

Supplementary Material

1 SUPPLEMENTARY DATA

APPENDIX A. TABLES

Data	Measurements of ions											
	C1			C2			C3			C4		
	H+	He+	CNO+	H+	He+	CNO+	H+	He+	CNO+	H+	He+	CNO+
2001/08/08	+	+	+	+	+	+	+	+	+	+	+	+
2001/09/07	+	+	+	+	+		+	+	+	+	+	+
2005/09/21	+	+	+	+	+	+	+	+	+	+	+	+
2005/10/15	+	+	+	+	+	+	+	+	+	+	+	+
2013/07/20				+	+	+				+	+	+
2014/08/12				+	+	+				+	+	+
2014/09/09				+	+	+				+	+	+
2014/09/11				+	+	+				+	+	+
2015/07/24				+	+	+				+	+	+
2015/08/11				+	+	+				+	+	+
2015/09/12				+	+	+				+	+	+

Table S1. The list of available measurements for ion fluxes for the selected events