

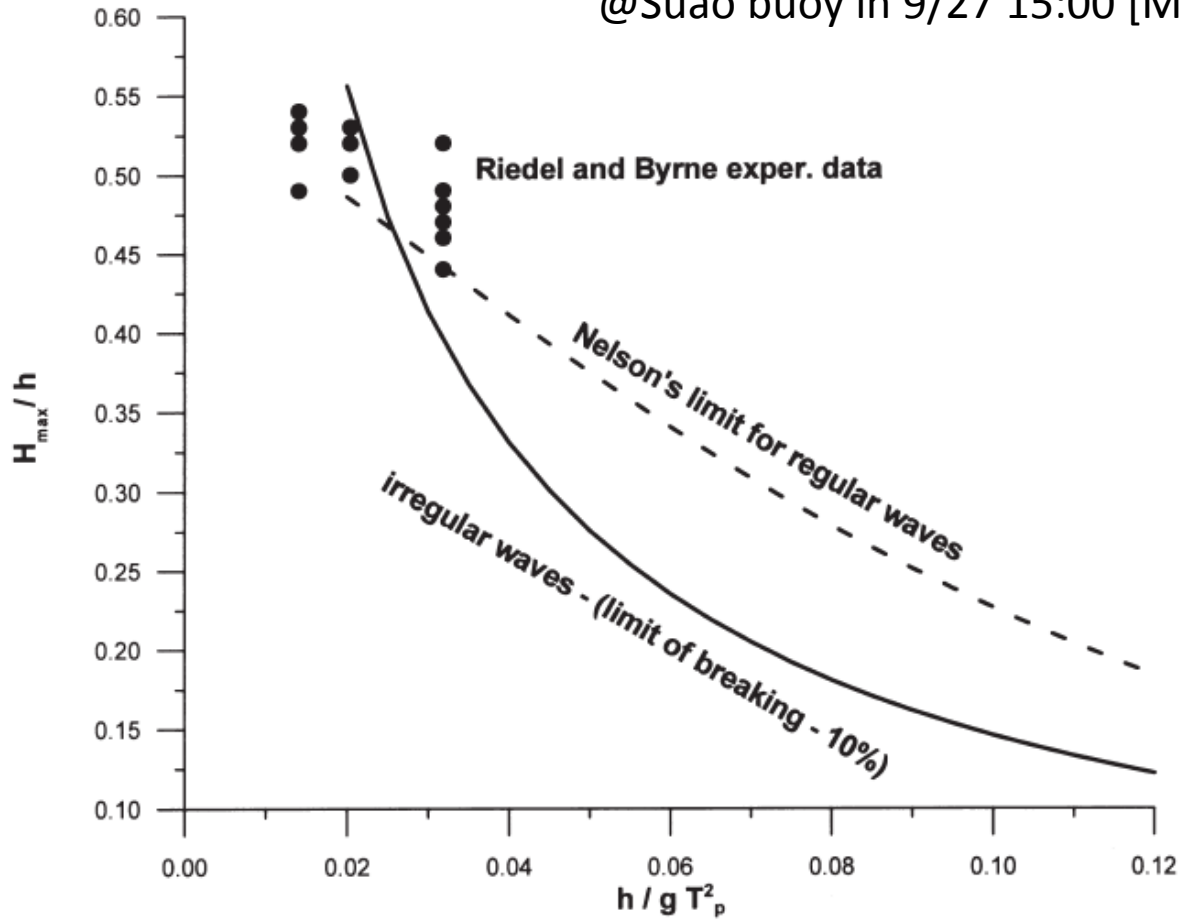


(0.013,0.94)

## Artificial Qc concern

Hmax=18.7m; Tp=12.5s; h=20m

@Suao buoy in 9/27 15:00 [Megi typhoon]



