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Convair580 Hot-Wire data set Robust and Nevzorov probes

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Bulk microphysics probes performance matrix

| Flight# | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Date | 10-May-15 | 12-May-15 | 14-May-15 | 15-May-15 | 16-May-15 | 16-May-15 | 20-May-15 | 23-May-15 | 23-May-15 | 25-May-15 | 26-May-15 | 26-May-15 | 27-May-15 | 27-May-15 |
| Nevz. LWC1 | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Nevz. LWC2 | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Nevz. TWC | Y | Y | Y | Y | Y | Y | M+ | Y | Y | Y | Y | Y | Y | Y |
| Robust TWC | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Extinction | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| RICE | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |



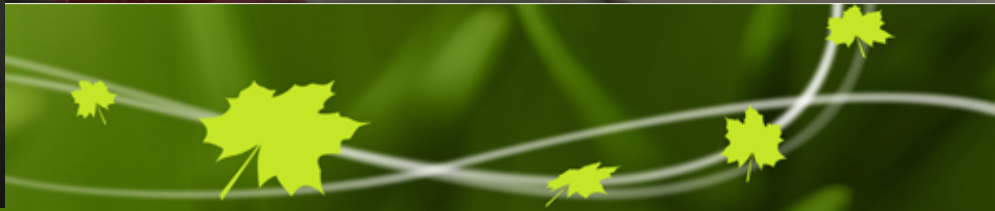
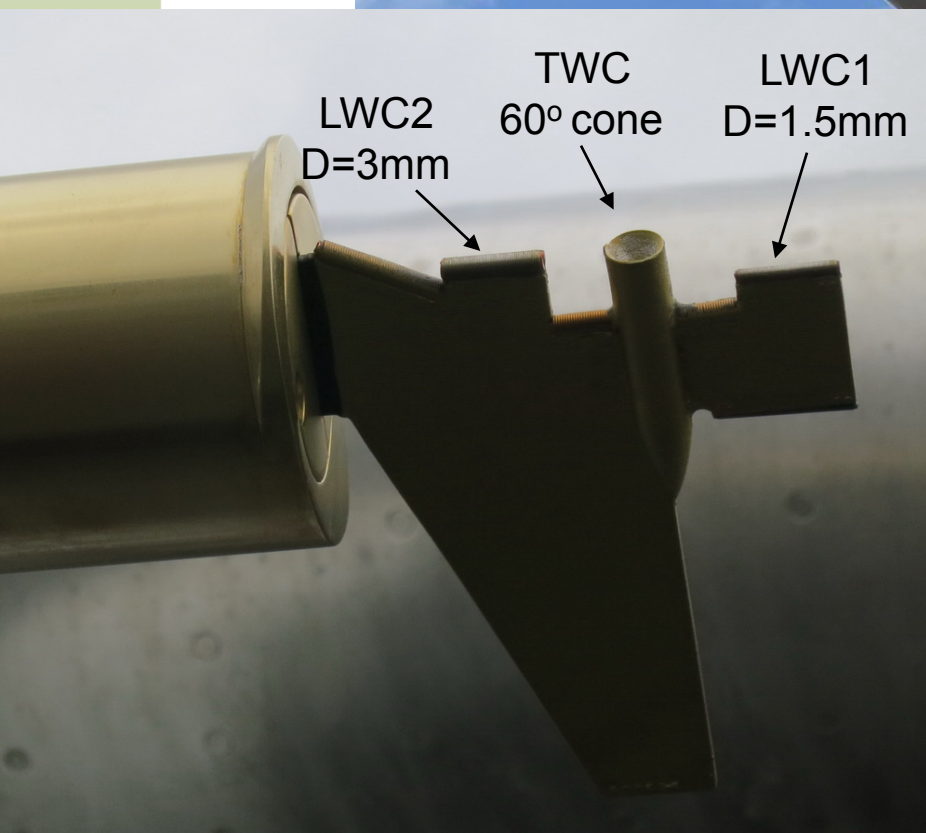
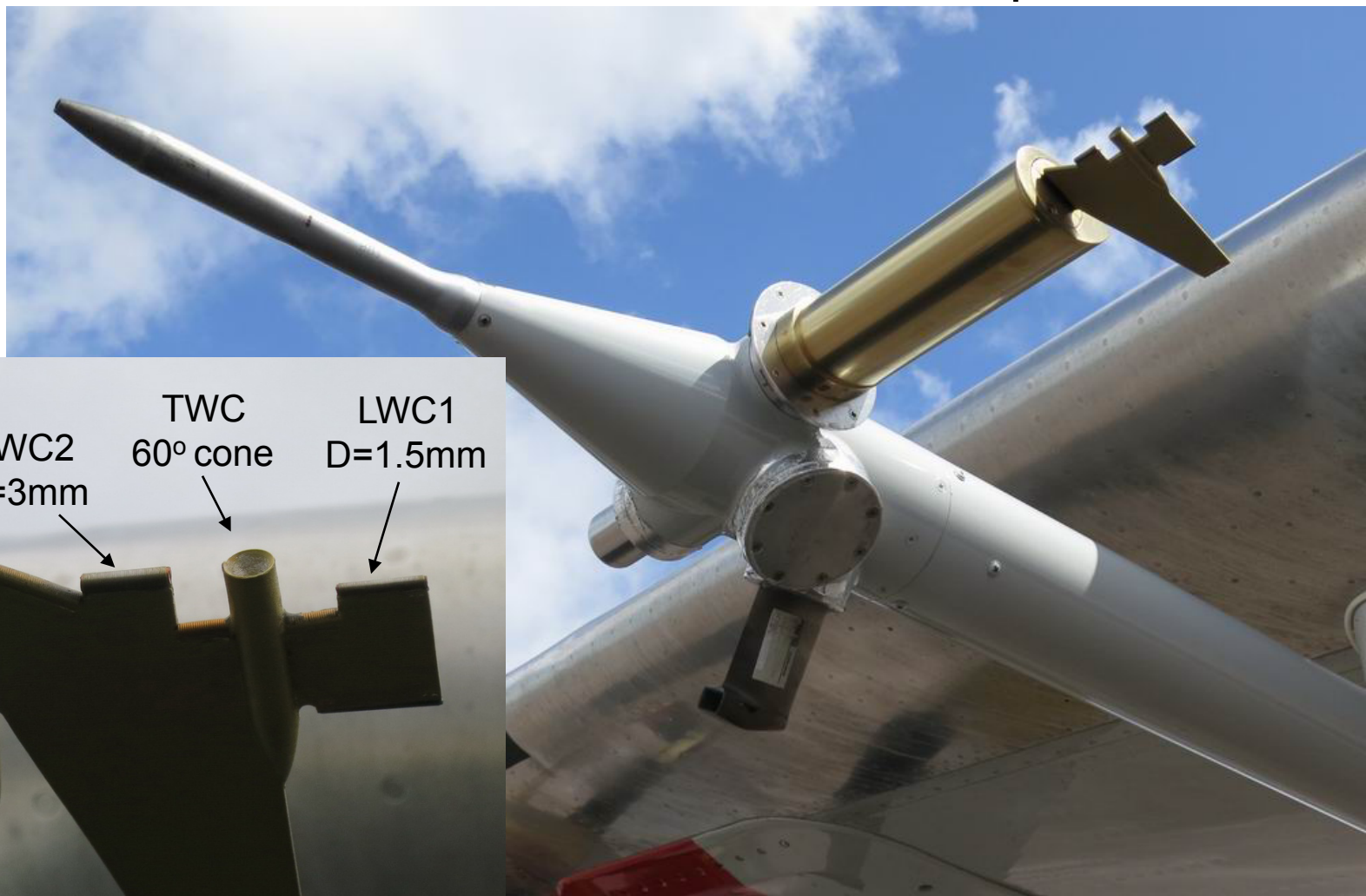


