



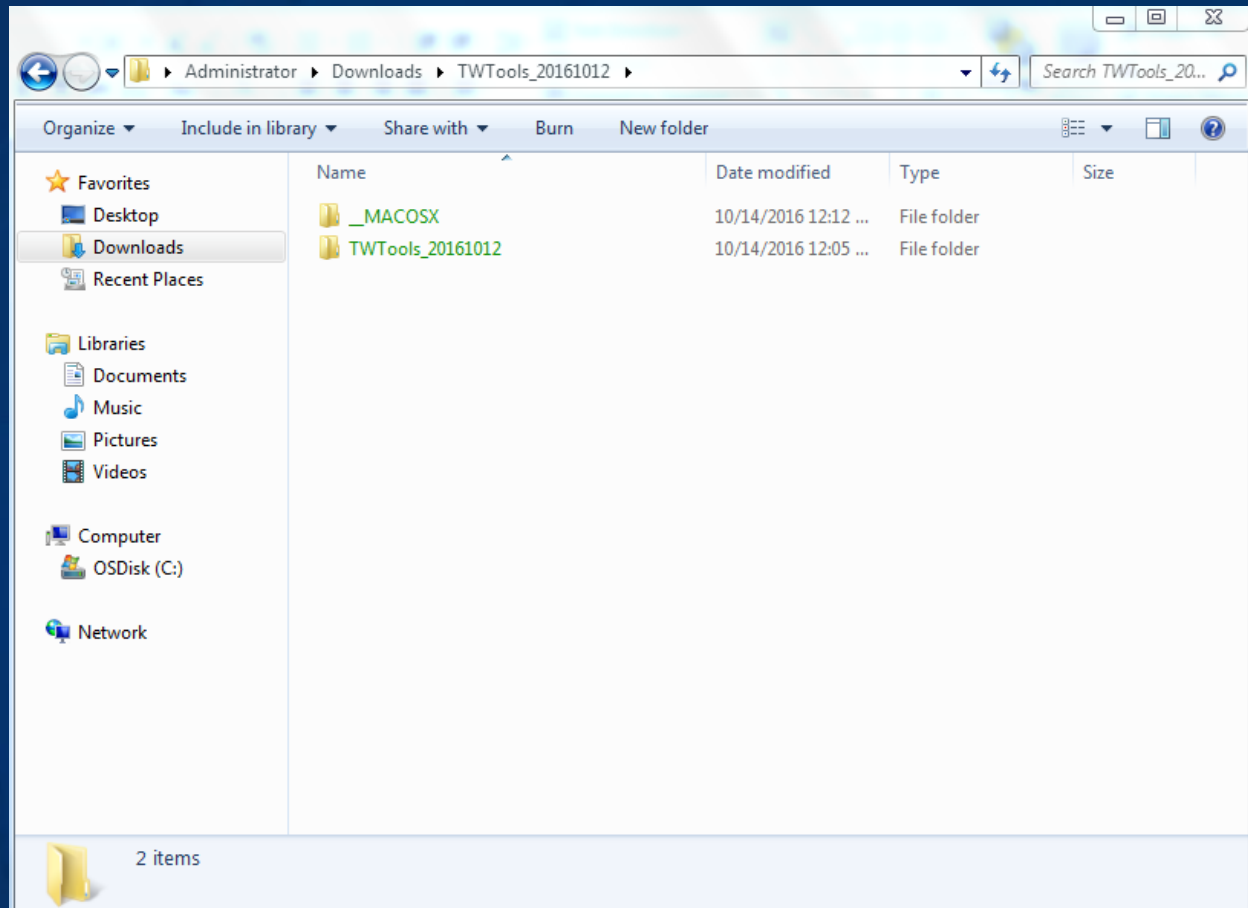
TideTool Software: PTWC and ITIC Sea Level Data Analyzer

