

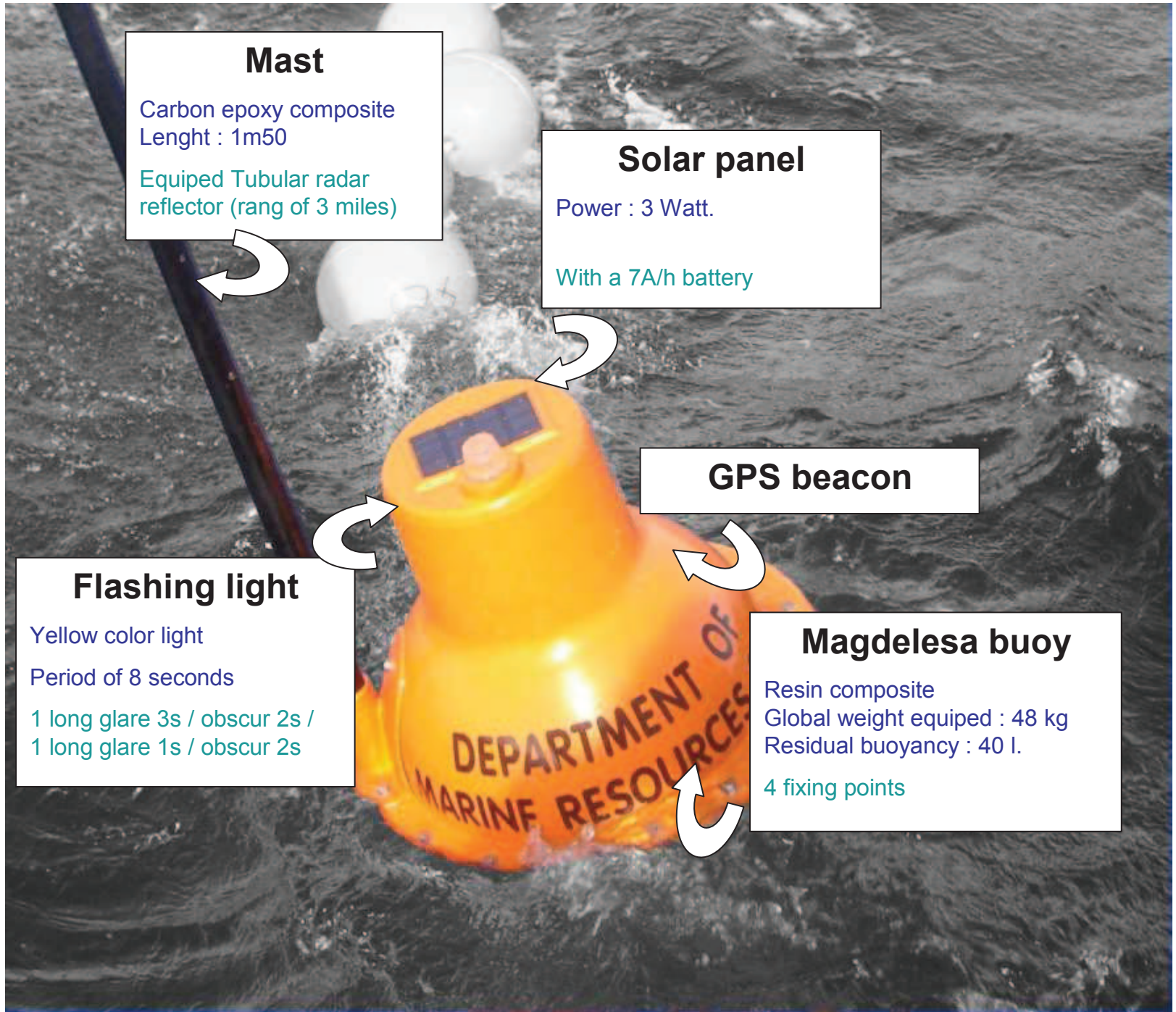


Description of MAGDELESA FAD

PLK Marine

Ifremer

<http://www.magdelesa.eu>



Mast

Carbon epoxy composite
Lenght : 1m50

Equiped Tubular radar
reflector (rang of 3 miles)

Solar panel

Power : 3 Watt.

