

National Presentation of Results

HAITI



145 10 00 155 70 00





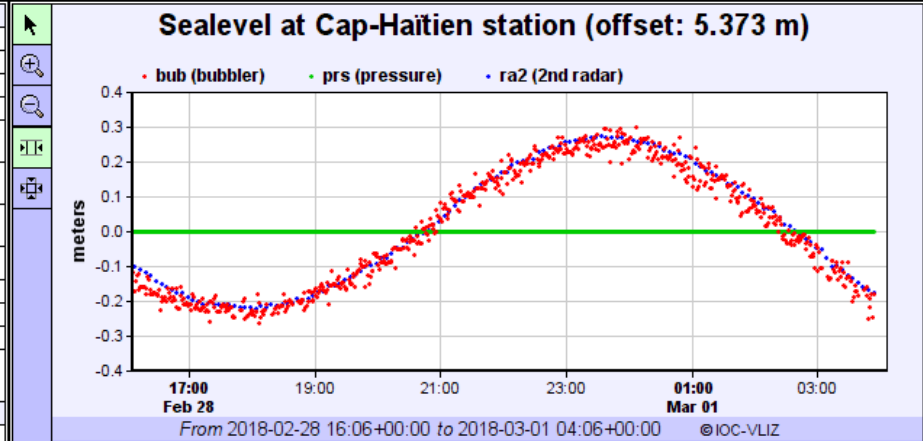
SEA LEVEL STATION MONITORING FACILITY

[Intro](#)[Map](#)[Station lists](#)[Station details](#)[Services](#)[GLOSS](#)[Catalog](#)

[previous station] Station at GMT [next station]

[\[more details\]](#)[\[GTS message\]](#)[\[show data\]](#)[\[show on map\]](#)[\[monitor\]](#)

Station metadata	
Code	caph
Country	Haiti
Location	Cap-Haïtien
Status	Operational
Local Contact	Service Maritime et de Navigation d'Haïti (Haiti)
Other Contact	Puerto Rico Seismic Network (USA)
Other Contact	Caribbean Tsunami Warning Program (USA)
QC data	n/a
Latitude	19.759303
Longitude	-72.193371
Connection	GTS message
GTS message type	SEHA10
Sensor 1	
Type of sensor	prs (pressure)
Sampling rate (min)	1
Sensor 2	
Type of sensor	bub (bubbler)
Sampling rate (min)	1
Sensor 3	
Type of sensor	ra2 (2nd radar)
Sampling rate	



Period	Signals	Data
<input checked="" type="radio"/> 12h <input type="radio"/> day <input type="radio"/> 7 days <input type="radio"/> 30 days	<input checked="" type="checkbox"/> prs <input checked="" type="checkbox"/> bub <input checked="" type="checkbox"/> ra2 <input type="checkbox"/> Remove outliers <input type="checkbox"/> Remove spikes	<input checked="" type="radio"/> Relative levels= signal - average over selected period <input type="radio"/> Absolute levels= as received <input type="radio"/> Offset signals= relative signals + offset <input type="radio"/> Show switch data <input type="radio"/> Show battery voltage