Robust Probe



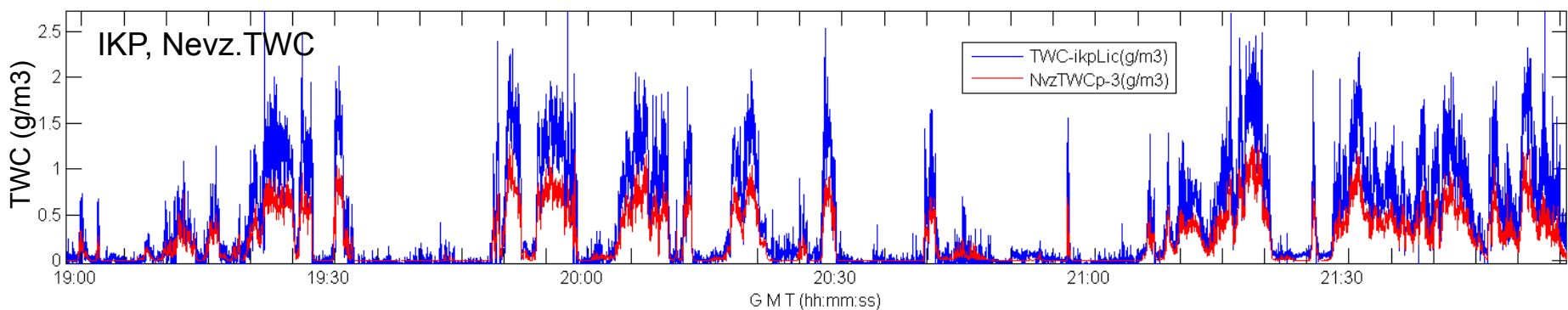
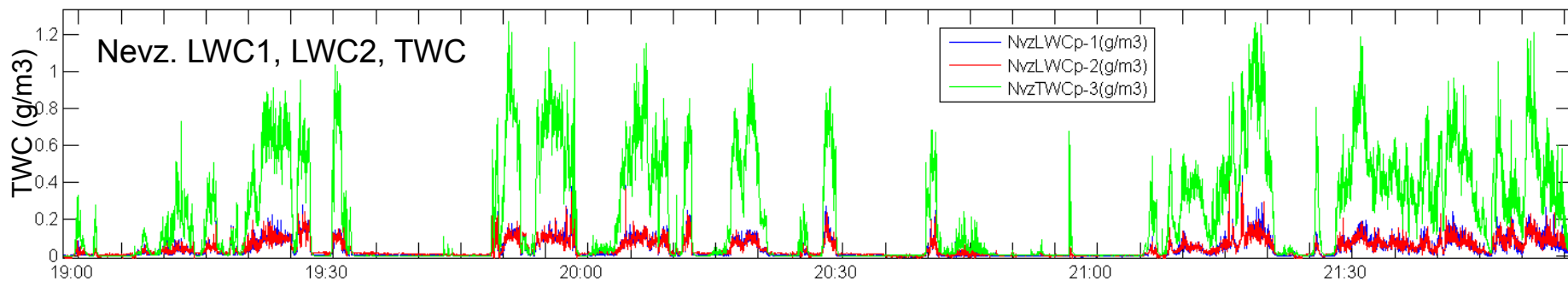
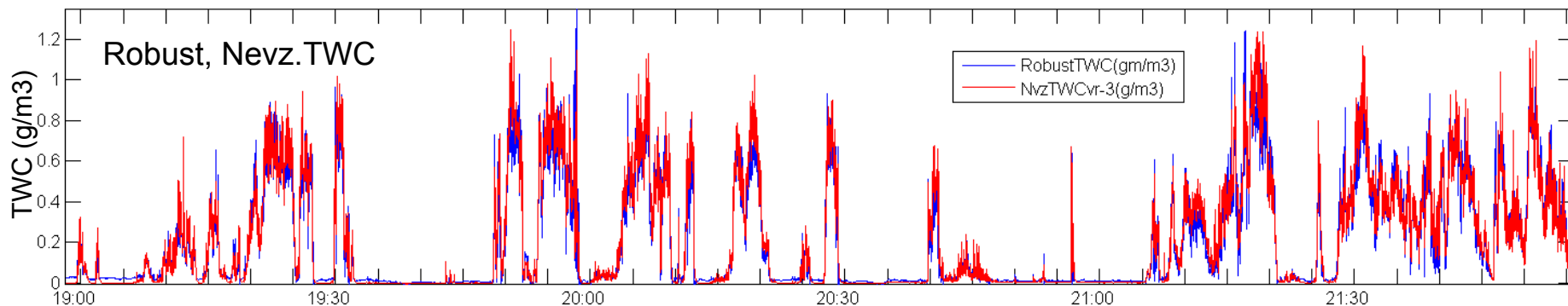