With a 7A/h battery

GPS beacon

Flashing light

Yellow color light

Period of 8 seconds

1 long glare 3s / obscur 2s /
1 long glare 1s / obscur 2s

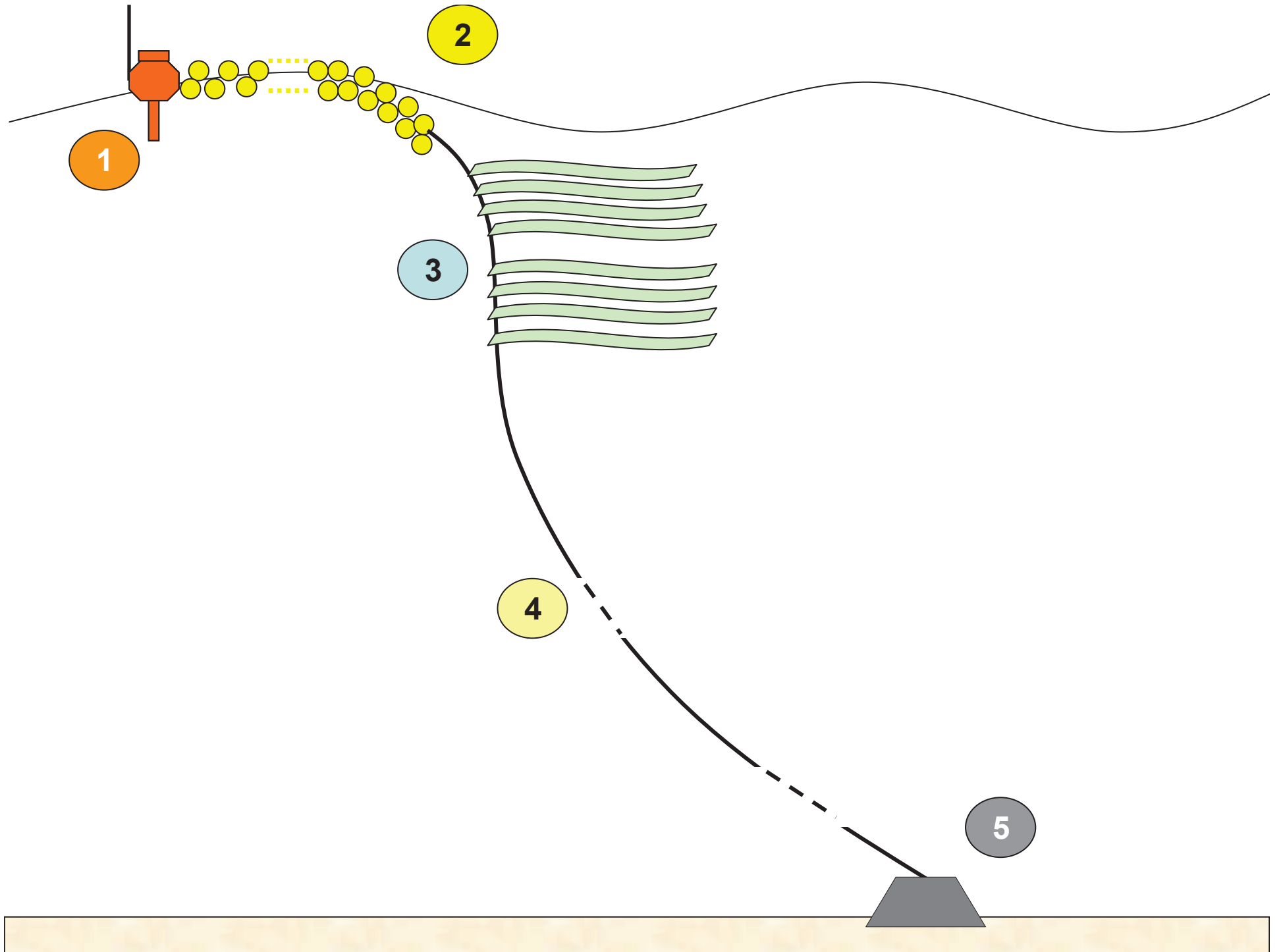
Magdelesa buoy

Resin composite

Global weight equiped : 48 kg

Residual buoyancy : 40 l.

4 fixing points



Technical description of the PLK Marine FAD installation, Magdelesa Project

Component	Equipment	Material	Specifications
1	MAGDELESA float	Buoy	Resin Composite Total weight (equipped) 48 kg. Residual buoyancy 40 litres Orange color 2 half spheres combined by bolting up, wax and gel-coat
		Fixing points	Resin Composite Numbre : 4
	Float equipment	Mast	Carbon-epoxy Composite Lenght 1,5 meter
		Radar reflector tubular	Range 3 miles
		Solar panel	Power 3 Watts
		Yellow light	Period 8 secondes Long glare 3s. Obscur 2s. Glare 1s. Obscur 2s.
		Electronic circuit of the light	
		Battery	Capacity 7 A/h
GPS beacon	6 satellite diary transmissions		
Connection Float / Chain	Installation		Double mooring by fixing points
	Rope (Mixed + sheath)	Mixed cable polypropylen/galva	Diameter 12mm.
		Tricoflex sheath	Diameter 15mm.
	Tag/Shackle/Tag/Anode	Tag of 20	
Shackle 3/4 inch		galvanised steel "lifting quality"	
	Zinc anode	Weight 940g. Fixed on tag	
2	Chain of buoys	Nokalon buoys with central hole	Resin Composite Weight 3kg. Residual buoyancy 8 litres Resistance to immersion : 600 meters Quantity : 30 to 50 buoys depending on anchoring depth
