# The Ionospheric Space Weather Mission of FORMOSAT－7／COSMIC－2 The Ionospheric Space Weather Mission of FORMOSAT－7／COSMIC－2 

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With the success of the satellite constellation performing radio occultation experiments of FORMOSAT－3／COSMIC（F3／C）， its follow－on mission，FORMOSAT－7／COSMIC－2（F7／C2），has been planned and in progress of its construction．The follow－on mission will have 12 microsatellites distributed at 24－degree and 72－degree inclination orbits taking radio occultation signals from GPS，GLONASS and Galileo satellites．In addition to space－borne GNSS receivers，secondary payload opportunities for space weather studies are available．The secondary payloads of the first six satellites of 24－degree inclination angle have been planned，and there is a possible opportunity for the second six satellites．In this study，we propose a multiple band imager for studying the atmosphere－ionosphere perturbations and irregularities．As the radio occultation soundings provide global coverage of the ionosphere observations and give the large－scale view of the ionospheric space weather effects．The imagers proposed here，on the other hand，provide opportunity to study the small－scale ionospheric space weather effects．

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