

1 **Description of Additional Supplementary Files**

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4 **File Name:** Movie S1

5 **Description:** Cloud top height 10-minute sequence from stereoscopic retrieval using GOES-
6 17 and Himawari-8 geostationary satellite imagers.

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9 **File Name:** Movie S2

10 **Description:** CLaMS daily sequence of hydrated plume evolution at 21 hPa pressure level.