Carolina Hincapié Cárdenas
Deputy Manager, CTWP

Sea Level Operators Training, October 17-21, 2016

TSUNAMI WARNING DECISION SUPPORT TOOLS

<ftp://ftp.soest.hawaii.edu/ptwc/TWTools/>



TIDE TOOL



```
cmd GET_DATA
4"
New Beg_time 2016-10-19 12:18:04
wget -q --tries=5 --output-document=web_dump "http://www.ioc-sealevelmonitorin
g.org/service.php?query=data&format=ascii&code=ugle&timestart=2016-10-19 12:18:0
4"
New Beg_time 2016-10-19 12:18:04
wget -q --tries=5 --output-document=web_dump "http://www.ioc-sealevelmonitorin
g.org/service.php?query=data&format=ascii&code=vale&timestart=2016-10-19 12:32:0
1"
New Beg_time 2016-10-19 12:32:01
wget -q --tries=5 --output-document=web_dump "http://www.ioc-sealevelmonitorin
g.org/service.php?query=data&format=ascii&code=vish&timestart=2016-10-19 12:18:0
4"
New Beg_time 2016-10-19 12:18:04
wget -q --tries=5 --output-document=web_dump "http://www.ioc-sealevelmonitorin
g.org/service.php?query=data&format=ascii&code=vlad&timestart=2016-10-19 12:23:0
1"
New Beg_time 2016-10-19 12:23:01
wget -q --tries=5 --output-document=web_dump "http://www.ioc-sealevelmonitorin
g.org/service.php?query=data&format=ascii&code=vodo&timestart=2016-10-19 12:29:0
1"
New Beg_time 2016-10-19 12:29:01
1851904
Finished downloading data. Waiting 151.0 seconds.
```

Tide Tool v10.50

abas	abur	acaj	acap	acnj	acp2	acya	adak	aden	agal	agua	ajac
akfl	alak	alam	albu	alex	alge	amal	ambo	anch	ancu	anmd	anto
apfl	apla	arec	aren	aric	ascn	ashk	asto	atic	atka	auct	balt
band	bame	bara	barb	barn	bass	batr	bbbc	bdto	benc	beno	betx
bgct	bhmd	bitg	blnj	blri	blue	bmda	bmsa	boma	bouc	boul	bout
bpny	brid	brom	brpt	btla	btny	buca	bull	busa	buve	bwde	bwla
cabc	cabo	cadi	cagl	cala	cald	call	calq	cals	camu	capc	caph

Read 1227982 Bytes From ../TideTool/SR_LOG/sr29316.log

EXIT REPORT UPDATE STATUS GET ETAs TTT ERASE_OBS



Data Latency <10 Mins <70 Mins <7 Hours <24 Hours > 24 Hours Lon -92.199
Lat 34.816

