

# PRIMARY PRODUCTION MODELS IN THE CCLME REGION

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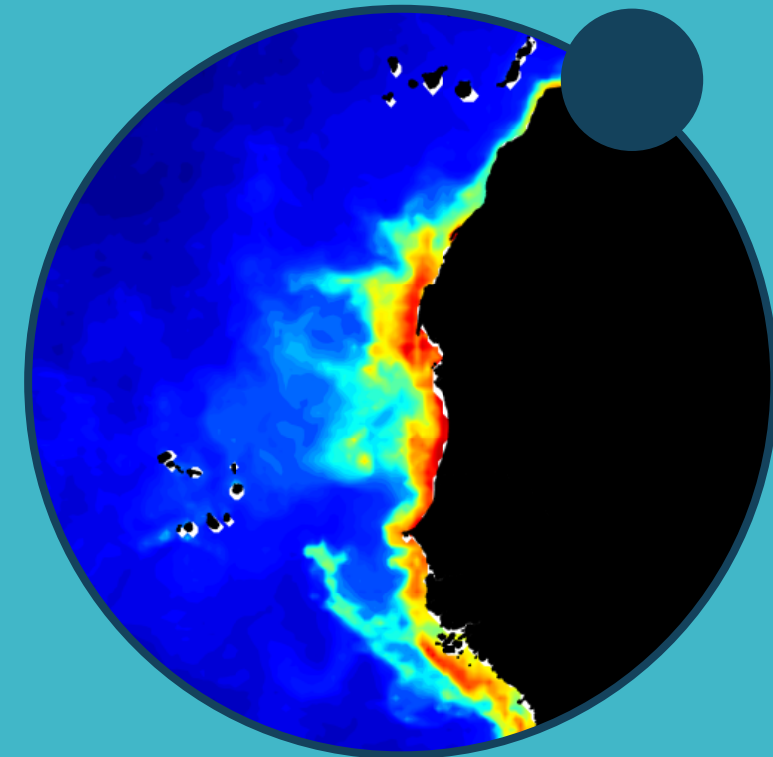
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IOC consultant

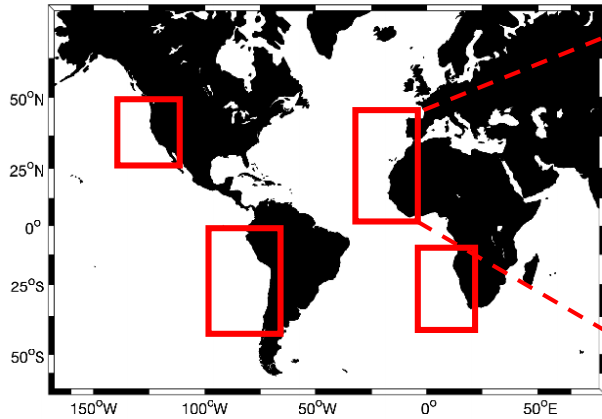
*Project: Enhancing oceanography capacities in  
the CCLME Western Africa countries – Phase III*