Nevzorov Hot-Wire LWC/TWC probe



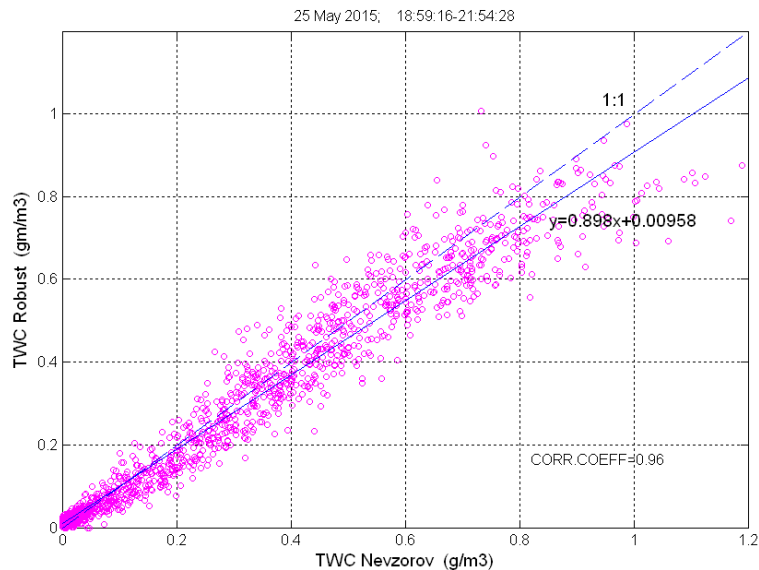
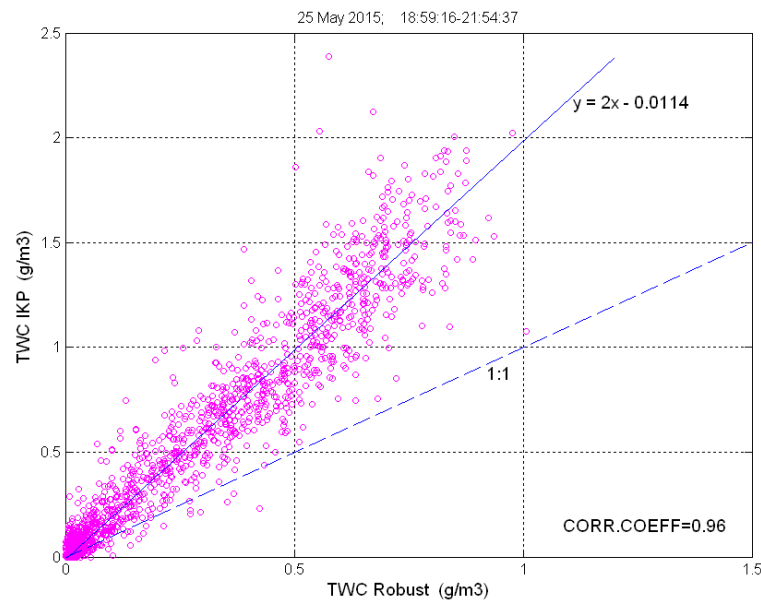
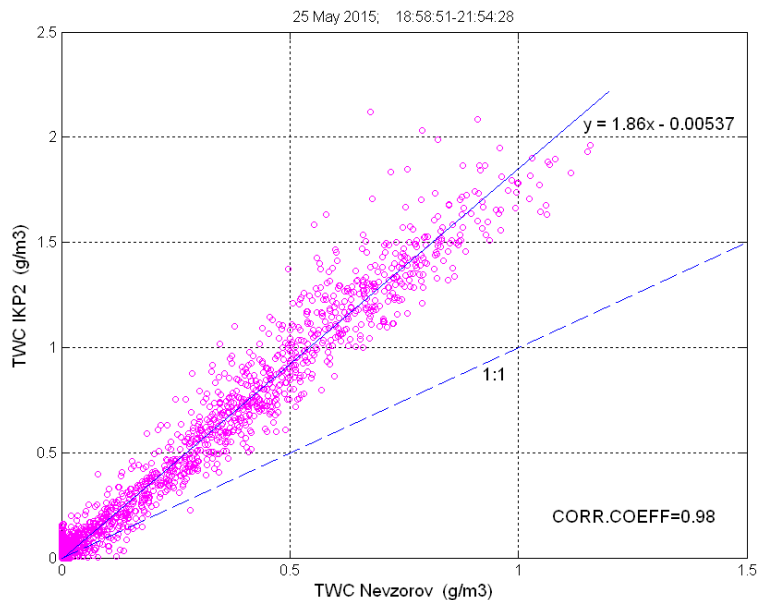


Example of IKP, Robust and Nevzorov TWC measurements





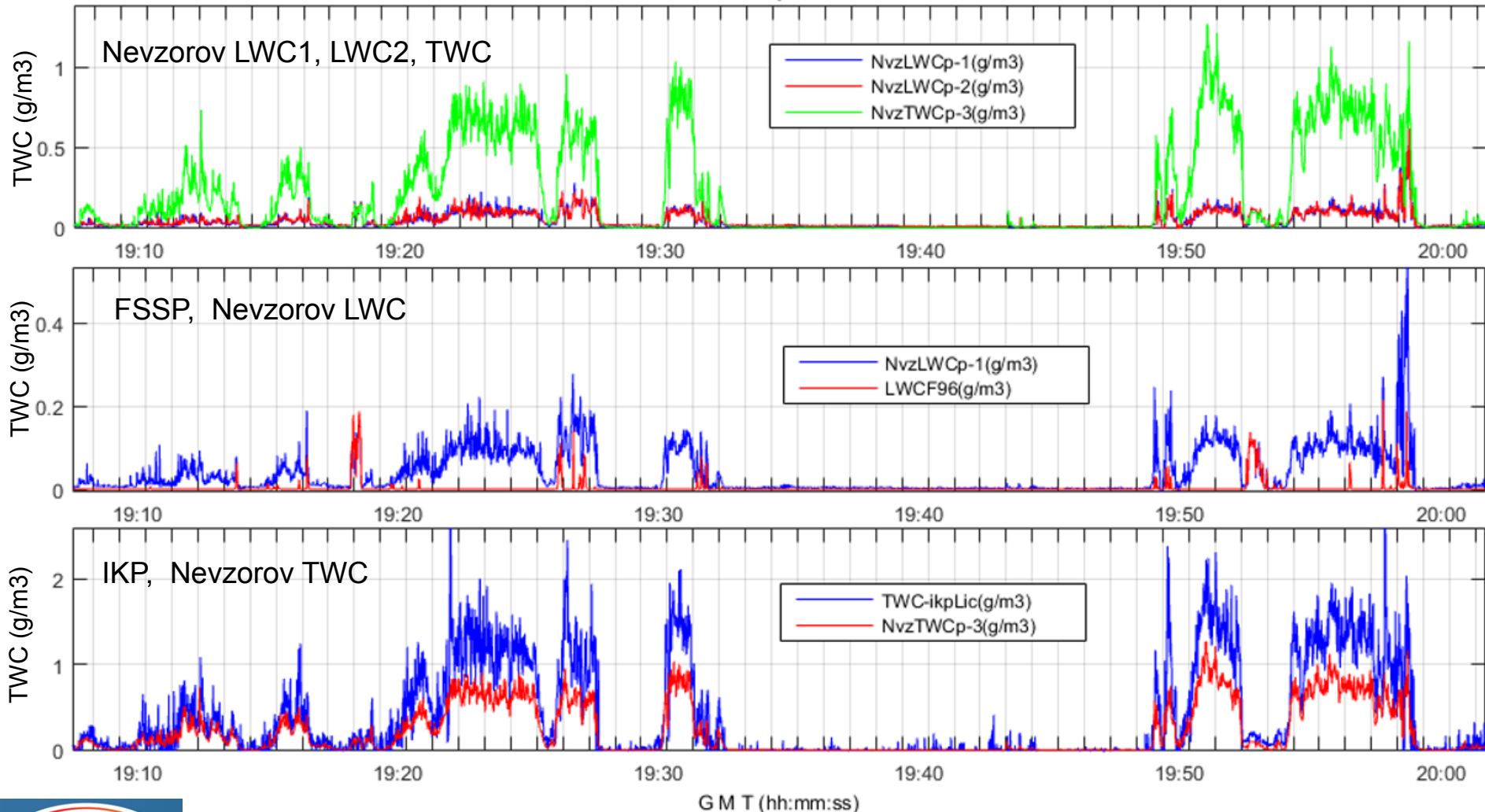
Comparisons of IKP, Robust and Nevzorov TWC measurements





