

Parallel measurement combination strategy

M2~PMC60

Parallel measurement combination summary

Output time series

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Signal Name | Signal Height | Valid data [years] | Mean | Start Date | End Date | Date Last Calculated |
| PMC60 | 60m | 1.4383 | 6.439 | 11/11/2010 03:40 | 28/04/2012 06:20 | 13/10/2022 18:56 |

Input time series to combine

|  |  |  |
| --- | --- | --- |
| Wind speed one | Wind speed two | Direction measurement |
| M2~ws60N~Mean | M2~ws60S~Mean | M2~D57\_Recon |

Parallel measurement combination periods

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Start date | End date | Exclusion width one | Exclusion width two | Boom orientation one | Boom orientation two |
| 31/10/2010 00:00:00 | 28/04/2012 06:20:00 | 60 | 60 | 0 | 199 |

|  |  |
| --- | --- |
| Calculation settings |  |
| Pre-synthesise and splice wind speeds before directional splice | True |
| Force through origin | True |
| Iterate to site low speed cutoff | True |
| Ref low speed cut off | 3 |
| Direction bin count | 36 |
| Correlation fitting method | PCA |

Parallel measurement combination periods

Parallel measurement combination period 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Start date | End date | Exclusion width one | Exclusion width two | Boom orientation one | Boom orientation two |
| 31/10/2010 00:00:00 | 28/04/2012 06:20:00 | 60 | 60 | 0 | 199 |

Data was pre-synthesised and spliced between the two wind speed measurements to fill gaps due to missing records.

|  |  |  |
| --- | --- | --- |
|  | Number of records | Proportion of output |
| Speed series 1 and 2 both available | 75651 | 100.00% |
| Speed series 1 and 2 and direction all available | 75651 | 100.00% |
|  |  |  |
| Only speed series 1 used in output | 8310 | 10.98% |
| Only speed series 2 used in output | 7565 | 10.00% |
| Average of series 1 and 2 used in output | 59776 | 79.02% |
| Overall output | 75651 | 100.00% |

|  |
| --- |
| Plot of speed ratios where both speeds are greater than plot low speed cut-off |
|  |