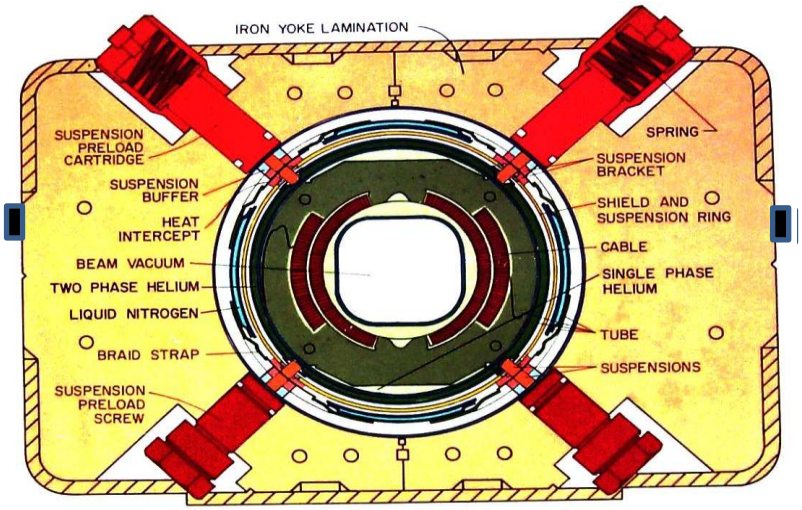
Tevatron Magnet Rolls
J Volk and a cast of thousands

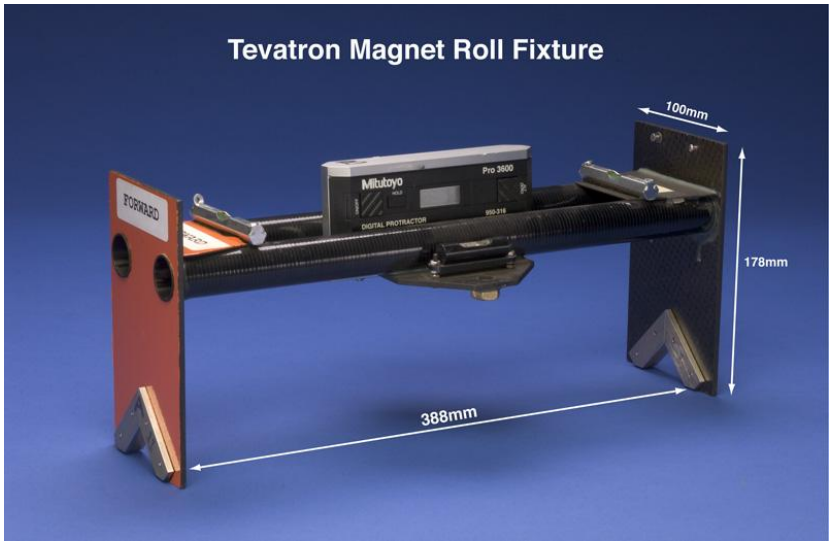
Rolls for the Tevatron quads and dipoles have been measured since 2003. Next is a graphical display of the rolls as a function of position around the ring. The length of the vector is proportional to the roll. Positive rolls point inward negative rolls point out.

Thanks to Peter Cooper of Computing Division for showing me how to do this.

Tev Dipole and Roll fixture

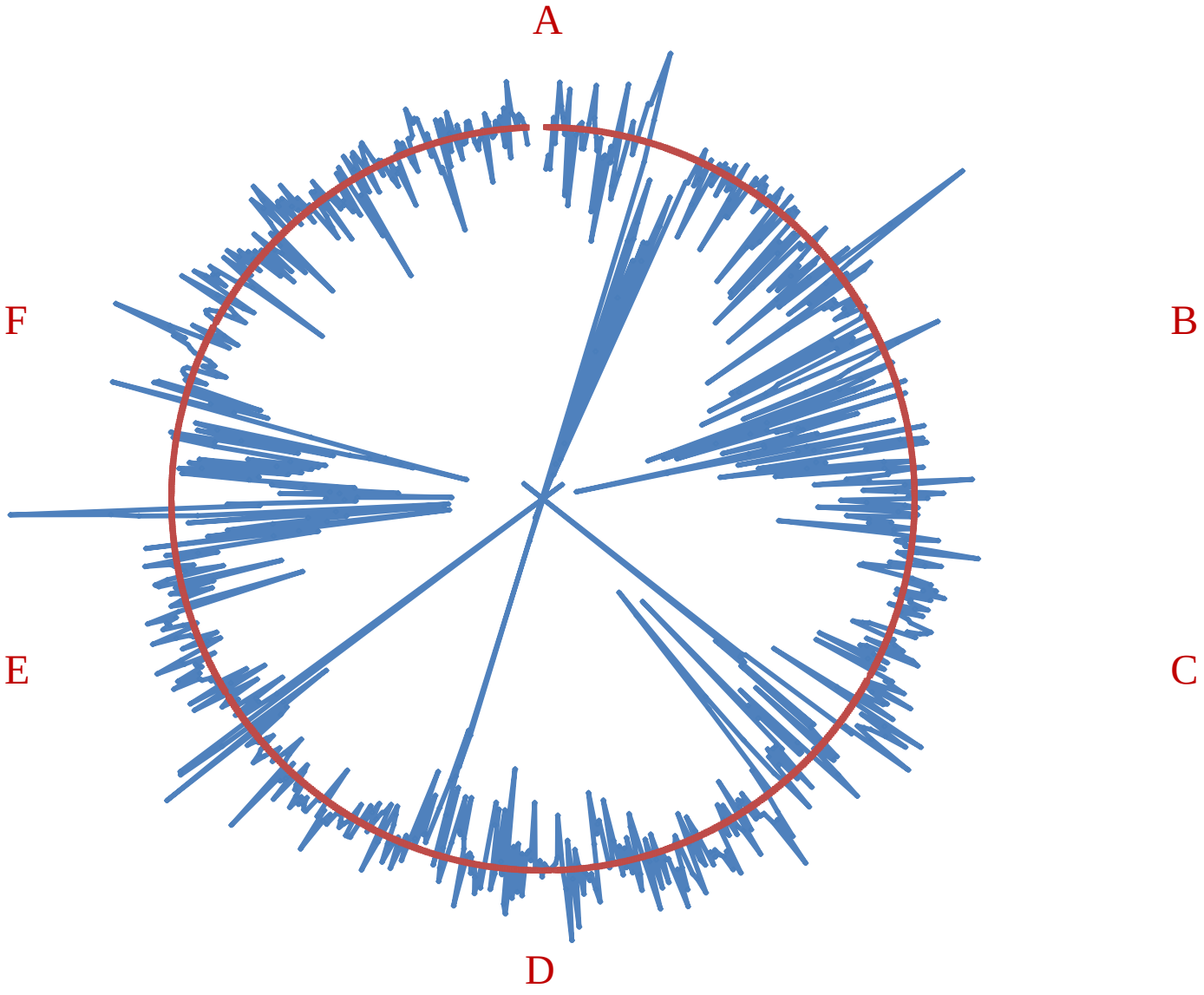


Survey lug



Digital level on Tevatron Dipole

October 03



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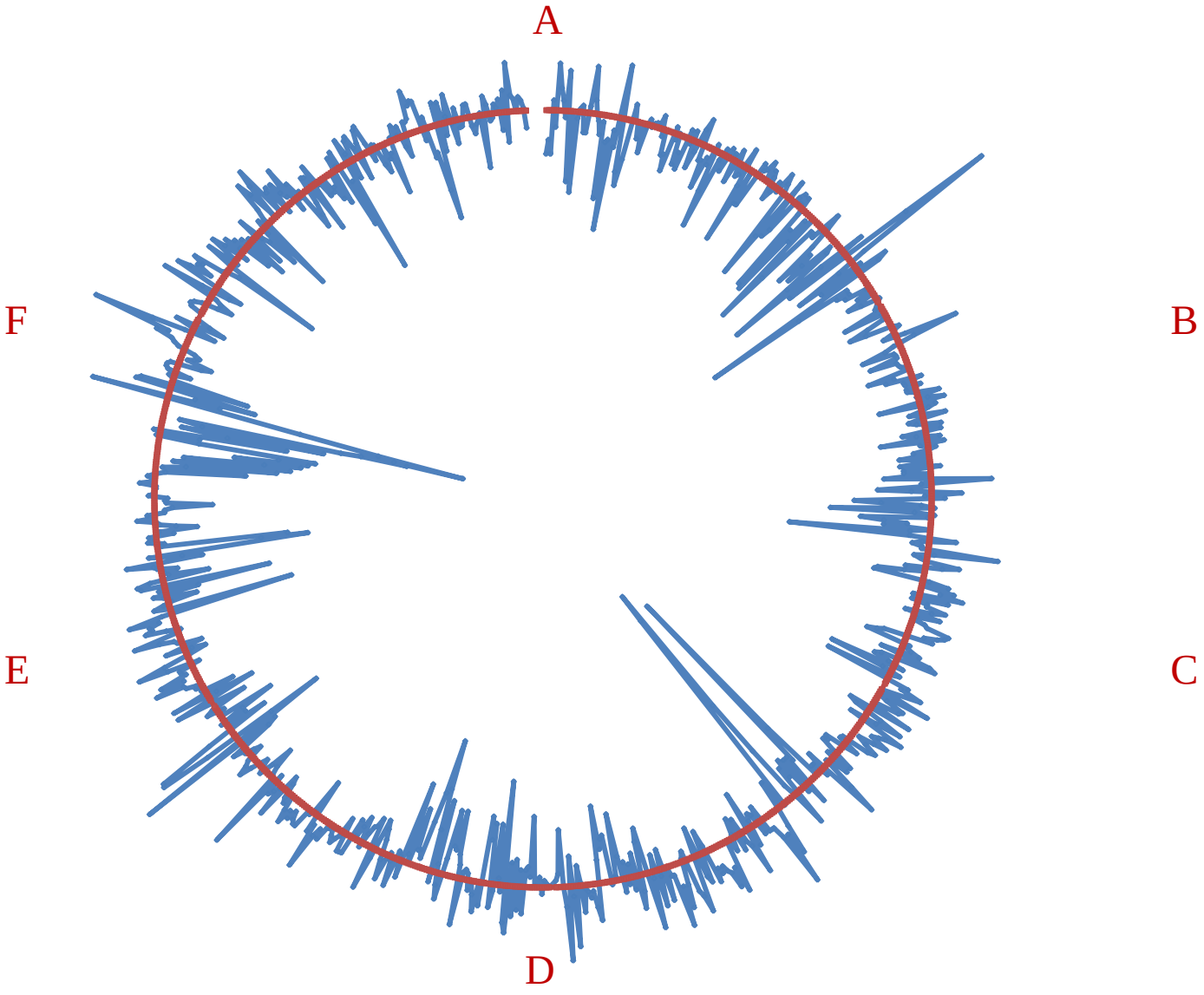

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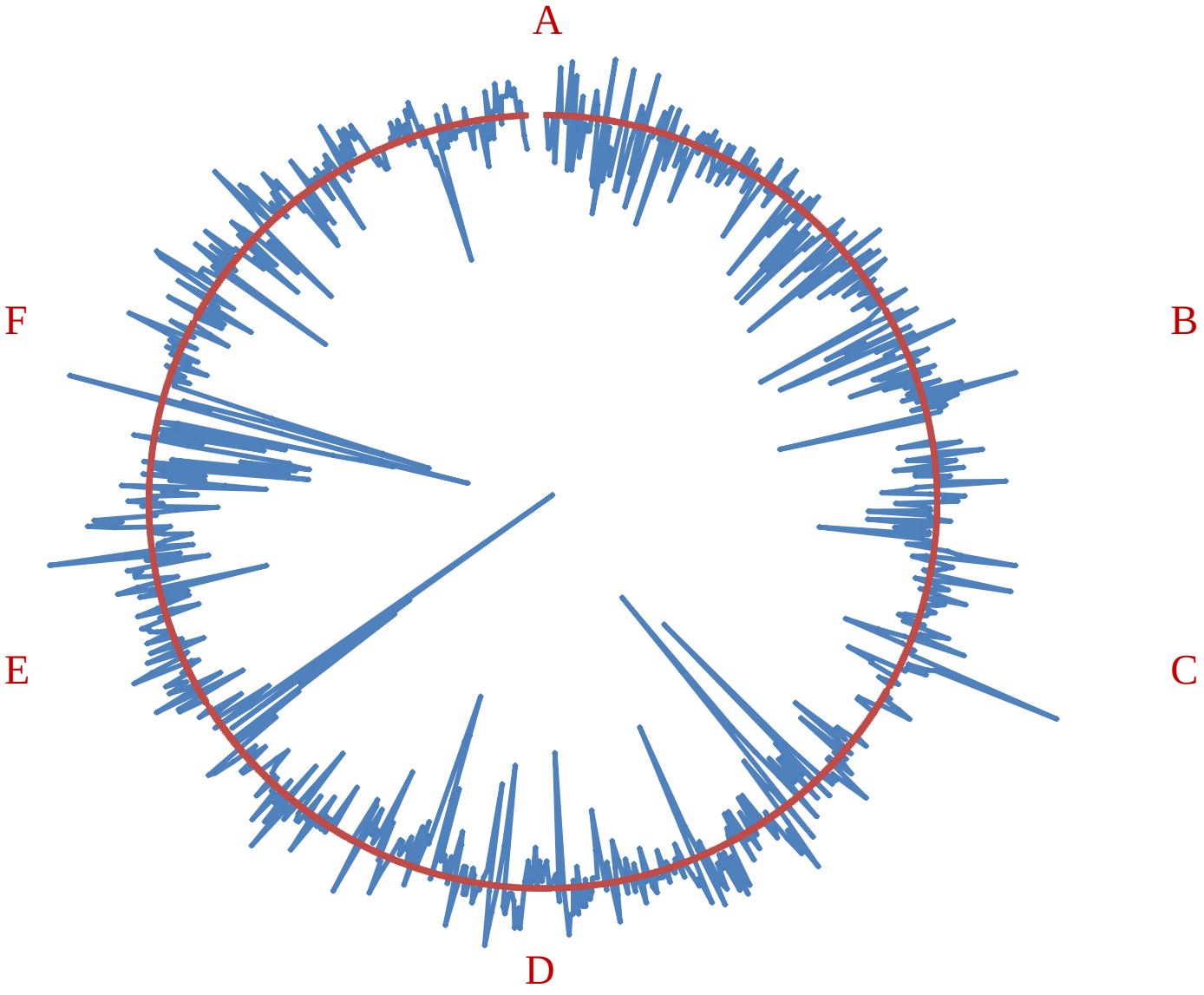

