

Coastal Topography Monitoring FIELD EQUIPMENT CHECKLIST

GPS/GNSS Equipment

Depending on the equipment used and which set-up is selected, the following items are among those required for the establishment of the GPS/GNSS system:

Fully-Integrated Receiver Setup:

Rover Set-up:

- ☐ Rover receiver
- ☐ Internal batteries, fully charged
- ☐ Radio antenna
- ☐ Field survey controller
- ☐ Pole
- ☐ Flat (topo) foot for pole
- ☐ Pole clamp
- ☐ Cell phone with data plan for cell phone correction option (if no base station is set up).

Base station setup:

- ☐ Base receiver
- ☐ Internal batteries, fully charged
- ☐ Radio antenna
- ☐ External battery, fully charged
- ☐ Tripod

Modular Unit Receiver Setup:

Rover Set-up:

- ☐ Rover receiver
- ☐ Rover GPS/GNSS antenna
- ☐ Rover radio antenna
- ☐ Internal batteries, fully charged
- ☐ Field survey controller
- ☐ Pole
- ☐ Flat (topo) foot for pole
- ☐ Pole clamp
- ☐ Cables
- ☐ Cell phone with data plan for cell phone correction option (if no base station is set up).

Base station setup:

- ☐ Base receiver
- ☐ Base GPS/GNSS antenna
- ☐ Base radio transmitter
- ☐ Base radio antenna
- ☐ Cables
- ☐ Internal batteries, fully charged
- ☐ External batteries, fully charged
- ☐ Base receiver tripod
- ☐ Radio antenna tripod

Transportation Equipment

- ☐ ORV or 4x4 (required unless walking entire survey)
- ☐ Boards/rope or tow cable/shovel (recommended)
- ☐ Sufficient fuel (required)
- ☐ Extra fuel can (recommended)
- ☐ Tire pressure gauge (recommended)
- ☐ Personal flotation device (required if using a boat)
- ☐ Large drybag (required if using a boat)

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Other Equipment and Personal Items

- ☐ Transect Monuments Booklet
- ☐ GPS/GNSS receiver manual (optional)
- ☐ Park safety sheet with emergency contacts and list of emergency phone numbers (required)
- ☐ *SOP 6: Conducting the GPS/GNSS Coastal Topography Survey* (required)
- ☐ Coastal Topography Monitoring Field Data Form (required)
- ☐ Printed maps of area and monitoring site
- ☐ Satellite availability and PDOP information (recommended)
- ☐ Digital camera – fully charged (required)
- ☐ Cellular phone (personal or work – required for each monitoring staff member)
- ☐ Fully charged power pack to charge cell phones
- ☐ Secondary communication device (GPS satellite communication device)
- ☐ Two-way radio (if required by park)
- ☐ Dry bag for non-waterproof electronics
- ☐ Measuring tape
- ☐ Small toolkit
- ☐ Boots (e.g., hip boots or waders)
- ☐ Mosquito head netting or jacket (if needed)
- ☐ Goggles, safety glasses (provided) or sunglasses (personal)
- ☐ Work gloves
- ☐ Spare set of dry clothes (personal/optional – shirt, pants, socks)
- ☐ First aid kit (fully stocked, with guidelines for incident response. See NCBN First Aid Checklist)
- ☐ Personal medication (EpiPen, antihistamine, acetaminophen, ibuprofen, aspirin, Tecnu, etc.)
- ☐ Sunscreen (personal)
- ☐ Insect repellent (personal)
- ☐ Drinking water (2-3 liters – personal)
- ☐ Snacks/lunch (personal)