

IMOS FVON /FishSOOP Installation Checklist

PACIFIC

Vessel Name:

Date of Installation:

Installed by:

Deck unit number:

Sensor number(s):

****Once you have completed all steps, please send a copy of this form to fishsoop@unsw.edu.au ****

Pre-Installation Checklist

(2 weeks prior minimum):

Communication with Fishing Vessel:

- ☐ Vessel Agreement form has been emailed to the correct contact for fishing vessel
- ☐ Agreement form has been filled in and signed and returned (or confirmation that it can be signed on the day if not prior)
- ☐ Date, time and location of installation has been confirmed with fishing vessel

Communication with UNSW:

- ☐ Notified FishSOOP team at UNSW about:
 - ☐ Vessel name and location (country and home port)
 - ☐ Intended date/time of installation to ensure availability

(2 days prior minimum):

Deck Unit:

- ☐ Deck Unit has been turned on (ON/OFF switch arrow is pointing to ON position)
- ☐ Deck Unit is showing a green flash for battery

- ☐ Deck Unit is showing a green flash for GPS (go outside - ensure deck unit can see the sky to fix location after being switched on)
- ☐ Visually check SIM card is inserted (SIM should already be inserted fully with gold contacts down and triangle to the left and should not require interference)
- ☐ O-ring is present behind the clear side door (visual check)
- ☐ O-ring is greased sufficiently (visual check)
- ☐ Screws for the side door are screwed down tightly (O-ring flattened)
- ☐ Sufficient mobile signal at port for deck unit comms (Check with UNSW Fleet Manager)

Sensor/s:

- ☐ Sensor/s are in appropriate housing specific for fishing type with serial numbers written on the exterior

Communication with UNSW:

- ☐ Notified FishSOOP team at UNSW about:
 - ☐ Vessel name and location (country and home port)
 - ☐ Deck unit serial number and sensor serial numbers intending to be installed
 - ☐ Intended date/time of installation
 - ☐ Email address to receive test cast data on the day of installation

Packed Equipment for day of Installation:

- ☐ Correct Deck Units
- ☐ Correct Sensor/s in their correct housing with serial numbers visible
- ☐ U-bolts for Deck Unit
- ☐ Tools/tool kit as per IMOS specifications

* Slowly lower the sensor into water (clear of any discharges or other disturbances) at a rate of ~1m/second to a depth between 2-10m. Leave for 1 minute, then recover at ~1m/second to communicate

- ☐ Printed version of this list
- ☐ Printed version of vessel agreement (filled in)
- ☐ Minimum two printed and laminated FishSOOP installation instructions/FAQ for ship crew
- ☐ Clipboard and pens
- ☐ Tablet or phone with cell service for accessing all documents and the email that the test cast will be sent to

Day of Installation Checklist

Deck unit – hardware check

- ☐ ON/OFF switch arrow is pointing to ON position
- ☐ Screws for the side door are screwed down tightly (O-ring flattened)

Deck unit Mounting Location

- ☐ Suitable and safe mounting location has been identified with the skipper / captain:
 - ☐ < 20m from location where sensors /nets/ lines come onboard after deployment
 - ☐ Clear view to the sky – GPS and solar charging,
 - ☐ Strong mobile signal (test with phone)
 - ☐ Preferably 45° angle due to tropical installation
 - ☐ Out of the way of fishing operations

Sensor mounting

- ☐ Solution for sensor installation established appropriate to fishing type: *see final page for examples*
 - ☐ More than one attachment point

Comms & Test cast

- ☐ Ensure deck unit and sensors are tested in the position they will be located during fishing operation
- ☐ Ensure Deck Unit is on
- ☐ Two green lights evident on Deck Unit (Battery and GPS)
- ☐ Sensor test cast conducted*

- ☐ Confirmation that the Deck Unit has communicated with the server:

- ☐ Sensor/s have sent data to Deck Unit (blue data light on Deck Unit illuminated following test cast/s (* this is brief so ensure you are watching! *))

- ☐ Data received to your elected email (If you have any issues confirming on your own, email

(fishsoop@unsw.edu.au) or WhatsApp UNSW Fleet Manager to confirm communications)

Online Metadata form (JotForm)

- ☐ Metadata JotForm completed with all details including:

- ☐ Email addresses for the data delivery
- ☐ Deck unit and sensor serial numbers
- ☐ Photos of every page of vessel agreement

This is critical for data delivery

Photographs to Take:

- ☐ Photos of **every page of the completed vessel agreement**
- ☐ Photographs of installation taken as follows:
 - ☐ Sensors in tough jackets with appropriate attachment/s **showing serial numbers**
 - ☐ Deck Unit mounted in place **showing serial number**
 - ☐ Clear side panel on Deck Unit **showing power ON**
 - ☐ Sensor/s on fishing equipment – **showing attachment method**
 - ☐ Happy snaps of vessel and crew if appropriate. Let them know we welcome additional photos/videos of deployment at any time!