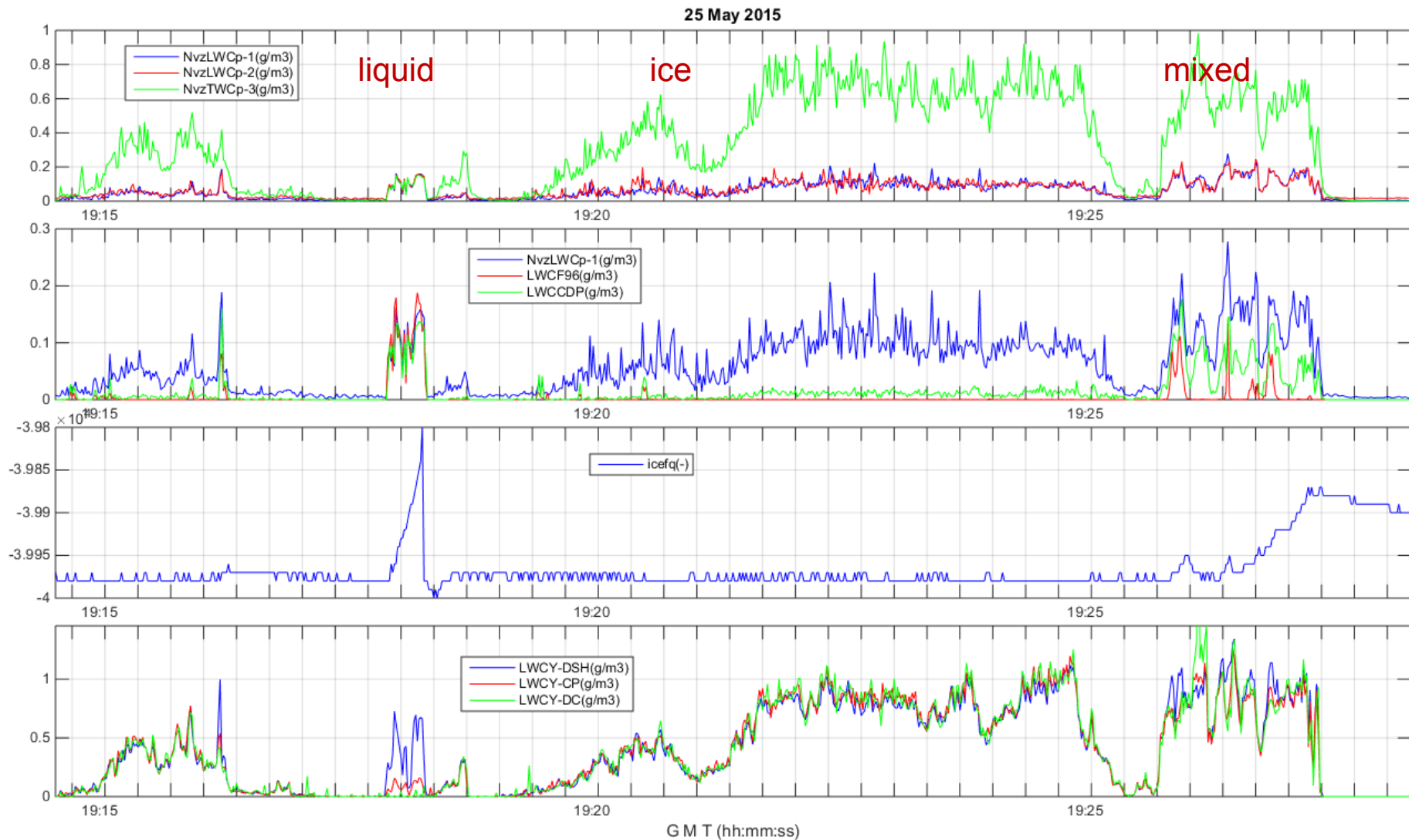
Example of the Nevzorov Probe measurements in ice, mixed phase and liquid clouds

