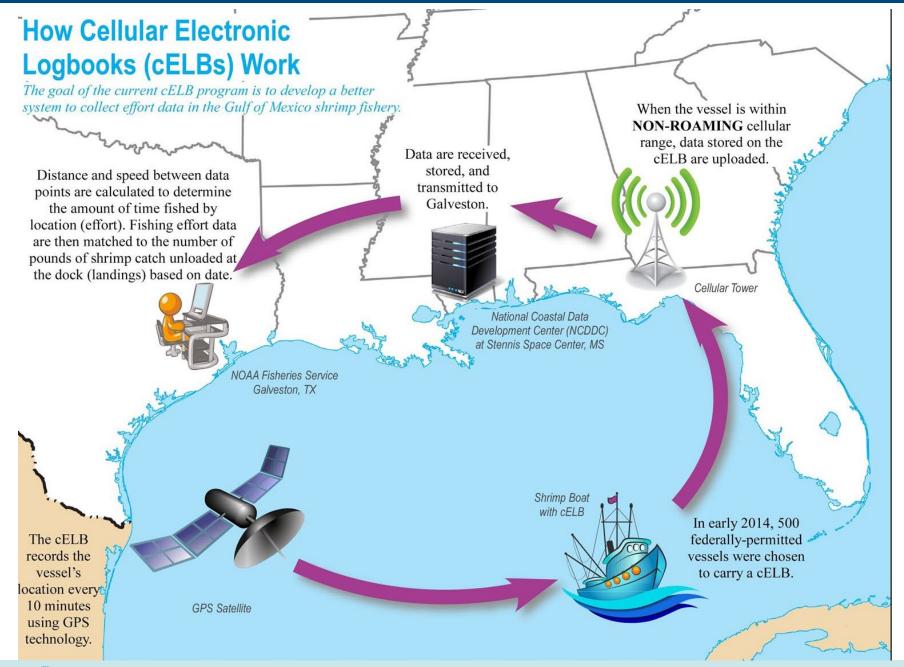


# Shrimp cELB alternatives approved in other fisheries

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## **Key characteristics of cELB**

- Cellular based system
- Designed to monitor the location and movement of vessels
- Sends Global Positioning System position reports to NMFS (or authorized entity)



#### A couple of relevant definitions

#### 50 CFR part 600 subpart Q

- Vessel Monitoring System (VMS) means, for purposes of this subpart, a satellite and/or cellular based system designed to monitor the location and movement of vessels using onboard VMS units that send Global Positioning System position reports to an authorized entity.
- Enhanced Mobile Transceiver Unit, Cellular Based (EMTU-C) means an EMTU that transmits and receives data via cellular communications, except that it may not need a dedicated message terminal and display component at the time of approval as explained at §600.1502(a)(6). An EMTU-C only needs to be capable of transmission and reception when in the range of a cellular network (MTUs (one way transmission) are no longer approved for new installations on VMS vessels).



#### **Units approved in commercial fisheries**

	Rock	Gulf	GARFO	West	Alaska	Pacific	Atlantic
Unit	Shrimp	Finfish		Coast		Islands	HMS
Addvalue iFleetONE	Υ	Υ	Υ	Υ	Υ	Υ	Υ
FariaWatchDog 750VMS (with Messaging							
Terminal)	Υ	Υ		Υ	Υ	Υ	Υ
McMurdo Omnitracks FMCT/G	Υ	Υ					Υ
Nautic Alert, Insight X2	Υ	Υ		Υ	Υ	Υ	Υ
Network Innovations - Sailor VMS Gold <sup>1</sup>	Υ	Υ			Υ	Υ	Υ
Network Innovations – Sailor VMS Gold Plus <sup>1</sup>	Υ	Υ		Υ	Υ	Υ	Υ
Network Innovations Sailor Platinum			Υ	Υ			
Omnicom Global (3G) EMTU <sup>1</sup>			Υ	Υ			
Omnicom McMurdo FMCT/G	Υ	Υ					Υ
Omnicom VMS			Υ	Υ			
Skymate I1500 VMS <sup>1</sup>	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Skymate m1600 VMS	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Woods Hole Group - Thorium TST A2.01	Υ	Υ		Υ	Υ	Υ	Υ
Woods Hole Group - Thorium LEO A2.0 <sup>1</sup>	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Woods Hole Group - Triton Advanced	Υ	Υ	Υ	Υ	Υ	Υ	Υ