Tip:use left icons to zoom & scroll

Downloading data from IOC website using MobaXterm (get_OIC_data notepad file) Period: dec 2011 – Feb 2018 (6 years, 3 months)

```
[SAGESSE,SAGESSE-PC] > cd /c
bash: cd: /c: No such file or directory

[2018-03-01 13:11:28] -
[SAGESSE,SAGESSE-PC] > ls
Desktop          LauncherFolder  MyDocuments

[2018-03-01 13:11:33] -
[SAGESSE,SAGESSE-PC] > cd /drives

[2018-03-01 13:12:19] /drives
[SAGESSE,SAGESSE-PC] > ls
c d e f

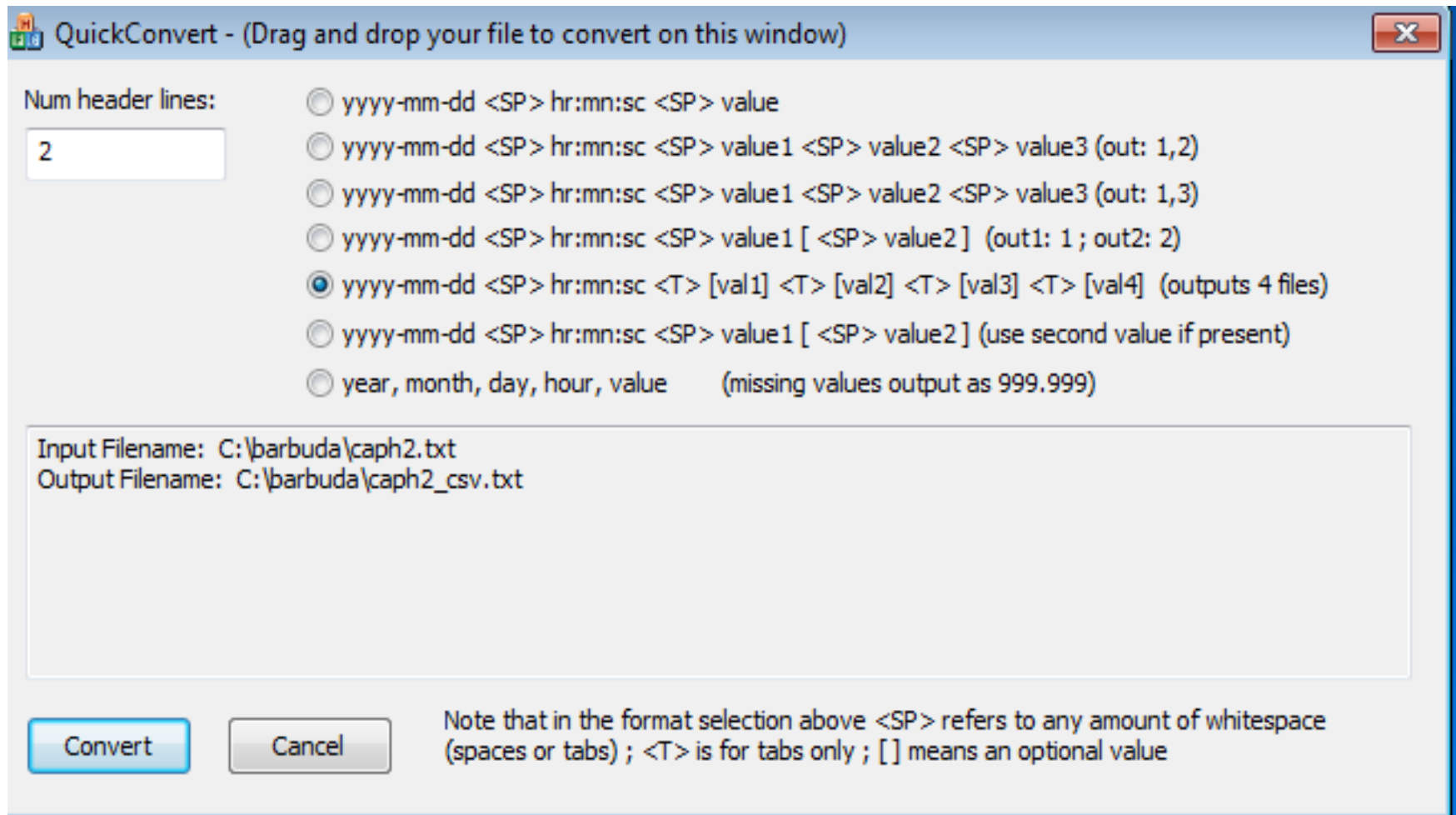
[2018-03-01 13:12:26] /drives
[SAGESSE,SAGESSE-PC] > c
