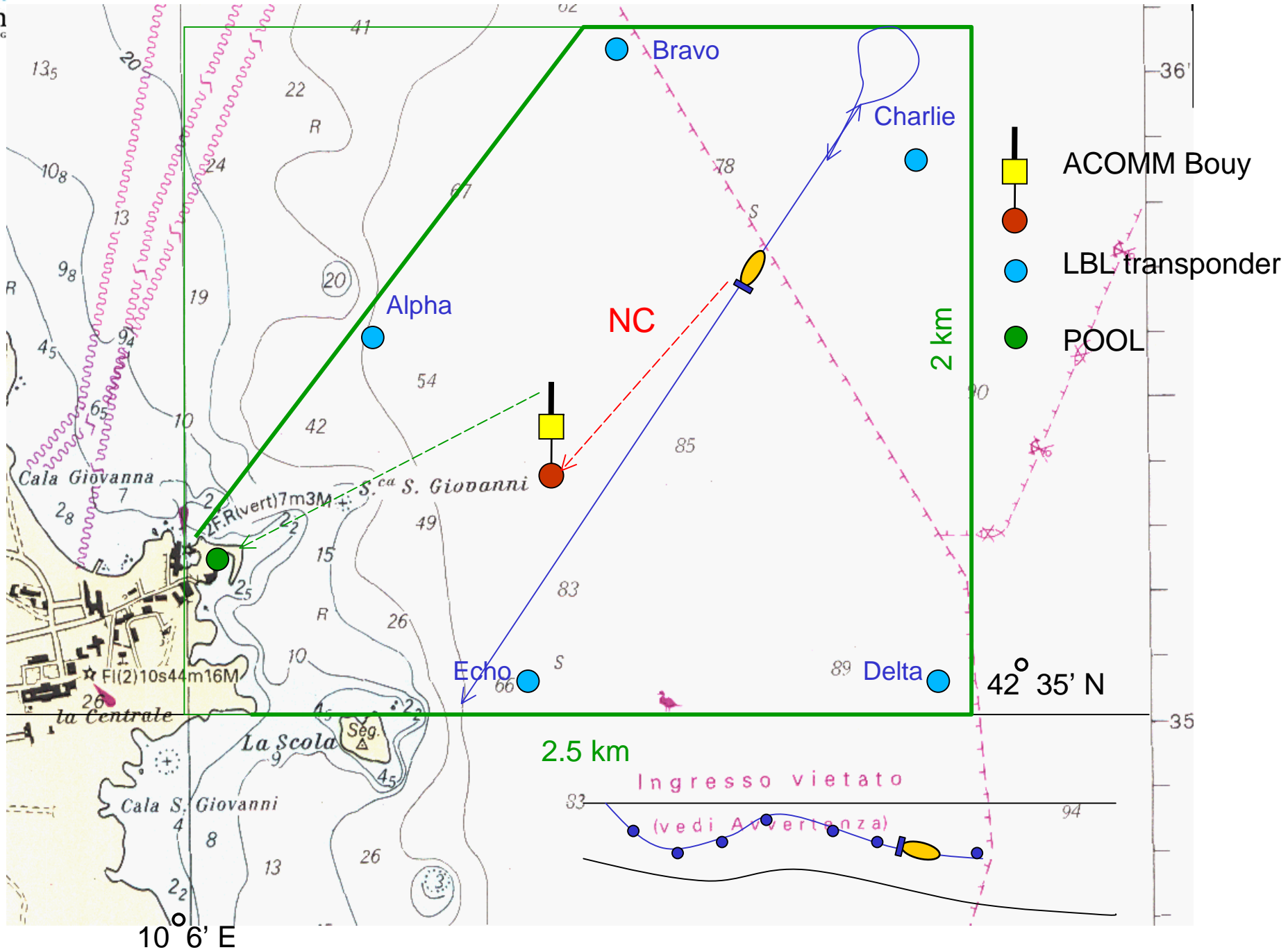
- R/V

- DPS
- Networking
 - 10Mb link to shore lab
 - GPRS Internet
 - Satellite Internet
- AUV Operations
 - 2 MIT BF'21
 - Control Center