Massel , *Ocean Engng*, Vol. 25, No. 9, pp. 735–752, 1998

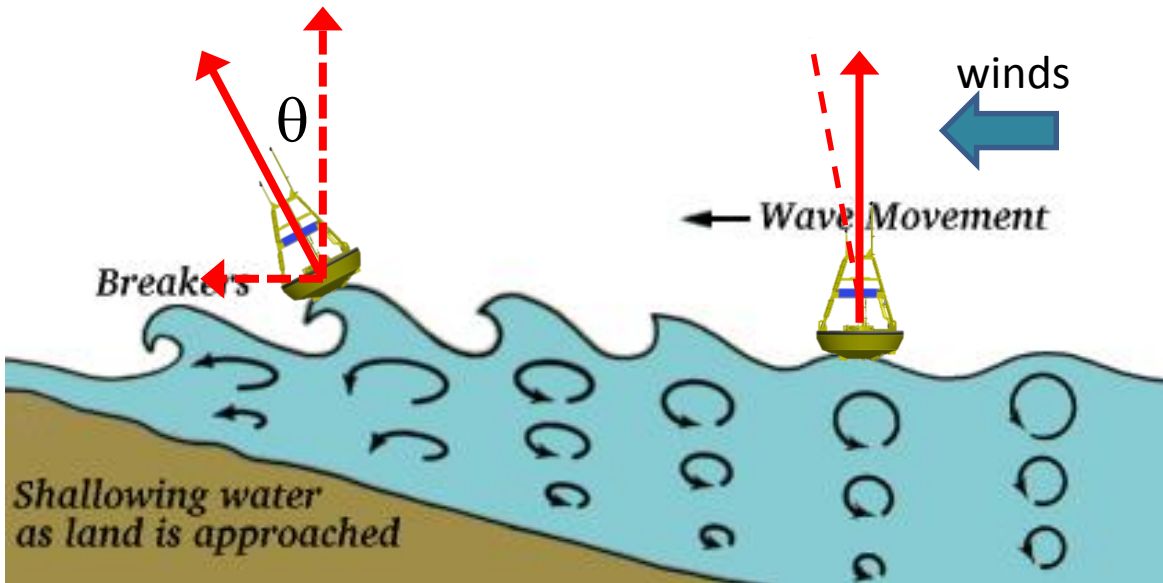
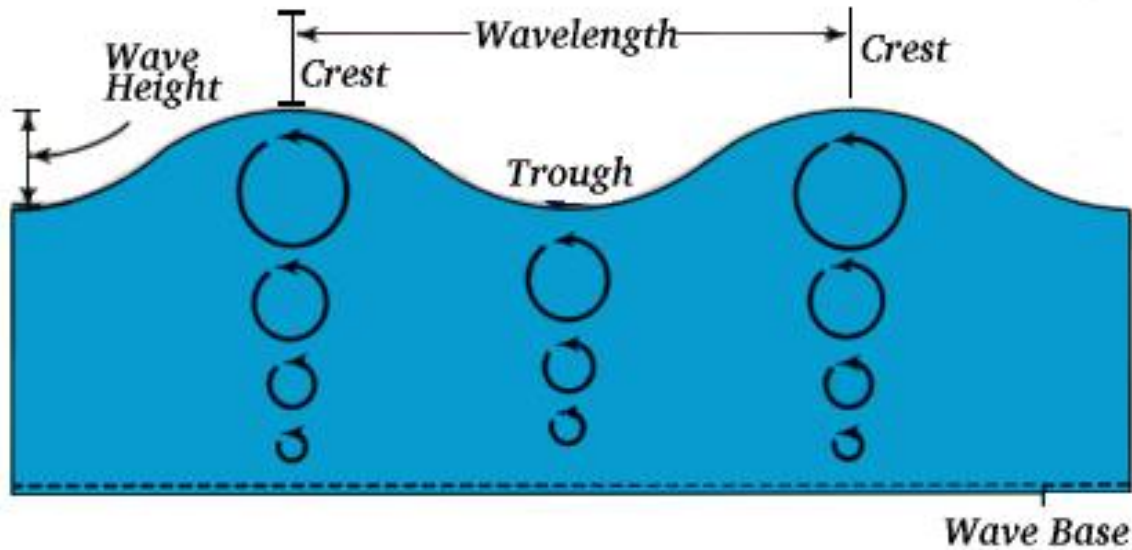
# 波浪浮標傾角校正與極值波高之研究

