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### 3. Evaluation of the CSR Data and Quality Control

The ABI/G5 CSR data quality has been evaluated through studying the statistical characteristics of the CSR data, compared with the simulated model equivalence (Dref) using the operational Global Forecast System (GFS) model. Results have been fed back to the CSR algorithm developers. Several versions of the CSR data have been tested at NCEP/FMRC. The most important change during this CSR algorithm development is the cloud mask update from the baseline cloud mask to the so-called enterprise channel dependent cloud mask. A comparison of the Dref statistics from both the Baseline and Enterprise cloud mask CSRs is shown in Fig. 2 for the window channel, which clearly demonstrates that the Enterprise CSR removes more cloudy pixels than does the Baseline CSR. Thus, both the Dref bias and standard deviation decrease significantly for the window channel as seen in the histogram plot of the Dref (Fig. 3d). For the water vapor channels, the Dref leaves from the Enterprise CSRs move to the positive side compared to those from the Baseline CSRs (Fig. 3a-c).

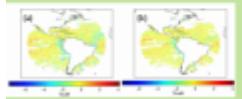


Fig. 3a) is the BT differences between the baseline CSR data and the simulated model equivalence (Dref) for the window channel; b) is the same as (a) but for the enterprise CSR data.

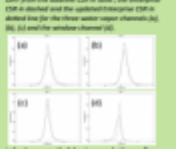


Fig. 3b) shows the BT differences between the Dref from the baseline CSR in a) and the Dref from the enterprise CSR in b) for the window channel.

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