

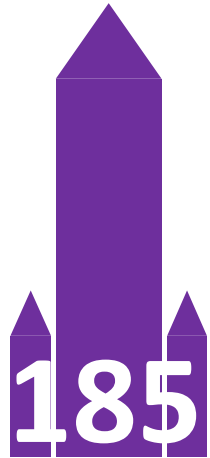


# **Satellite Insurance Providers Risk Management for Electric Propulsion**

**David Wade**  
Space Underwriter  
Atrium Space Insurance Consortium

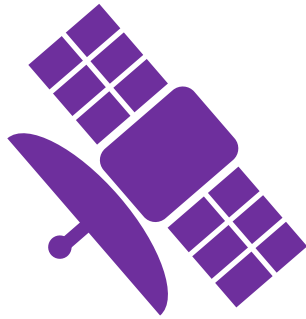


# Atrium Space Insurance Consortium



satellites insured for launch by ASIC

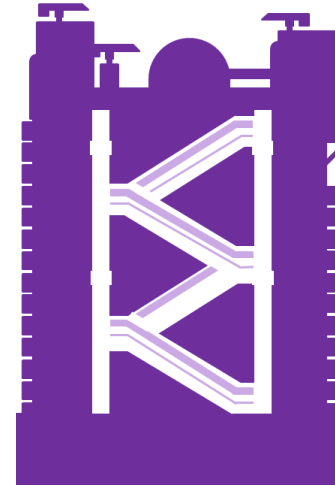
305 insured satellites launched since 2007



333 satellites insured by ASIC in-orbit



Satellite programmes of 37 countries insured by ASIC



11 Lloyd's Syndicates

**A+** Strong Standard and Poor's

**AA-** Very Strong Fitch Ratings

**A** Excellent A.M. Best

UK-based Underwriting team

David Wade  
Lee Davis  
Emma Cox



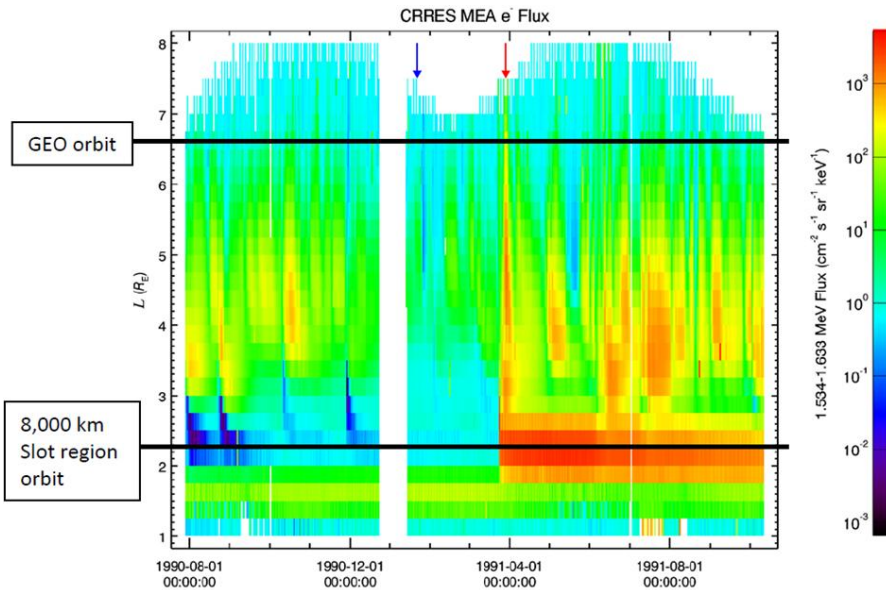
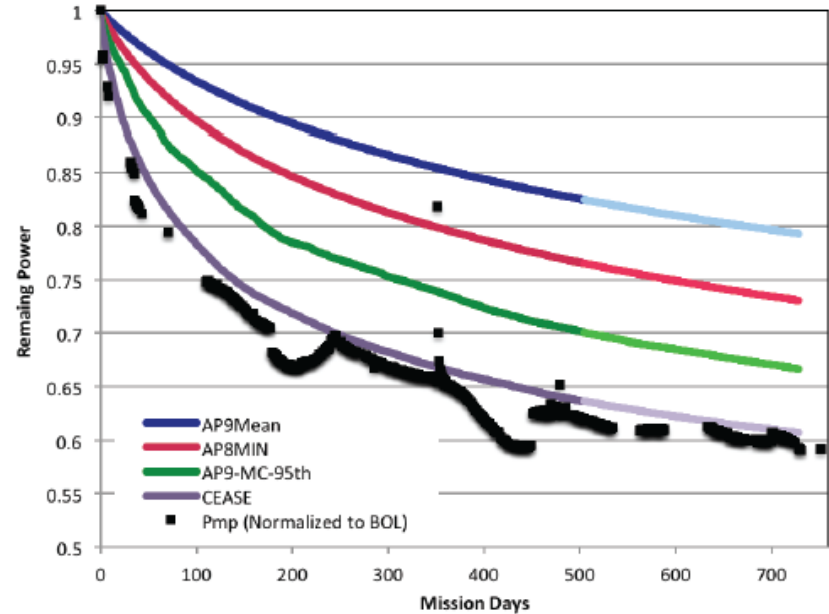
Canada-based Engineering team

David Hoffer  
Robin Gubby  
Beth Grant

# Electric Propulsion and Insurance (1)

**“It is notable that both radiation models, AP/E-8 and AP/E-9 significantly under predict the [solar cell] damage”**

Jenkins, P. et al  
Tacsat-4 Solar Cell Experiment: Two Years In Orbit  
10<sup>th</sup> European Space Power Conference, April 2014



**Solar events can significantly enhance radiation levels in the slot region for prolonged periods**

SpaceSTORM: A Framework 7 Project  
Professor Richard Horne  
British Antarctic Survey

# Electric Propulsion and Insurance (2)