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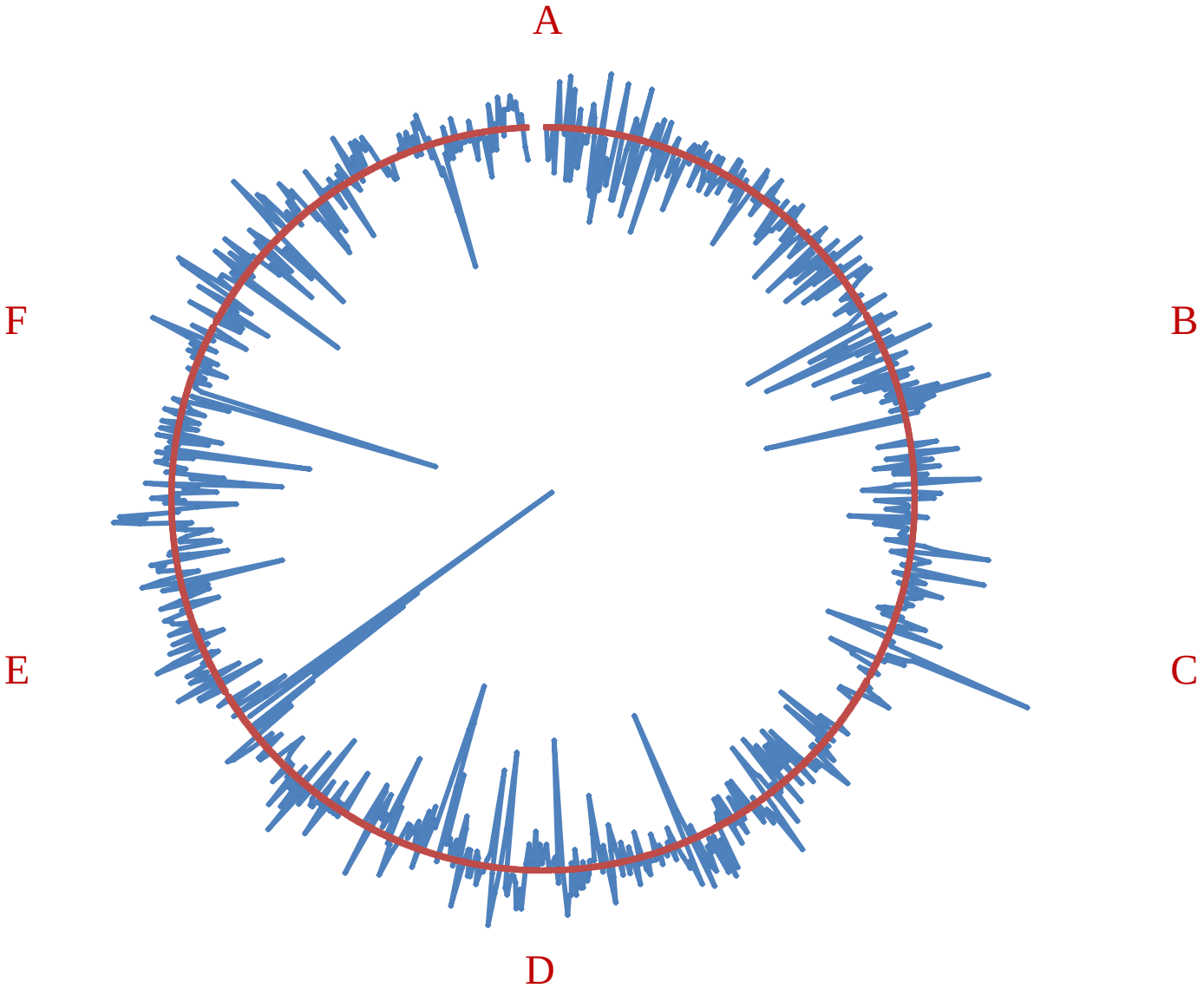

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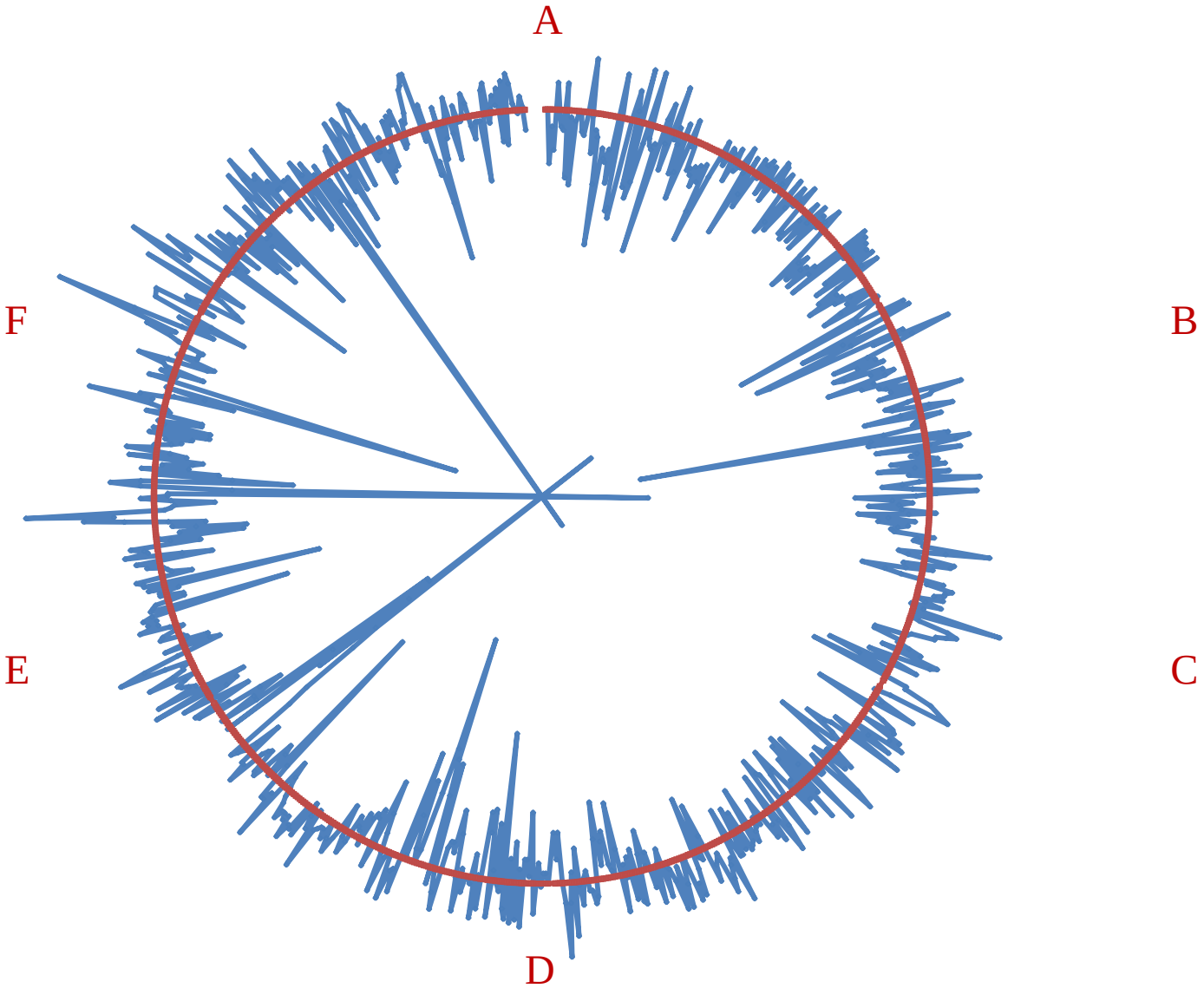
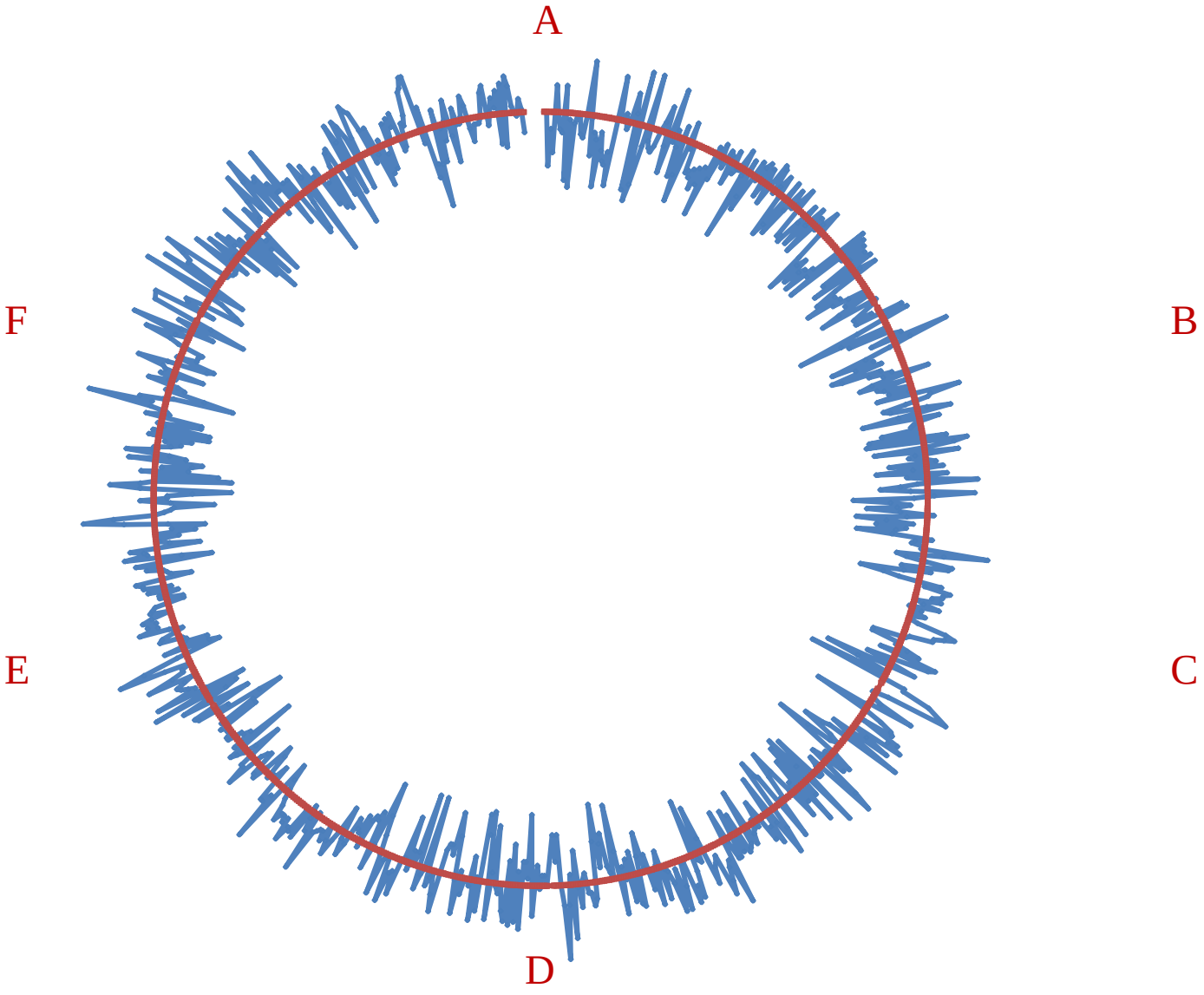
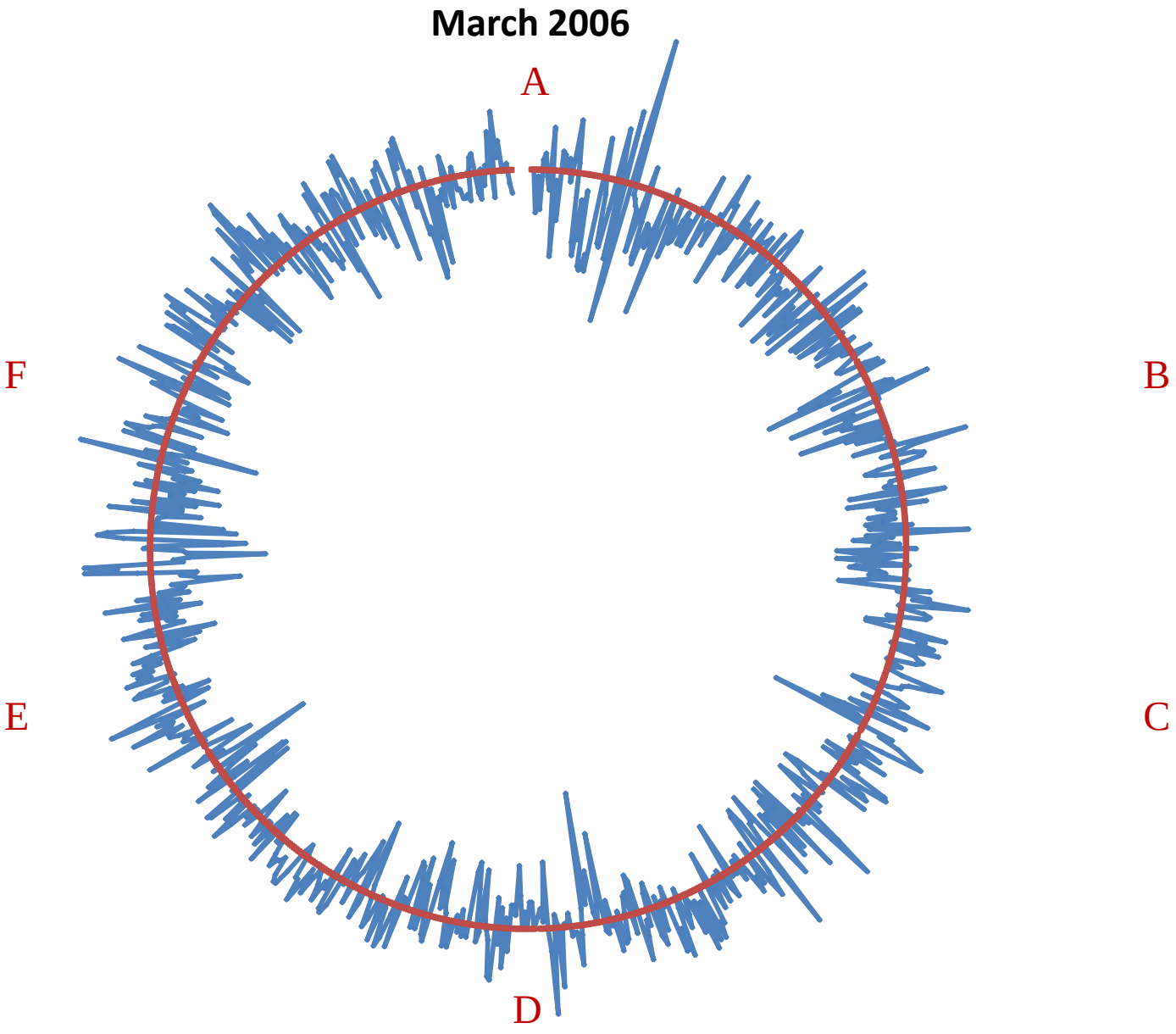


