IALA Training Seminar on IWRAP Mk II, 15.-19. November 2010, IALA HQ

International Association of Marine Aids to Navigation and Lighthouse Authorities
Association Internationale de Signalisation Maritime

IWRAP Mk II
Creating a model
Commercial version

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Steps for creating a model

1. Import AIS data in the correct format
2. Create density plot
3. Chart overlay
4. Draw legs
5. Extract model data. Vol., distrbutions. etc.
6. Create depth curves
7. Run model and do what if analysis
1. Import AIS data

AIS data can be imported from several text files
1. Import AIS data

Format examples:  (The date format is user defined)

Raw data, NMEA:

```
2008-09-22 22:04:52   AIVDM,1,1,,A,15ASpL02Ch7=puF1bwqLmb5`00S>,0*62
2008-09-22 22:04:52   AIVDM,2,1,0,B,57u2SF02>JLwULHsT00mjP@4qDn3T00000C
!AIVDM,2,2,0,B,000000000000,2*27
2008-09-22 22:04:53   AIVDM,1,1,,B,13:s;D0PB:7?JO@1T0cni5?b06hD,0*17
```

Do not use , to separate date and !AIVDM

Plain text:

```
datetime  mmsi  longitude  latitude  navstatus  rateofturn  cog  sog  heading  imo  callsign  name  type
01-04-2009  04:35:14  244632000  10.93000000  55.92283333  0  0  219.00  13.70  217  9234290  PBDL  VIRGINIABORG  70
01-04-2009  04:34:05  244632000  10.95483333  55.92616667  0  0  220.00  13.70  217  9234290  PBDL  VIRGINIABORG  70
01-04-2009  04:34:25  244632000  10.95350000  55.92516667  0  0  219.00  13.70  217  9234290  PBDL  VIRGINIABORG  70
```

A separate table with static data can also be imported (ex. Lloyds data)

Before the import starts the program asks where the data is to be stored. This could be in a new folder together with the project file.
YOU HAVE TO CHOOSE THIS AND REMEMBER IT
1. Import AIS data

When importing decoded plain text AIS data, the fields (column) are defined manually. The program makes a first guess, but check it!
Ship type = Type of ship and cargo
2. Generate density plot
2. Generate density plot

![Create Traffic Density Plot]

- Discipline here! Or you could end up using the wrong data.
3. Overlay of raster charts

Use right click

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4. Create legs

Adjust the width of the legs
5. Extract model data
5. Extract model data

Wait with this only the legs have been located

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6. Depth curves

Depth curves can be imported or created using the polygon editor.
Run model