



Costa Rica

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RONMAC Program

SINAMOT (National Tsunami Monitoring System)
National University

Tide Gauges

Papagayo
2014 -

Puntarenas
1957-2003

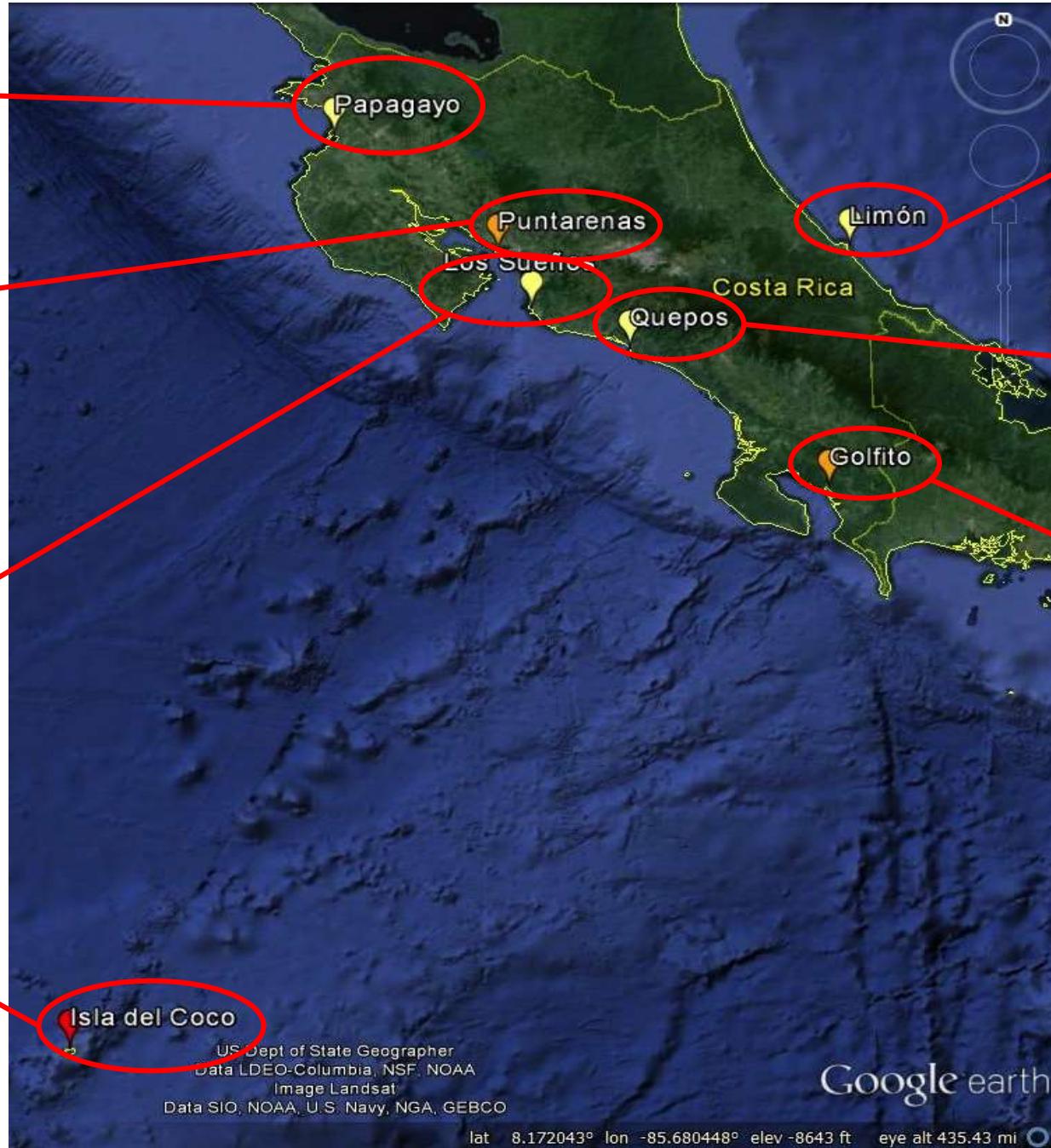
Los Sueños
2013 -

Isla del Coco
March 2018

Limón
UHSLC
1940 -

Quepos
UHSLC
1941 -

Golfito
1998 - 2003