November 2004




March 2006
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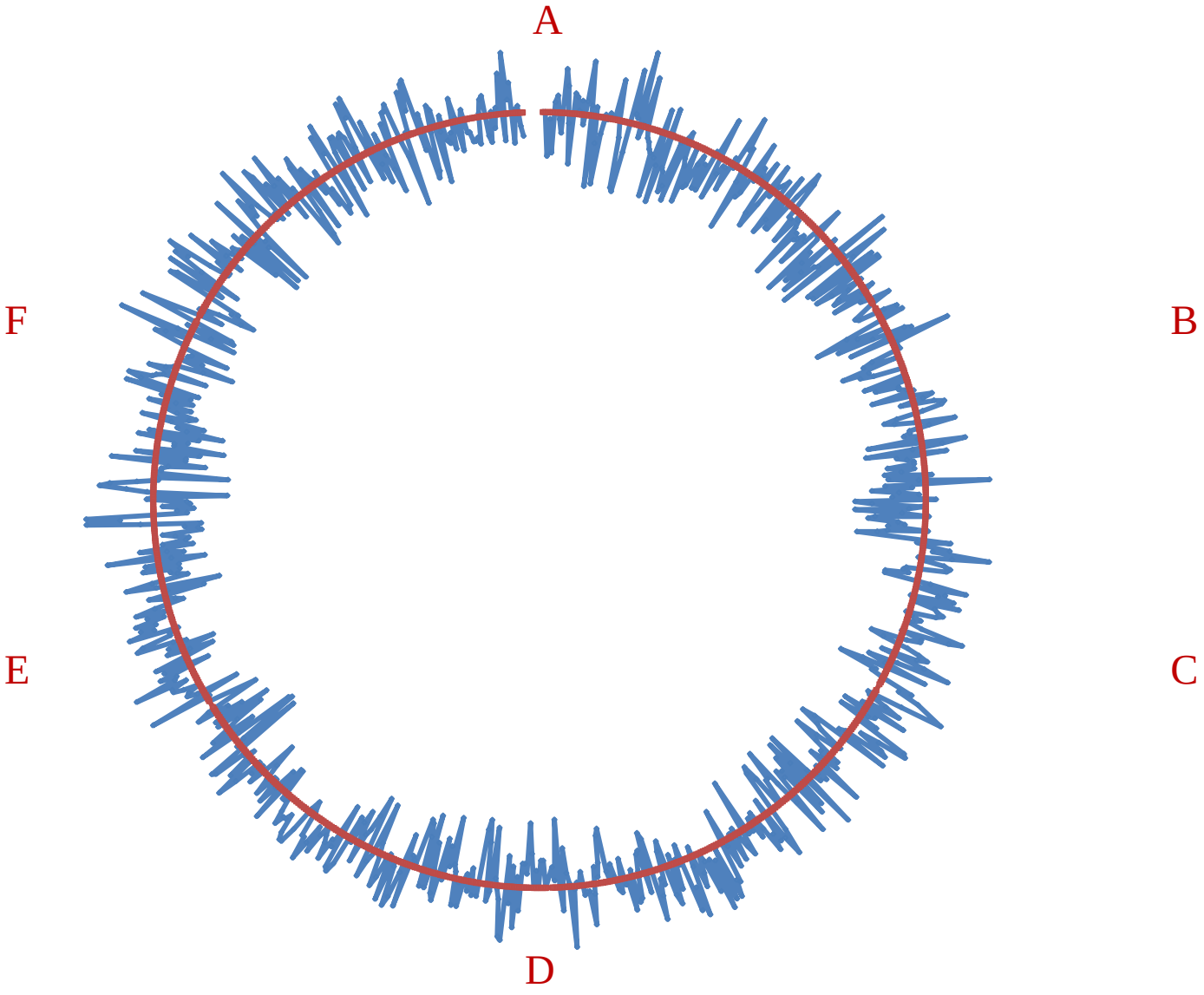
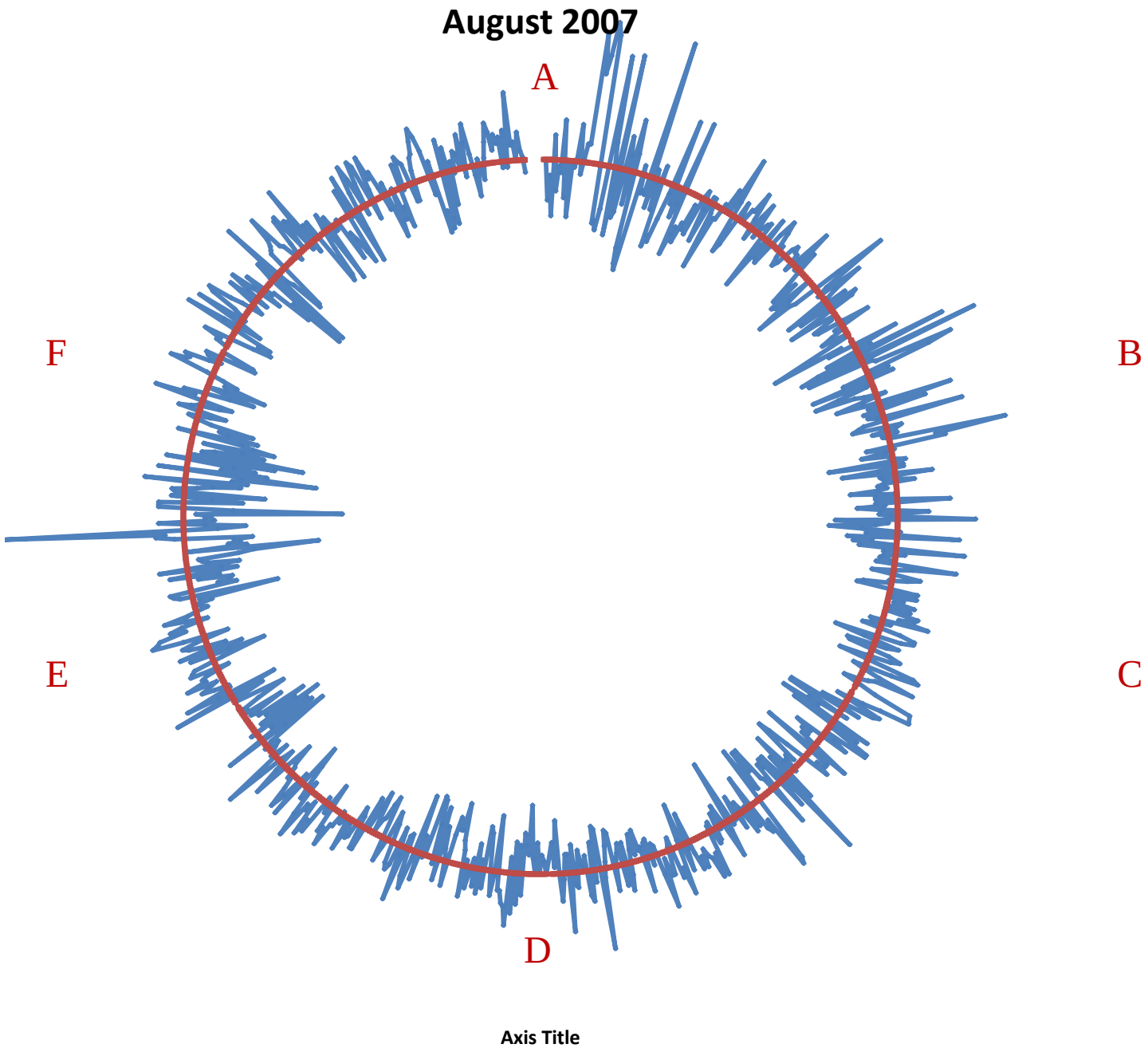
April 2006




August 2007
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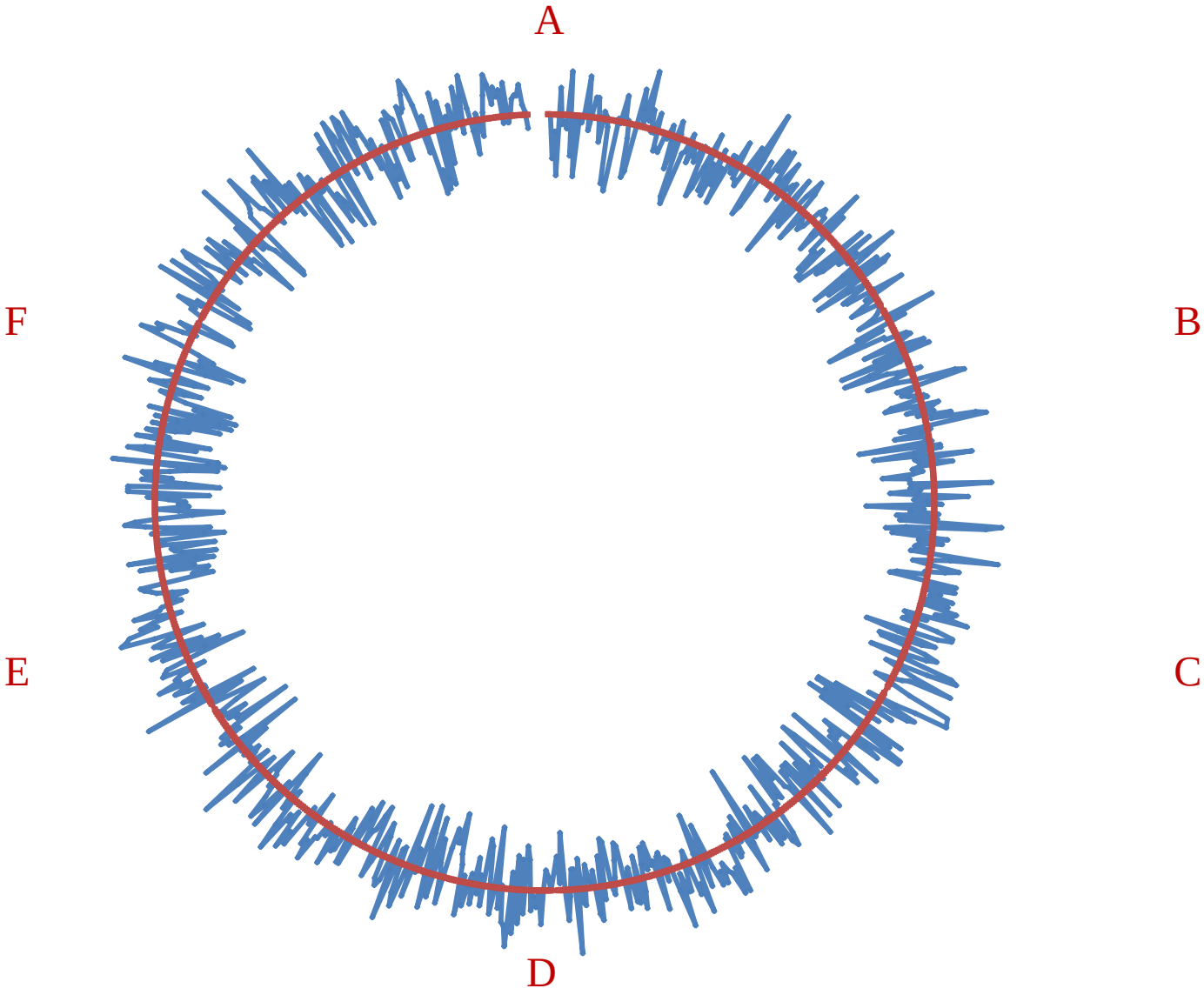
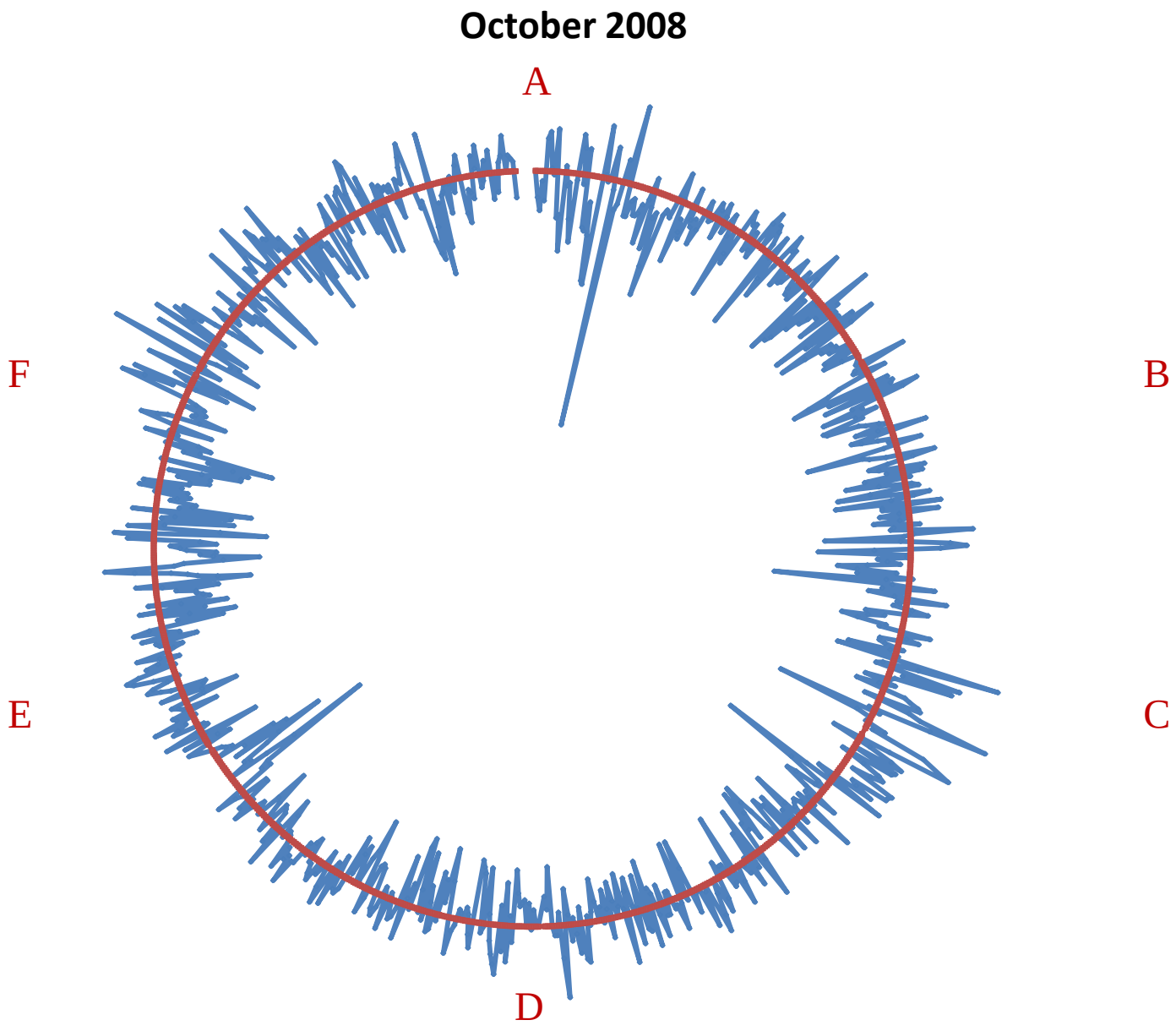
Axis Title