25 May 2015



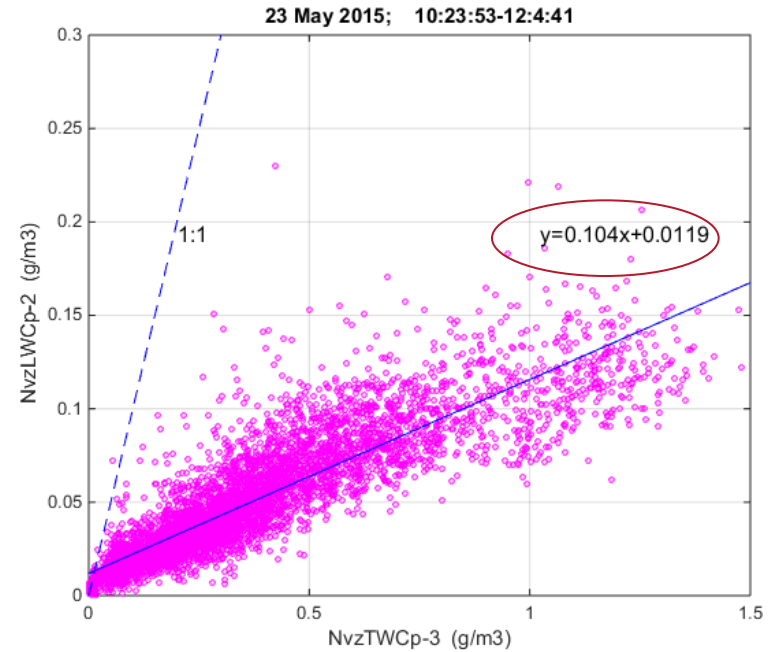
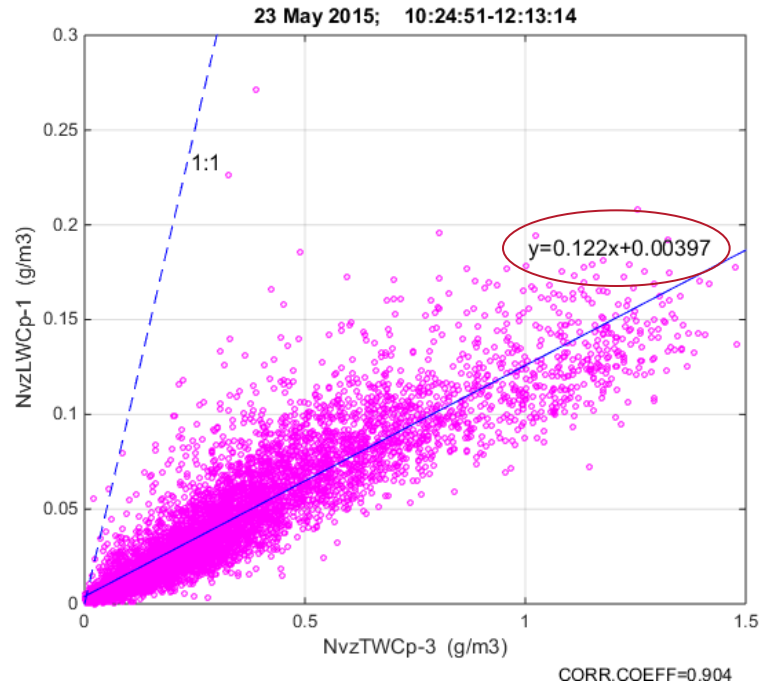


Response of the Nevzorov Probe in ice, mixed phase and liquid clouds





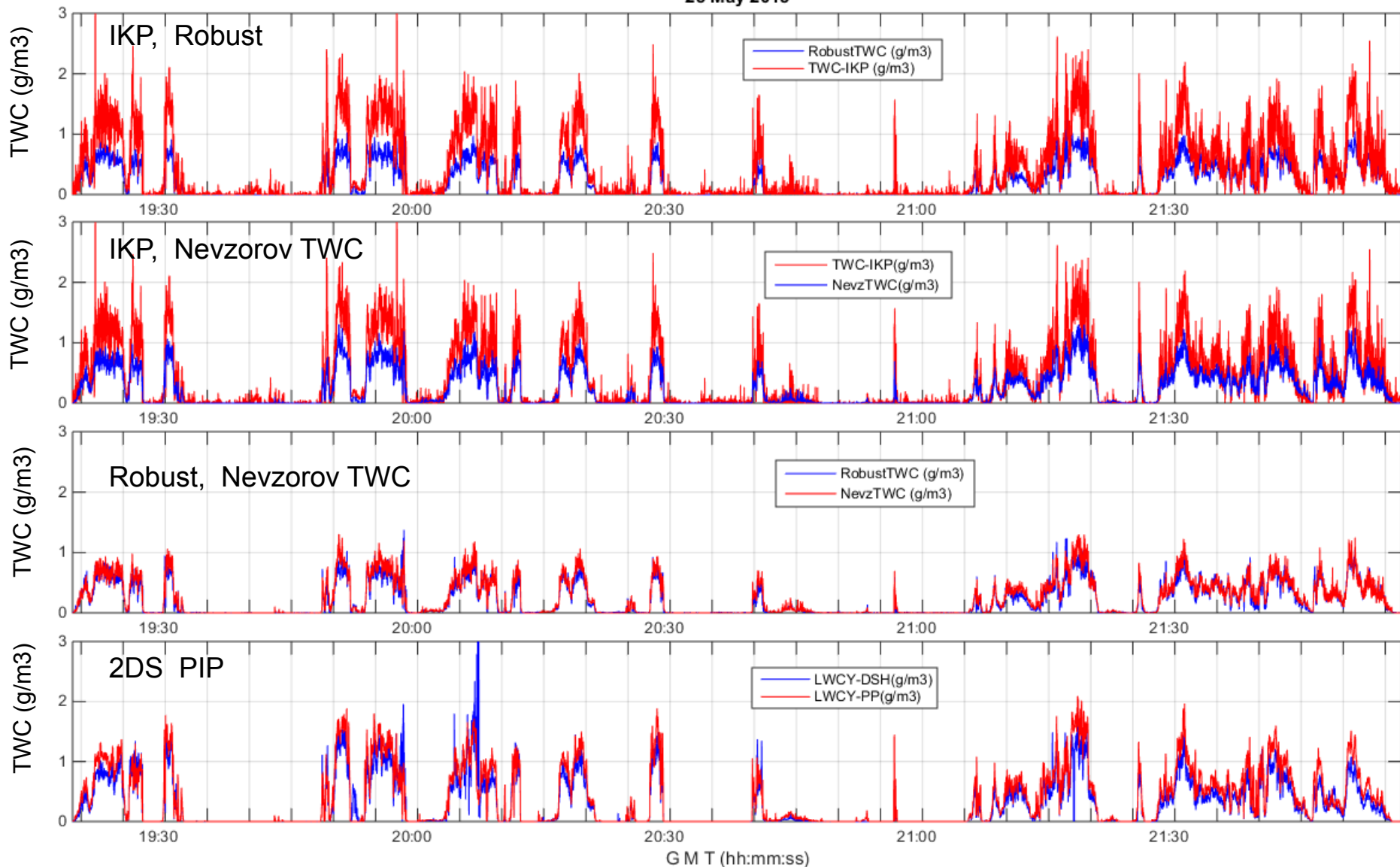
Residual effect of ice on the Nevzorov LWC1 and LWC2