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RCEC, Academia Sinica



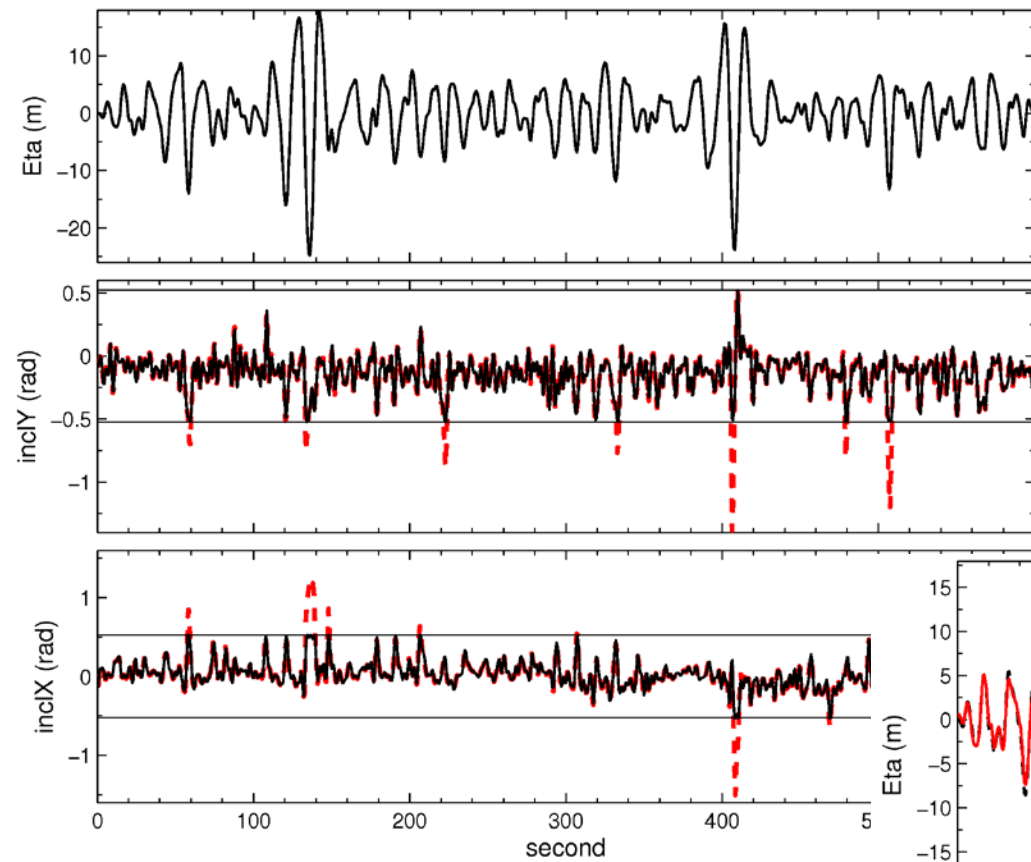
A rogue wave is an *extreme* wave that needs an accurate and precise method of measurement. Different ways of detecting the surface elevation height are in use. They employ the reflection of an optical ray or acoustic signal by the air-sea boundary and acceleration of floatable buoys. Pressure-wave gauges may register long waves. The first type of difficulty lies in the principle of the definition of the surface elevation. The reflection of sonic or electromagnetic waves may not occur at the very air-sea boundary due to the presence of foam or bubbles that is typical in severe conditions. A buoy possesses an intrinsic moment of inertia that distorts the measurements. Jointly with the low frequency of acquisition and poor calibration, these problems may make records difficult to use in further research and unreliable.

