

WCPFC non-entangling and biodegradable FAD trial

Information and prospective budget

By

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We think that 50 (fifty) bio-FADs, for each of the companies we hope to work with, would be a good number to test this year. However, this is flexible and can change depending on the number of vessels in the trial.

The project requires sharing of costs in the overall budget. There are essentially three categories of costs: the satellite buoys (purchase and shipping costs), the bio-FADs (purchase of materials and construction, and shipping costs), and satellite transmission costs for the buoys. From the WCPFC side, we propose to cover the cost (and shipping) of the satellite buoys to be attached to the bio-FADs. From your side, you would cover costs related to the FADs, as well satellite transmission.

We estimate the total cost for this in-kind participation by the fishing companies to be in the range of **US\$ 31,800-41,800**:

- US\$ 21,000-31,000 for 50 bio-FADs, which includes costs of the biodegradable materials, shipment and labor (see the table below as provisional budget). We have provided a minimum and maximum expected cost per FAD, which results in the range of bio-FAD costs.
- US\$ 10,800 for the satellite communication fee for the 50 buoys attached to the bio-FADs for 12 months
- Additionally, the fishing company will provide a matching number (i.e. 50) of conventional dFADs and the satellite buoys attached to it, and pay for the satellite communication for 12 months. Note these are typical normal fishing operation costs.
- Provide the echosounder data (of buoys from the 50 bioFADs and the 50 conventional FADs) to SPC for the purpose of data analysis part, with a delay of 3-months for confidentiality purposes.

With this split of costs, we (SPC/WCPFC) are covering between 57 and 63% of the costs; the fishing company between 37 and 43%.

In addition, we have decided that, because of the time-constraints (FADs in water by October) and for statistical power of the analyses, as well as your stated interest in the jelly-FAD design, we are keen to focus the testing on the jelly-FADs. A workshop (potentially several) will be organized prior to the trial to discuss this design and its effectiveness in previous trials to fishers, as well as the logistics of the trials. However, if fishers are interested and depending on the results we get, we would then be happy to discuss and test alternative designs/materials in a second-step.

Please see the next page for a breakdown of the budget.

Table with provisional budget (with minimum and maximum cost for the bio-FAD, following Gala’s recent trials)

Budget (USD) for 50 biodegradable FADs	Minimum		Total costs		Maximum		Total costs	
	Per unit	No.	Company	WCPFC budget	Per unit	No.	Company	WCPFC budget
Purchase of biodegradable material and labour to construct FADs	300	50	15,000	.	500	50	25,000	.
Shipping biodegradable materials	6,000	1	6,000	.	6,000	1	6000	.
Buoys to track biodegradable FADs (\$1000/SLX buoy)	1,000	50	.	50,000	1,000	50	.	50,000
Shipping of buoys	5,000	1	.	5,000	5,000	1	.	5,000
Monthly air-time and buoy communication (\$18 per month/buoy/12 months)	216	50	10,800	.	216	50	10,800	.
Total			31,800	55,000			41,800	55,000