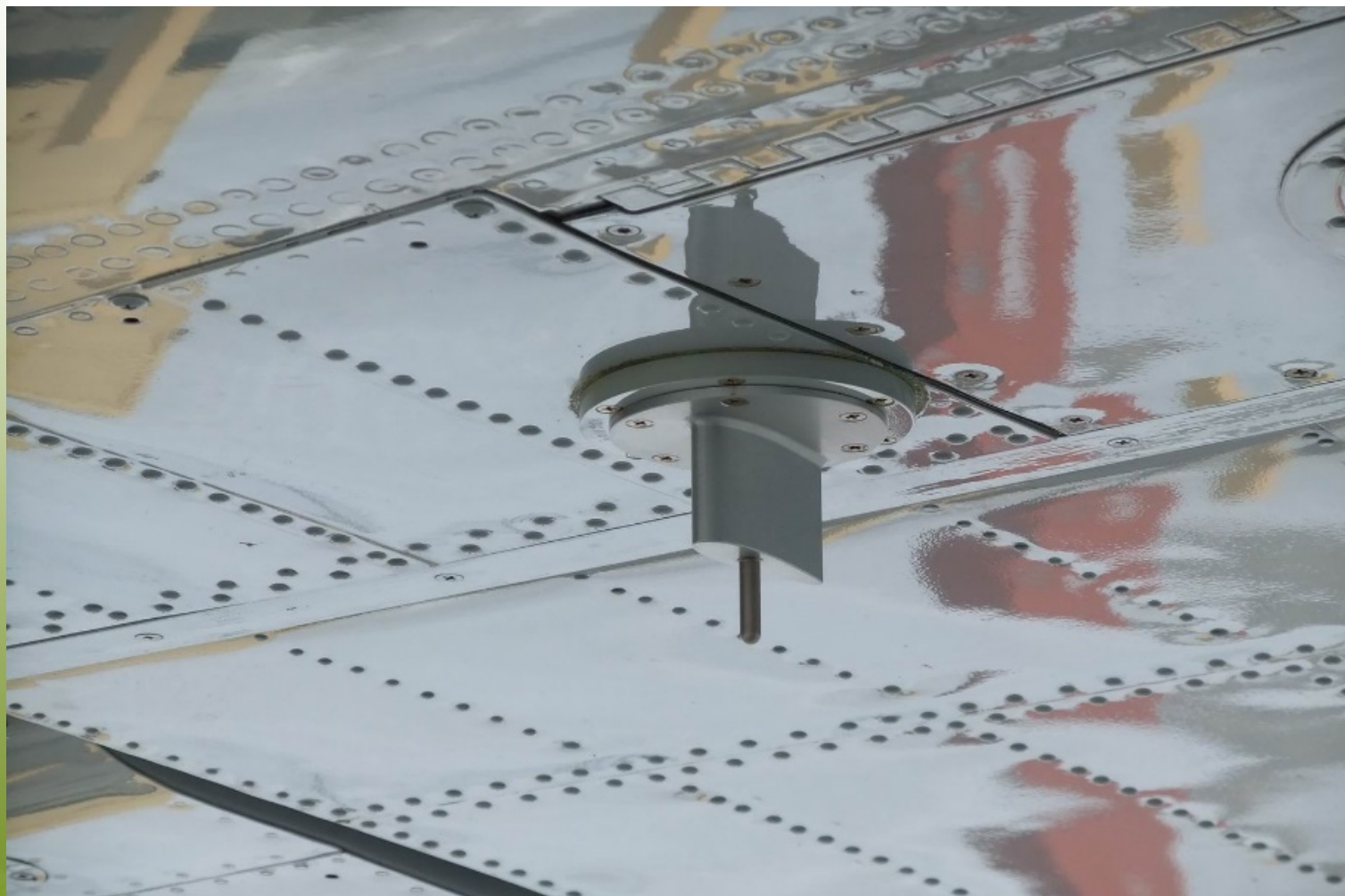
Comparisons of IWC measured by IKP, Robust and Nevzorov TWC probes

