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Low- energy electrons and substorm- related current disruptions observed in the near- earth plasma sheet.

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Changes of the low- energy electron fluxes (0.1 - 2.0 keV) are sometimes observed in the near-earth plasma sheet, in relation to bursts of the magnetic field fluctuations (in the Pc1-Pi2 range) near the magnetic field dipolarization. Detailed comparison of the selected Interball Tail observations with the ground magnetic- and geostationary particle data reveals appearance/disappearance of the streaming, colder component, in close relation to the ground onset and the field- aligned currents. Details of the distributions provide the information on the current- and the energy flux carried by the electrons. The results are discussed in the context of selected, substorm- related current disruption mechanisms and of the auroral acceleration processes.