NOAA Products Integrated Validation Dataset / Database

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Strategies to process, screen, collocate and analyze multiple data platforms of ground truth (radiosondes, GPS and NWP) and weather satellite (ATOVS, MetOp, GOES, Aqua-AIRS and COSMIC) observations and preliminary results are presented. Plans to migrate from the existing sounding profile oriented dataset (Phase-1) to more generalized sensor oriented radiometric database (Phase-2) are outlined. The status of historical collocation database generation at NOAA-STAR (beginning with TOVS in 1979) is also presented in context of the longer term goal of producing consistent historical observations for tracking the performance of past, present and next generation sensor and product capabilities consistent with GEOSS (and climate).
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