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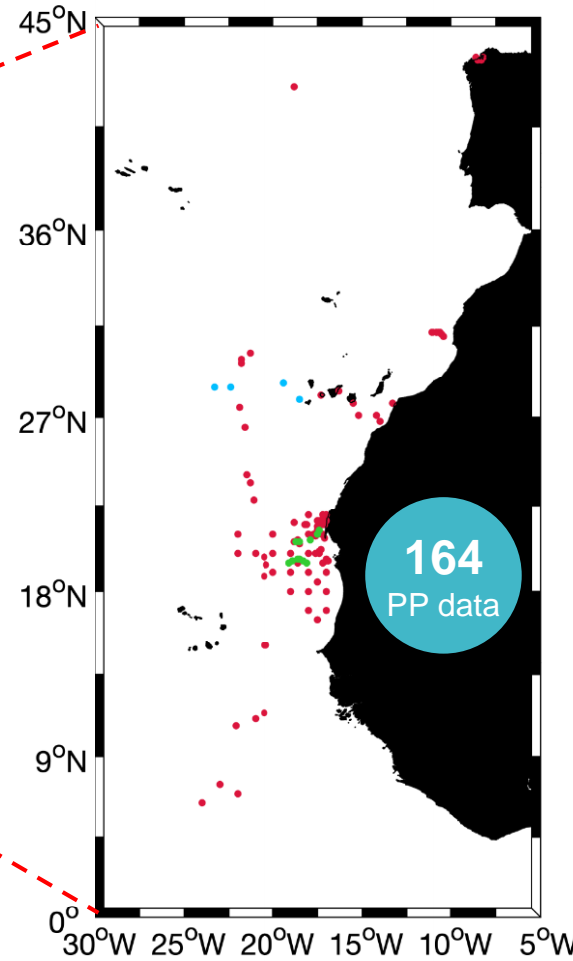


# Database – Primary production in EBUS

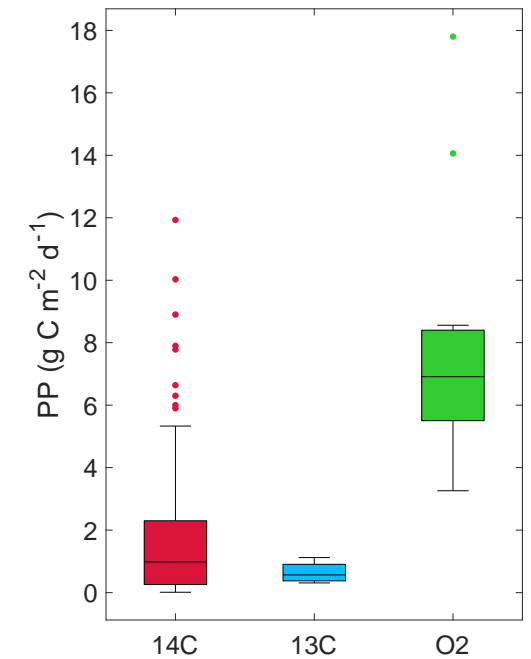
## Compilation of *in situ* measurements