CONNECTED

DISP/FIND STATIONS

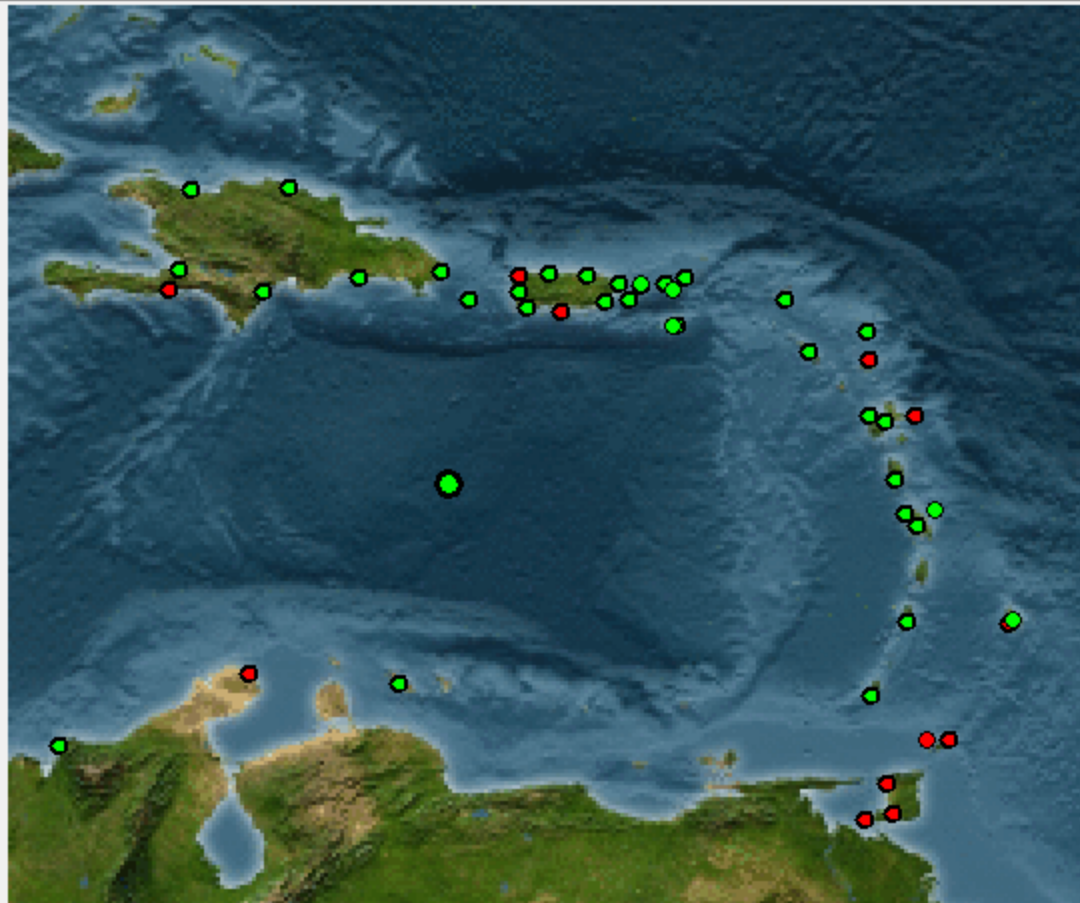
PLOT TTs

PLOT INFO

EXIT

7% CARIBBEAN Latency

Latency <10mins <70 Mins <7 Hours <24 Hours >24 Hours



SHOW

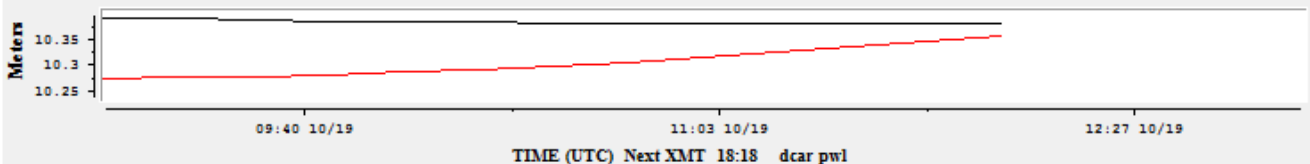
DISP/FIND STATIONS

EXIT

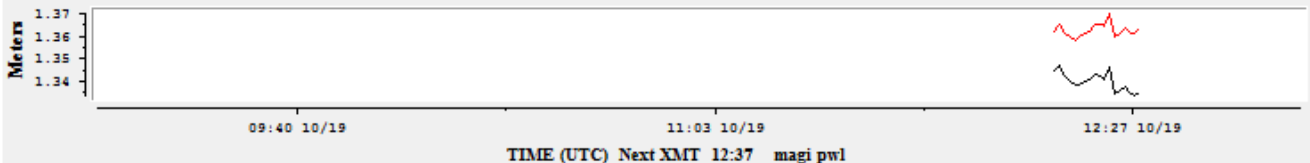
PLOT INFO

Time Span 48 24 12 4 Station List

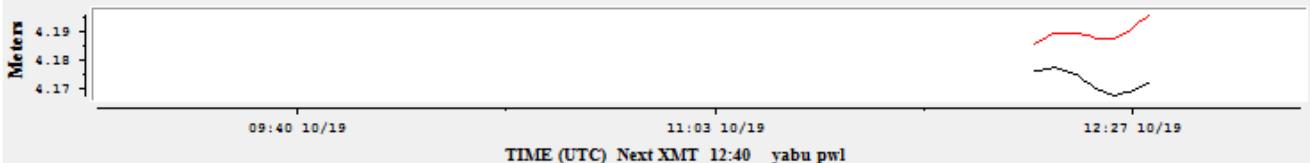
DCAR PWL DART_Caribbean_42407



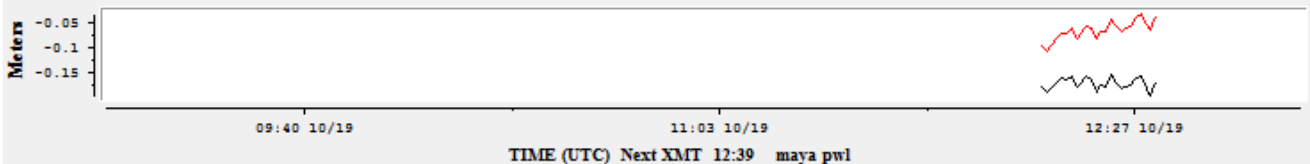
MAGI PWL Magueyes_Island_PR



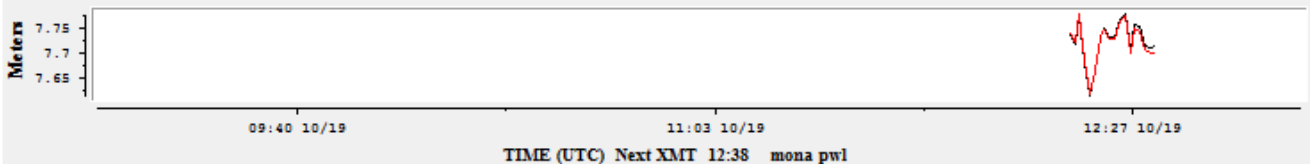
YABU PWL Yabucoa_PR



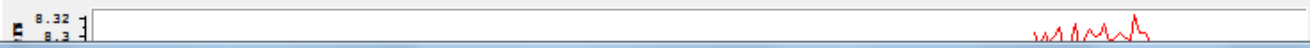
MAYA PWL Mayaguez_PR



MONA PWL Mona_Island_PR



VIEQ PWL Esperanza_Vieques_PR



TTT: TSUNAMI TRAVEL TIME

Tide Tool v10.50