Papagayo

Pressure
Aquatruk

Puntarenas

Pressure
Aquatruk

Los Sueños

Pressure
Aquatruk

Isla del Coco

Pressure
Radar

Limón

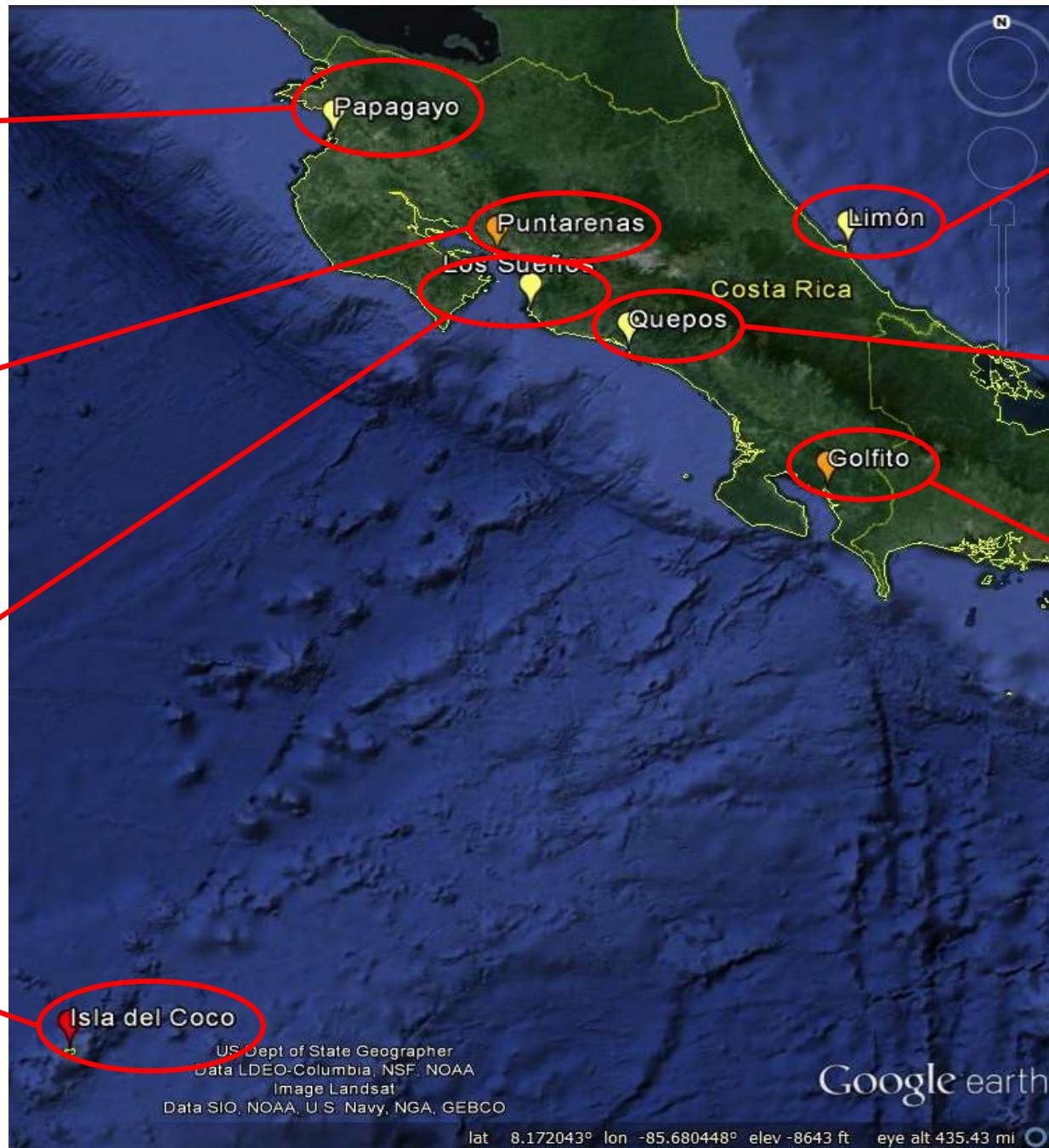
Pressure
Radar

Quepos

Pressure
Radar

Golfito

Pressure
Aquatruk

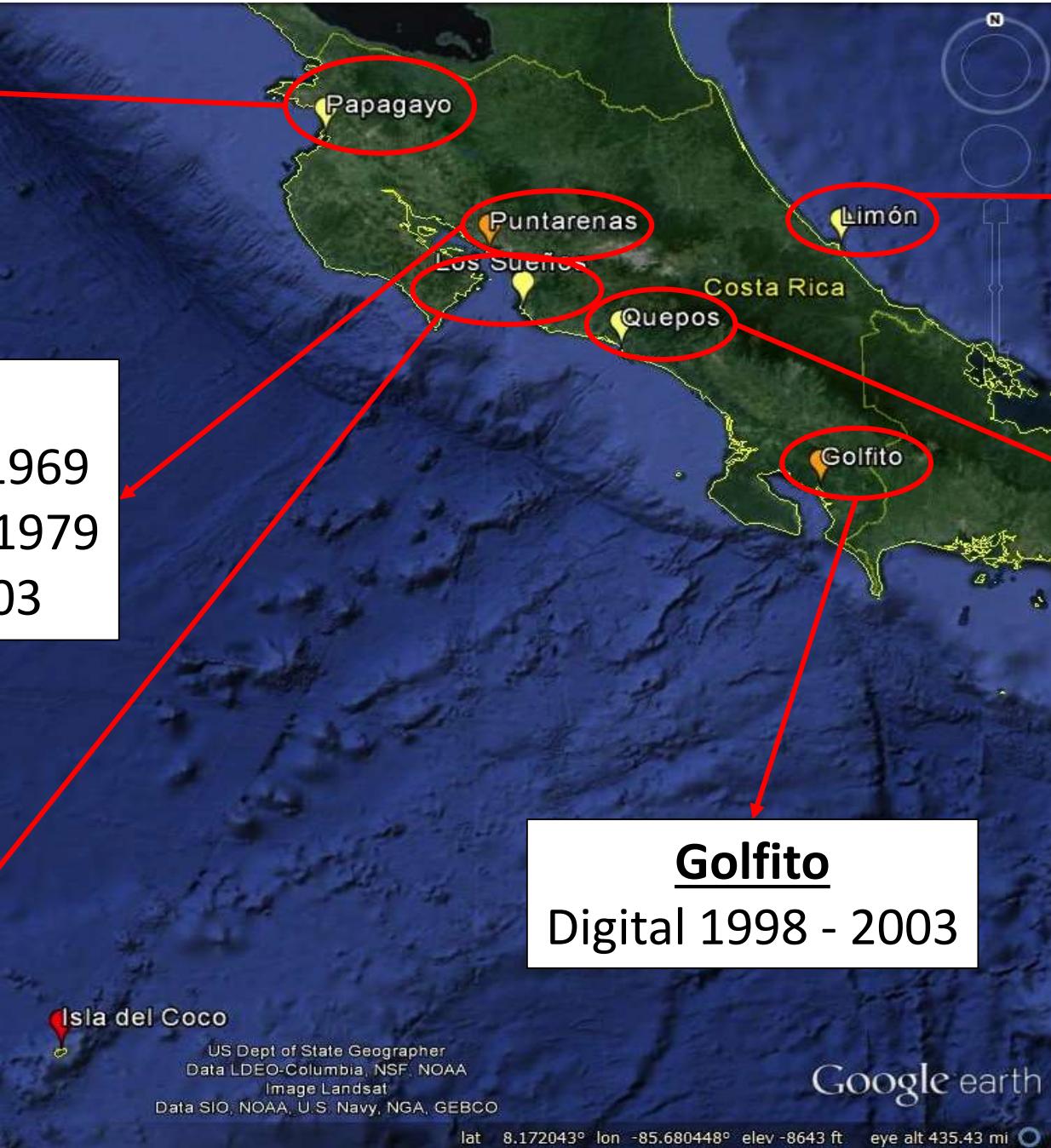


Record rate: 1 min
Trans. rate: 5 min

Data

Papagayo

Digital 2014 - now



Limón

Hourly Av. 1940 – 1969
Paper Rolls 1971 – 1993
Digital 1997 – 2001
2009 - now

Puntarenas

Hourly Av. 1957 – 1969
Paper Rolls 1969 – 1979
Digital 1995 - 2003

Los Sueños

Digital 2013 - now

Golfito

Digital 1998 - 2003

Quepos

Hourly Av. 1941 – 1969
Paper Rolls 1969 – 1996
Digital 1999 – 2003
2006 – 2007
2009 - now