		Rope (Mixed + sheath)	Mixed cable polypropylen/galva
	Tricoflex sheath		Diameter 15mm.
	Connection Chain / Aggregator	Anode/Tag/Shackle/Tag/Anode	Tag of 20
Shackle 3/4 inch			galvanised steel "lifting quality"
Zinc anode			Weight 940g. Fixed on tag
3	Aggregator	Rope	Mixed cable polypropylen/galva Diameter 14mm. Lenght 300 meters
		Aggregators	3 to 4 aggregators of 2,5 meters of highness stitched on mixed cable Lenght 10 meters, fold in two parts then stitched on a PP rope (diameter 14mm)
Connection Aggregator / Mooring line	Spliced node without tag node link Reinforced system with diminutions		Equiped with zinc anode of 940 g
		Polypropylen rope	Diameter 14mm. 4 rope turns and some double-keys
		Polypropylen rope	Diameter 14mm. node lenght : 30 mètres
4	Mooring line	Polypropylen rope	Diameter 14mm. Longueur 200 meters
		Liaison	Long splice
		Steely polypropylen rope	Diameter 14mm. Lenght 200 meters Sealing : 15 kg/100meters
		Connection	Long splice
		Polypropylen rope	Diameter 14mm. Lenght depending on the anchoring depth
5	Connection Mooring line / Pig iron	Tag of 20	
		Shackle 3/4 inch	galvanised steel "lifting quality"
		Zinc anode	
Pig iron	Pig ring	steel "lifting quality"	CMU 8.5 metric ton
	Pig iron	Concrete and reinforcing bar	Approximative weight 800kg. Guadeloupe concrete density : 2,1 Weight must be superior than 20% of global buoyancy

Conversion

1 meter = 3,281 ft
1 gramme = 0,035 once
1 kg = 35 onces