 - HIPAP real-time tracking
 - Zodiac work boat
- AUV Engineer
 - HIPAP Operation
 - EM3000 Operation
 - AUV-ops support
- MIT Personnel
 - 4 Full time
 - 5 Daytime

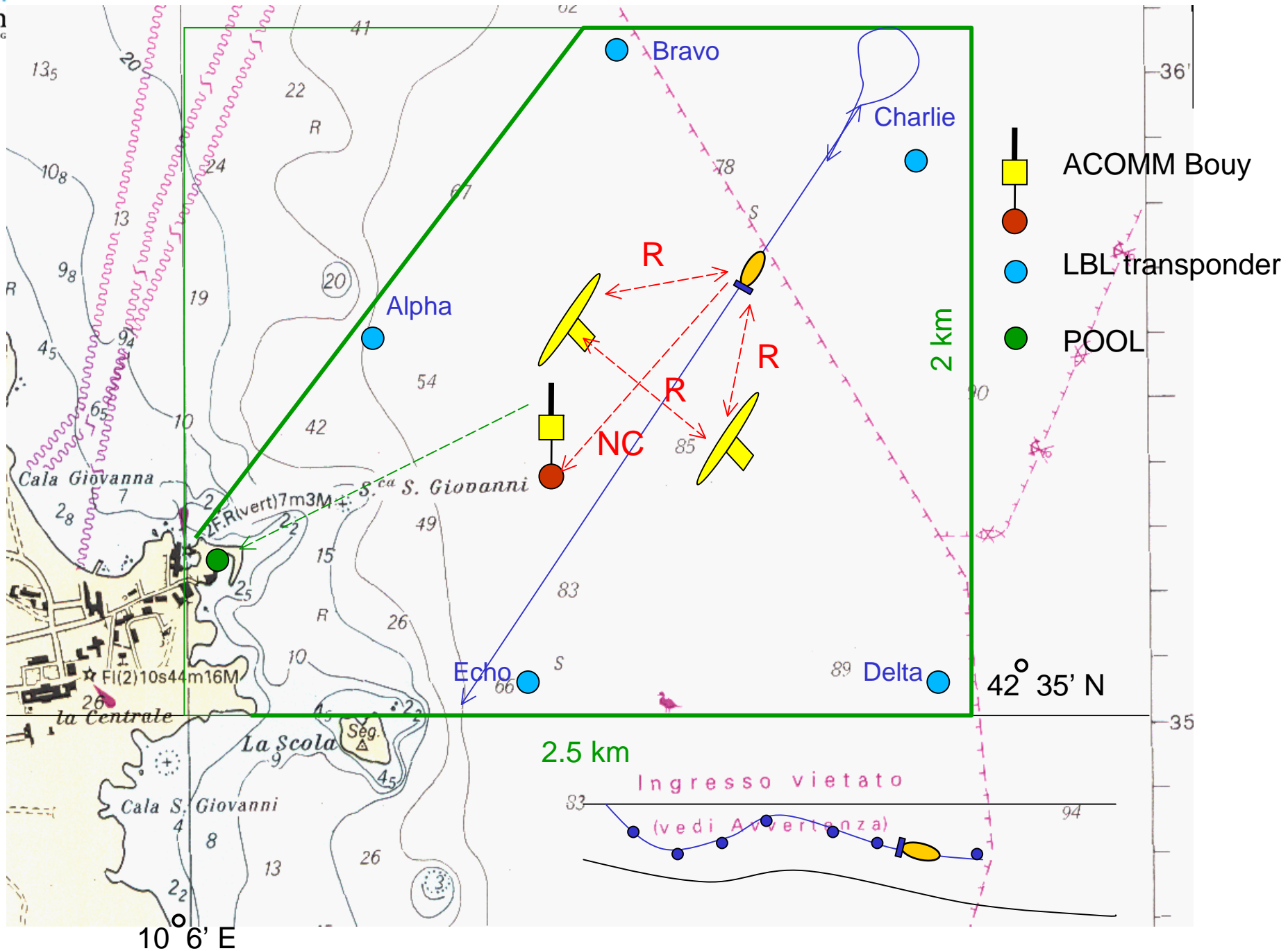
- Laboratory

- Networking
 - 10 Mb link to R/V
 - GPRS Internet
 - Satellite Internet
- ASC Operations
 - 3 MIT Autonomous Kayaks
 - Control Center
