



Survey of Venus space weather events and responses observed with the VEX and STEREO missions

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Although the Sun has produced few flares and coronal mass ejections since the STEREO imagers were commissioned in early 2007, there have been a number of major interplanetary disturbances detected at Venus Express by the magnetometer and ASPERA-4 ion mass analyzer. The STEREO mission provides both additional imaging coverage of the solar disk as well as 1 AU measurements at several locations increasingly separated from Earth and from each other. We use the combination of STEREO and SOHO imaging observations to identify possible sources of a subset of the observed VEX events, and the VEX field and ion measurements to paint a picture of the breadth of solar wind interaction responses at Venus. This survey provides an overview of the observations that will need to be reproduced by models of space weather effects at Venus.