abas	abur	acaj	acap	acnj	acp2	acya	adak	aden	agal	agua	ajac
akfl	alak	alam	albu	alex	alge	amal	ambo	anch	ancu	anmd	anto
apfl	apla	arec	aren	aric	ascn	ashk	asto	atic	atka	auct	balt
bamd	bame	bara	barb	barn	bass	batr	bbbc	bdto	benc	beno	betx
bgct	bhmd	bitg	blnj	blri	blue	bmda	bmsa	boma	bouc	boul	bout
bpny	brid	brom	brpt	btla	btny	buca	bull	busa	buve	bwde	bwla
cabc	cabo	cadi	cagl	cala	cald	call	calq	cals	camu	capc	caph
carg	cata	cbmd	cbva	ccmd	cctx	cdtt	cedr	ceib	cent	cgal	chab
char	chen	cher	chia	chij	chit	chnr	chrl	chrp	chrs	chsc	chtt
cila	cili	ckfl	clri	clst	cmct	cmnj	coch	coch	colb	colo	como

Read 2401973 Bytes From ../TideTool/SR_LOG/sr29316.log

EXIT REPORT UPDATE STATUS GET ETAs TTT ERASE_OBS

Tide Tool TSUNAMI TRAVEL TIME

Epicenter origin time (hr min secs):