 - Zodiac work boat
 - GPS
 - Acoustic tracking
- Modeling and Analysis
 - Ocean forecasting
 - Acoustic Signal Processing
- Logistics Manager
 - Supplies
 - Networking
- Personnel
 - 8 MIT
 - 1 WHOI
 - 2 Harvard

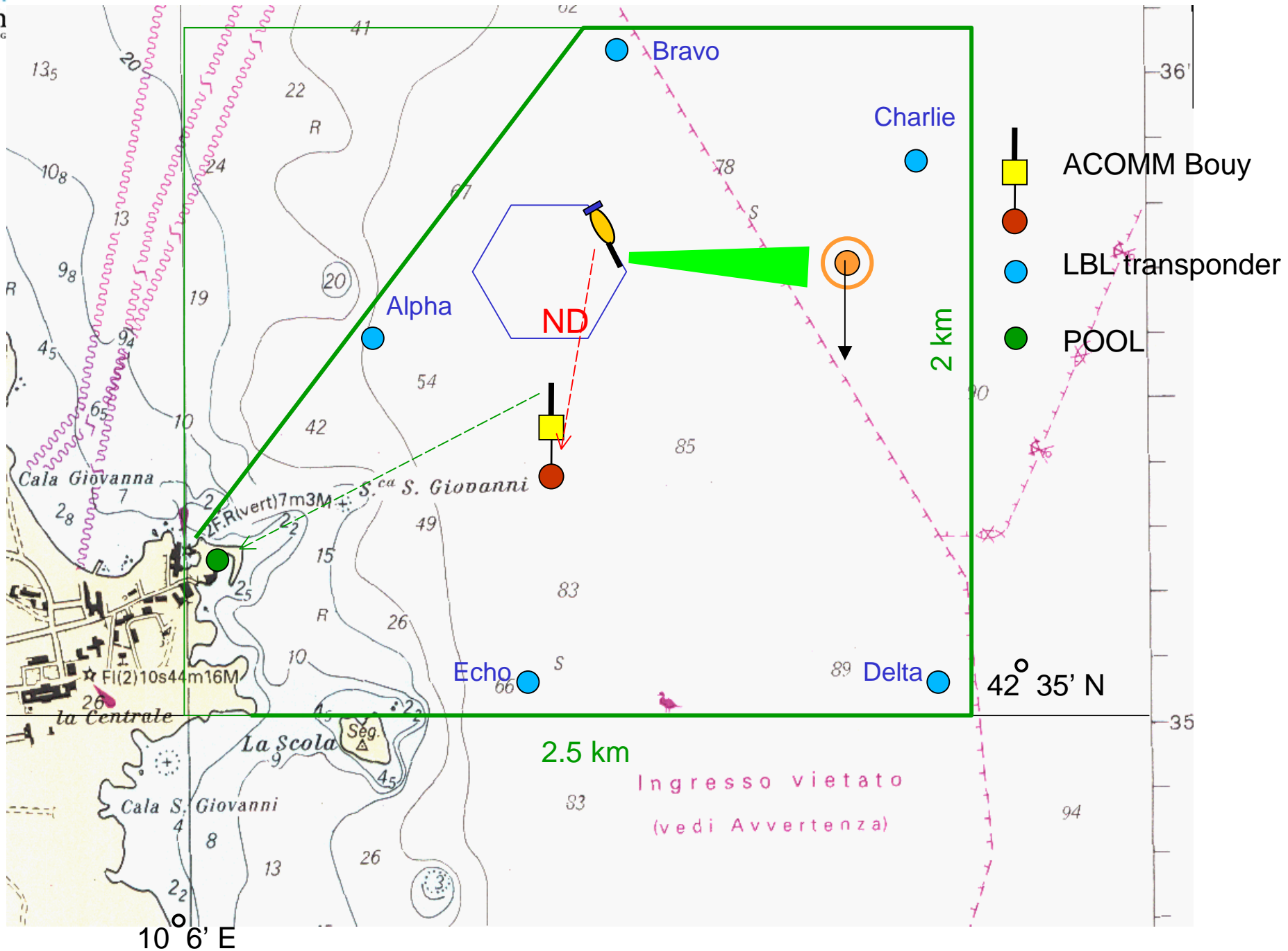
Mission A1: AREA Sampling



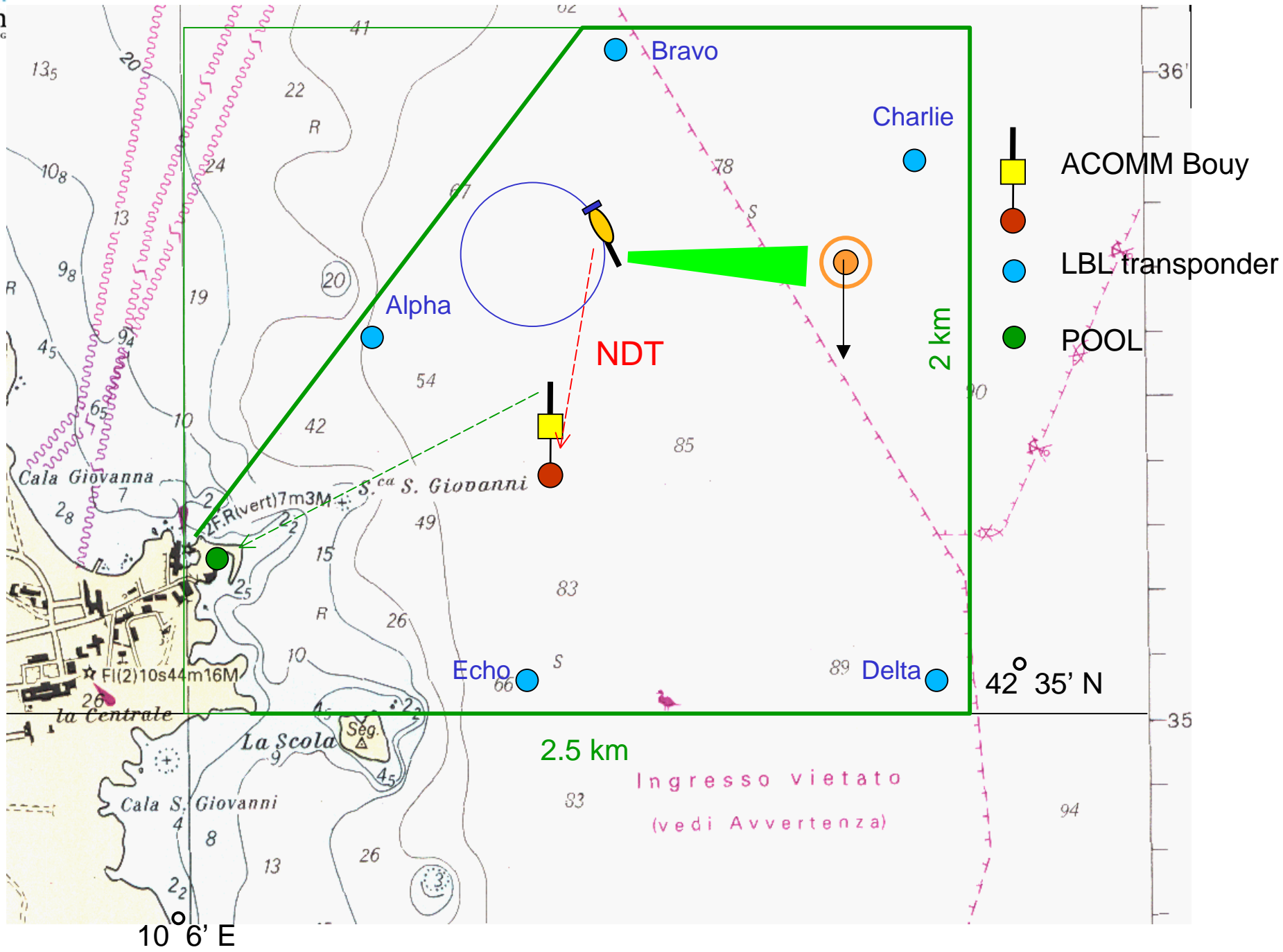
Mission A2: Moving Baseline Navigation