CCLME



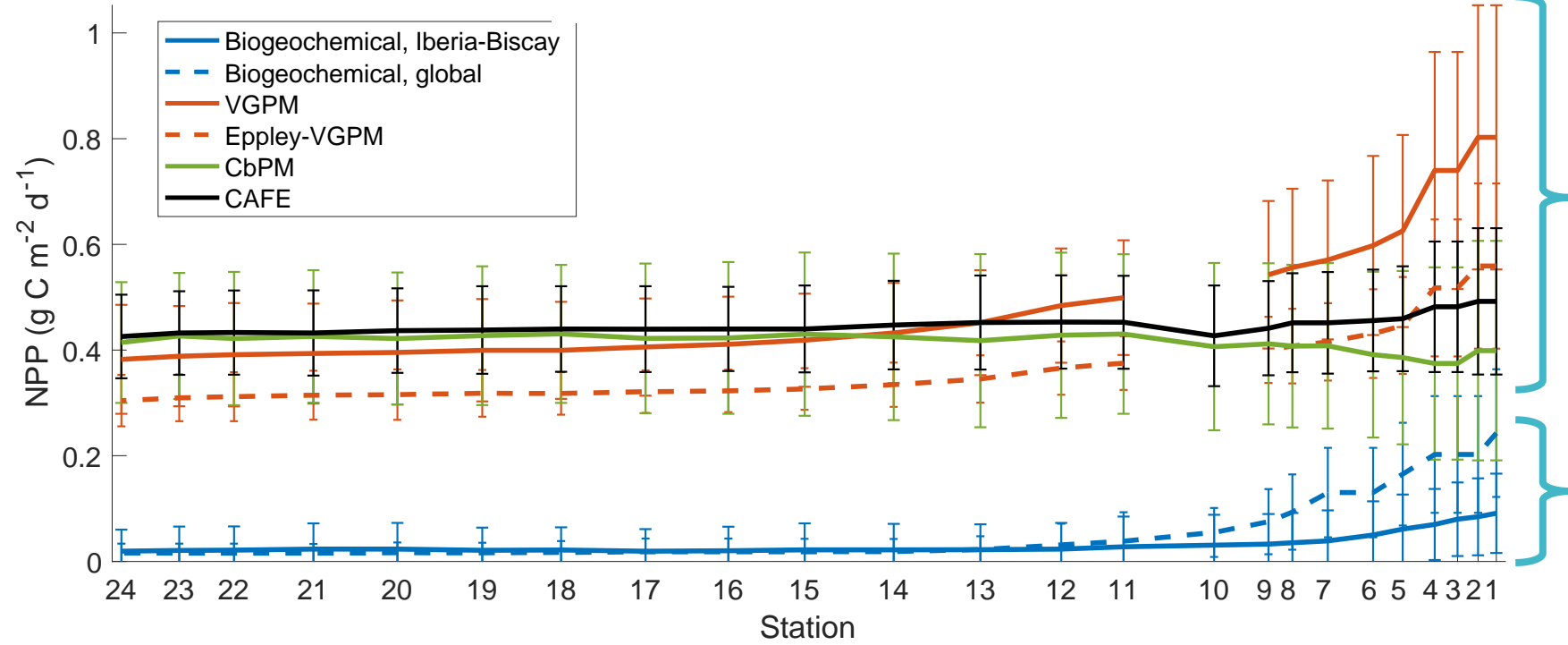
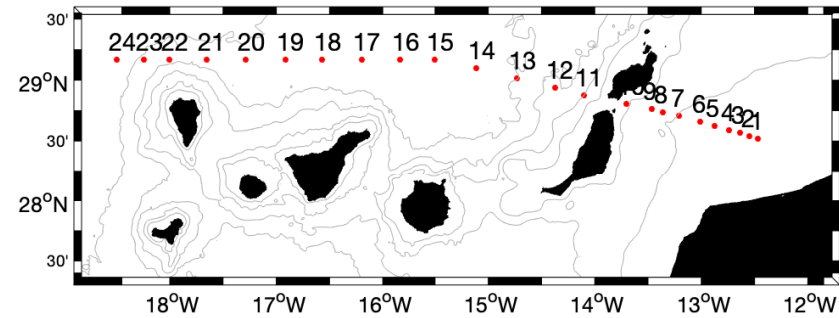
- <sup>14</sup>C method
- <sup>13</sup>C method
- [O<sub>2</sub>] method



327 PP data from 20 studies

	A	B	C	D	E	F	G	H	I	J	K	L	M	
1	Reference	Latitude	Longitude	Date	EBUS	Region	Primary production	Method	Incubation method	Incubation time	Sampling time	Sampling depths	Observations	
2		°N	°E	Month Year			g C m <sup>-2</sup> d <sup>-1</sup>		IS=in situ; SIS=simulated in situ; AL=artificial light incubators (illuminated by lamps)					
3	Estrada, 1980	21.0	-22.0	nov 1975	Canary	NW-African upwelling	0.16	14C	SIS / AL	2h	Not specified	0, 10, 30 m (occasionally 0, 30, 50 m)		
4	Estrada, 1980	20.0	-21.0	nov 1975	Canary	NW-African upwelling	0.20	14C	SIS / AL	2h	Not specified	0, 10, 30 m (occasionally 0, 30, 50 m)		

