

# Re: Averaging wind speed in tropical and extra-tropical storms

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*Source:* <http://sci.tech-archive.net/Archive/sci.geo.meteorology/2005-09/msg00082.html>

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- *From:* "Shawn Delaney" <[sd19surf@xxxxxxxxxx](mailto:sd19surf@xxxxxxxxxx)>
  - *Date:* Thu, 22 Sep 2005 23:16:39 GMT
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The height on the bouys that are used run about 30m which the frictional effects of land can be assumed to be nil...on land the wind sensors at most airports sits ~6m of the gorund in which case would yield different wind speeds. Hurricane tracking software is now incorporating frictional effects as the storms approach land and do a fairly good job of accounting for terrian effects.

"Øyvind Seland" <[oyvindse@xxxxxxxxxxxxxx](mailto:oyvindse@xxxxxxxxxxxxxx)> wrote in message [news:dgr6tk\\$Vq2\\$1@xxxxxxxxxxxxxxxxxxxx](mailto:news:dgr6tk$Vq2$1@xxxxxxxxxxxxxxxxxxxx)

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> On the NOAA webpage I noted that the classification on hurricane strength was based on

> wind speed averaged over 1 minute. At least in Europe classification of wind speeds in extra-tropical

> storms call for a 10 minute average. Going from 10 to 1 minute average may yield a quite large

> increase in wind speed, depending on the nature of the storm and terrain.

I suppose for

> a tropical storm over ocean, it is probable not that large variation? For an extra-tropical

> storm over hilly terrain, the effect may be going from a strong gale to close to hurricane wind speed

> Are there no agreed on definition of wind speed?

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> Øyvind Seland

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- **Follow-Ups:**

- ◆ **Re: Averaging wind speed in tropical and extra-tropical storms**  
◇ From: I R A DARTH Aggie
- ◆ **Re: Averaging wind speed in tropical and extra-tropical storms**  
◇ From: Scott

- **References:**

- ◆ **Averaging wind speed in tropical and extra-tropical storms**  
◇ From: Øyvind Seland

- Prev by Date: **Re: Averaging wind speed in tropical and extra-tropical storms**
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