October 2007




October 2008
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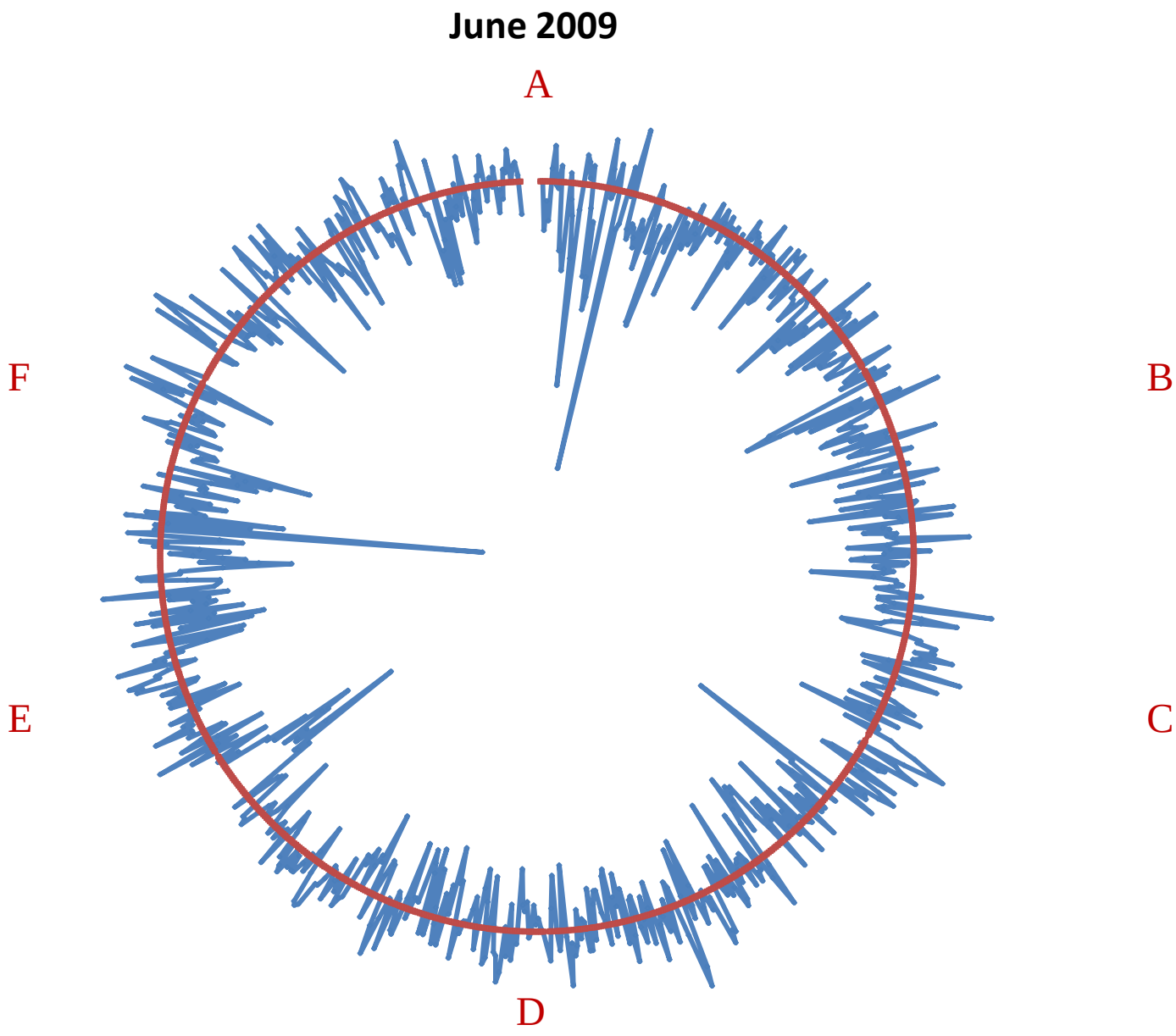
June 2009
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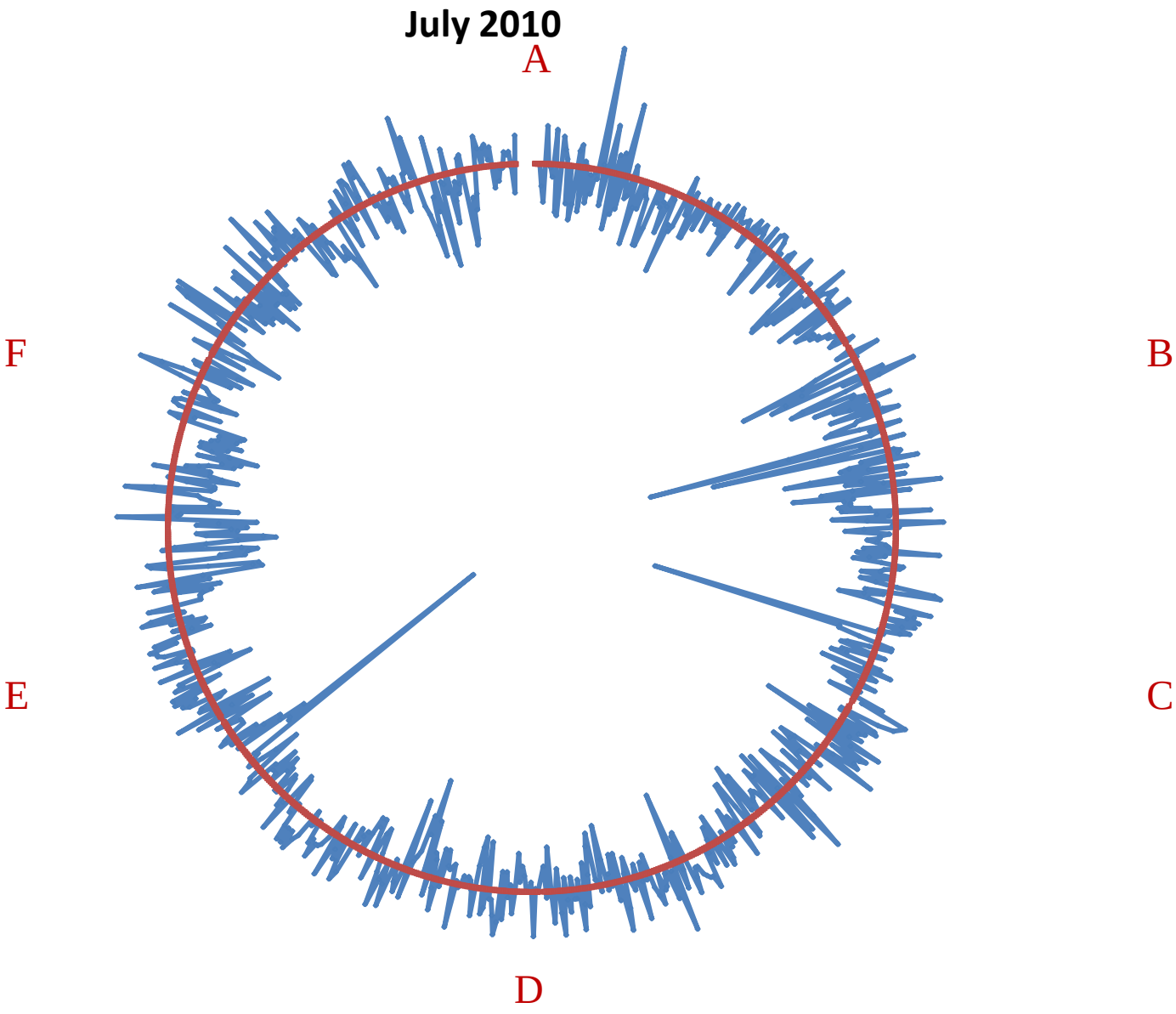
July 2010
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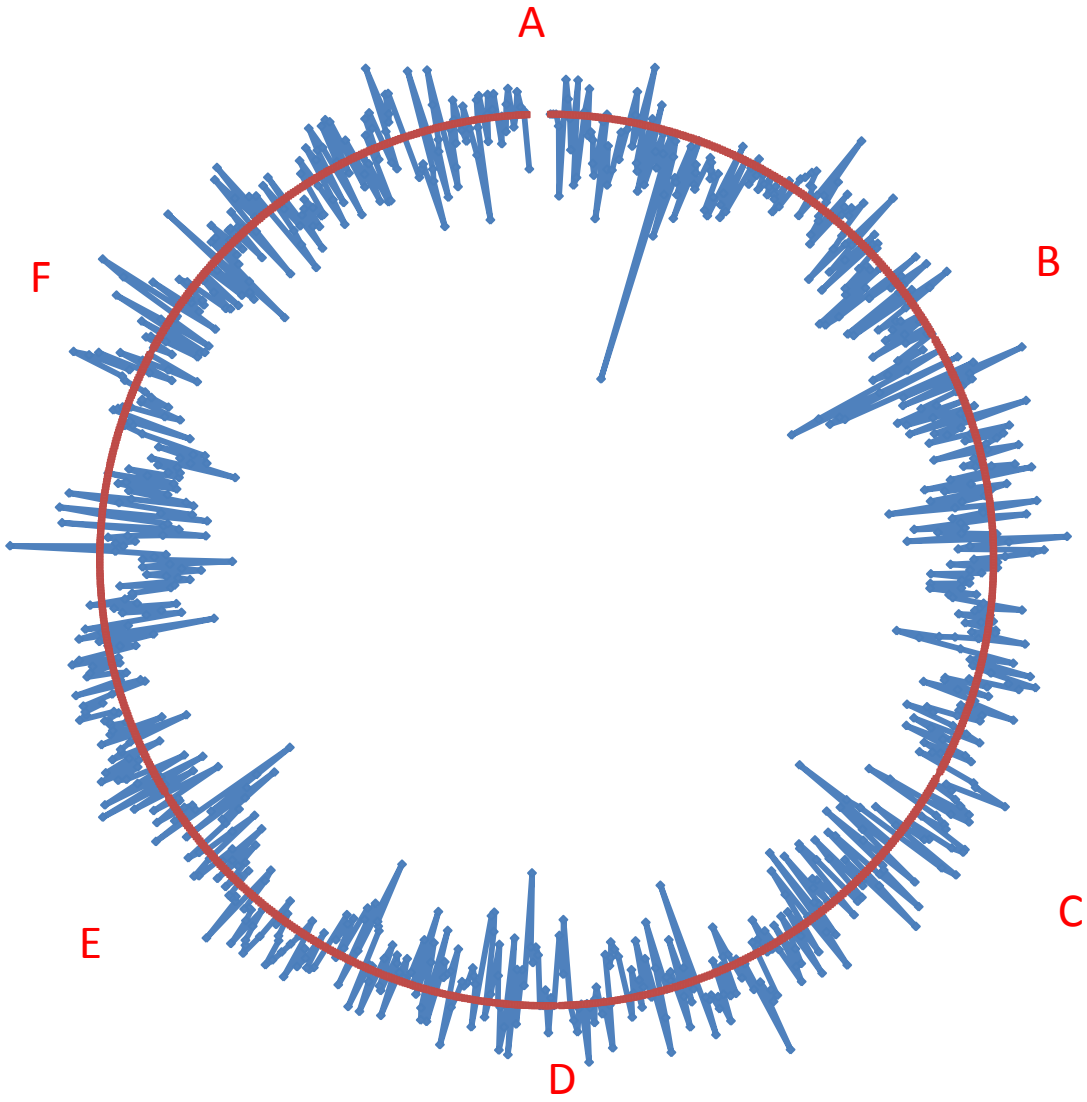
Rolls March 2011



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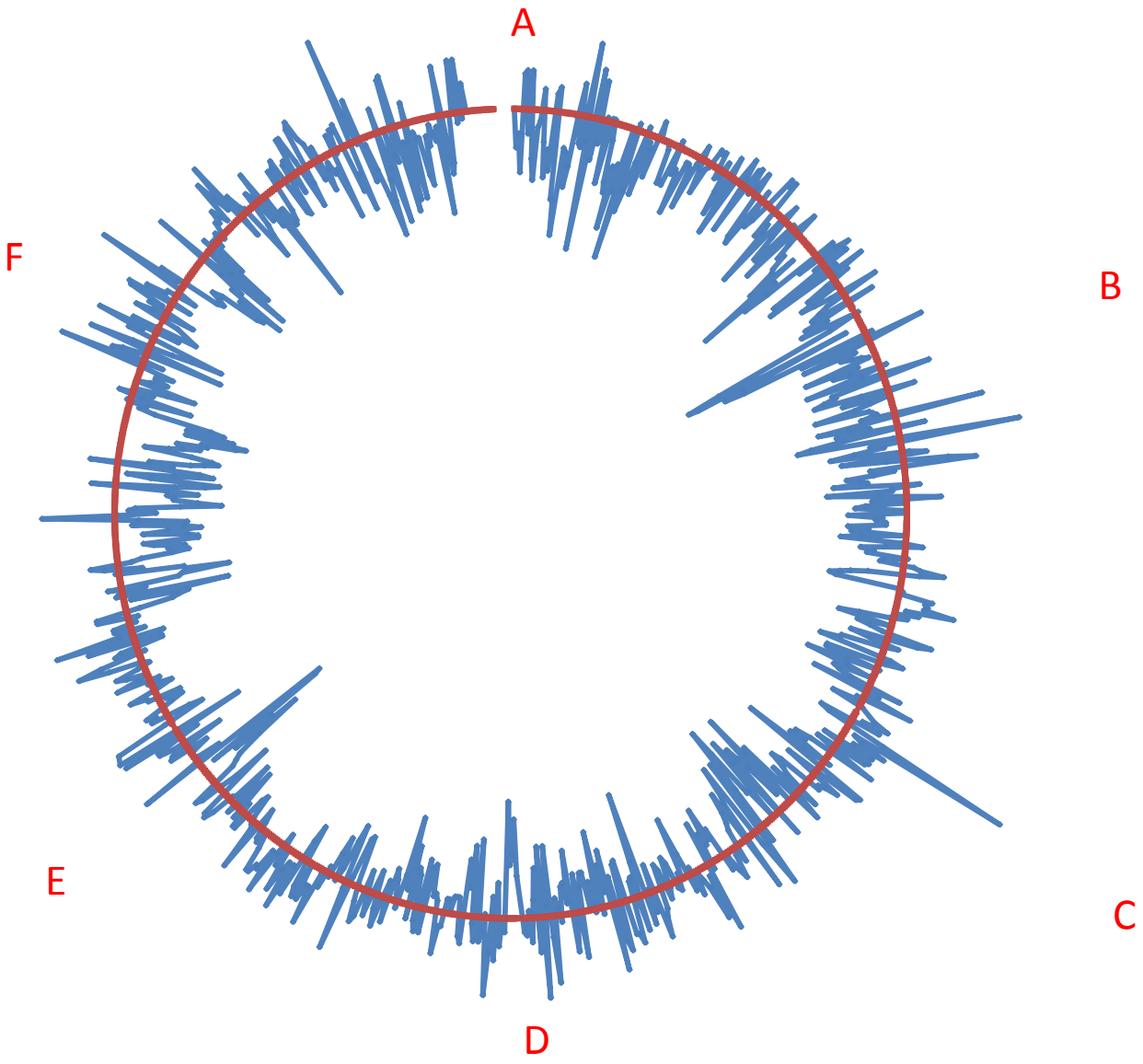