bash: c: command not found

[2018-03-01 13:12:32] /drives
[SAGESSE,SAGESSE-PC] > cd c

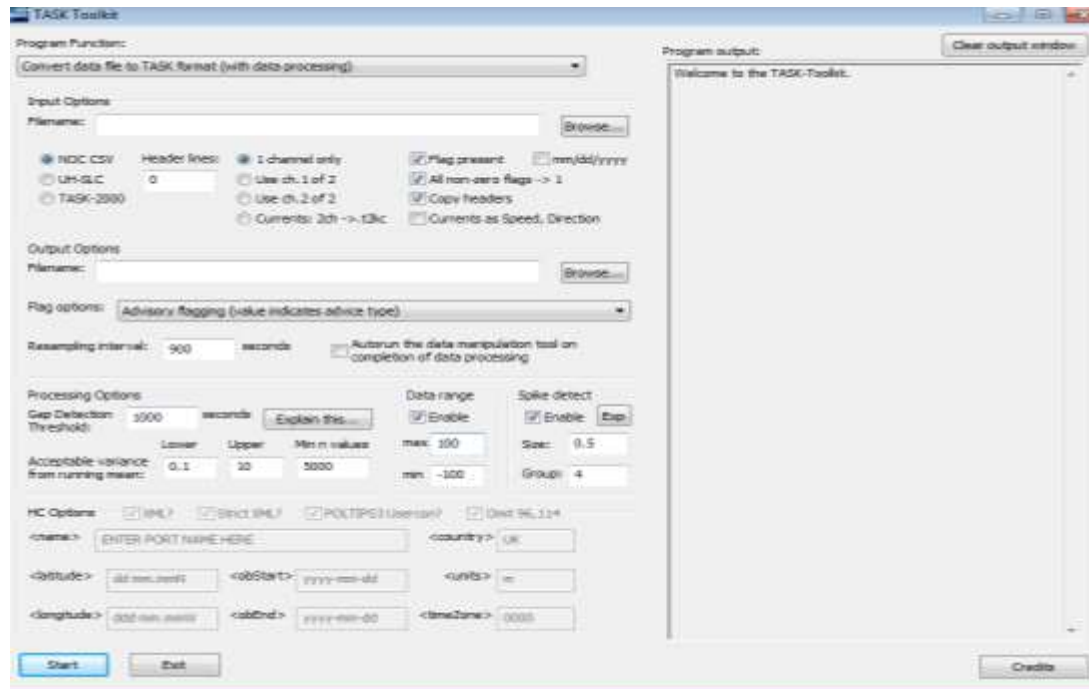
[2018-03-01 13:12:59] /drives/c
[SAGESSE,SAGESSE-PC] > ls
$Recycle.Bin          Program Files          Tcl
Dell                  Program Files (x86)   Users
Documents and Settings  ProgramData           Windows
Intel                 Recovery              barbuda
MSOCache              System Volume Information  hiberfil.sys
Perflogs              TTT Package           pagefile.sys

[2018-03-01 13:13:05] /drives/c
[SAGESSE,SAGESSE-PC] >
```