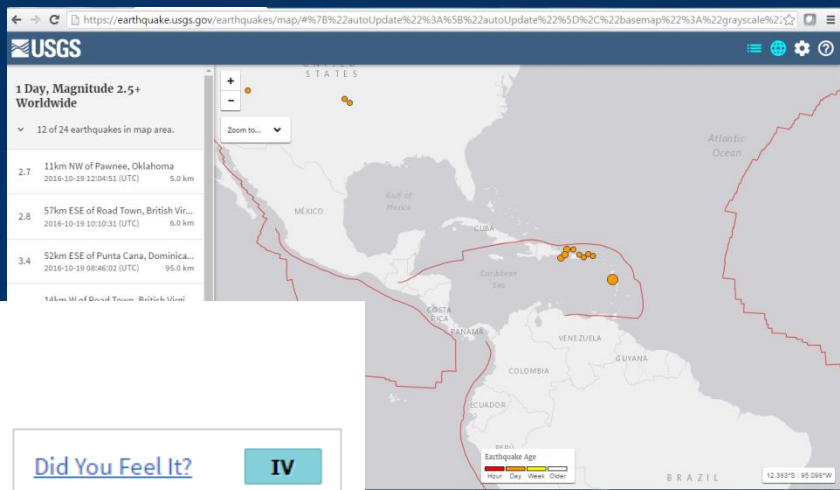
Date (month day yr): Lat. Long.

Ocean Basin: Pacific Indian Atlantic/Caribbean

Grid Res: 60' 30' 20' 15' 10' 5' 2' 1'

Fast <-----> Slow

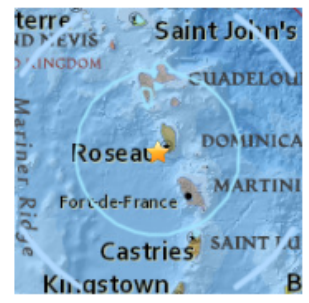
Calculate QUIT



M5.6 - 14km W of Pointe Michel, Dominica

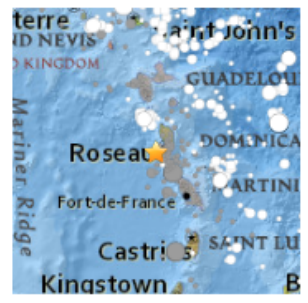
2016-10-18 22:08:14 UTC | 15.226°N 61.517°W | 143.0 km depth

Interactive Map



Contributed by US²

Regional Information



Contributed by US²

Felt Report - Tell Us!

0 0 0 0 2 6

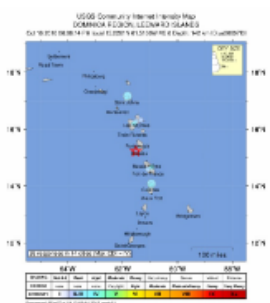
Responses

Contribute to citizen science. Please [tell us](#) about your experience.

Citizen Scientist Contributions

Did You Feel It?

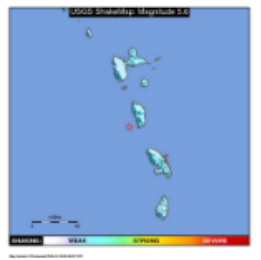
IV



Contributed by US²

ShakeMap

IV

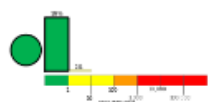


Contributed by US²

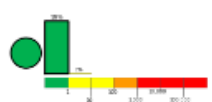
PAGER

GREEN

Estimated Economic Losses



Estimated Fatalities



Contributed by US²

Origin

Review Status

REVIEWED

Magnitude

5.6 mww

Depth

143.0 km

Time

2016-10-18

22:08:14.380 (UTC)

Contributed by US²

Moment Tensor



Contributed by US²

Epicenter origin time (hr min secs): 22 8 14

Date (month day yr): 10 18 2016 Lat. 15.226 Long. -61.517

Ocean Basin: Pacific Indian Atlantic/Caribbean

Grid Res: 60' 30' 20' 15' 10' 5' 2' 1'

Fast <-----> Slow

Calculate QUIT



Data Latency <10 Mins <70 Mins <7 Hours <24 Hours > 24 Hours

OT: 22:08 OCT 18

CONNECTED

DISP/FIND STATIONS

CLEAR TTs

PLOT INFO

EXIT

ADDITIONAL UPDATES:

PDFs should replace the following listed below in the C:\Tcl\TideTool folder.

Caribbean_SLstations_expand_20131105.png
CaribbeanAtlantic_SL_Stations_nov2013.pdf
Indian_SL_Stations_2012.pdf
Pacific_SL_Stations_2015_20160330_2.pdf

