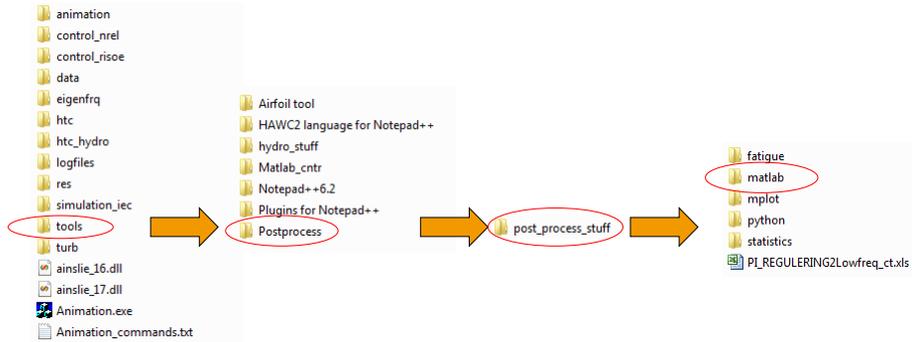




Files and location



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Matlab scripts

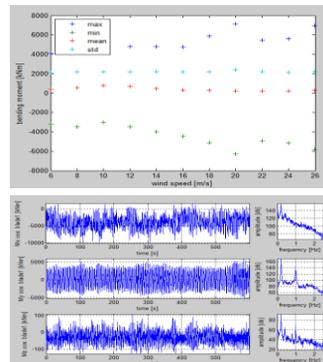
Statistics overview – max,min,mean, std



MPlot – reads results and plot time series



Fatigue analysis – calculate fatigue loads etc.



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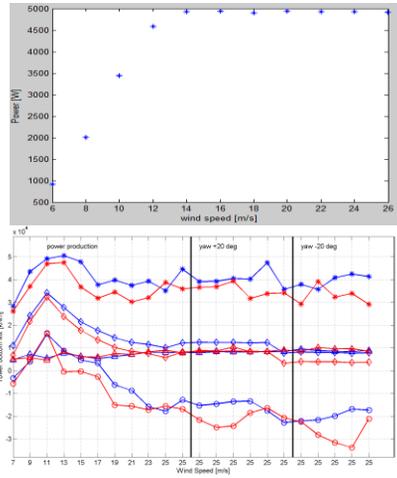


Statistics overview

StatisticFun(FileName,ChWs,ChP)

ChWs: channel with wind speed
 ChP: channel with power output,
 used to compute powerproduction

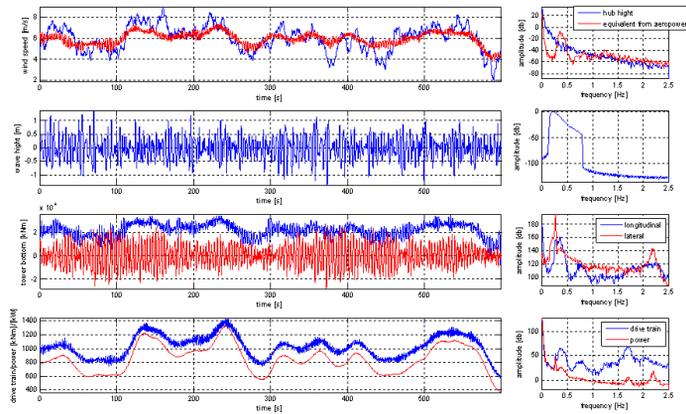
- Statistics of other sensors...



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mplot

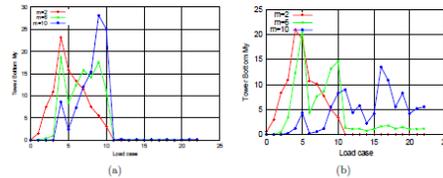


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Fatigue analysis

Tower Bottom Bending Moment for Sideways Motion



```

Input for the RFC program
2          Fileformat (1:flex4, 2:hawc)
0          Start time to skip
15        Wind channel
          end with -1.
Snr  DX  Freq
17  1.0  1.0
29  1.0  1.0
30  1.0  1.0
-1

```

Snr= sensor channel
Freq = Hz equivalent load ranges

```

Name of RFC files, Markovfile option (0/1), name of markovfile (no extensions)
RFCs 0 d:RFCMark
List of timeseries that is treated + number of operating hours
Filename                                     Hours
C:\Users\Hawc2_model\simulation_iec\d1c11_ntm_6_s1002_wd0.dat 1
C:\Users\Hawc2_model\simulation_iec\d1c11_ntm_12_s1005_wd0.dat 10
C:\Users\Hawc2_model\simulation_iec\d1c11_ntm_18_s1008_wd0.dat 100
C:\Users\Hawc2_model\simulation_iec\d1c11_ntm_22_s1010_wd0.dat 1000

```

Hour= hours of operation

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Exercise

- **Run Example.m with results from IEC simulations DLC1.1, NTM 6-26 m/s:**
 1. Delete any existing results (FatigueRes, StatisticsRes) StatisticsRes
 2. In the Example.m:
 - Correct input to StatisticFun(FileName,ChWs,ChP) (ChWs: channel with wind speed and ChP: channel with power output)
 - Set path to m.plot to a single selected result file
 3. Set path to results in StatInputFile.txt for 11 loadcases from yesterday
 4. Set path in rfc_j.inp (../../../../../simulation_iec/iec_res/) for four LC's
 5. Run Example.m

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