

# *F-PODs - Getting your data from the SD card*

## 1. Stop the POD and remove the SD card

Open the POD and press the 'Save file button' - the tiny button on the end of the board.

If no lights show the batteries are exhausted and you can take the SD card out. Otherwise:

Older F-PODs will show a green light and when this is not flashing you can take the SD card out.


Newer F-PODs will do the file save process and then show multi-coloured 'party lights' which make us happy!

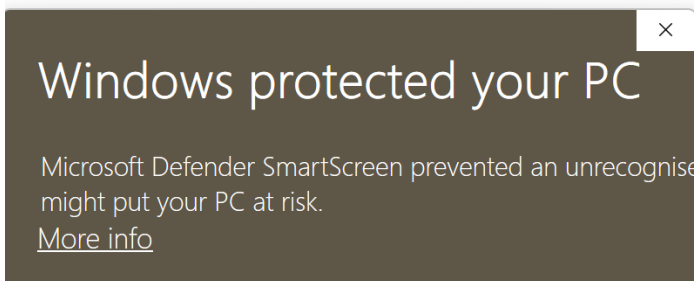
Remove the SD card. This switches off the POD.

## 2. Start the FPOD app

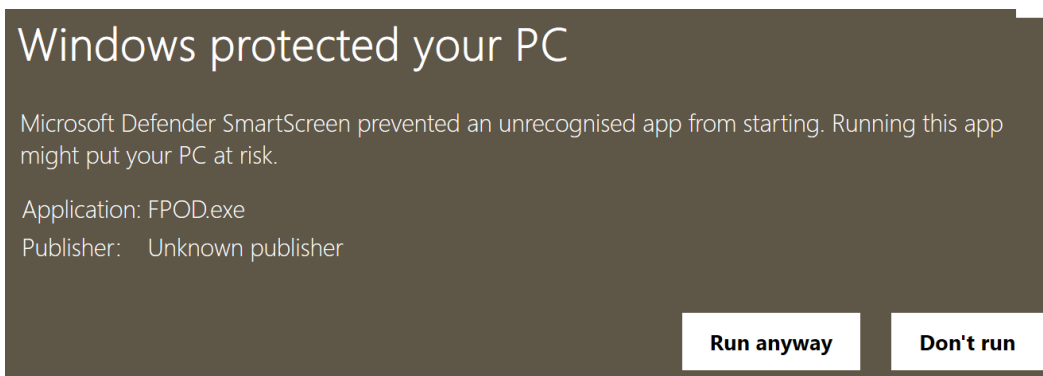
Get the app from [www.chelonia.co.uk](http://www.chelonia.co.uk)

When you have the FPOD.zip right-click on it and select 'Extract All' and you will get a folder called 'FPOD' that you can move anywhere.

It contains  FPOD.exe      The first time you run that you get this:



Click [more info](#) and you get this



Click 'Run anyway'

### 3. Go to the menu

... by clicking the tiny 'menu' button, top left ( or easier ways - see page 1 of the software manual), and a tabbed box occupies much of the screen. Select the 'Read SD' tab on the left.

### 4. Put the SITE NAME into the app:

Giving files a good name is VERY IMPORTANT to your project. Put larger scale identifiers first - here it's 'S' which identifies all south coast files in this project. Then the actual site name. Other deployment information is optional but may be very valuable.

Read SD	Files	Filters +files	Display	Trains	Settings	Navigation
Create .FP1 or .CP1 raw data files on your PC from data on an SD card:						
1: Location- for file name		S Tater Dhu				
2: Deployment notes		Location 500m S of the Bucks				
(saved in data file header)		Notes				
		Water depth m 32		Deployment m 28		GMT
		LAT		LONG		
3:		F-POD: read SD card		FP1 file size limit 3GB		

Click 3 - F-POD: read SD card.

### 5. Select a .CHE data file on the SD card:

Name	Date modified	Type	Size
0FPOD000.CHE	14/05/2022 12:11	CHE File	590 KB

You can pick any .CHE file on the card - the app will find the correct order in which to read them.

You will then be asked to select the destination directory where you will keep your original files.

The reading process will start and can be slow...

### 6. Look at the raw DATA!

In the Files page of the menu click 'Close all files' if you have any open

Click 'Open up to 6 unrelated files'

Read SD	Files	Filters +files	Display	Trains	Settings
Open a file set					
Open up to 6 unrelated files					
Close all files					

and select your new file.

On the left of the screen click 'fit whole time range on screen' and the app will select a display resolution that does that. If it picks 'tide' it's often best to change that to 6hr by clicking on that label.

Select Frequency for the f1 drop-down box in the Parameters section below.