**Rogue Waves in the Ocean by**  
[Christian Kharif](#),  
[Efim Pelinovsky](#),  
[Alexey Slunyaev](#)

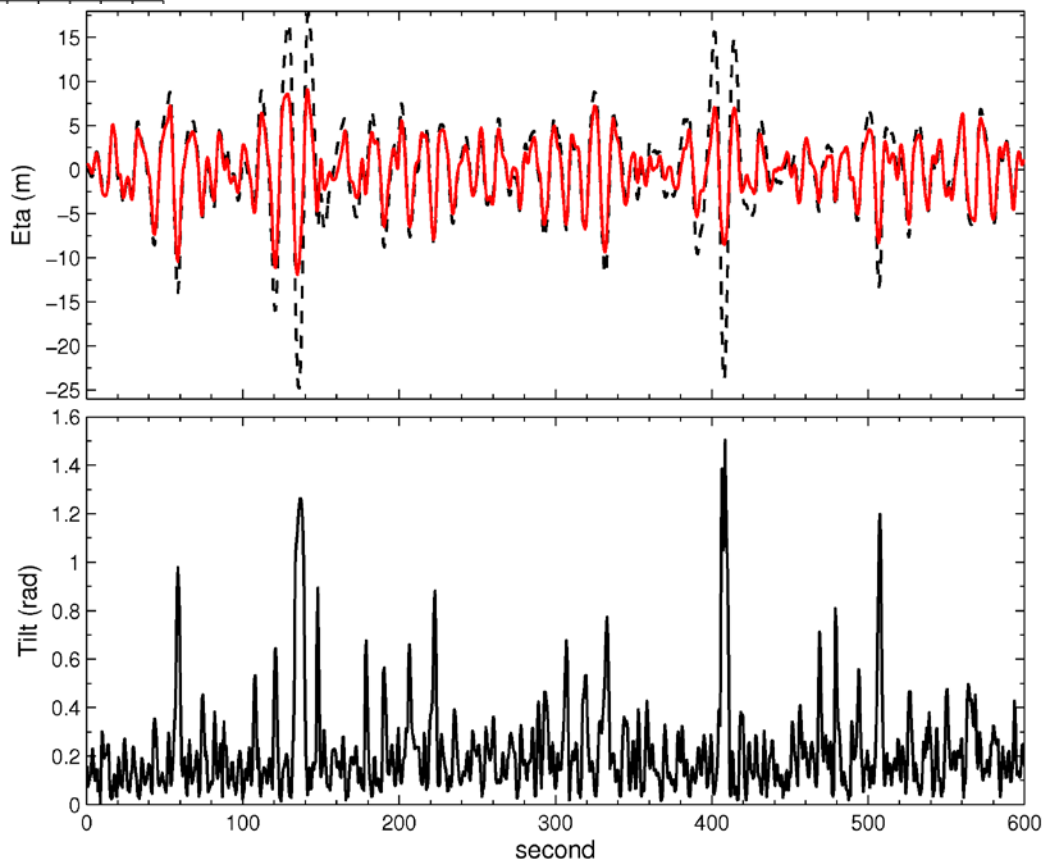


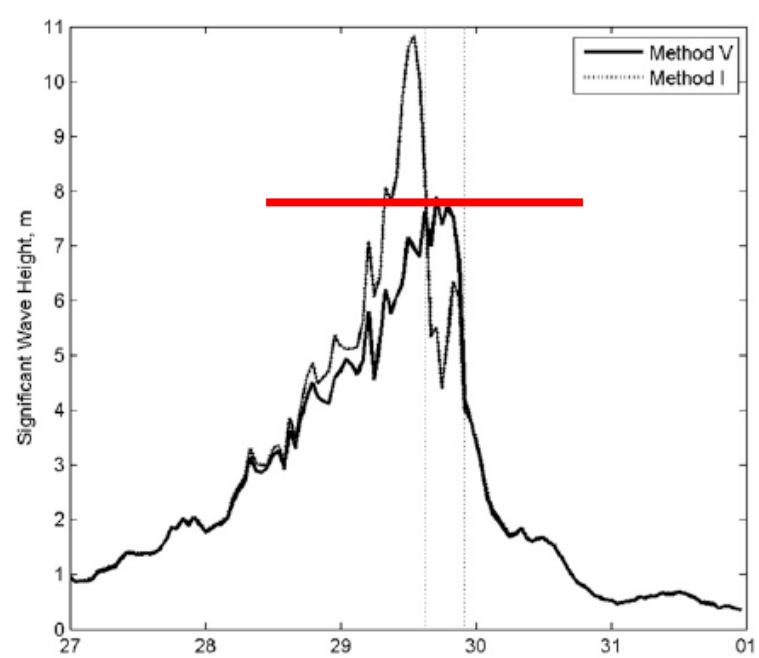
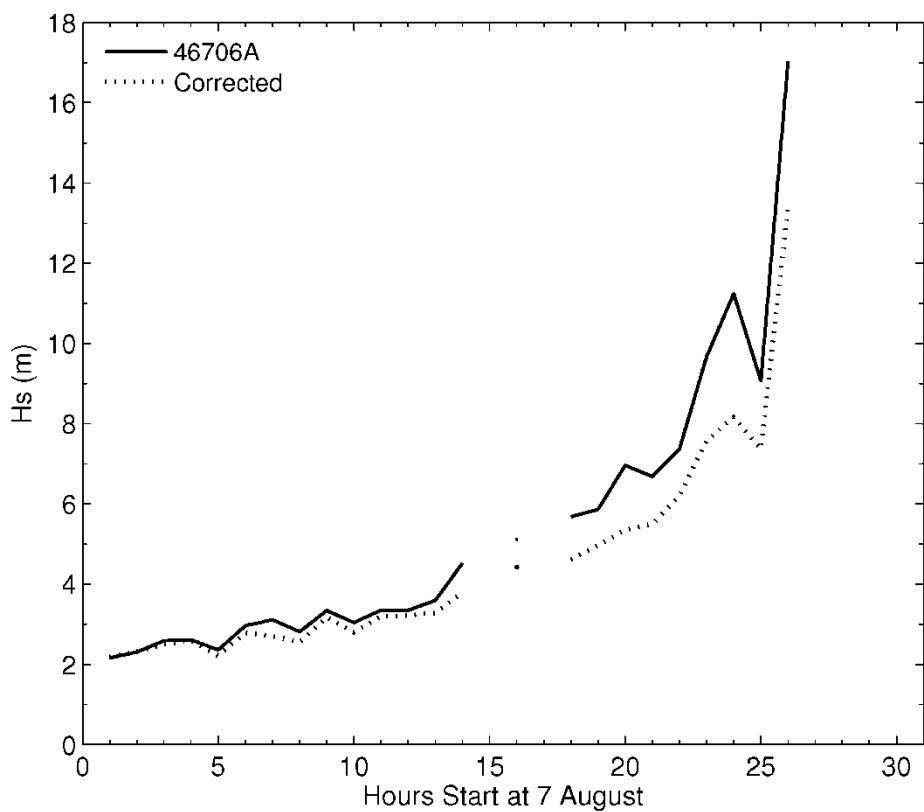
$$R(\alpha, \beta, \gamma) = R_z(\alpha)R_y(\beta)R_x(\gamma) = \begin{pmatrix} \alpha_c\beta_c & \alpha_c\beta_s\gamma_s - \alpha_s\gamma_c & \alpha_c\beta_s\gamma_c + \alpha_s\gamma_s \\ \alpha_s\beta_c & \alpha_s\beta_s\gamma_s + \alpha_c\gamma_c & \alpha_s\beta_s\gamma_c - \alpha_c\gamma_s \\ -\beta_s & \beta_c\gamma_s & \beta_c\gamma_c \end{pmatrix}$$

$$A^w = R(\alpha, \beta, \gamma)A^b$$

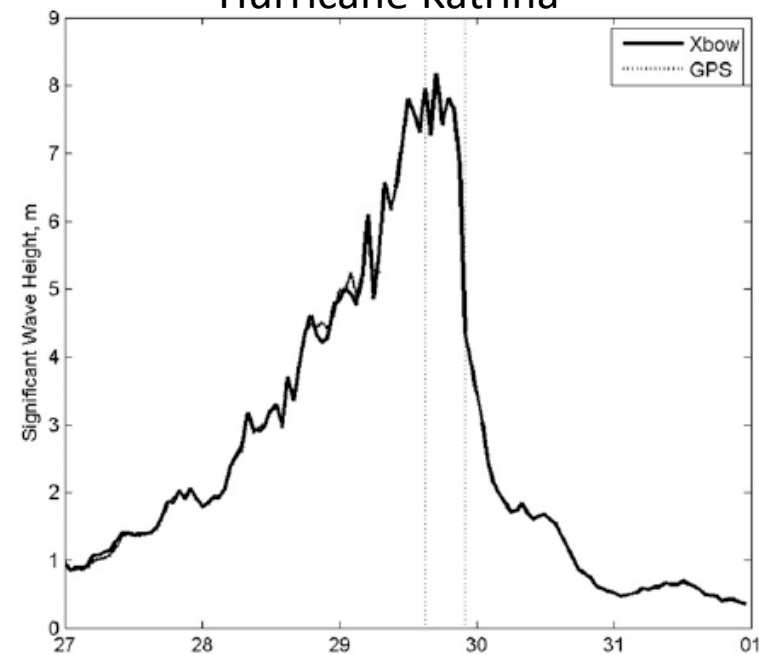
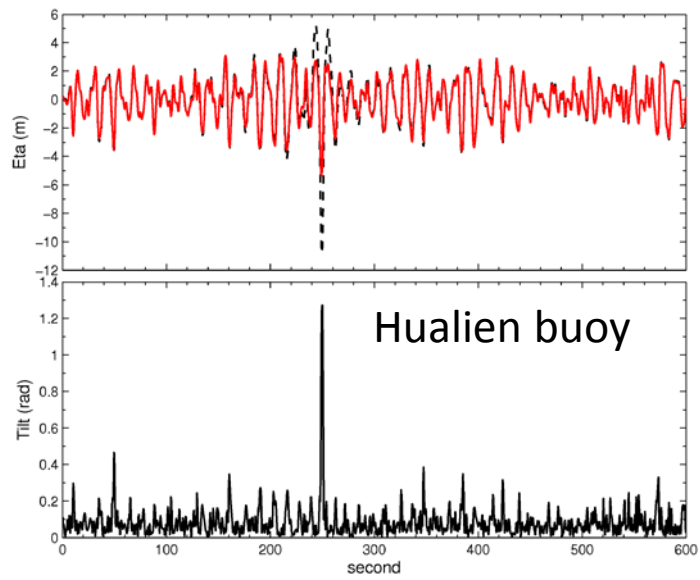


