The S-NPP satellite with VIIRS instrument onboard was launched on 28 October 2011.

At NESDIS/STAR, VIIRS SDRs are processed into L2 SST with the Advanced Clear-Sky Processor for Oceans (ACSPO).

Currently ACSPO uses Conventional Regression SST algorithms (CR), but the plan is to add RTM-based Incremental Regression algorithm.

The IncR was:

1. Developed and tested for MSG SEVIRI as proxy of GOES-R ABI;
2. Internally tested for AVHRR and MODIS;
3. Tested for AVHRR within the ESA Climate Change Initiative (CCI) project.

According to all tests, the IncR produces more uniform SST accuracy and precision, compared with conventional regression algorithms.