




Grid points that show minimum T_b in the 5×5 T_b matrix are found.




Each 5×5 T_b matrix is subtracted by the maximum T_b value in the matrix and divided by the difference between maximum T_b and minimum T_b .



Standard deviations of the 5×5 T_b matrix in both directions are calculated and used to create upside down Gaussian matrix.



Calculate an absolute value of the difference between the T_b matrix and the upside down Gaussian matrix for 10 time steps. If the values are smaller than 10 for consecutive 10 time steps, then decrease in minimum T_b at channel 8 and 10 is calculated.



If the decreasing trend is either larger than -0.5 K/min for channel 8 or -1 K/min for channel 10, the middle and the neighboring 8 grid points are assigned as convective.