

CAVE SURVEY SYLLABUS



DAY 1: INTRO TO MANUAL SURVEY AND SOFTWARE

UNIT 1: Basic Survey

- ☐ Paperwork
- ☐ Assemble dive gear
- ☐ Theory 1: Methods and tools for cave survey
- ☐ Land drill: manual survey
- ☐ Drive to dive site
- ☐ Locate and record zero datum
- ☐ Instructor runs line from zero datum to cavern
- ☐ Cavern line survey (in)
- ☐ Photograph slate and break down gear

UNIT 2: Data Entry and Considerations

- ☐ Time comparison for survey vs swim
- ☐ Familiarization with Ariane Line Software
- ☐ Theory 2: Survey grades and sources of error

DAY 2: LINE WORK, COMPLEX MANUAL SURVEY

UNIT 3: Safety and linework

- ☐ Assemble dive gear, including reel and arrows!
- ☐ Theory 3: Planning and safety considerations
- ☐ Land drill: laying/manipulating line
- ☐ Locate and record zero datum
- ☐ Diver runs a survey line and then surveys it
- ☐ Must have loop and intersections
- ☐ Photograph slate and break down gear

UNIT 4: Plotting complex surveys, Google Earth

- ☐ Plot complex survey in Ariane Line
- ☐ Data you can access from Ariane Line
- ☐ Export options/kml/Google Earth

DAY 3: INTRO TO ELECTRONIC SURVEY

UNIT 5: mNemo use and notes

- ☐ Assemble dive gear, including reel and arrows
- ☐ Theory 4: Note-taking for complex surveys
- ☐ Land drill: using the mNemo
- ☐ Locate and record zero datum
- ☐ Survey with mNemo and take notes
- ☐ Photograph slate and break down gear

UNIT 6: importing electronic survey

- ☐ Import mNemo into Ariane Line
- ☐ Add notes and details

DAY 4: THINKING IN 3D: LRUDS AND MNEMO

UNIT 6: LRUD estimates

- ☐ Assemble dive gear
- ☐ Land drill: LRUDs/ mention Sonar
- ☐ Locate and record zero datum
- ☐ Survey with mNemo and take LRUDs
- ☐ Photograph slate and break down gear

UNIT 6: importing electronic survey

- ☐ Add LRUDs to a survey
- ☐ Add notes and details
- ☐ Play with 3D in Ariane line