Suao buoy  
2015/08/08 01:00  
SOUDELOR typhoon

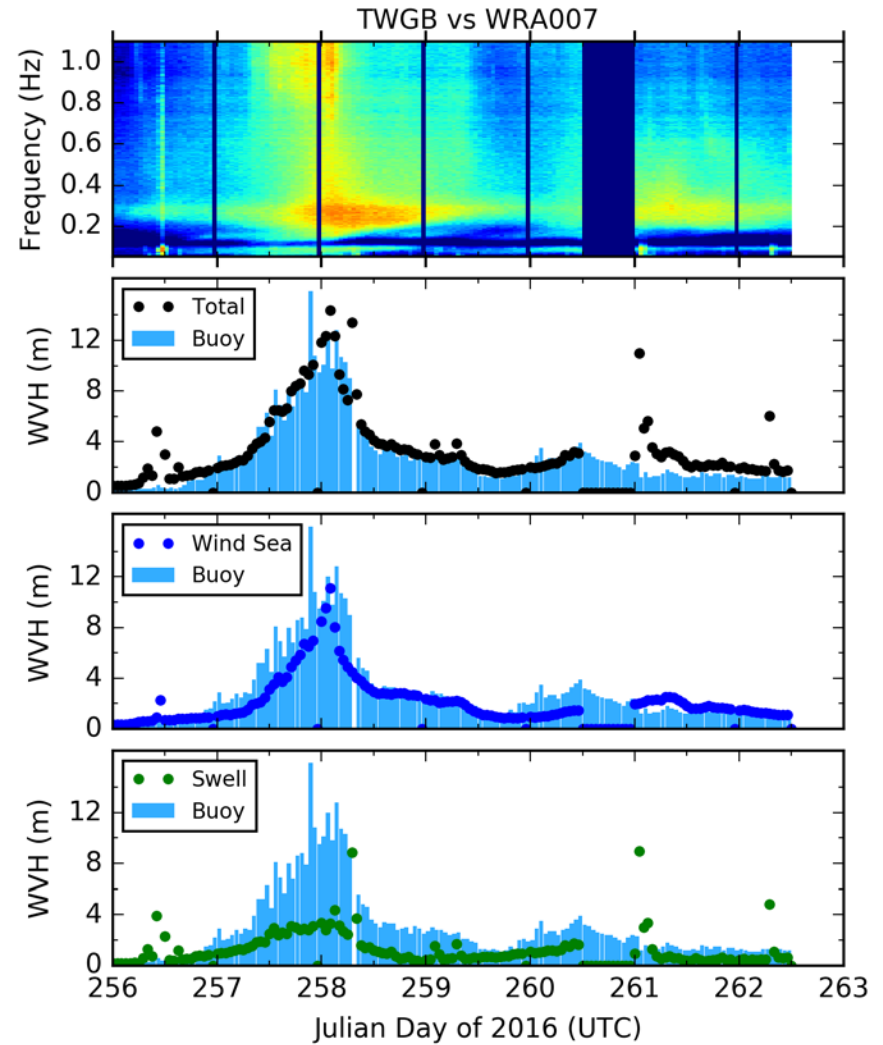
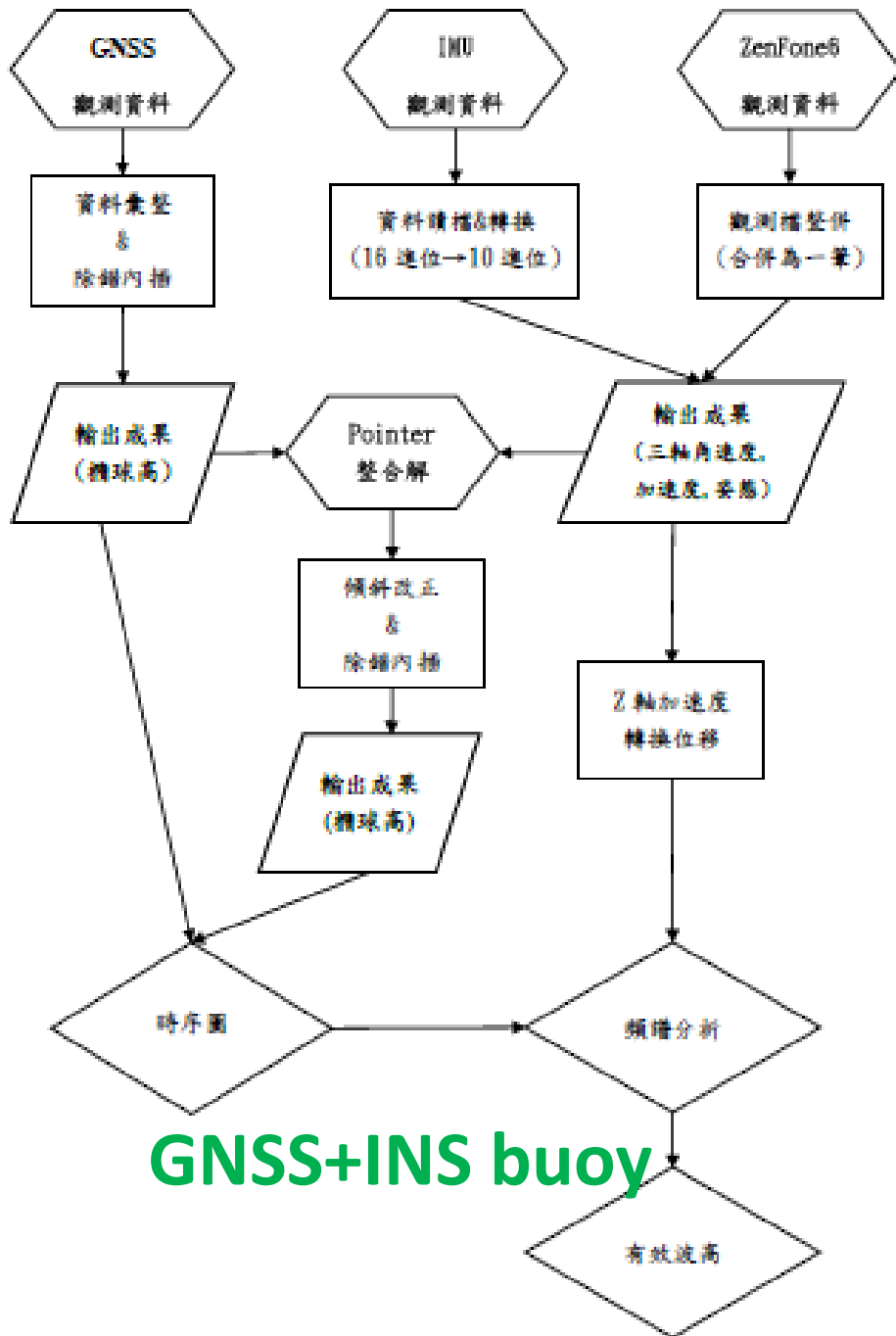




Hurricane Katrina



# 2016 MERANTI



Real-time Microseism-Ocean Waves Monitoring  
<http://mwave.droppages.com/>

# Suggestions to CWB

## Who are we ?

張憲國、翁文凱、郭重言、劉景毅、莊文傑及其他有興趣的研究者

## What do we request ?

- 1. Open raw data
- 2. Re-examine QC processes
- 3. Discuss all affecting problem of buoy **TOGETHER !**
- 4. Do as CDIP like output