25 May 2015



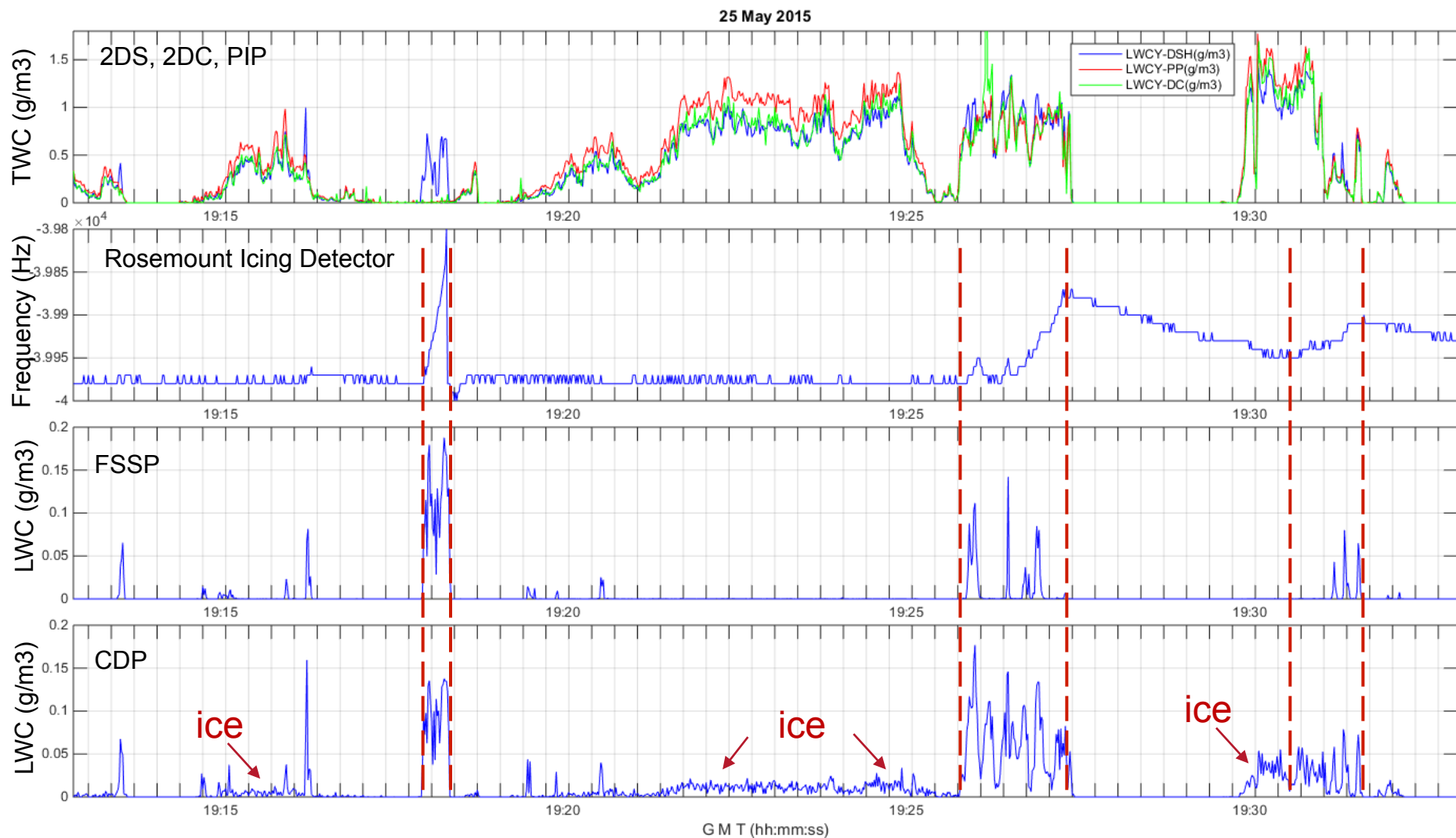


Rosemount Icing Detector



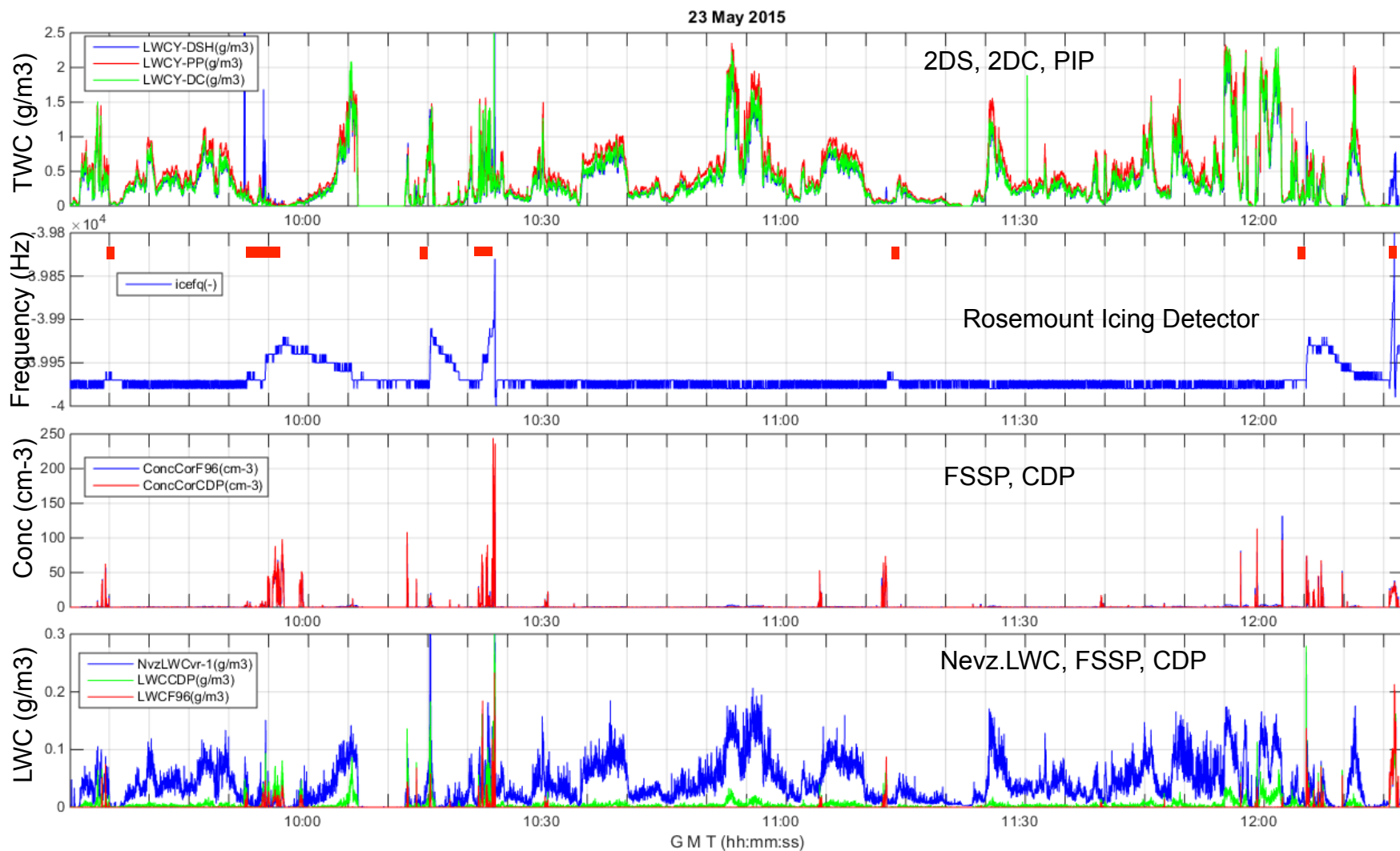


Rosemount Icing Cylinder response in liquid and mixed phase clouds





Occurrence of mixed phase during flight operations in Cayenne





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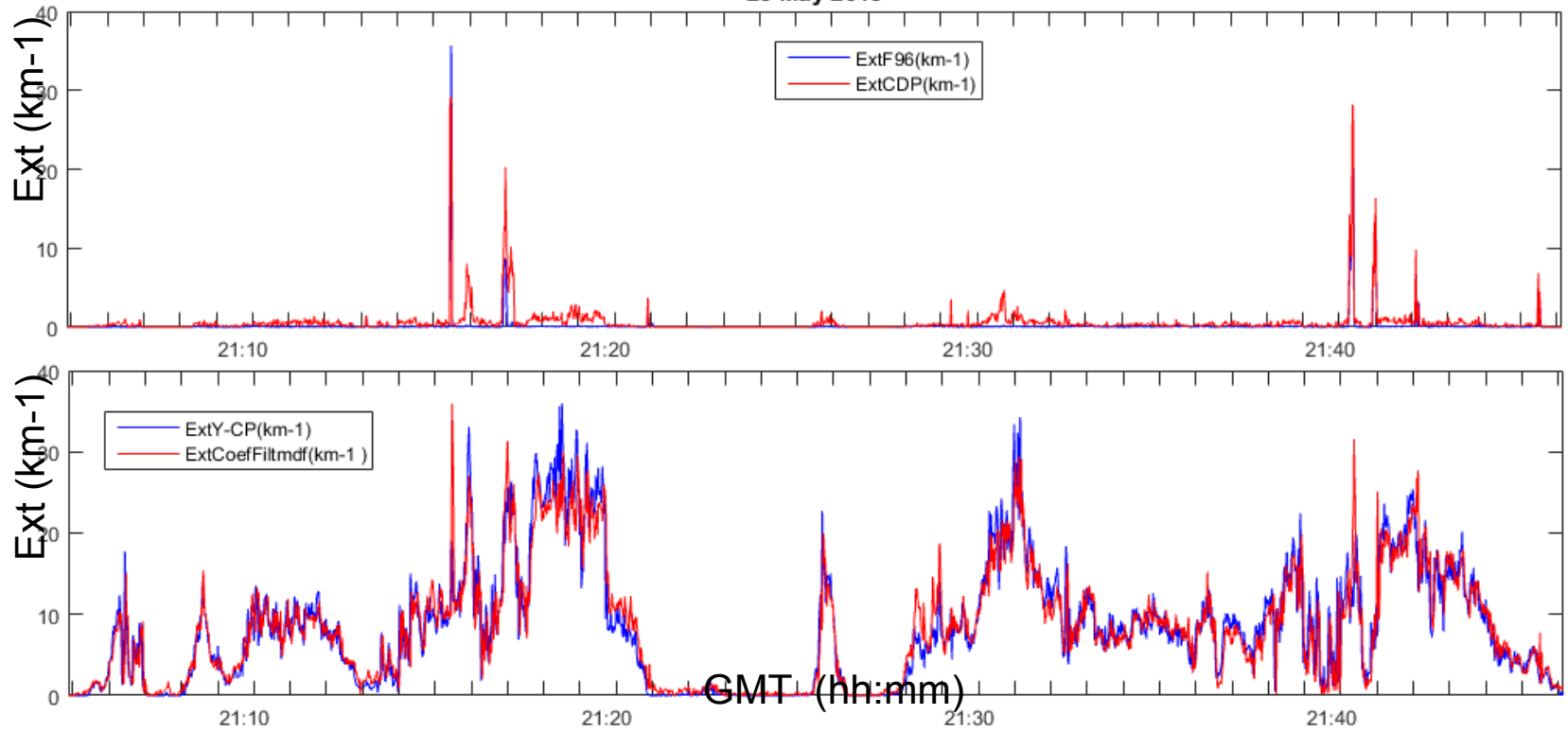
Cloud Extinction Probe and Lidar measurements