Converting the file caph.txt Using QuickConvert in format (cvs.txt)



- 1- Convert data into Task format file (T2K)
- 2- Do some auto-quality control using TASK Toolkit



TASK ANALYSE

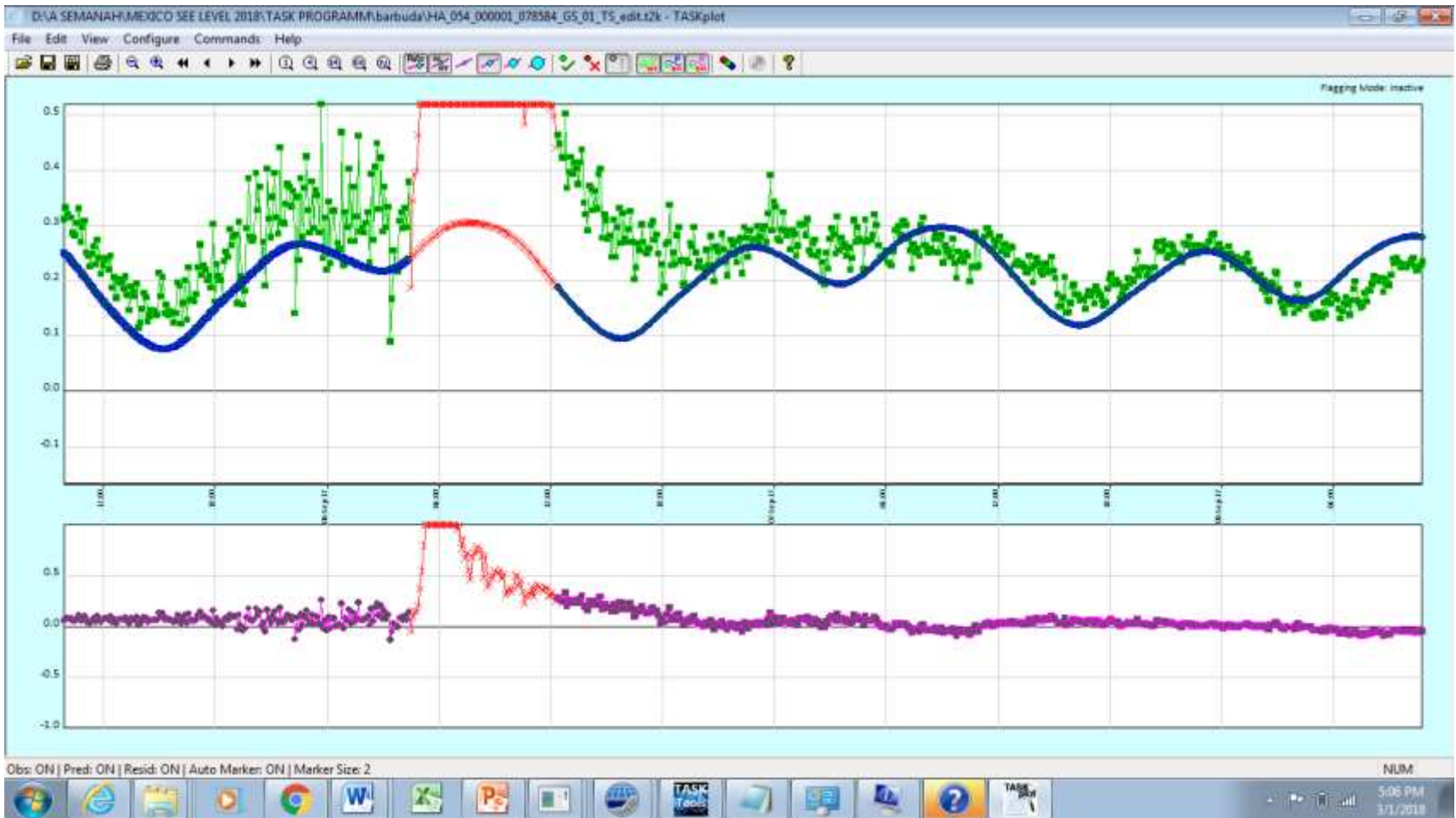
```
HA_114_000001_056691_G5_03_PR - Notepad
File Edit Format View Help
All data read in
-----
Observation stats for selected data records
-----
Maximum obs value:      6.213
Minimum obs value:      0.000
Mean (average):         5.534262
Standard Deviation:     0.194938
Delta (interval):       0.083333
Hours of data:          54724.17
Hours of good data:     51720.08

Solving by Gauss-Seidel method.

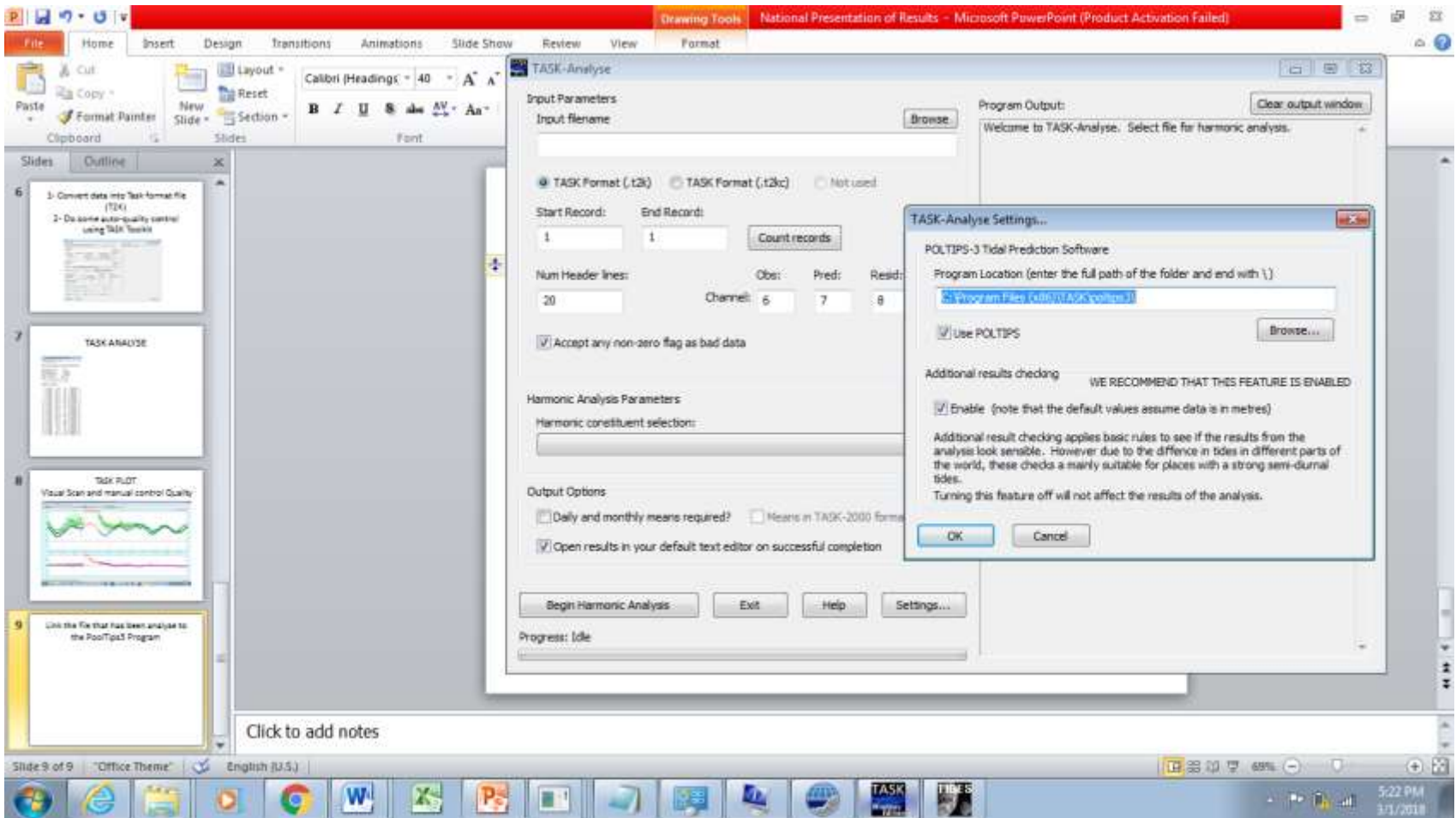
Harmonic Constants
-----
 1  5.53750   0.00   Z0  0.0000000  0
 2  0.06195  164.57   SA  0.0410686  1
 3  0.01645   70.77   SSA 0.0821373  2
 4  0.00602  326.55   MM  0.5443747  3
 5  0.00160  286.34   MSF 1.0158958  4
 6  0.01611   7.00   MF  1.0980331  5
 7  0.00143  201.12   ZQ1 12.8542862  6
 8  0.00221  191.46   SIG1 12.9271398  7