- ☐ Confirm the vessel is happy for us to mention (by name) their participation in the program

Fishing Operations

- ☐ Estimated date of next fishing endeavour:

* Slowly lower the sensor into water (clear of any discharges or other disturbances) at a rate of ~1m/second to a depth between 2-10m. Leave for 1 minute, then recover at ~1m/second to communicate

Post-Installation Checklist:

Day of or 1-2 days after installation:

Photo distribution:

- ☐ Vessel Agreement photos or scanned copy are returned to FVON coordinator and/or appropriate point of contact in country.
- ☐ Photographs of installation sent to fishsoop@unsw.edu.au or uploaded on JotForm:
 - ☐ Photos of **every page of completed vessel agreement**
 - ☐ Sensors in tough jackets with appropriate attachment/s **showing serial numbers**
 - ☐ Deck Unit mounted in place **showing serial number**
 - ☐ Clear side panel on Deck Unit **showing power ON**
 - ☐ Sensor on fishing equipment – **showing attachment method**
- ☐ All Photos from the installation day are uploaded to One Drive in correct folder

1-2 weeks after installation

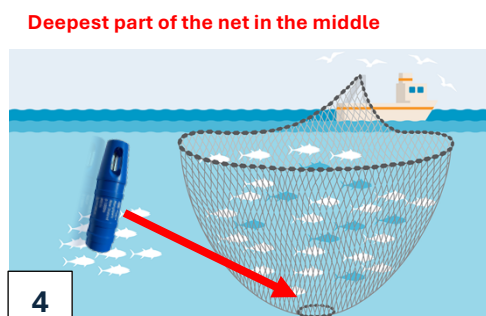
- ☐ Photos of sensor/s and deck unit on fishing equipment/vessel in action (during fishing etc.) sent to fishsoop@unsw.edu.au (or WhatsApp to UNSW Fleet Manager)

* Slowly lower the sensor into water (clear of any discharges or other disturbances) at a rate of ~1m/second to a depth between 2-10m. Leave for 1 minute, then recover at ~1m/second to communicate

Purse Seine Attachment

Requirements:

- Sensor within simple net basket (see photo 1) *water must be able to flow through sensor so only 1-2 layers of net!
- Sensor basket is attached with more than 1 point of contact to main net (see photo 2)
- Installed ~50cm above the lead line (photo 3) and on the deepest part of the net in the middle (photo 4)

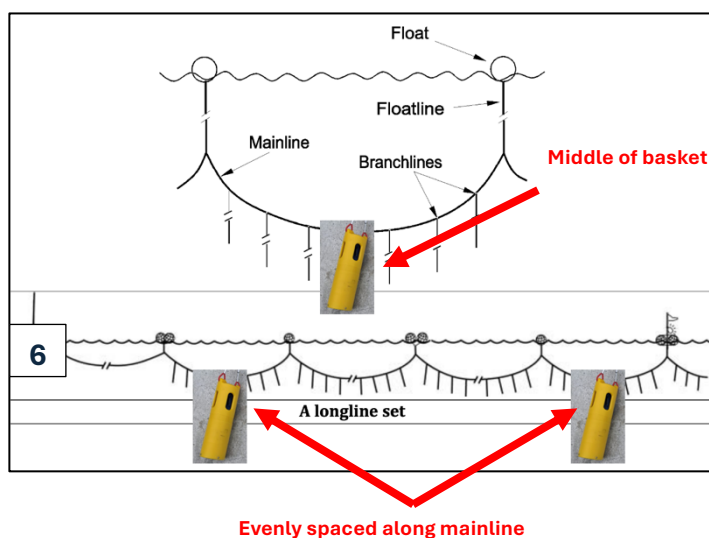


* Slowly lower the sensor into water (clear of any discharges or other disturbances) at a rate of ~1m/second to a depth between 2-10m. Leave for 1 minute, then recover at ~1m/second to communicate

Long Line Attachment

Requirements:

- Two separate points of attachment (photo 5). **Do not use only one**
- Monofilament (not wire) used for tether (photo 5)
- Sensor attached in the middle of a basket to achieve greatest depth.
- Sensor/s appropriately and evenly spaced along mainline



* Slowly lower the sensor into water (clear of any discharges or other disturbances) at a rate of ~1m/second to a depth between 2-10m. Leave for 1 minute, then recover at ~1m/second to communicate