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What the F-POD?

Comparing the F-POD and C-POD for monitoring harbour porpoise



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What's this new thing?
 I've seen devices like this before
 but this one looks a little different...

WOW! It's the F-POD!
 Successor to the C-PODs that have
 been monitoring us for years!
 I wonder how it compares?

15 months later...

Similar temporal
 patterns detected on
 both, but consistently
 more detections on the
 F-POD!

Fig.1: Detections per hour on C/F-
 POD per month of the year

Ooh, at a glance it
 seems they reflect the
 same patterns...
 but do the differences in
 detection rates affect
 their ability to identify
 temporal or
 environmental drivers of
 our occurrence?

And the drivers of
 foraging
 behaviour too?

G.A.M.s!
 Generalised Additive Models

Awesome!
 They found similar trends in
 the drivers of our
 occurrence, and effect sizes,
 in both the C-POD & F-POD
 models.

Hmm...
 Not the same story for the
 foraging models..
 Here, the C-POD model
 didn't identify any of the
 temporal trends shown by
 the F-POD.

Unsurprising
 though...
 The F-POD did
 detect 3x as many
 buzzes.

Explanatory variables

At a broad scale, for long-term
 monitoring, the C-POD and F-POD
 are comparable in detecting
 presence and helping us identify
 potential drivers. The F-POD provides
 more detailed information on
 porpoise echolocation, e.g. for
 foraging.

Oh good...this is unlikely to
 change knowledge of our
 habitat use!
 But maybe we are foraging
 more than you think if you're
 using just C-PODs?