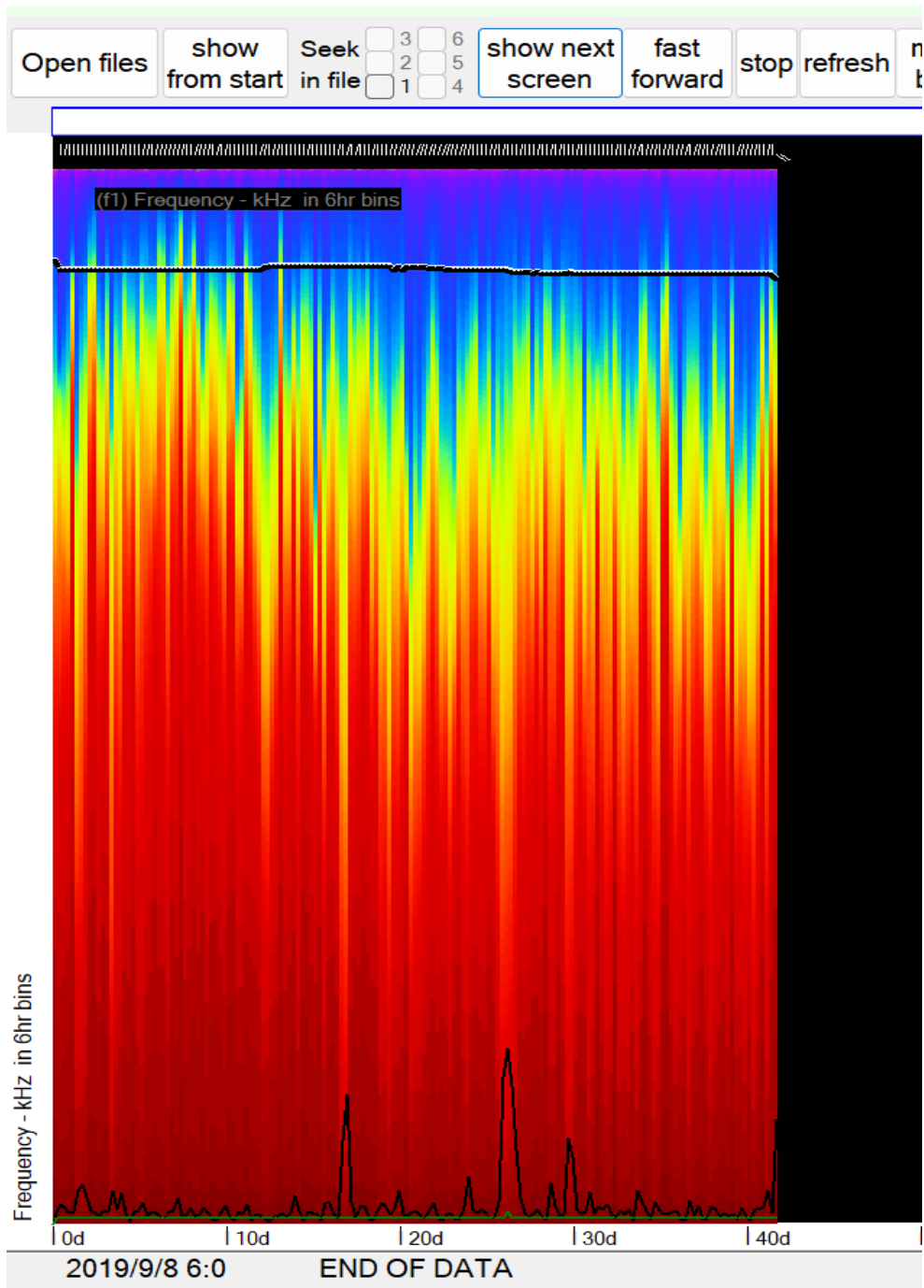
**Time scales:** Hi res: hide  
10us 20us 100us 500us  
1ms 2ms 5ms 10ms  
20ms 50ms 100ms Lo res:  
1min 5min 30min 1hr tide  
6hr 12hr day wk 10d  
fit whole time range on screen

**Parameters:**

f6 Train Q class ▾  
f5 Train Species class ▾  
f4 Clicks/sec F8 ▾  
f3 Train Q class ▾  
f2 Train Species class ▾  
f1 Frequency F9 ▾

Set all to match first  
save current as A restore A  
save current as B restore B

At the top of the screen click 'Show from start' and you will see the changing frequency distribution of all the logged clicks - usually most of this will be noise, but it does show you have data!



## 7. Process the Data.

This is slow - it takes minutes to hours per file, so choose a good time and click 'Detect click trains in FP1 files - runs KERNO\_F classifier' and select your new file..

The figure shows a software interface for 'CLICK TRAIN DETECTION'. At the top, there are tabs: 'Read SD', 'Files', 'Filters +files', 'Display', 'Trains', and 'Settings'. Below the tabs, there is a section titled 'CLICK TRAIN DETECTION' with a subtitle 'See instructional PowerPoints o'. Below this, there is a line of text: 'FP3/CP3 files are the key output of PODs. FP3 files are created here fro'. Below this text, there are several checkboxes: 'skip if FP3 file exists', 'search directories', 'No dolphins', 'No NBHF', and 'No sonars'. At the bottom, there is a large button that reads 'Detect click trains in FP1 files - runs KERNO-F classifier'.

After that you will have an FP3 file. You can open a 'file set' that will include the FP1 and FP3 and can show you cetaceans and boat sonar click trains in the FP3 file.

#### 8. Ask for help

If this is not working contact [nick.trogenza@chelonia.co.uk](mailto:nick.trogenza@chelonia.co.uk) and if you have comments or ideas on improvements please send those too!

xxxxxxxxxxxxx thanks for surviving this xxxxxxxxxxxxxx