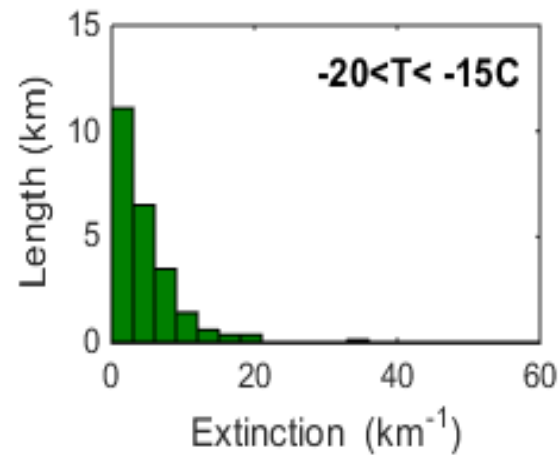
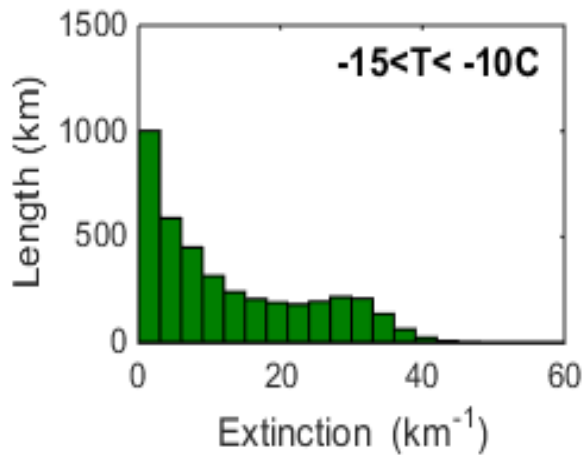
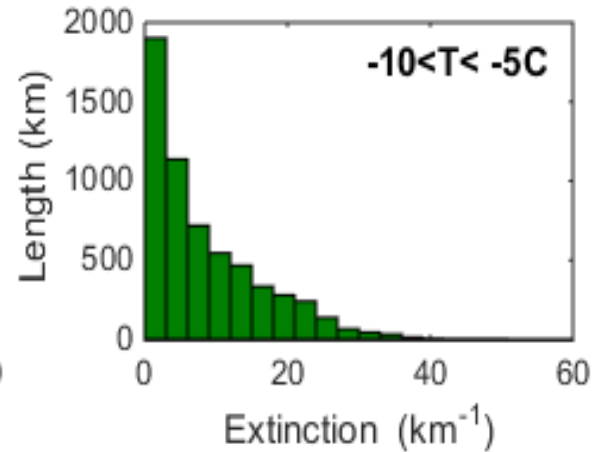
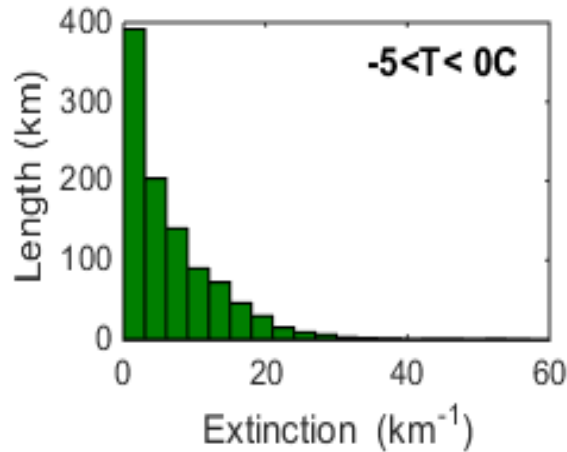


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Preliminary statistics of extinction coeff. obtained from the Cayenne campaign





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High Ice Water Content (HIWC) Program

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