In the frame of Kazakhstan’s Scientific Space System project for earthquakes precursors’ research, the hardware and software investigation of French satellite DEMETER was done. The DEMETER data processing Software is based on package SWAN under IDL VM and realizes many features, but, we can’t find an important tool for the spectrograms analysis - space-time visualization of power spectrum files from electromagnetic devices. For elimination of this problem we have developed new software which is offered to use. The DeSS (DEMETER Spectrogram Software) – it is Software for DEMETER data quick look and mapping. The Software primary goal is to give the researcher friendly tool for the analysis of electromagnetic and plasma data from DEMETER Satellite devices for earthquake precursors and other researches. The main difference from SWAN is online data mapping with different maps support. In present time DeSS contain 3 types of maps: high resolution physical map, tectonic map and topographic map. Other maps can be also added. For data math analysis we have other our universal software named as “Data Processing System – SOS-OMIR”. The DeSS have a connection with this Software.