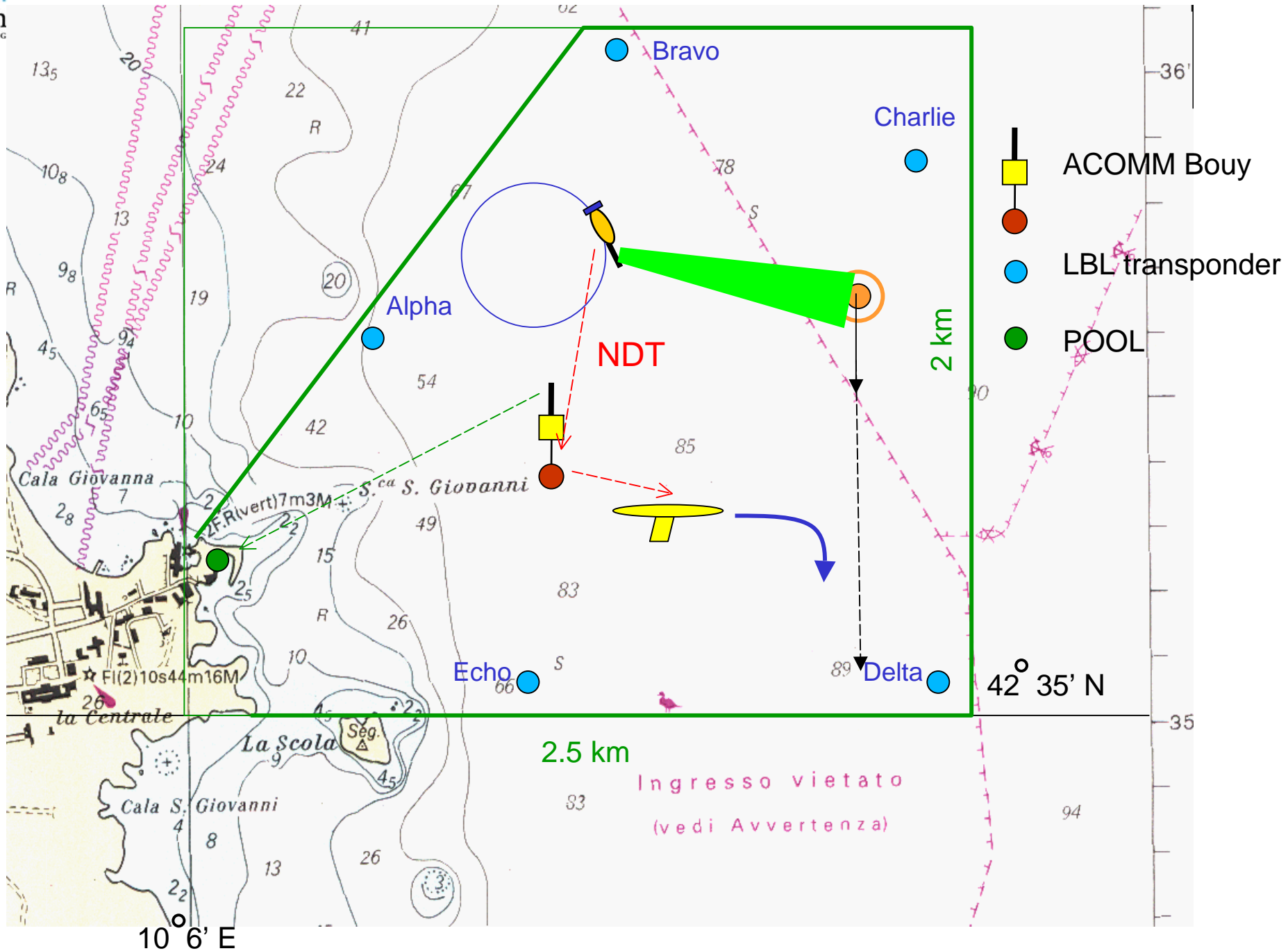
Mission B1: Surveillance - Detection



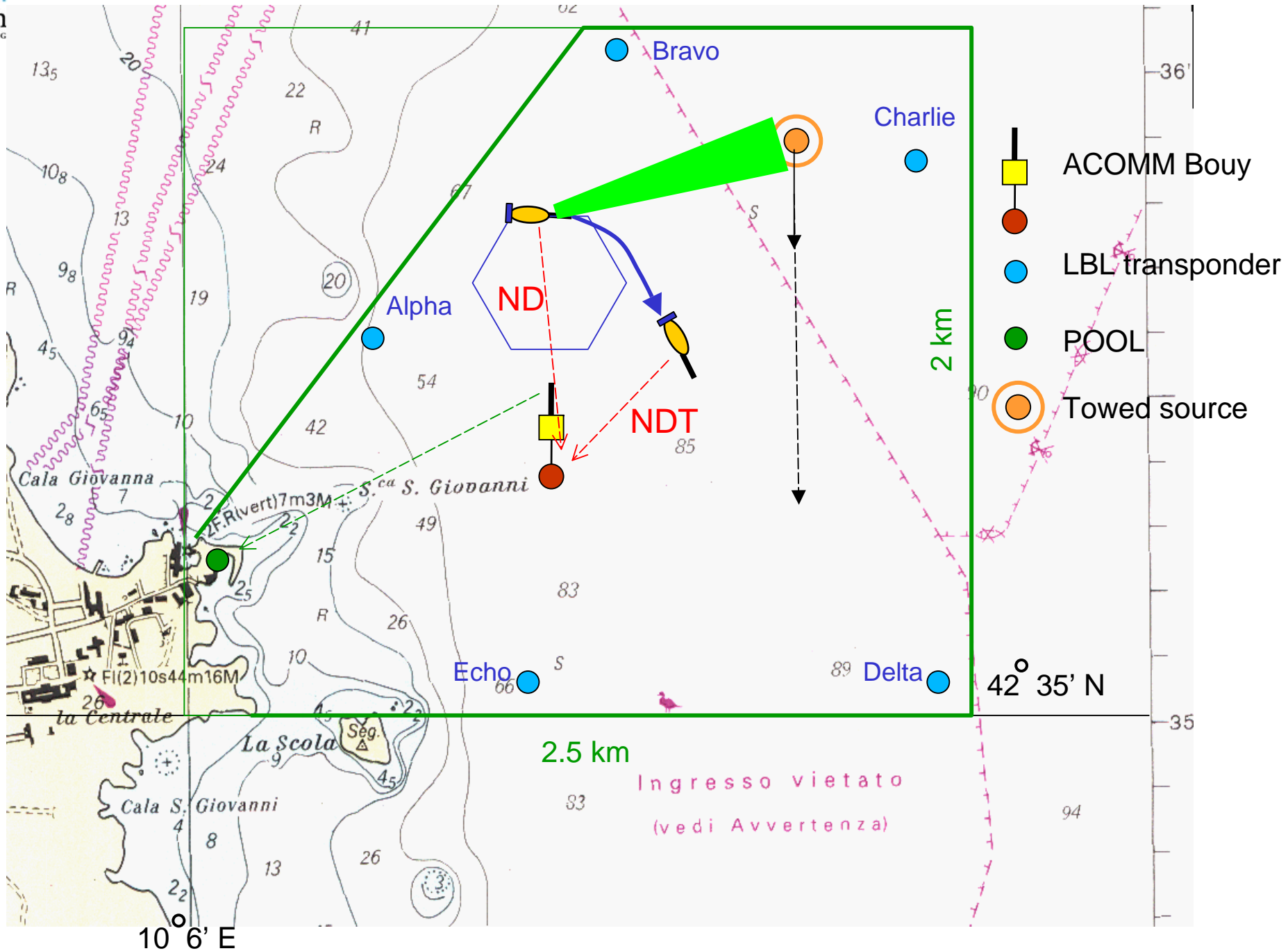
2005 Mission B2: Tracking