<sup>&</sup>lt;sup>1</sup> Manufacturers are phasing out these older versions



#### **Units approved in For-hire fisheries**

	Gulf For-Hire VMS	Gulf For-Hire VMS + Forms
Unit		
AddValue iFleetONE		Υ
Faria WatchDog 750VMS (with Messaging Terminal)		Υ
Nautic Alert, Insight X2	Y	
Omnicom McMurdo FMCT/G	Υ	
Skymate I1500 VMS <sup>1</sup>		Υ
Skymate m1600 VMS		Υ
Woods Hole Group - Thorium TST A2.01		Υ
Woods Hole Group - Thorium LEO A2.0 <sup>1</sup>		Υ
Woods Hole Group - Triton Advanced		Υ



<sup>&</sup>lt;sup>1</sup> Manufacturers are phasing out these older versions

#### Possible options for "quick" type approval

Satellite	Cellular/	hardware cost	Transmission	Installation type
	Hybrid	estimate	cost estimate	
Υ		\$3,000	?(no response)	marine electrician
			\$20/month	
	Υ	\$1,995	after 1st year <sup>1</sup>	"Plug and Play"
Υ		\$3,150	\$100-200	marine electrician
Υ		\$300-500	\$30/month	"Plug and Play"
Υ		\$2,599	\$150/month	"Plug and Play"
		\$2,095	\$150-	
Υ		(introductory) <sup>2</sup>	300/month	"Plug and Play"
		\$1,595	\$150-	
Υ		(Introductory) <sup>2</sup>	300/month	"Plug and Play"
			No Quote	
			without	
Υ		\$3,000	regulations	marine electrician
	Υ	\$500	\$350/year	"Plug and Play"
Υ		\$3,000	\$150/month	marine electrician
	Y Y Y Y Y	Y Y Y Y Y Y Y Y Y Y Y Y	Hybrid       estimate         Y       \$3,000         Y       \$1,995         Y       \$3,150         Y       \$300-500         Y       \$2,599         Y       \$1,595         Y       (Introductory)²         Y       \$3,000         Y       \$500	Hybrid         estimate         cost estimate           Y         \$3,000         ?(no response)           \$20/month         \$20/month           after 1st year¹           Y         \$3,150         \$100-200           Y         \$300-500         \$30/month           Y         \$2,599         \$150/month           Y         \$1,595         \$150-           Y         (Introductory)²         300/month           No Quote         without           Y         \$3,000         regulations           Y         \$500         \$350/year

<sup>&</sup>lt;sup>1</sup>Free the first year



<sup>&</sup>lt;sup>2</sup>First unit purchased

<sup>\*</sup>pending approval for SEFIER

#### **Type Approval**

- Communications security-secure from tampering or interception
  - transmitted by a secure means that prevents interception, spoofing, or viewing by unauthorized individuals
- Field and Technical Services-24/7 field or technical support
- Unit durability and reliability-unit, cabling and antenna must be resistant to salt, moisture, and shock associated with sea-going vessels
- Protection of PII-type-approval holder is responsible for ensuring PII and other protected information is handled in accordance with applicable state and Federal law

https://www.ecfr.gov/cgi-bin/text-idx?SID=e4e761243c0f45783e0bf0f36e411157&mc=true&node=sp50.12.600.q&rgn=div6#se50.12.600\_11507



### Reimbursement process

- Purchase, install, and activate a NOAA OLE Type-Approved VMS unit.
- 2. Contact the NOAA OLE VMS Helpdesk at 1.888.219.9228 to initiate the confirmation process and obtain a four-digit confirmation number for reimbursement.
- 3. Complete and sign the VMS Reimbursement Request Form.
- 4. Mail, fax or email the reimbursement request form, a copy of the paid itemized sales invoice, a copy of the Federal Fisheries Permit, a copy of the vessel's Certificate of Documentation and/or State Registration to Pacific States Marine Fisheries Commission

https://www.psmfc.org/program/vessel-monitoring-system-reimbursement-program-vms?pid=17



#### **Conclusions**

- There are a lot of options out there to achieve the goal providing effort data
- Agency prefers to write specifications for type approval rather than require specific vendors
- Any option needs to meet type approval
- Purchase (but not installation) is often reimbursable
- There are some interesting developments on the horizon.