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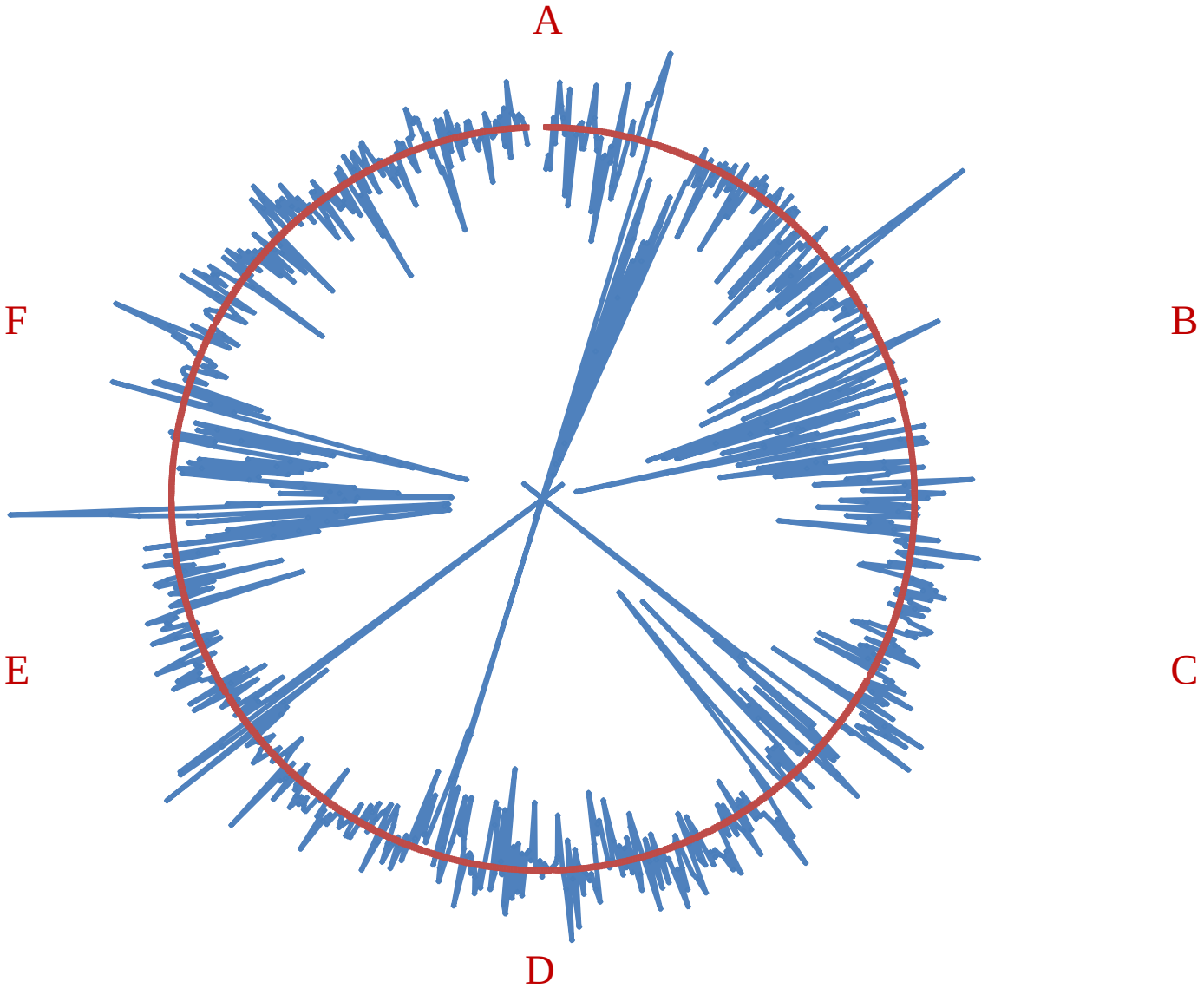

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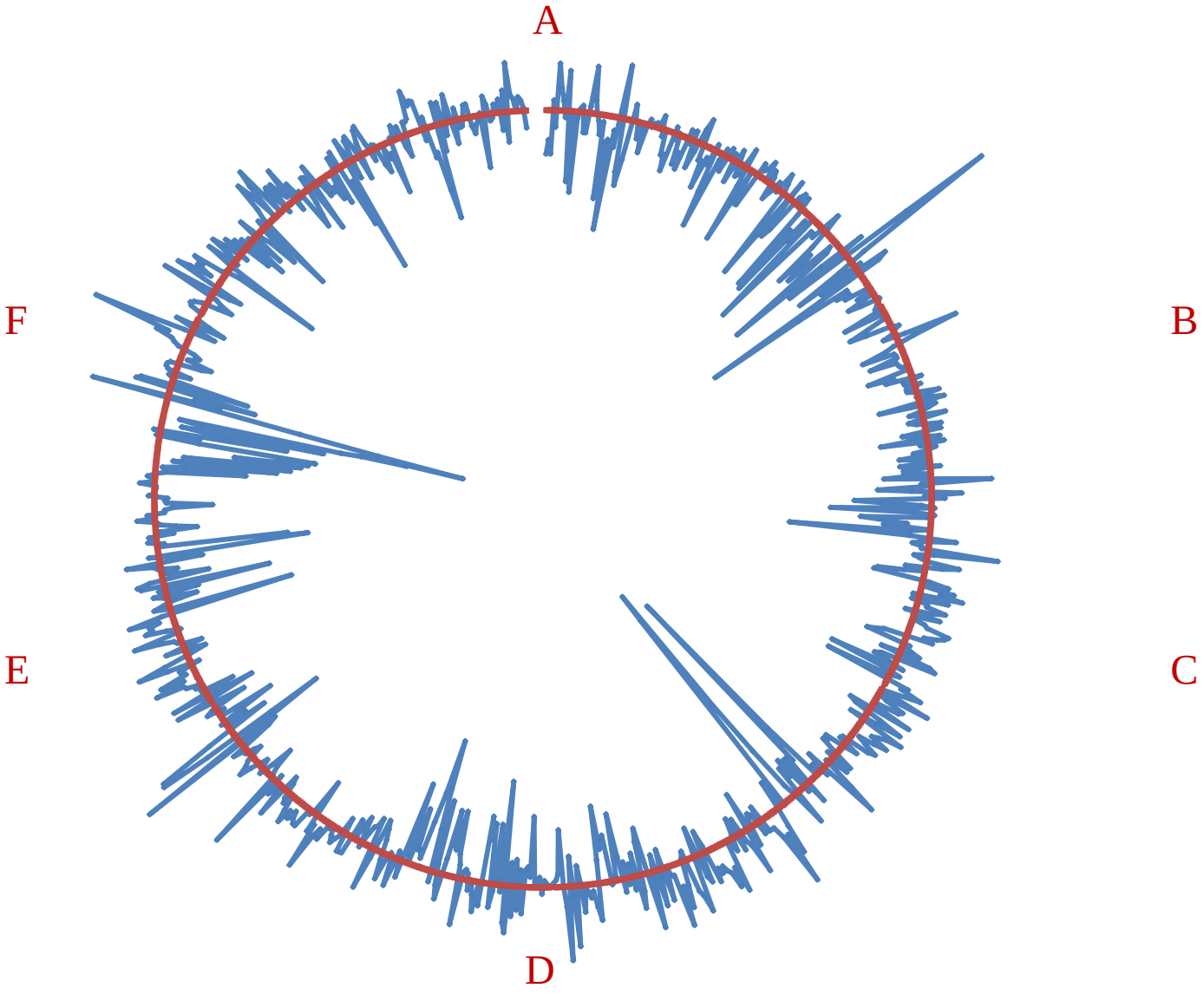

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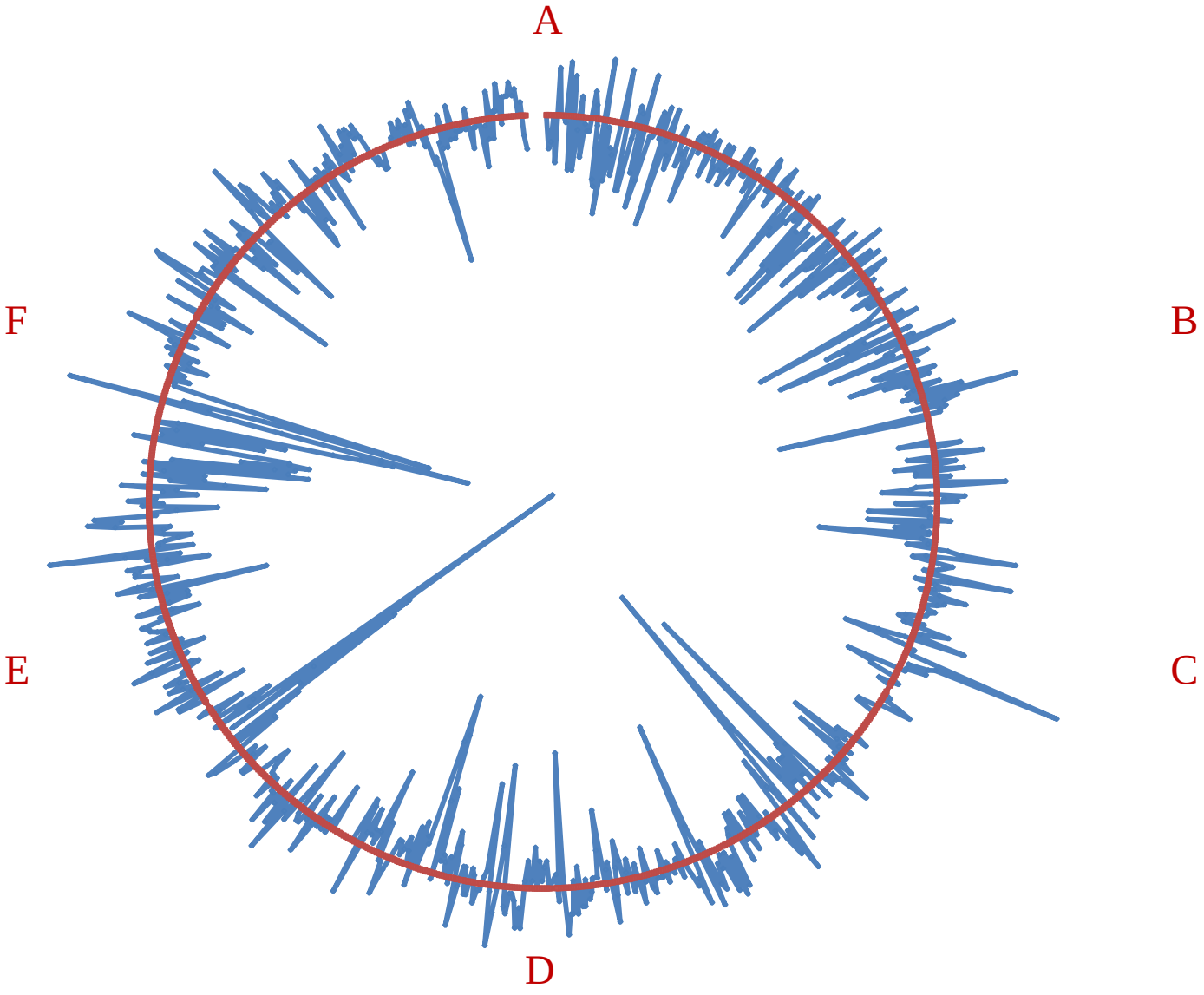

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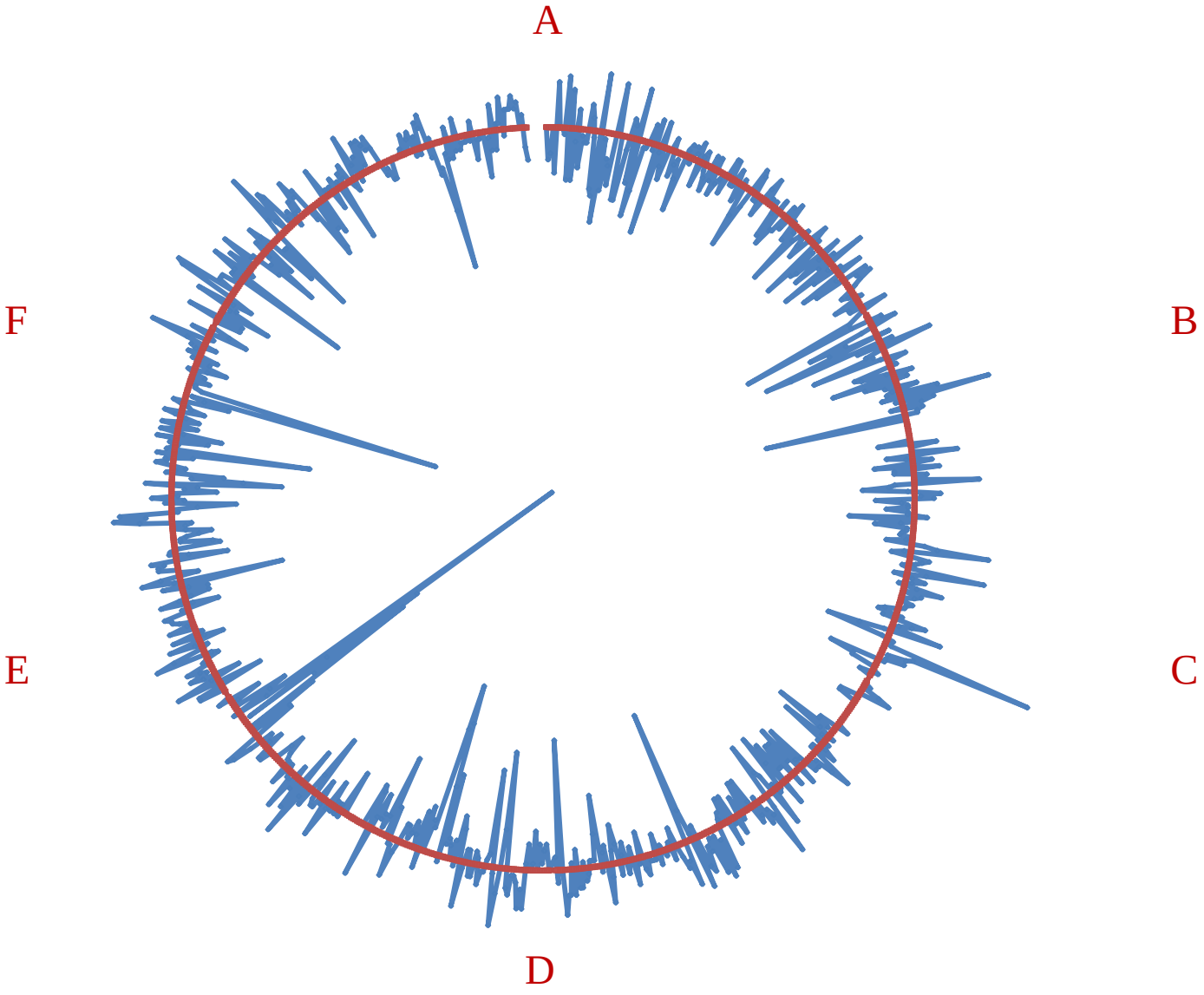