 9  0.01251  208.57   Q1  13.3986609  8
10  0.00278  221.21   RM01 13.4715145  9
11  0.05984  223.28   O1  13.9430356 10
12  0.00089  224.37   MP1 14.0251729 11
13  0.00234  232.24   M1  14.4920521 12
14  0.00073  216.08   CH11 14.5695476 13
15  0.00170  226.16   P11 14.9178647 14
16  0.02601  220.78   P1  14.9589314 15
17  0.00454  323.15   S1  15.0000000 16
18  0.08329  221.55   K1  15.0410686 17
19  0.00128  237.79   PS11 15.0821353 18
20  0.00090  286.54   PH11 15.1232059 19
21  0.00135  203.98   TH1 15.5125897 20
22  0.00532  223.01   J1  15.5854433 21
23  0.00113  245.53   S01 16.0569644 22
24  0.00296  245.79   O01 16.1391017 23
25  0.00001   3.81   OQ2 27.3416965 24
26  0.00195   8.97   MNS2 27.4238337 25
27  0.00684  346.67   2N2 27.8953548 26
28  0.00722  11.45   MU2 27.9682084 27
29  0.04998   6.23   N2  28.4397295 28
30  0.00950   5.79   NU2 28.5125831 29
31  0.00056  333.22   OP2 28.9019669 30
32  0.21799  26.75   M2  28.9841042 31
33  0.00146  334.34   MKS2 29.0662415 32
```


