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Acronym: ACRIM II.
Category: Atmospheric Research Center Acronyms. Meaning / Stands for The UARS/ACRIM II instrument consists of three Active Cavity Radiometers (ACR's) (Type V). The ACR's are electrically self-calibrated pyrheliometers, which are uniformly sensitive from the extreme UV to the far infrared. The principle of measuring total solar irradiance is that the heating effect of irradiant flux on a detector is compared with that of electrical power dissipated in a heating element in intimate thermal contact with the detector. The ACRIM I, ACRIM II, ERB and ERBS results shown in detail in figure 2.2.1.1 are based on the mean value daily observation database, normalized to the mean earth-sun distance. It can be seen that the gross features of the results, the decline from solar cycle 21 maximum to solar minimum and the increase to solar maximum of cycle 22 and the decrease toward the next solar minimum are basically the same for the observations from these experiments.