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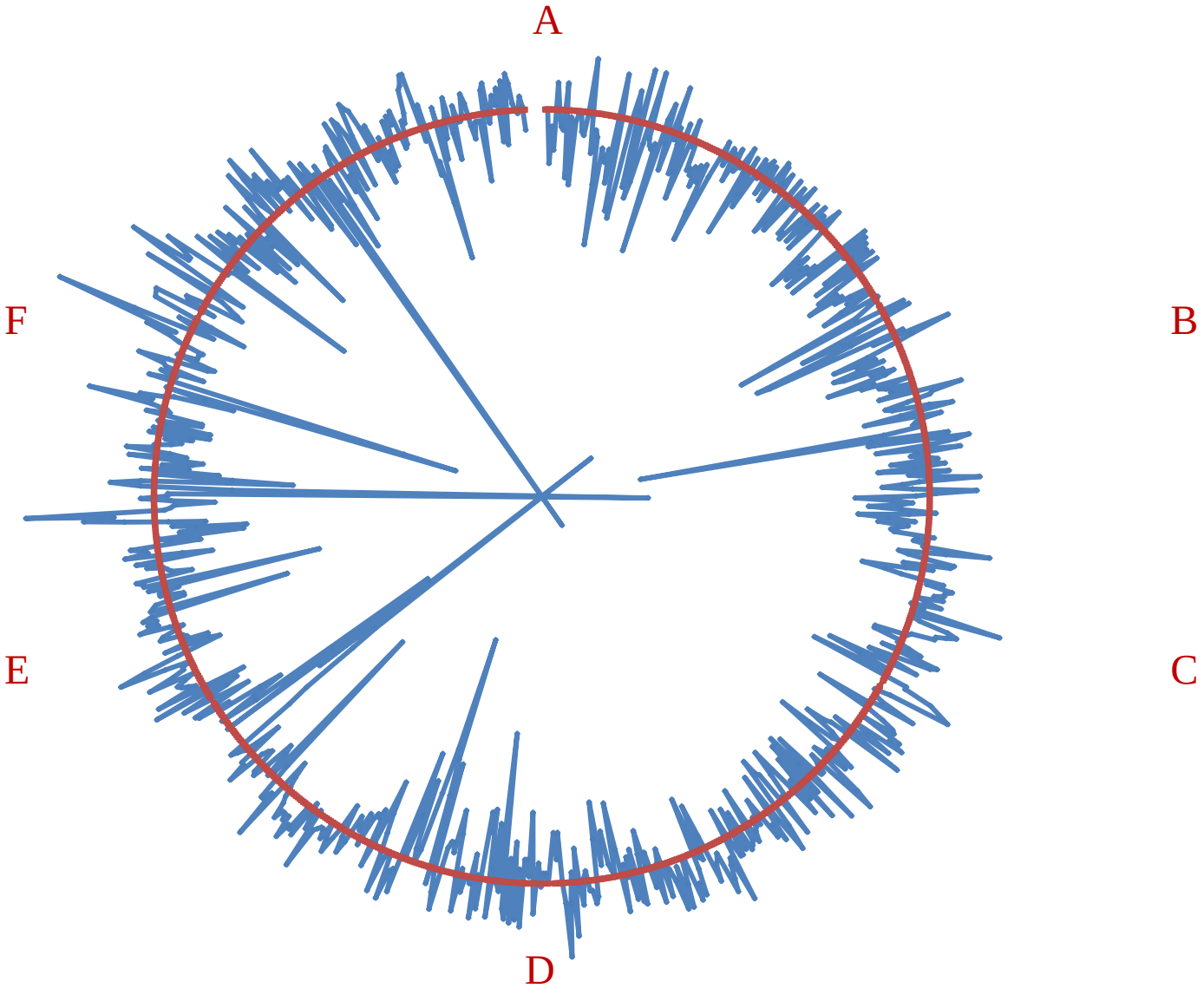
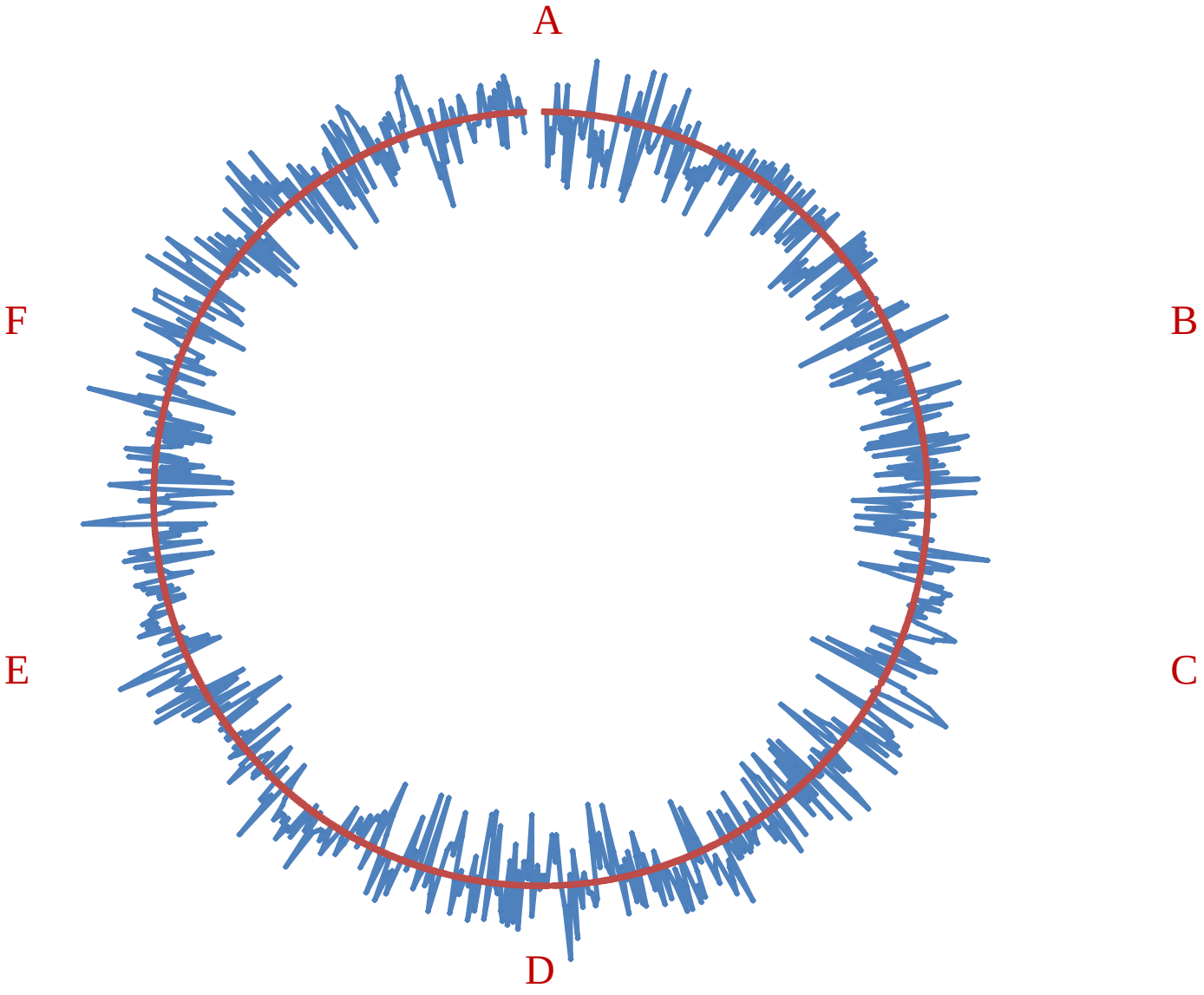
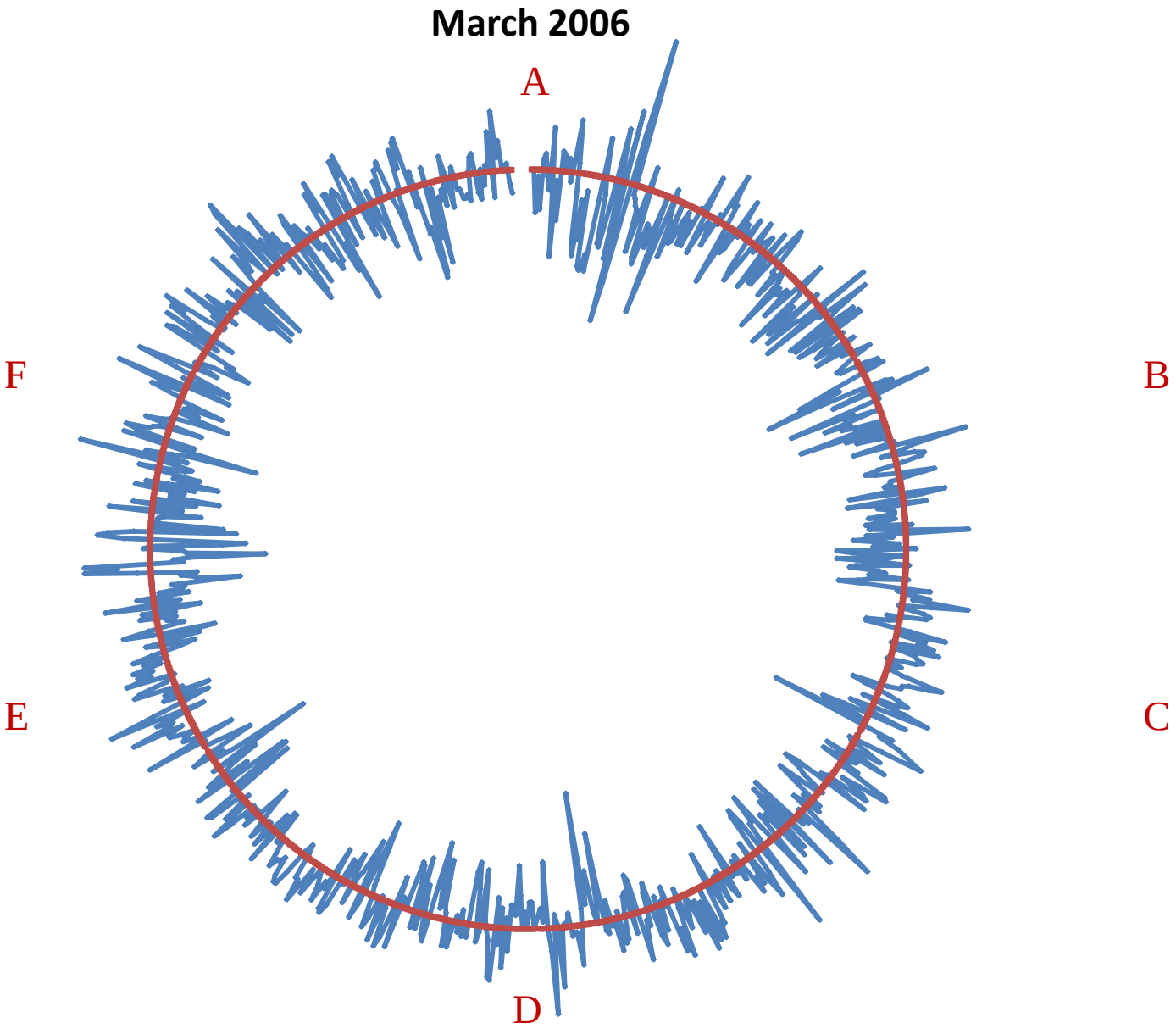


November 2004




March 2006
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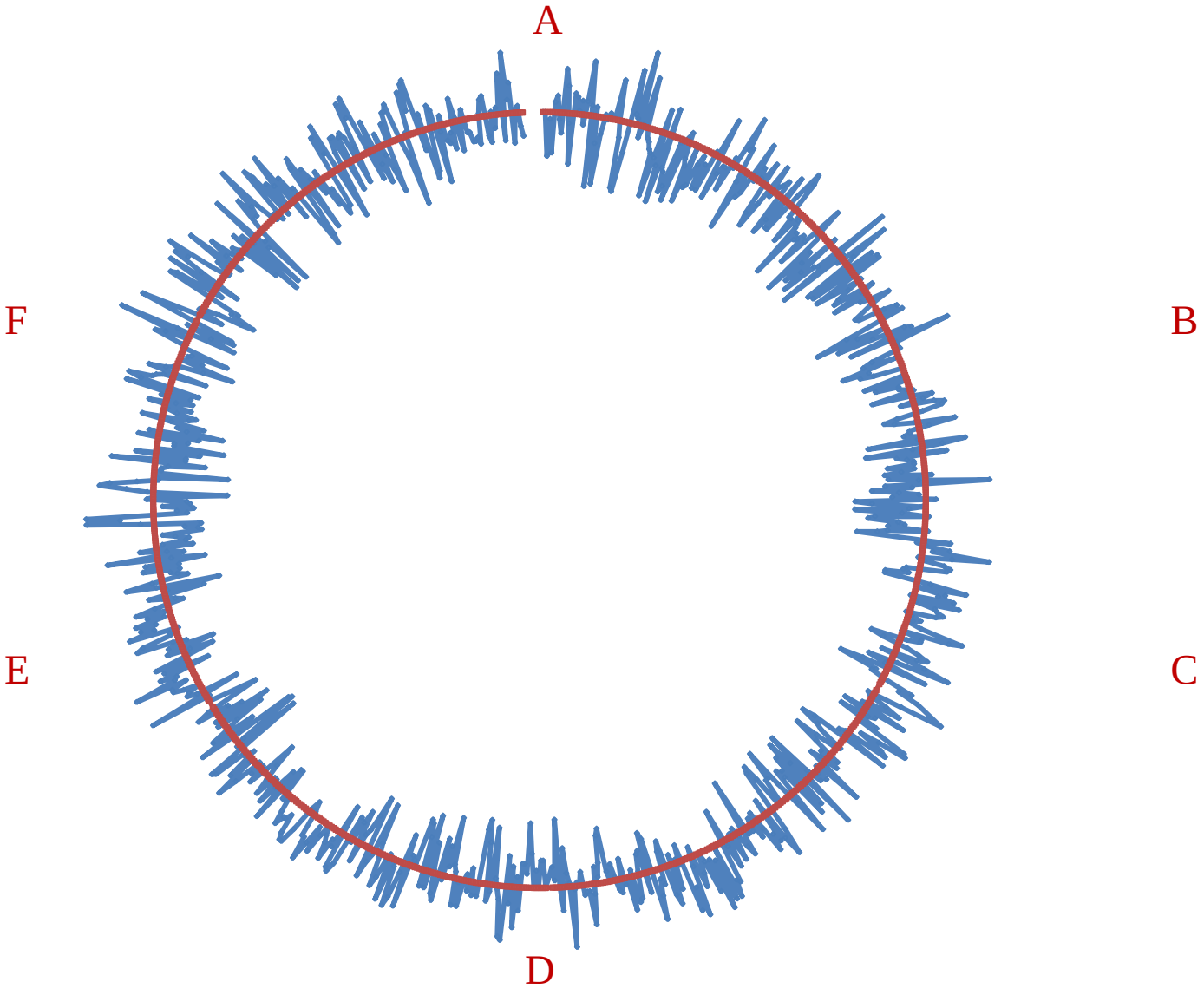
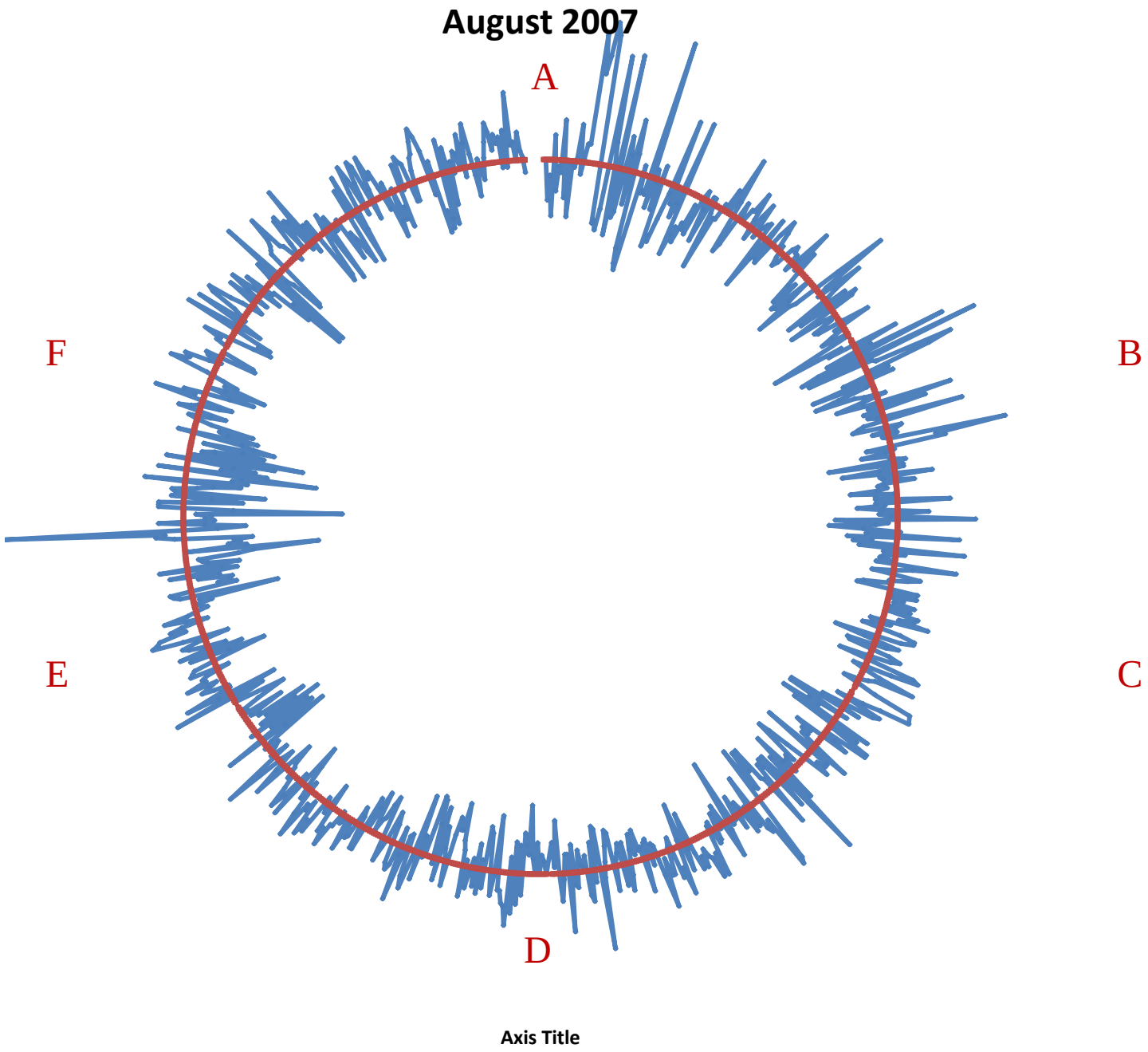
April 2006




