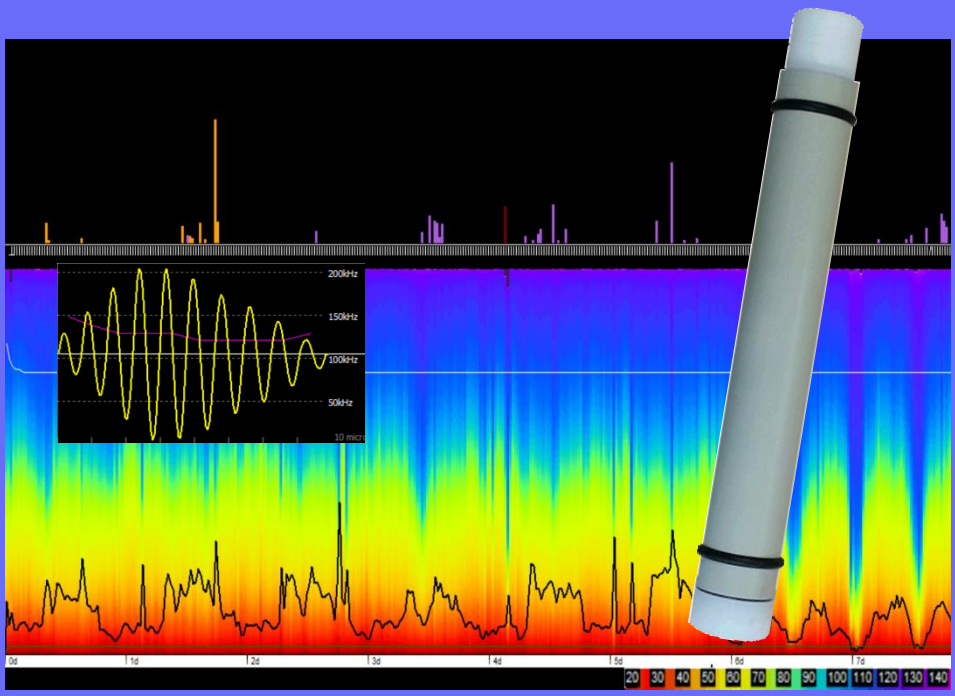
Chelonia Limited

Wildlife Acoustic Monitoring

F-POD
New Features



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The F-POD uses new electronics and software to capture more information and this has made starting and stopping the POD easier.

All other deployment procedures are the same as for the C-POD.

Major improvements

The F-POD:

- stores more information of higher quality on each click to enable improved train detection and species classification, so the need for visual validation is reduced.
- has on-board train detection that selects clicks in trains so that some representative full waveforms can be saved.
- detects short dolphin clicks more efficiently.
- can capture up to 21 cycles of a click and construct its waveform, providing new insights into the frequency slopes of NBHF.
- has automated adaptation to noise so that it does not often max out even in severe conditions.
- writes normal files to any SD card, up to 32GB, without any special formatting.
- runs two independent sonar detectors that detect and filter out boat sonars. A record is kept of sonar detections.
- has much reduced 'drop-out' of porpoise clicks.
- has an improved hydrophone with less Z-plane variation.
- has a real-time clock which you can set, e.g. to local time rather than UTC.
- takes lithium batteries without any modification giving longer deployment times than alkaline batteries.
- runs with reduced power consumption when conditions are quiet.
- has a deep-sleep mode which enables the POD to run for years, sampling every *n*th minute.
- can be set to start at a later date.
- can be set to switch on and off at different angles to the vertical.

Main differences between using the C-POD and F-POD

The main differences between the operation of the C-POD and F-POD are:

- Two SD cards are supplied with each F-POD. However, the F-POD can use any standard SD card up to 32GB. No special formatting is required.
- The F-POD has a real-time clock and so it is no longer necessary to record start and stop times. The correct UTC time is set during manufacture, but you can also set the clock time very simply, to local time for example, by using an SD card and the cpod.exe app.
- A new version of the POD app has been developed for use with the F-POD. The new app can also be used to compare C-POD and F-POD data.
- You can also change various operational settings for the POD, via the SD card and app.
- The POD starts automatically when an SD card is inserted.
- The POD has two multicolour LEDs.

Setup options

The F-POD app allows you change the following setup options:

- different types of battery
- continuous or intermittent logging
- boat sonar filtering
- automatic amplitude threshold control
- POD settings for different environments
- POD start time and date
- ON/OFF angle to vertical range
- real-time clock settings, e.g. use local time rather than UTC.

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