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Dr. Son V. Nghiem received the Ph.D. degree from the Massachusetts Institute of Technology. In 1991, he joined the Jet Propulsion Laboratory (JPL), California Institute of Technology (CalTech), where he is currently a Senior Research Scientist, the Science and Applications Development Lead of the Radar Science and Engineering Section, and the JPL Hydrology Discipline Program Manager of the Hydrology Office in the Earth Science and Technology Directorate. His research encompasses active and passive remote sensing, development of advanced satellite radars and radiometers, electromagnetic scattering and emission modeling, and earth sciences and applications from the tropics to polar regions. He holds a patent for his invention on high-resolution wind measurements with satellite data for offshore wind energy development. He has published 100 peer-reviewed articles and over 360 conference articles. He received the *1999 Lew Allen Award for Excellence* in recognition of his pioneering research in the areas of polarimetric scatterometry for Earth science remote sensing and contributions to future advanced satellite instrument concepts, the *2006 NASA Exceptional Achievement Medal* for developing scientific applications of scatterometry in land, ice, and snow processes, the *2008 NASA Exceptional Scientific Achievement Medal* for his contributions to understanding the melt state of Greenland and Antarctica ice sheets, its significance in Earth science missions, and its implications in climate change, the *2010 NASA Exceptional Technology Achievement Medal* for his contributions in developing a new technology using NASA satellite scatterometer data to measure high-resolution global wind for off-shore wind energy development, and the *2013 Edward Stones Award* for outstanding research publication on the extreme melt across the Greenland ice sheet in summer 2012. He was invited to present science results on Arctic change and impacts to the Office of Science and Technology Policy in the White House in 2012. His research results have been reported worldwide by major news networks.