August 2007
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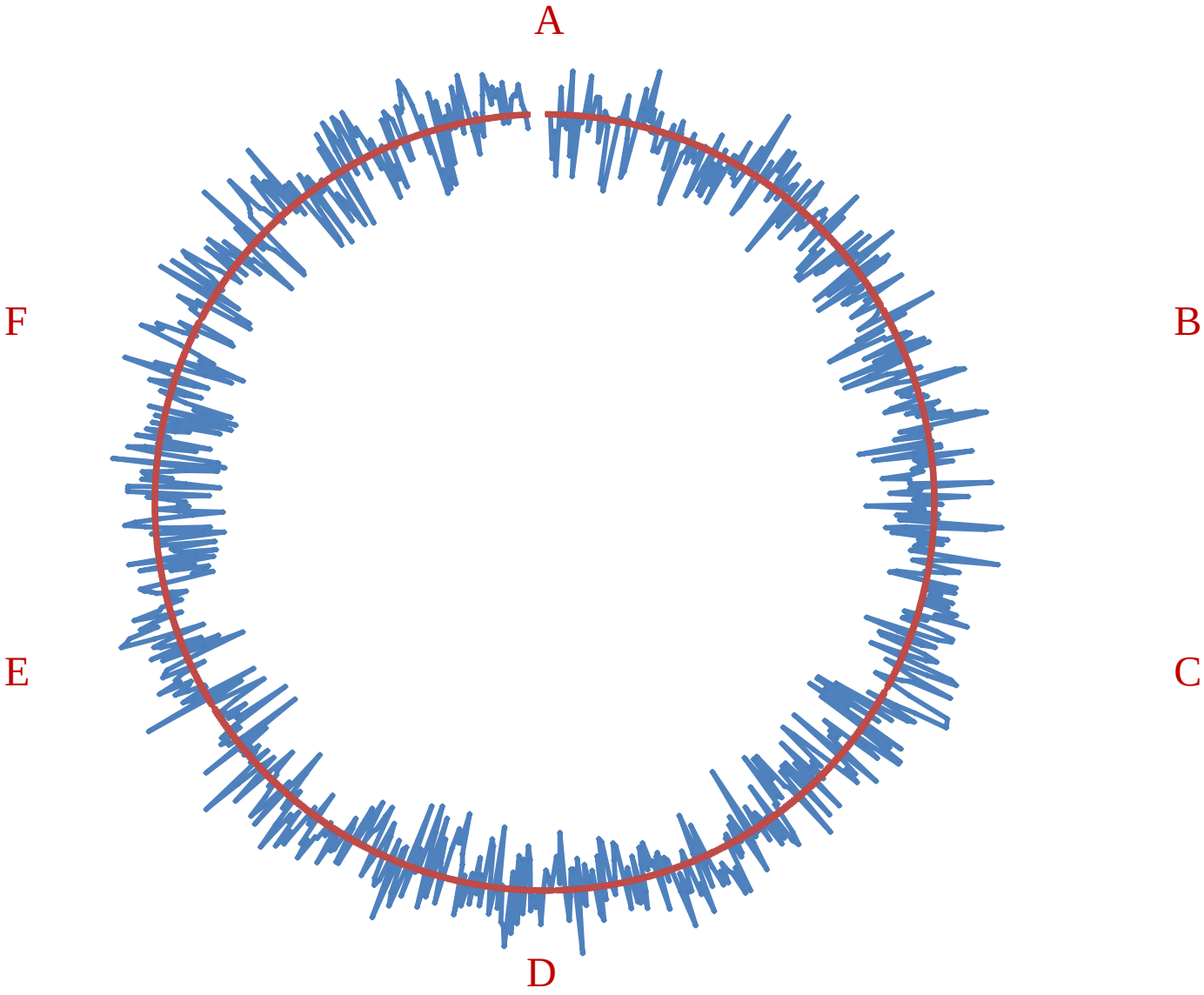
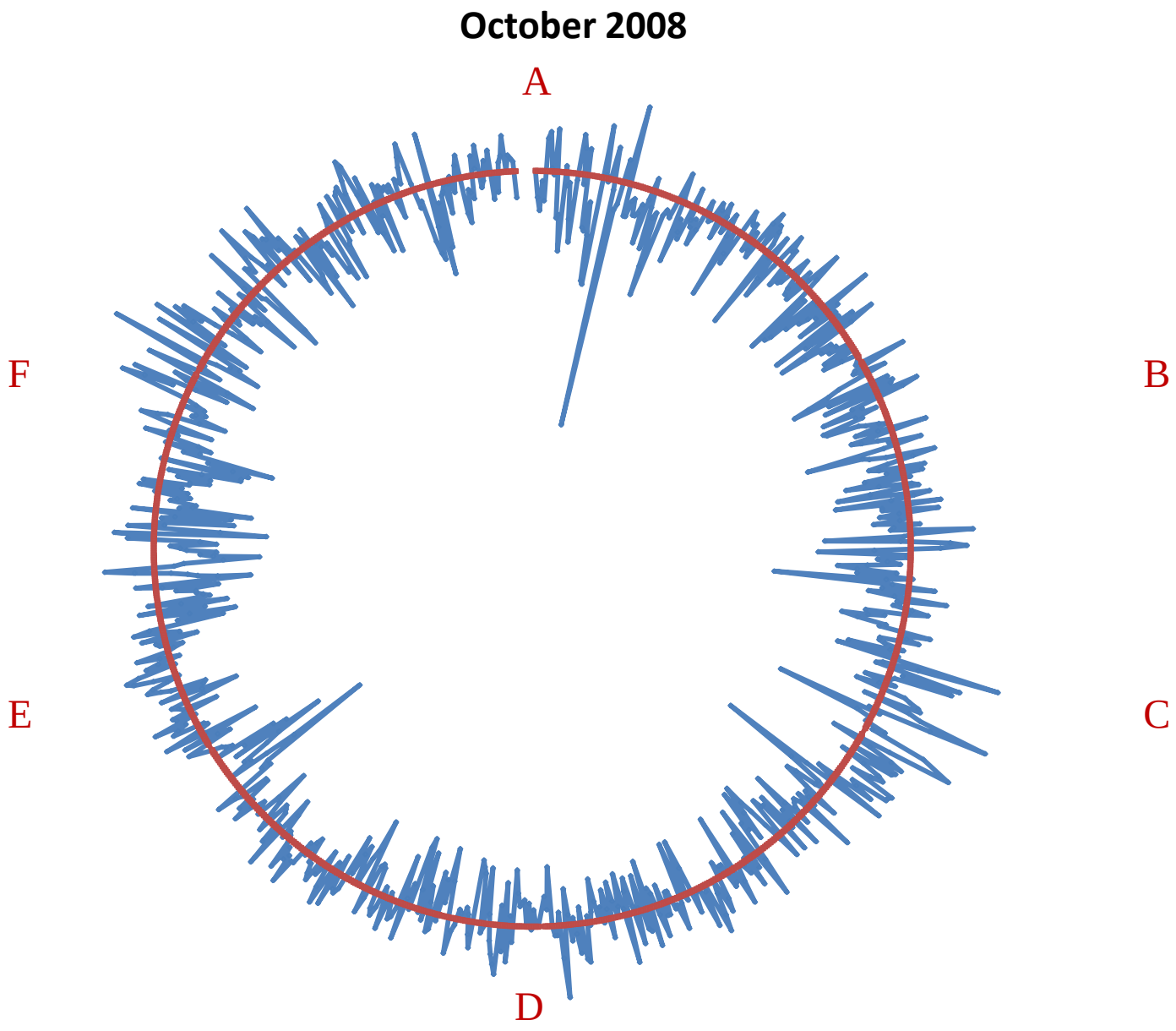
Axis Title