TASK PLOT

Visual Scan and manual control Quality



Link the file that has been analyse to the PoolTips3 Program

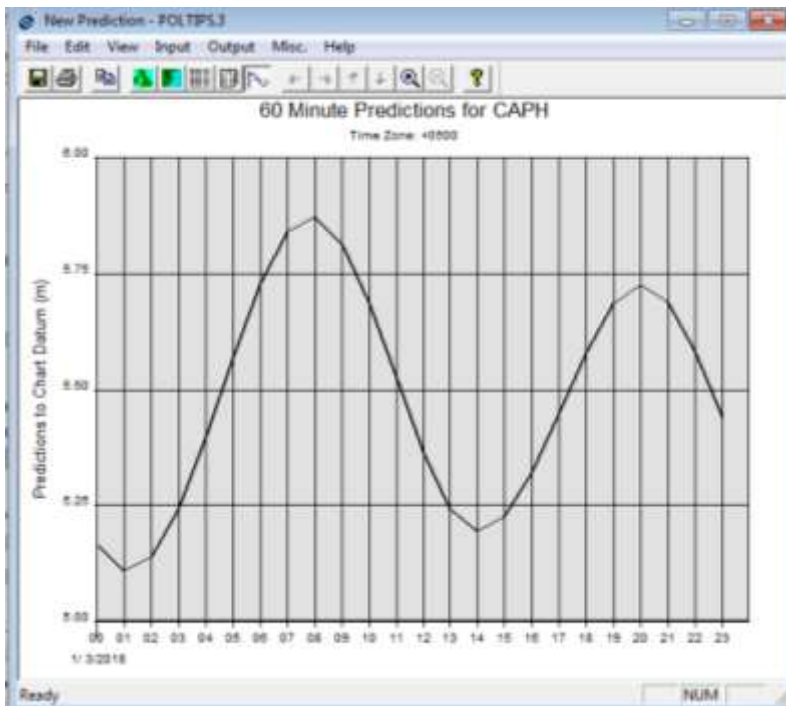


Using Poltis3 we have produced:

1- periodically mean sea level;

2- Tidal prediction;

3- Statistics .



Tidal Statistics for CAPH

Port details: TASK Analysis: 114 HCs ; Start: 02/12/
Datum of Predictions = Chart Datum

Highest Astronomical Tide (HAT): 6.08 metres
HAT occurs at 08:57 (local time) on 27/10/2007
Lowest Astronomical Tide (LAT): 5.06 metres
LAT occurs at 01:08 (local time) on 10/01/2005
Maximum Tidal Range possible: 0.92 metres

Mean High Water Spring (MHWS): 5.80 metres
Mean High Water Neap (MHWN): 5.72 metres
Mean Low Water Neap (MLWN): 5.36 metres
Mean Low Water Spring (MLWS): 5.28 metres
Tide Type: 0.55 (mixed)
Shallow Water Influence: 0.01

Selected Period: 01/03/2018 to 01/03/2018
Highest Tide in this period: 5.87 metres
Lowest Tide in this period: 5.11 metres
Largest Tidal Range in this period: 0.76 metres

Average Flood time: 6 hours 18 minutes
Average Ebb time: 6 hours 14 minutes
Quickest Flood time: 5 hours 55 minutes

