

Question	Response	Julie Robidart, Susan Evans (NOC)	Kevan Yamahara (MBARI)	Annette Govindarajan (WHOI)	Sophie Derycke (ILVO, Belgium)
1. Name of lead scientist and institution	Pascal Crow (CSIRO)				
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3. What instrument you operate	Quokka Shipboard Sampler	RoCSI	ESP2G, ESP3G, ESP FIDO	Oceanic-WHOI multsamplers	INESCTEC
4. Would you be prepared to offer the instrument for use on the GFO, as a collaborator	Yes	Yes, but cost for labour during deployments	Yes	yes, although I would like some more information on the deployments and projects before I can fully commit	Yes
5. Instrument availability between July 2026 - March 2028	Yes	Available Feb 2027 - Mar 2028; can be earlier if location coincides with planned 2026 fieldwork	Yes, ESP FIDO (non-submersible) and ESP3G (submersible) - Availability depending on current commitments, but best availability after Jan 2027. More availability for FIDO than 3G based on current schedule through 2027.	yes	ready by July 2026
6. TRL level	8	9	8	not commercially produced	8
7. Sampling volume	user adjustable typically 1 - 5L	Typically 2 - 5L	1L to 2L	adjustable, flow rate of 2 liters/min approximately	1L
8. Sample number per deployment	24 without user involvement	45 - 50	FIDO 144, 3G 60	16	14 (hope to expand to 45)
9. Max sampling depth	shipboard, surface only	6,000m	FIDO (Surface), 3G (300 m)	1,000m	surface
10. Deployment methodology (e.g. from a buoy or ship's winch required)	connection to vessel flow-through	Needs a cable to the platform's power supply, or an external battery.	a. FIDO - ships, docks, piers, etc. b. 3G - AUV or ASV, possibility for mooring	integration on to CTD rosette	mounted on vessel - but can be operated remotely - also have a system that can be deployed on a fixed station
11. Technical knowledge required (e.g. can be used with basic training or requires a specialist technician)	minimal user training	Basic training should be fine but it's useful to have a specialist around if integration needs are non-standard.	a. FIDO - basic training; b. 3G - will require some specialist	engineering support for integration; specialist preferred for operation	? Training certainly required
12. Anything else you think we need to know	intended for sampling from vessels underway	we also have an underway system in development, but it's lower-TRL (will be TRL 7 by August 2026) - specs are same aside from Max Sampling Depth (would be a ship's underway system in the lab)		operator would need to be from my lab, or trained by my lab	can directly compare eDNA data directly to fish catch data if required