Analogic data – before 1969

- Started by USGS with IGN as local partner
- IGN sent the paper rolls to USGS, they processed them and sent them back to IGN
- IGN stored until 1969 when they decided to burn them to make room for new rolls
- They started to storage them again until 1980's when UNA collected them and SerMar Program was created (Mareographic Service)
- Data before 1969 **only hourly averages and maximum tsunami heights**

Paper rolls – after 1969

Digital data

Predicciones Mareales
Altura en Pies
Referidas a Nivel de Bajamaras
AÑO : 2017
Estación : LIMON

Diciembre Hora Altura

Do	01:08	-00.22
31	09:31	01.03
	17:33	-00.55
	23:59	-00.15

Enero Hora Altura

Lu	02:00	-00.18
1	10:23	01.06
	18:25	-00.61

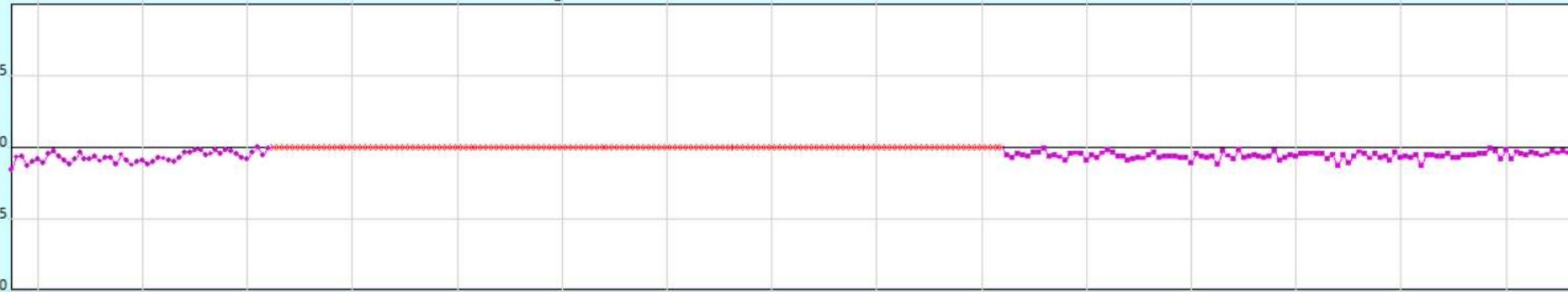
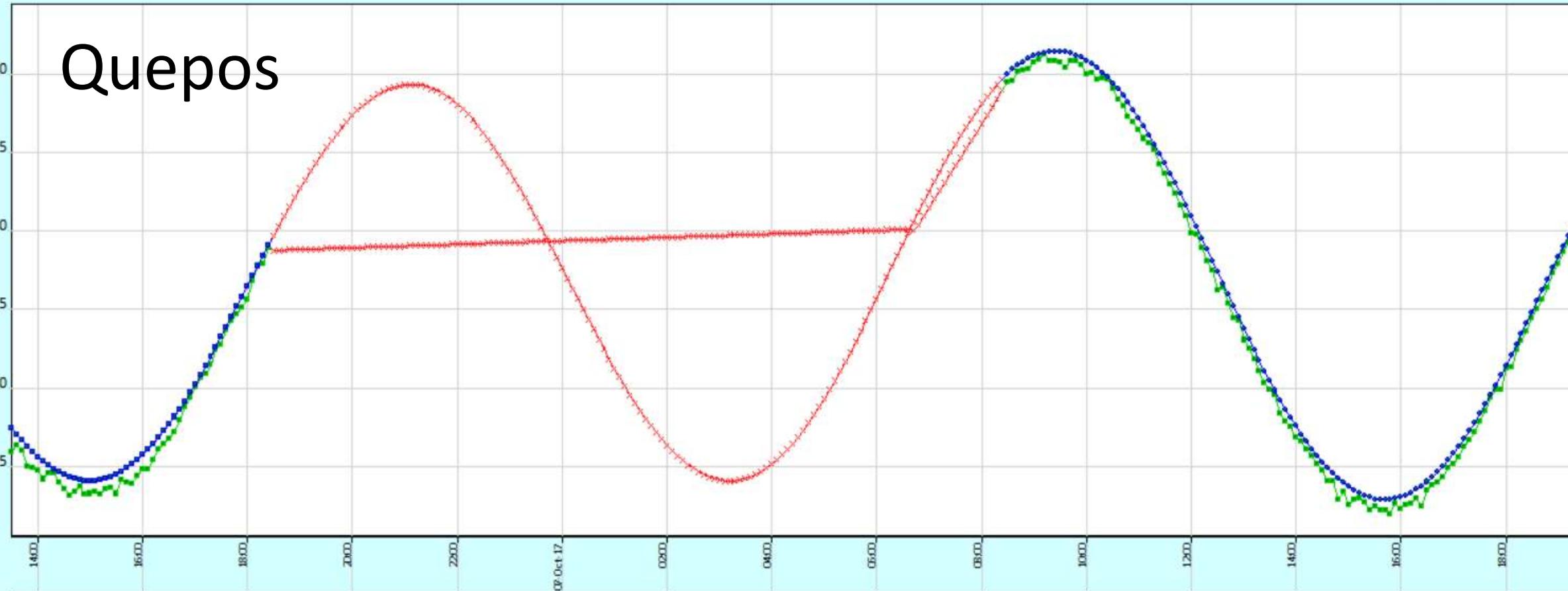
Ma	01:34	-00.09
2	03:28	-00.09
	11:21	01.03
	19:18	-00.64

