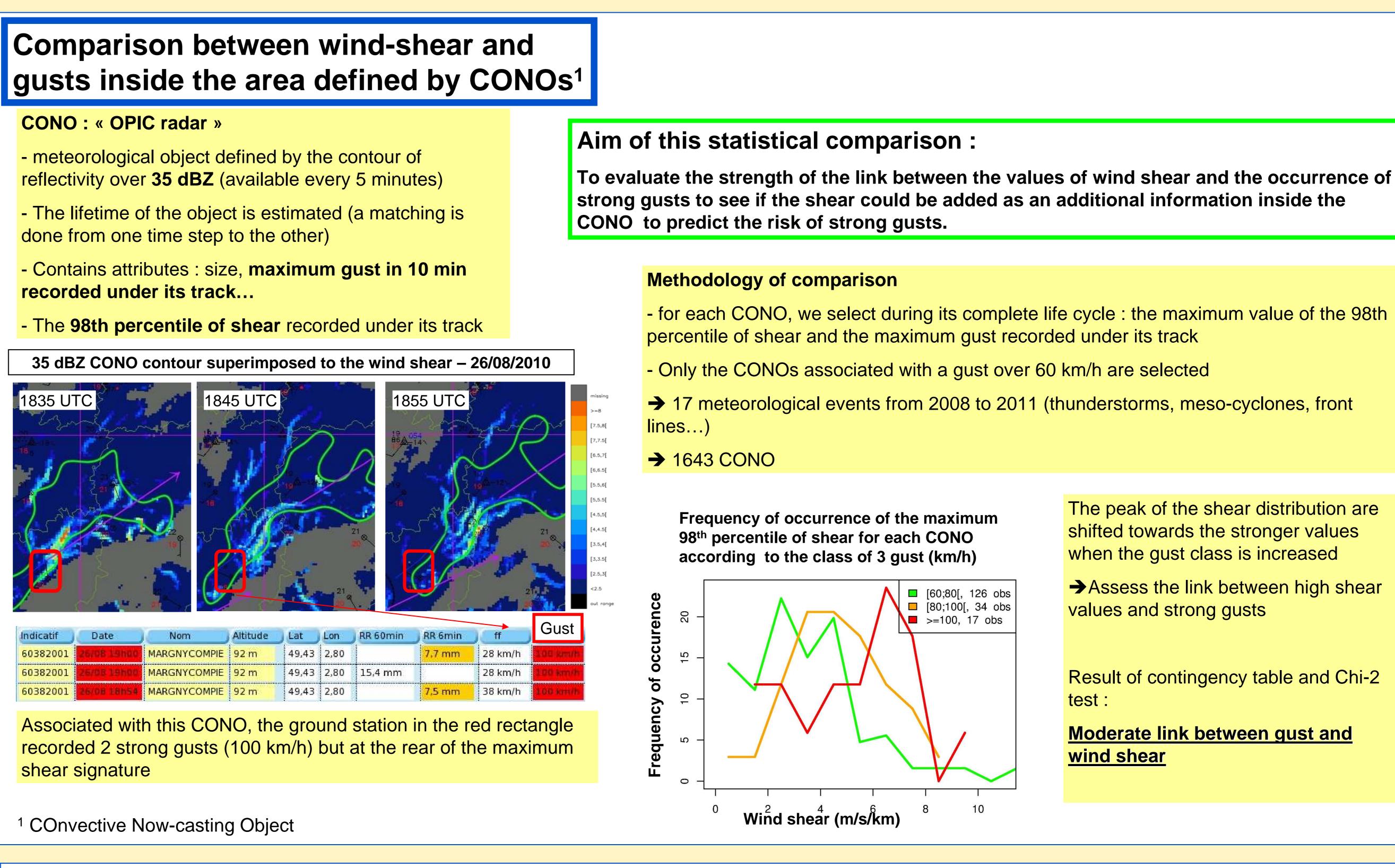


Development of a nation-wide low-level wind shear mosaic i Clotilde Augros, Jean-Marc Moisselin, Pascal Brovelli, Pierre Tabary

- does the product helps you to reinforce your



On this case: persistent line of strong shear in the front of the convective cell consistent with the strong gusts recorded by ground stations



Outlook

Although we have seen in many cases lines of strong shear ahead of convective lines associated with strong gust, this is not always the case. The number of false alarms is high :

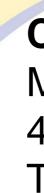
- sometimes because the algorithm detects vertical wind shear

- Ideas for improvement :
 - The maximum height will be lowered to 1.5 km
 - Tests of coherence between different PPIs will be done

> The comparison between gusts and shear measured under the track of CONO will be done once again with more cases and with a CONO defined by a 41 dBZ threshold to select only the most intense cells

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Météo France

> sometimes because it detects shear in altitude that is not associated with gusts at the ground

> or because strong shear (change of wind value or of wind direction) does not necessary generate strong gusts?

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ues of wind shear and the occurrence o)f			
in additional information inside the				

The peak of the shear distribution are shifted towards the stronger values when the gust class is increased

→ Assess the link between high shear values and strong gusts

Result of contingency table and Chi-2 test :

Moderate link between gust and wind shear

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