# Case study – Primary production in CCLME

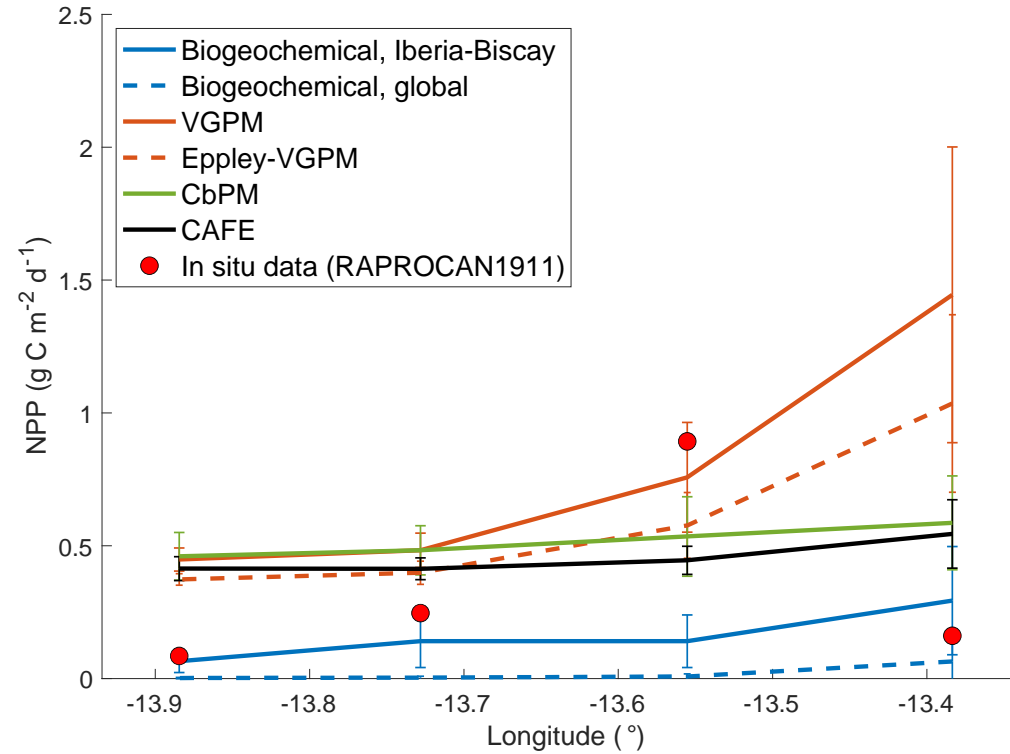
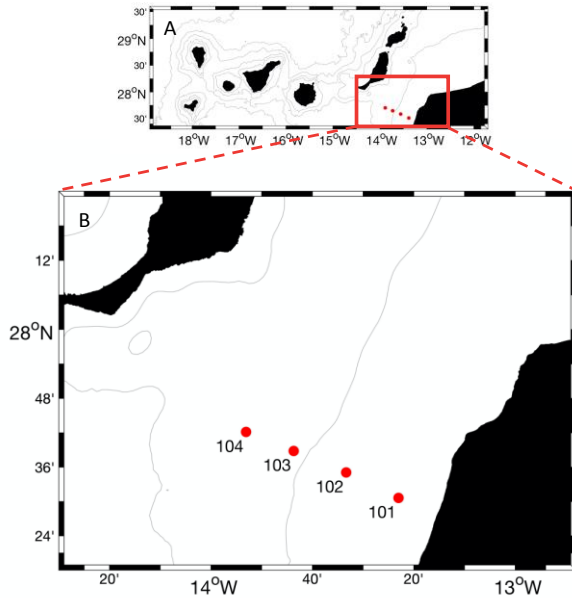


## PP models:

**Satellite-based models**  
(SeaWiFS, MODIS)  
*Data provided by Oregon State University*

**Biogeochemical models**  
(PISCES-v2)  
*Data provided by Copernicus Marine Environment Monitoring Service*

# Results – Validation with *in situ* data



## Future works:

- Collect more *in situ* data; time series
- **Validation** of a model; corrections for region?
- **Temporal trends**

**Thank you!**

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