Mi	02:29	00.05
3	05:09	-00.02
	12:27	01.00
	20:08	-00.64

Ju	03:14	00.18
4	06:34	00.01
	13:37	00.93
	20:55	-00.64

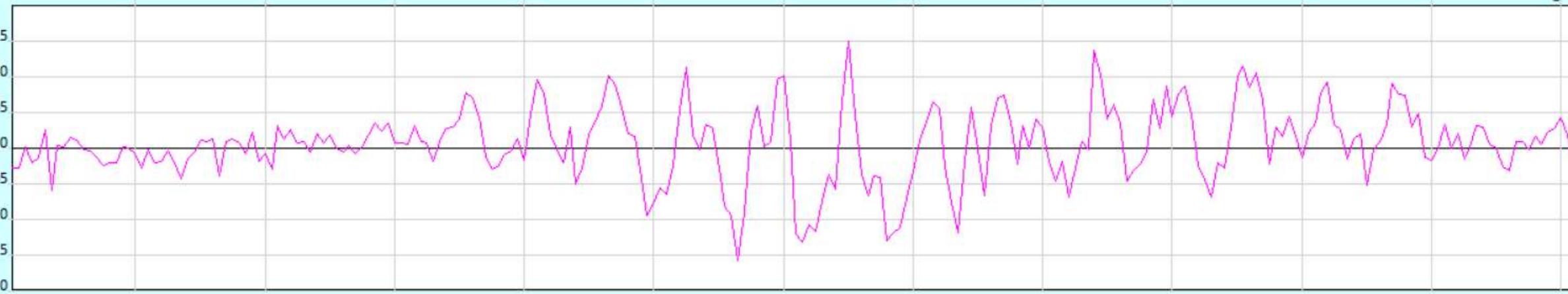
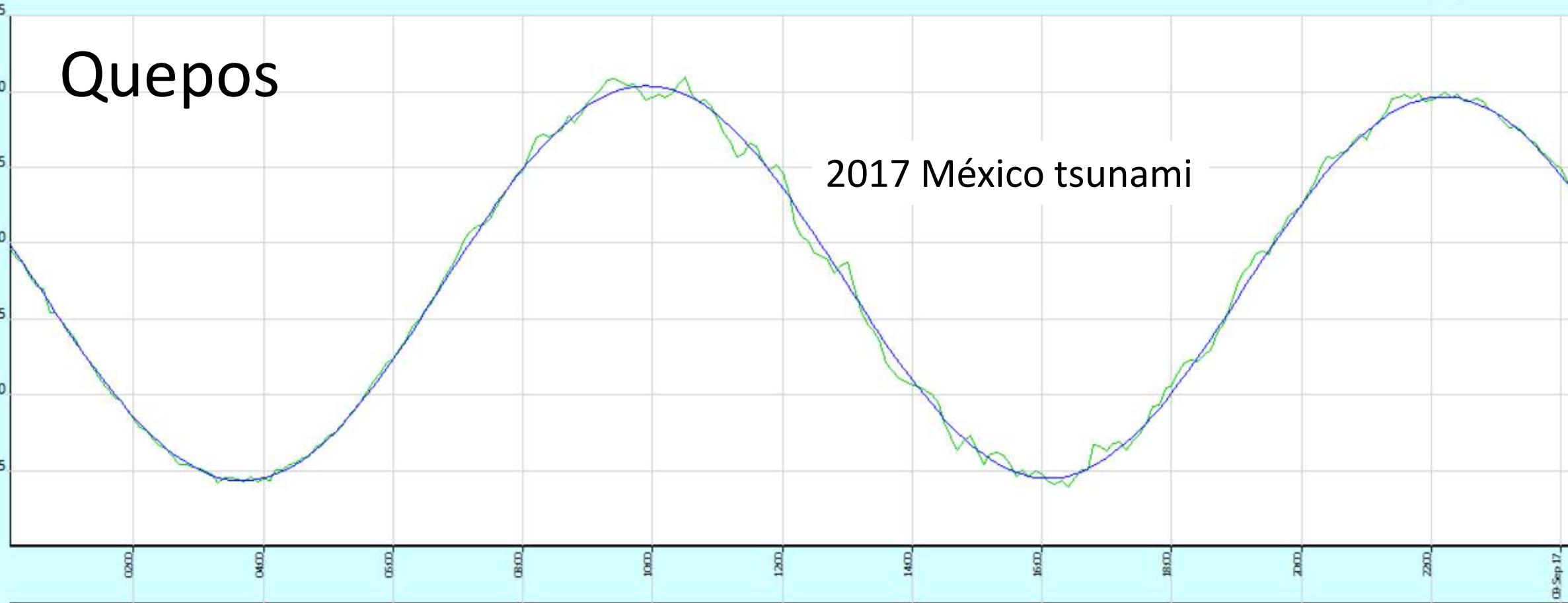
TASK processing

