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283 MeiJuan Yao, Jun Cui, XiaoShu Wu, YingYing Huang, and WenRui Wang
Variability of the Martian ionosphere from the MAVEN Radio Occultation Science Experiment (doi: 10.26464/epp2019029)

290 WeiJia Sun, Liang Zhao, Yong Wei, and Li-Yun Fu
Detection of seismic events on Mars: a lunar perspective (doi: 10.26464/epp2019030)

298 Pan Yan, ZhiYong Xiao, YiZhen Ma, YiChen Wang, and Jiang Pu
Formation mechanism of the Lidang circular structure in the Guangxi Province (doi: 10.26464/epp2019031)

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305 HuaYu Zhao, Xu-Zhi Zhou, Ying Liu, Qiu-Gang Zong, Robert Rankin, YongFu Wang, QuanQi Shi, Xiao-Chen Shen, Jie Ren, Han Liu, and XingRan Chen
Poleward-moving recurrent auroral arcs associated with impulse-excited standing hydromagnetic waves (doi: 10.26464/epp2019032)

MARINE GEOPHYSICS

314 WenAi Hou, Chun-Feng Li, XiaoLi Wan, MingHui Zhao, and XueLin Qiu
Crustal S-wave velocity structure across the northeastern South China Sea continental margin: implications for lithology and mantle exhumation (doi: 10.26464/epp2019033)

SOLID EARTH

330 Mei Li, Li Yao, Yali Wang, Michel Parrot, Masashi Hayakawa, Jun Lu, HanDong Tan, and Tao Xie
Anomalous phenomena in DC–ULF geomagnetic daily variation registered three days before the 12 May 2008 Wenchuan $M_s$ 8.0 earthquake (doi: 10.26464/epp2019034)

342 YouShan Liu, Tao Xu, YangHua Wang, JiWen Teng, José Badal, and HaiQiang Lan
An efficient source wavefield reconstruction scheme using single boundary layer values for the spectral element method (doi: 10.26464/epp2019035)

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358 Jing Huang, Meng Zhou, HuiMin Li, XiaoHua Deng, Jiang Liu, and ShiYong Huang
Small-scale dipolarization fronts in the Earth’s magnetotail (doi: 10.26464/epp2019036)

365 Jiang Yu, Jing Wang, and Jun Cui
Ring current proton scattering by low-frequency magnetosonic waves (doi: 10.26464/epp2019037)

COVER

In Hou WA, and Li C-F, et al. (10.26464/epp2019033), seismic velocity models derived from tomographic inversion and calculated $V_p/V_s$ ratios show regional physical property changes in the northern South China Sea continental margin. Hou WA and Li C-F further analyzed $V_p/V_s$ versus $V_s$ in the lower crust high velocity zone near the continent-ocean boundary (COB) and revealed a possible 37–43% degree of serpentinization of the upwelled uppermost mantle near the COB. See pages 314–329.