October 2007




October 2008
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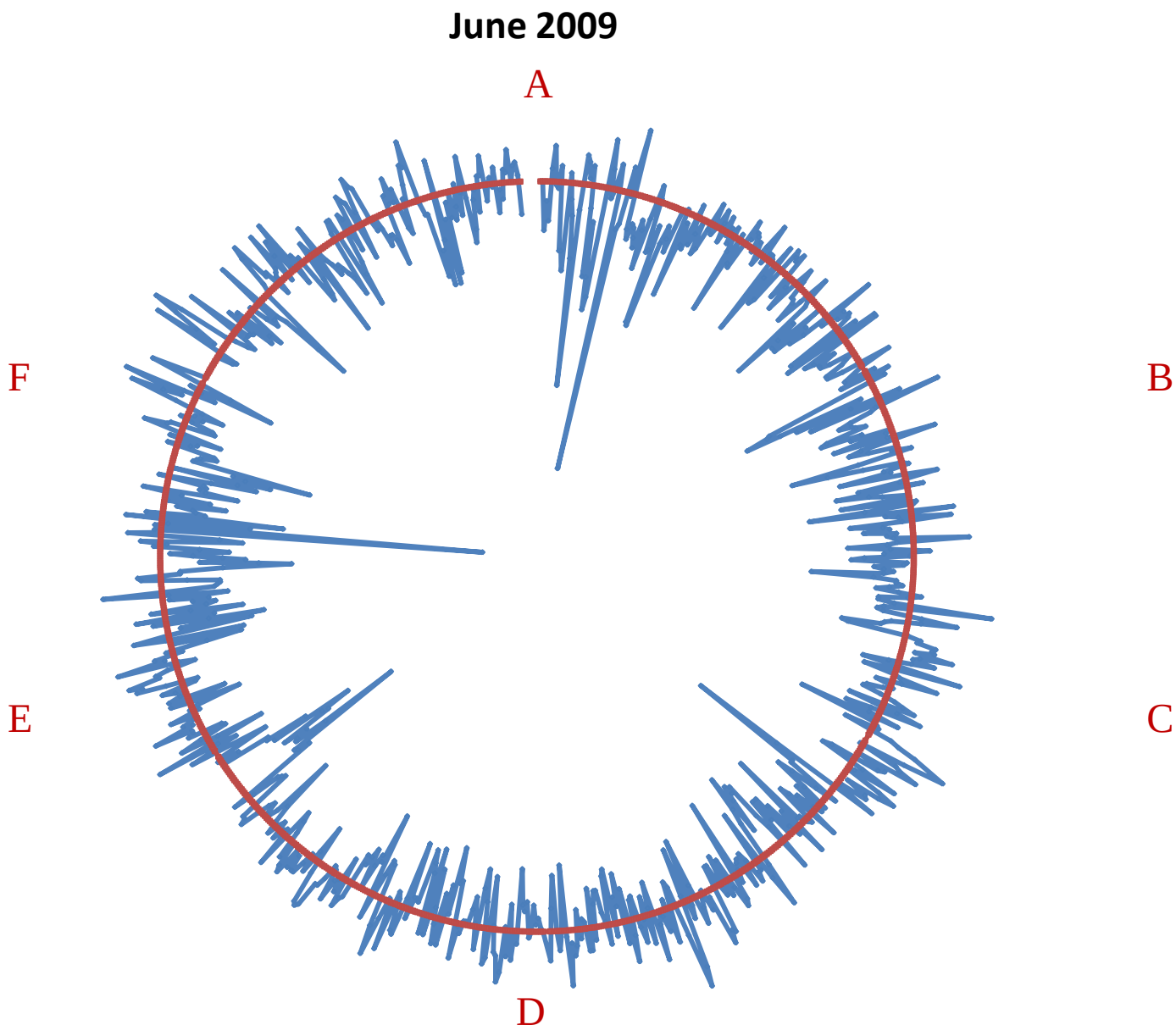
June 2009
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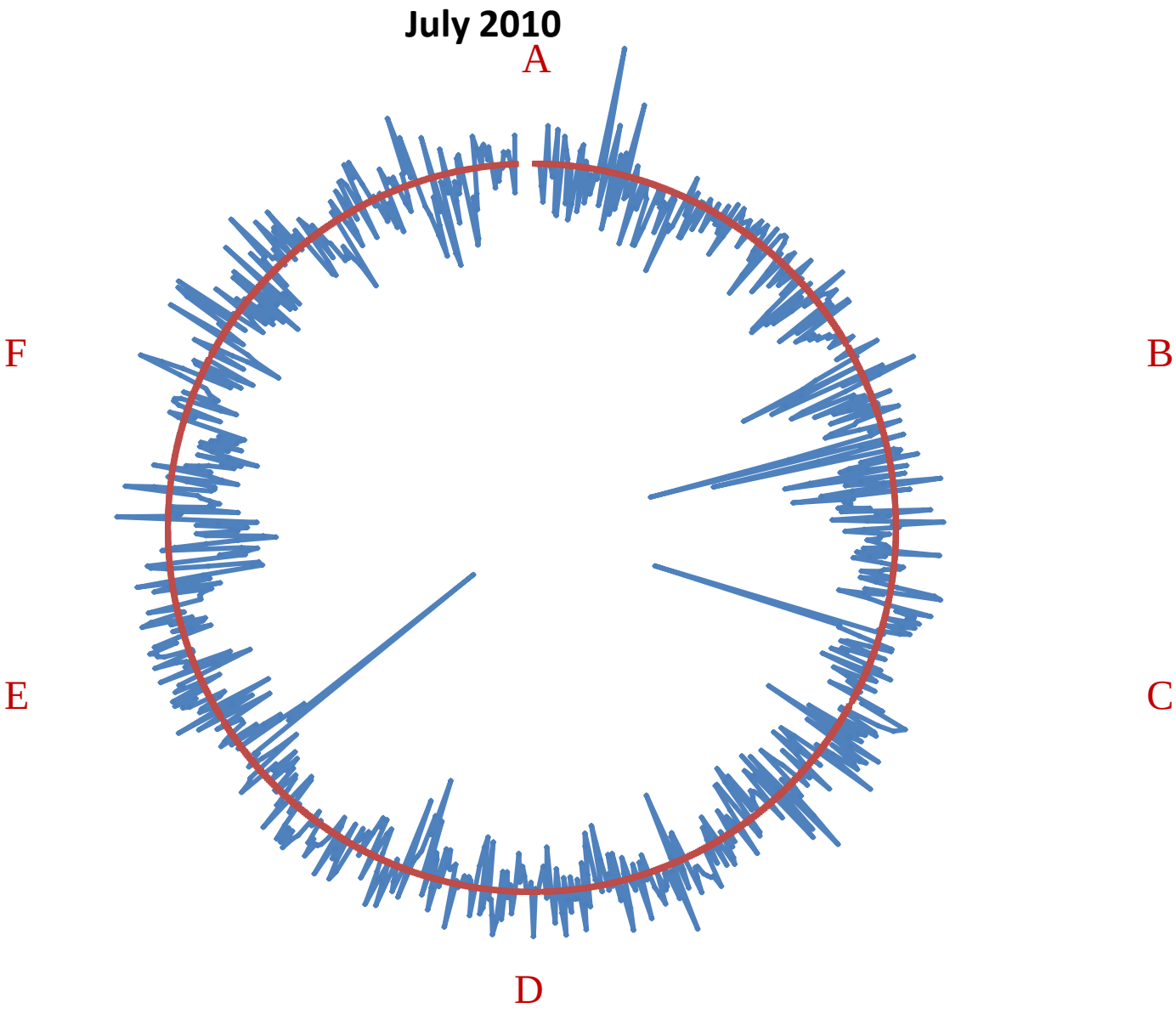
July 2010
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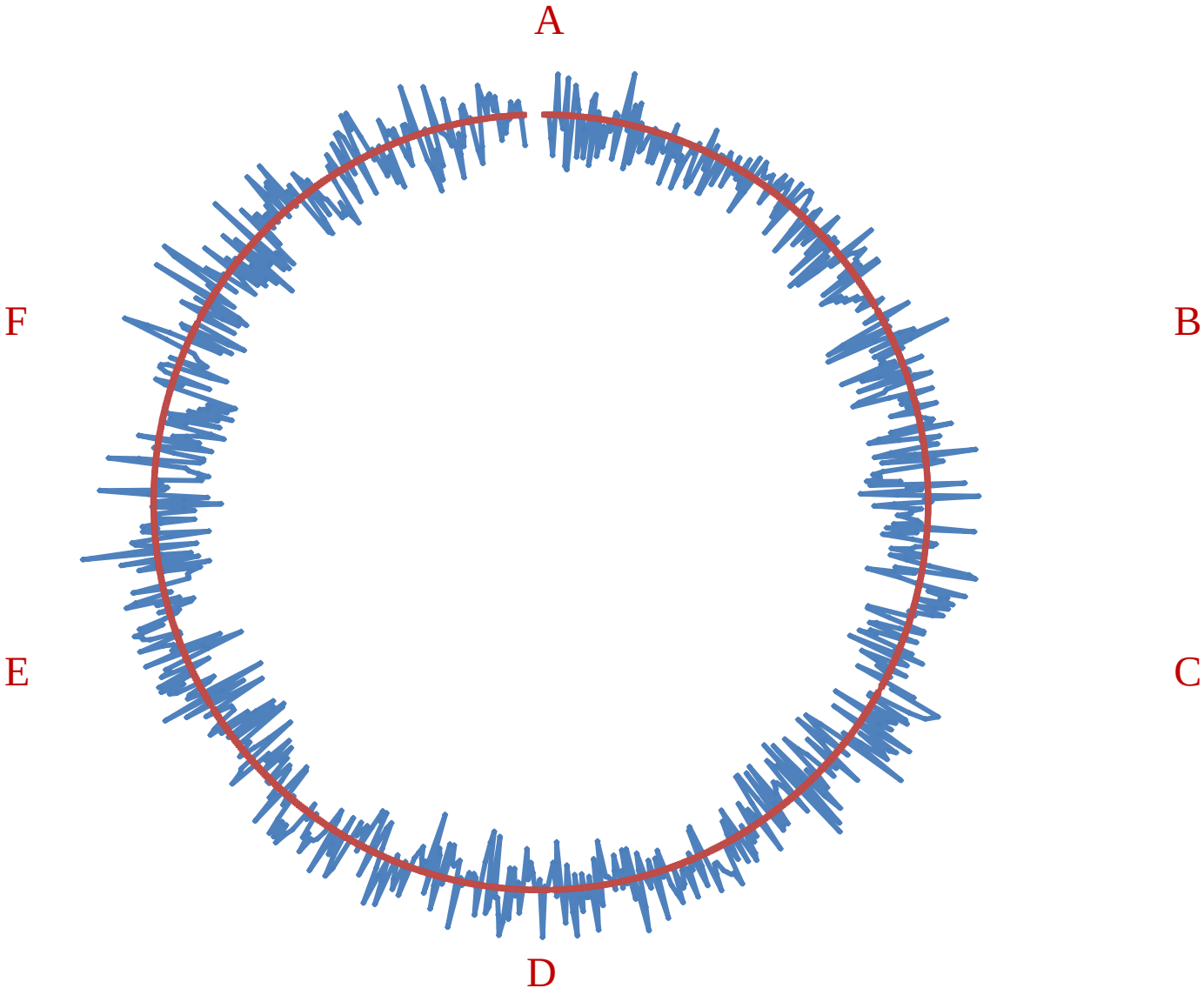
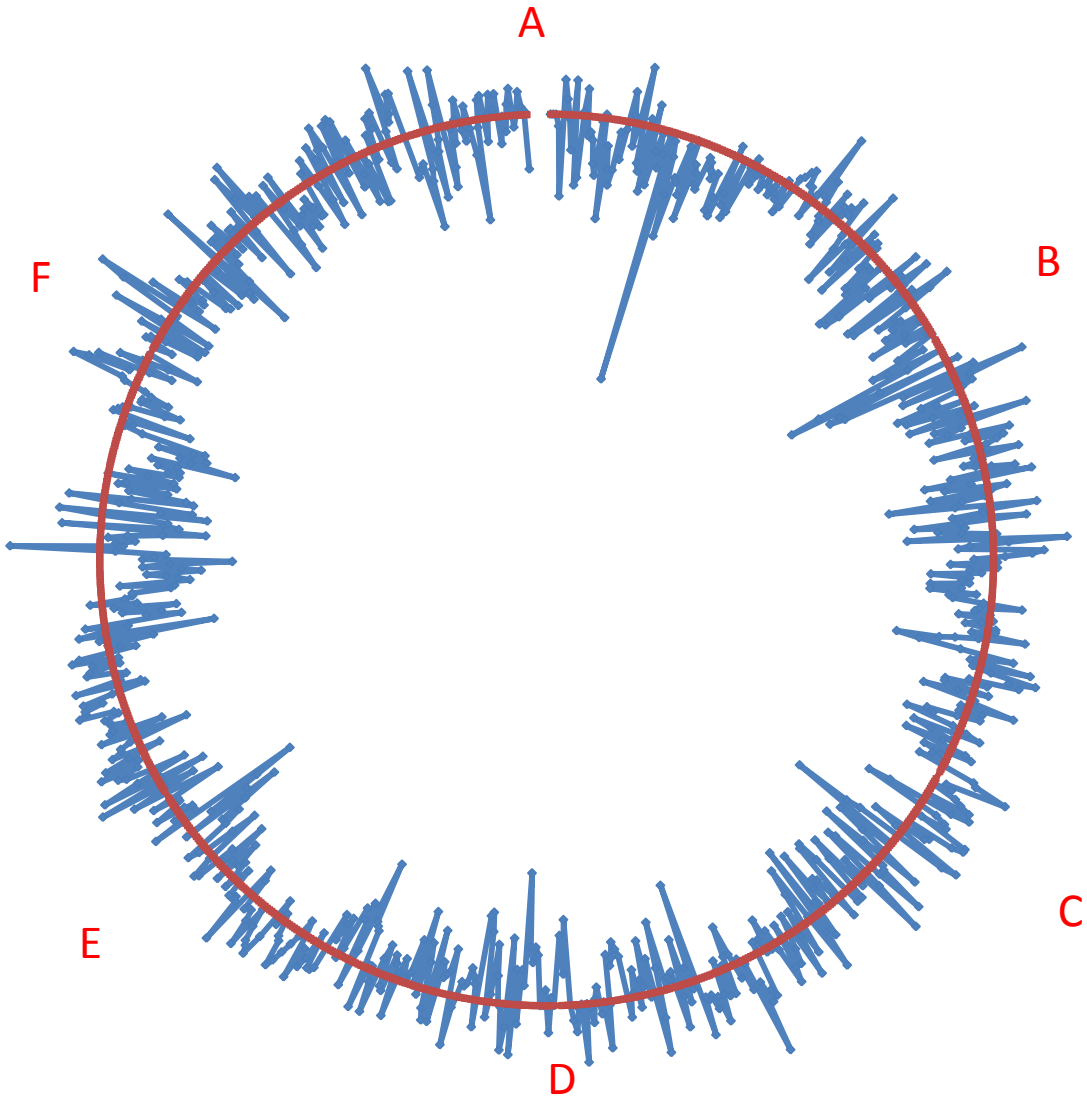
October 2010



Rolls March 2011



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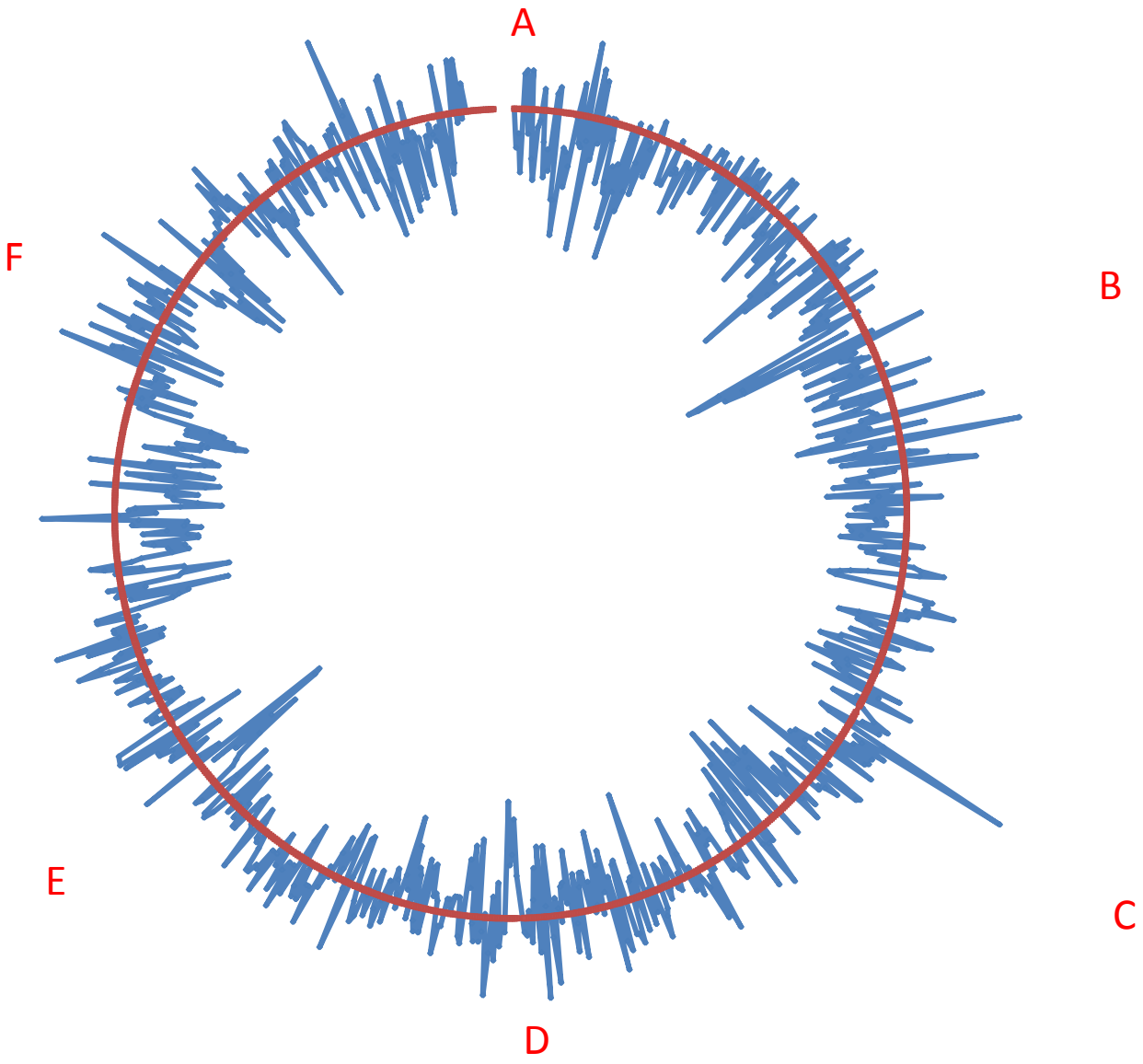

Conclusions

A and E sector show the most motion

These are very wet areas

The worst sections are

A18 to B2

B3

E2 to E3

And E4