



# Report to DCS

## Hydrographic and Oceanographic Service of the Chilean Navy

**Juan Pablo Jorquera G.**

**Head of Monitoring of real time equipment.**

*Sea level stations, wave/tsunami buoy and glider.*

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## Topics

- *Sea level station*
  - *Sensors,*
  - *Telemetry,*
  - *Study Case,*
- *Benefit of GOES service.*

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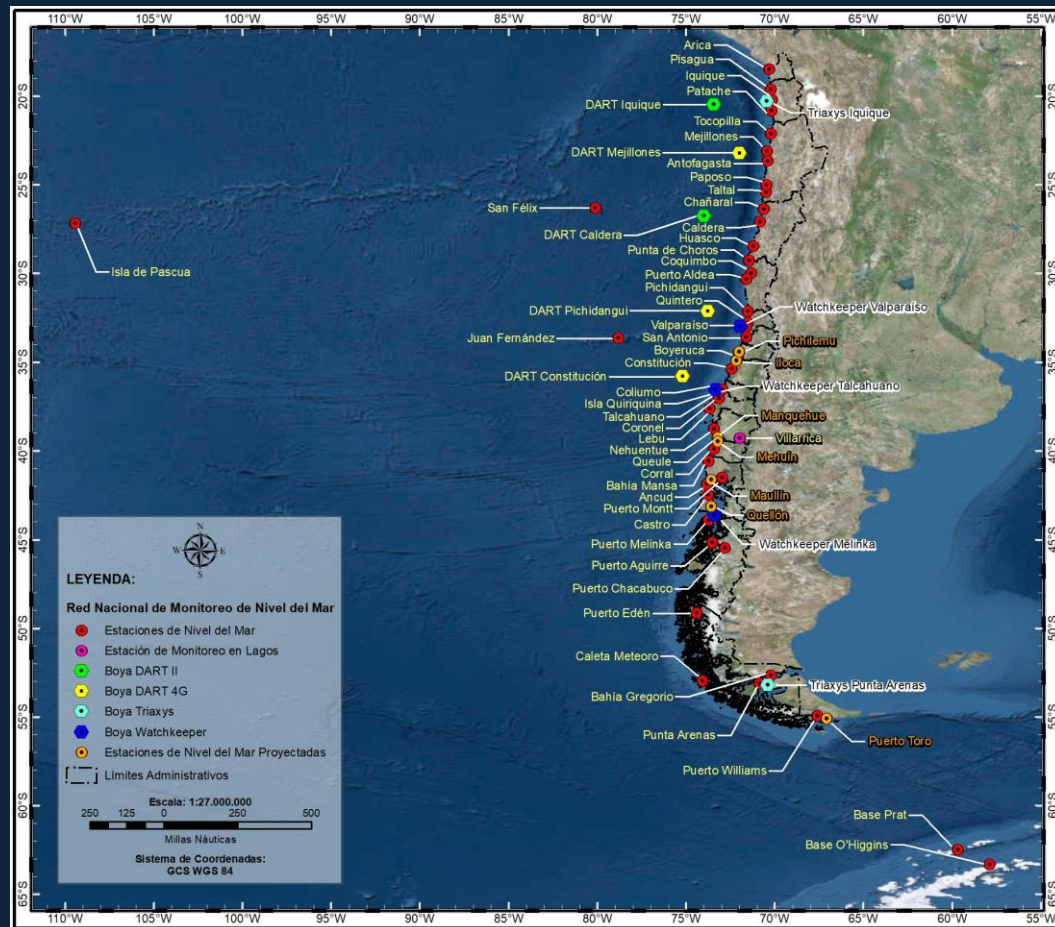


# Sea Level Stations

47 Sea level Stations:

- 02 Antarctic,

- 01 Eastern Island,



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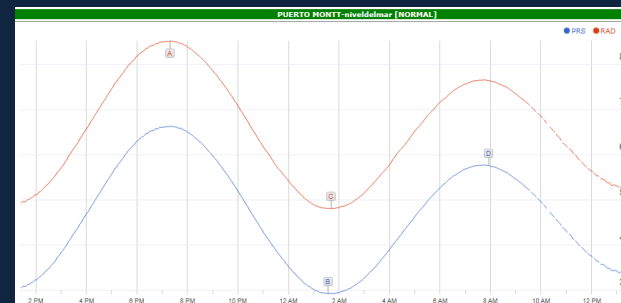
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# Sea Level Stations

Telemetry:  
GSM or BGAN  
&  
GOES





# Sea Level Stations

Telemetry:

GSM or BGAN → GSM: every 05 minutes  
& BGAN: every minute  
GOES

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# Sea Level Stations

Telemetry: Past 27F/2010: every hour.  
GSM or BGAN  
&  
GOES → 2010-2011: migrate to 5, 10, 15'  
Currently: 90% send data every 5'

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# Sea Level Stations



Intergovernmental Oceanographic Commission

<http://www.ioc-sealevelmonitoring.org>

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# Sea Level Stations

Study Case:

September 2015

Earthquake M8.4

Coquimbo

(Central-North of Chile).



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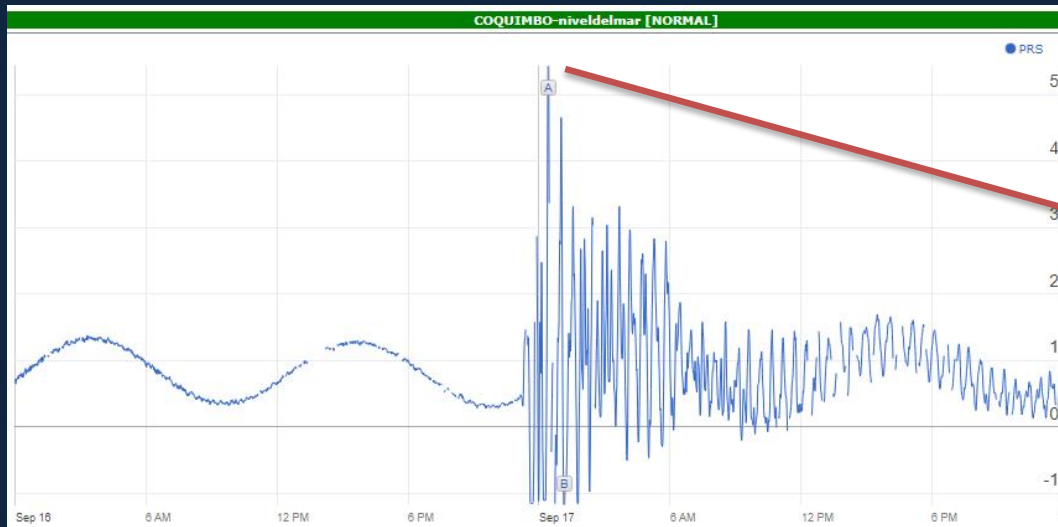
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# Sea Level Stations



Data using GOES telemetry:  
4.6m tsunami





# Benefits of GOES service



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## Benefits of GOES service

DCS get a web portal to control GOES traffic,  
Assistance of Letecia Reeves and Valerie Randall

Future plans:

Migrate all our station to 5 minutes.

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