

22ND FEBRUARY 2024
DEPARTMENT OF PHYSICS, FACULTY OF SCIENCE, UNIVERSITY OF SPLIT

PHOTOCLIM KICKOFF MEETING
FRAGILITY OF MARINE PHOTOSYNTHESIS UNDER
CLIMATE CHANGE

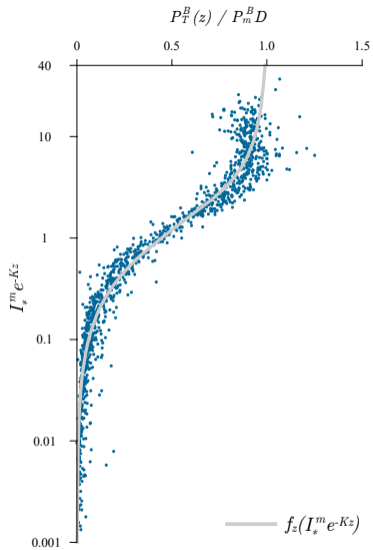
In situ time series of primary production

Stončica	1962	
Kaštelanski zaljev	1962	
Bermuda Atlantic Time Series	1988	bats.bios.edu
Hawaii Ocean Time Series	1988	hahana.soest.hawaii.edu/hot/hot-dogs
Monterey Bay	1988	www.mbari.org/bog
La Coruña	1990	www.seriestemporales-ieo.com
Western Channel Observatory	1992	www.westernchannelobservatory.org.uk
Cariaco	1996	imars.marine.usf.edu/car

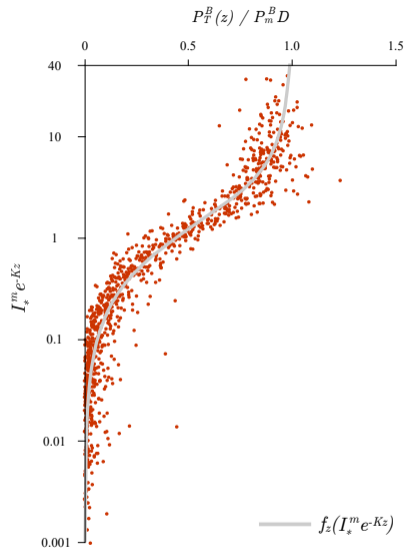
+ 1148 annual time series from 483 locations
(Cloern et al., 2014)

+ 125 time series longer than 8 years with more than 10 measurements per year
(Winder & Cloern, 2010)

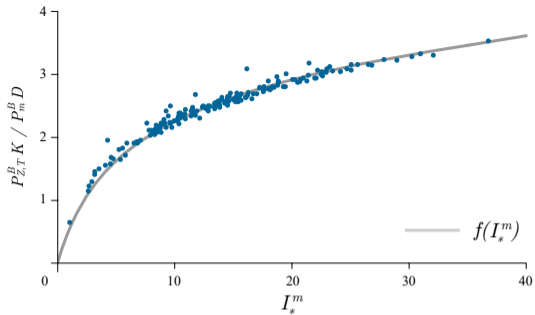
Past work on model data comparisons



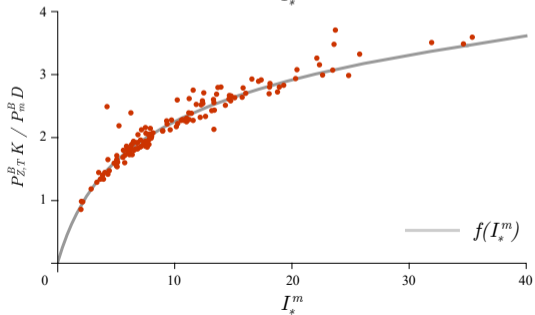
Hawaii R^2 **0.97**



Bermuda R^2 **0.95**



Hawaii R^2 **0.99**



Bermuda R^2 **0.97**

Planned project work on data analysis

Step 1

Obtaining the raw data

Step 2

Going from raw data to analysis ready data