











# **Ongoing Activity** contd.



The match between the prediction and the onboard response was sufficiently encouraging to warrant mounting ongoing predictions of solar related disturbances at the location of Rosetta and, in this regard, SMcKL requested at the last SSWT that Dr. Jackson be sponsored to attend Space Weather Week and deliver a keynote talk at SALE on this activity. This sponsorship was agreed and Dr. Jackson made plans to come.

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## **Ongoing Activity** contd.



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As the work continued Dr. Dushan Odricil (father of the ENLIL model) applied this model independently to predict shock arrivals at the Rosetta spacecraft and he wrote to SMcKL offering to provide a presentation at the SALE meeting concerning several shock related solar events that occurred in September/October which might be related to onboard Rosetta responses.

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#### **Ongoing Activity** contd.



A SALE Splinter Meeting was convened on Tuesday 18 November, 2014 during Space Weather Week at Liege and it attracted a huge attendance (2.5-3 times normal). SMcKL introduced Rosetta/Philae (spacecraft/lander) and their scientific objectives and Drs. Jackson and Odricil provided presentations as to where we are now in predicting space weather at Rosetta 67P/C-G.

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## **Ongoing Activity** contd.



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In order to determine if populations recorded during active solar episodes aboard Rosetta might include particles sputtered from the comet nucleus, the international comet expert Prof. Wing Ip has joined the SALE activity and it is planned that a paper will ultimately be submitted by the overall team to a special issue entitled 'Active Cometary Atmospheres' in the refereed Springer Journal *Earth, Moon and Planets*.

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### **Study Duration**



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It is noted that the SALE study extends from the time of the initial reconnaissance phase of Rosetta about the nucleus (mid August – 12 November 2014) until the end of the mission. The nominal mission is scheduled to end in December 2015, after the comet has passed its closest point to the Sun (August 2015) and continued out along its trajectory to about 2 AU.

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# Agenda of the SALE Splinter Meeting at Liege



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