Quepos

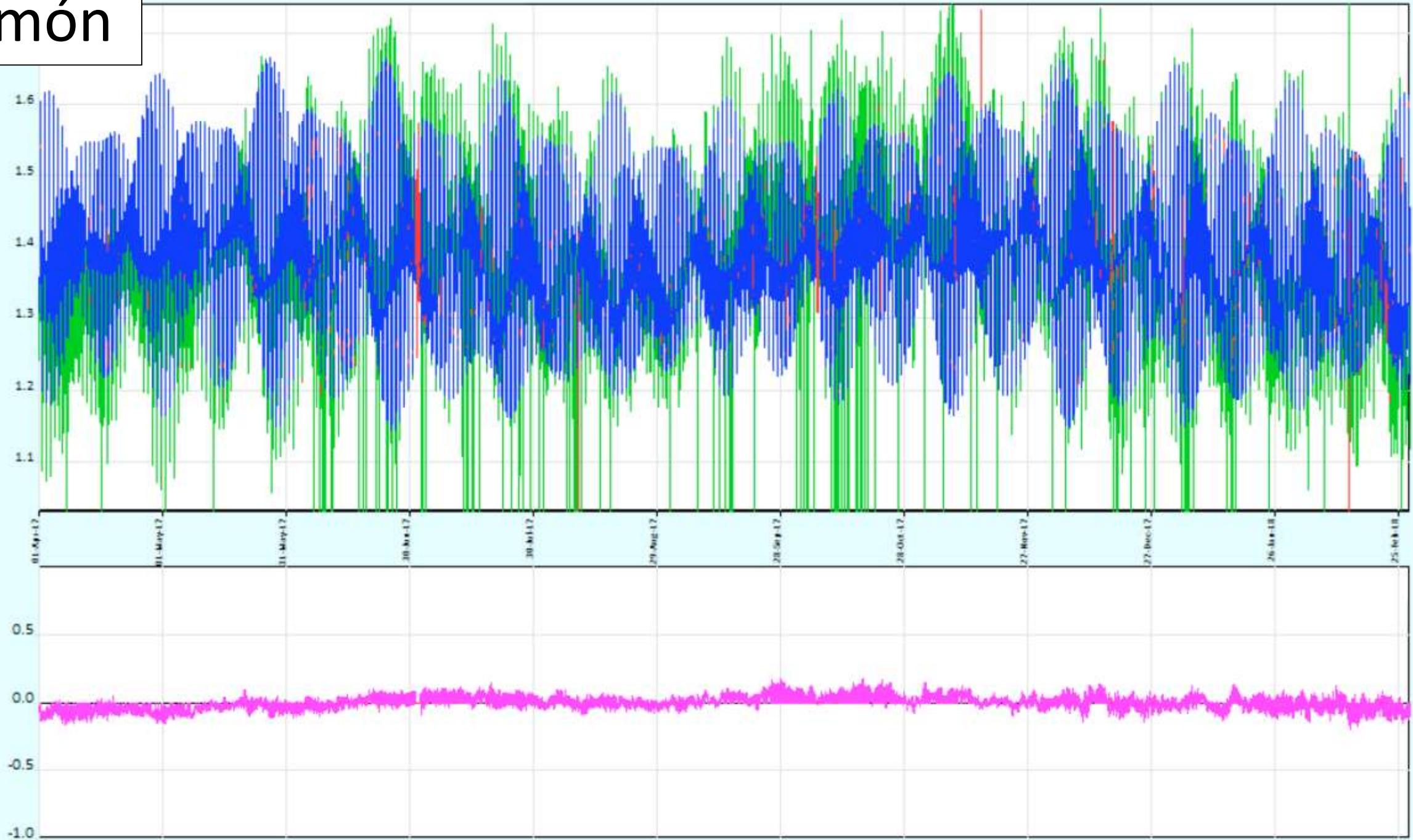


Quepos

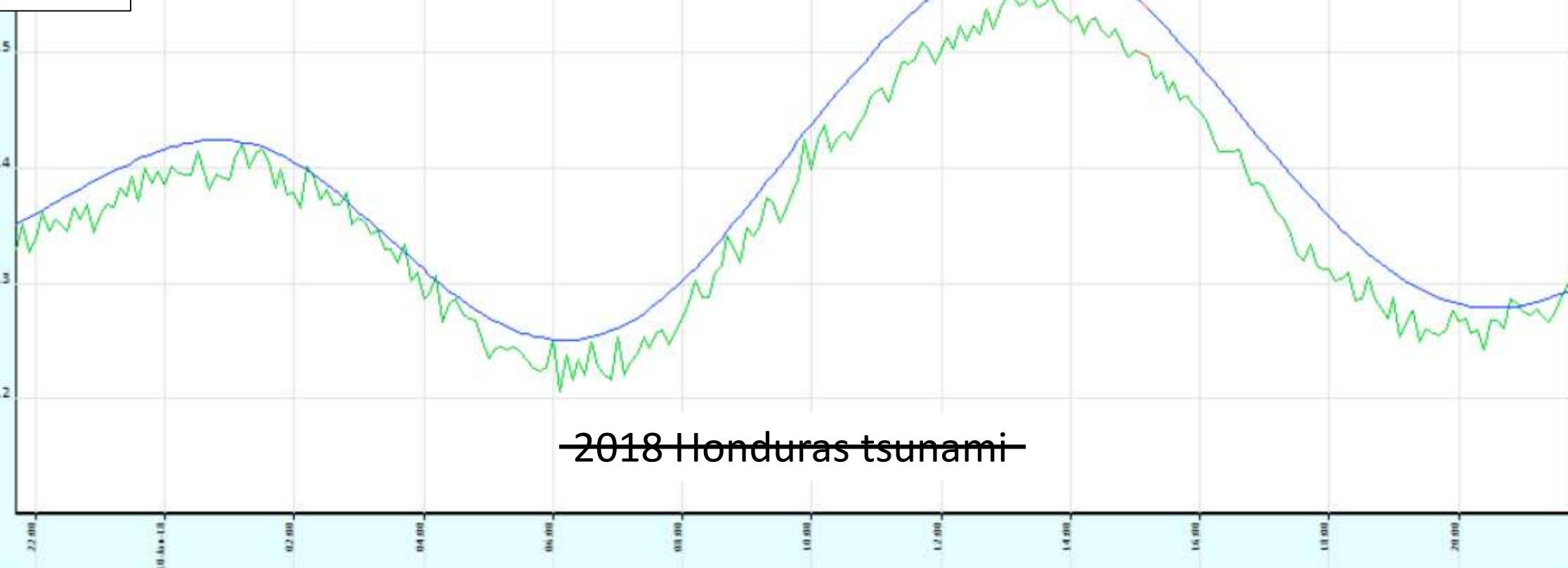
2017 México tsunami



Limón



Limón



Thank you!!!



Esterillos, Central Pacific