# Met Office 

## Space Weather

The UK's Activities in a Global Context

11 ${ }^{\text {th }}$ Appleton Space Conference
$3^{\text {rd }}$ December 2015
Mark Gibbs, Head of Space Weather


## Space weather <br> $1^{\text {st }} \& 2^{\text {nd }}$ September 1859



British Astronomer - Richard Carrington

## The 'operational' fleet <br> STEREO-A (NASA, 2006)



STEREO-B
www.meofifice.gov.uk (NASA, 2006)
SOHO
(ESA, 1995)


SDO
(NASA, 2010)

## SOHO

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20 years ago yes SOHO - part of E mission (in collak
A solar-heliosphe mission represen consolidation of s science research


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## STEREO Mission



## Met Office A new perspective

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## 2011 heralded the dawn of a new chapter

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## NRR \& impacts



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## Met Office Space Weather Operations Centre (MOSWOC)



## Carrington mission to L5



## National strategies

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...We will work with international partners to improve space weather forecasts and develop our capacity to respond to events such as major disruptive solar flares.

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## Leading in Europe

## SWE Expert Service Centres




RAL leading Phase A/B


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## Complete the evidence chain



Thank you