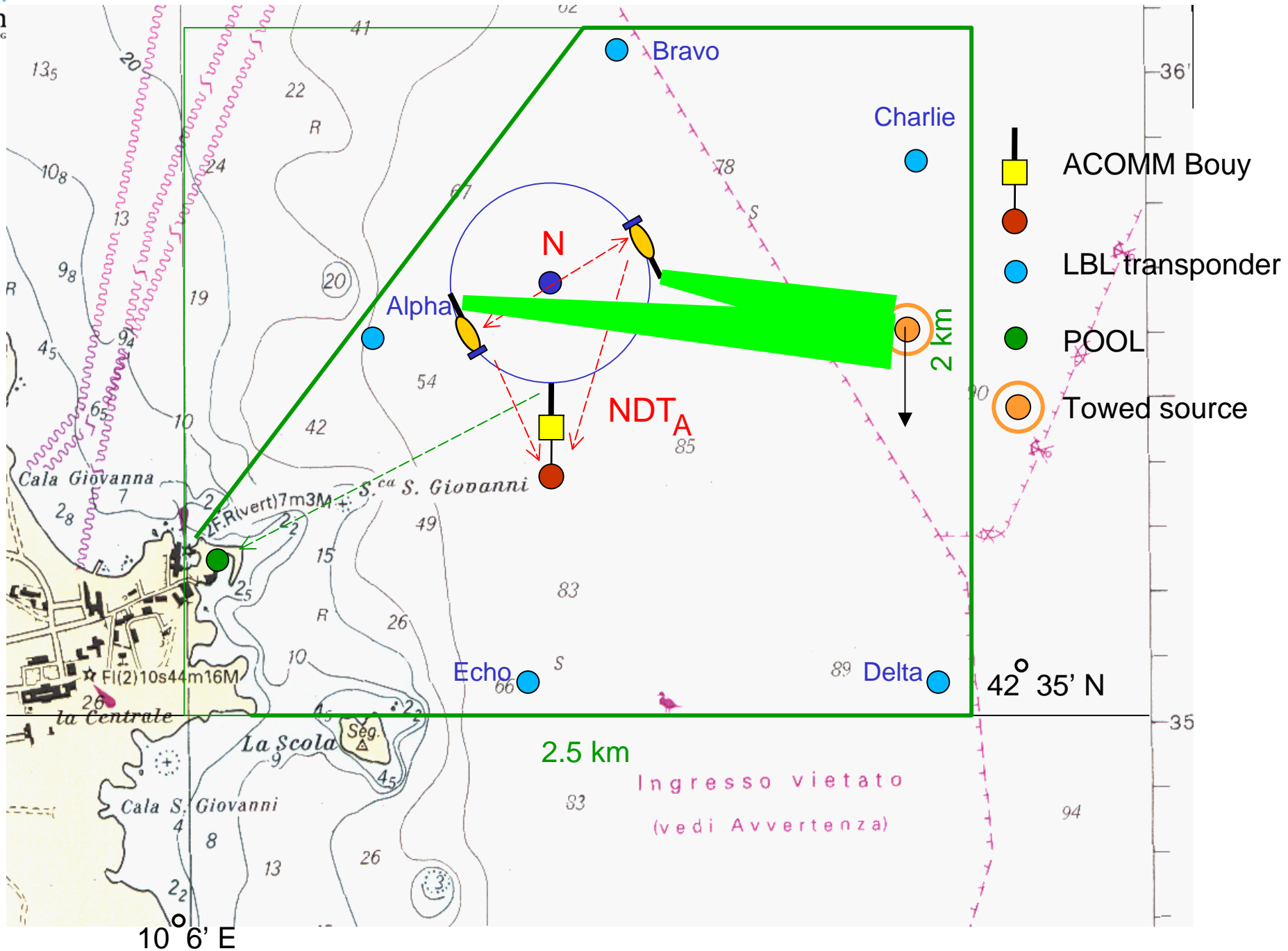
Mission B3: Tracking and Handover



Mission B4: Adaptive Tracking



Mission C1: Dual AUV Surveillance



Mission C2: Dual AUV Adaptive Tracking

