• **GCOM-W1 AMSR-2 captures Hurricane Dorian**

The GCOM-W1 satellite had several excellent overpasses during the nearly two week life of Hurricane Dorian. These products are used extensively by the National Hurricane Center as well as being incorporated into several operational NESDIS blended products. As an example, the Figure below shows some of the EDR’s (rain rate, surface wind speed, 89 GHz imagery) from the ascending overpass on 4 September 2019 as Dorian approached the U.S. southeast coast.

*Funding Source: JPSS. POC: R. Ferraro/P. Meyers*

• **STAR Seminar**

On September 12, Prof. Douglas Miller, University of North Carolina – Asheville, presented a STAR seminar entitled “Fellowship of the Rain (Gauge Network).” His talk described a high elevation rain gauge network, known as the Duke Great Smoky Mountains Rain Gauge Network (Duke GSMRGN) (see figure below), which has been collecting rainfall observations since 2007 in the Pigeon River Basin located in the Southern Appalachian Mountains. The presentation focused on the founding, funding, findings, and future of the Duke GSMRGN and their associated fellowships. The findings portion described the influence of atmospheric rivers on extreme rainfall events observed by the Duke GSMRGN over an eight-year period commencing 1 July 2009. The 32 gauge network, which was initially funded by NASA as part of the GPM program, has, for the past three years, been partially supported by GOES-R PGRR, and starting in FY20, GOES-CWG will help sustain the network, which contributes to the validation of our satellite precipitation estimates in an extremely challenging orographic region. In addition to being a source of valuable information, the network is almost exclusively maintained by UNC-Asheville students, providing an extremely important education and outreach activity.
Funding Source: GOES-R. POC: R. Ferraro