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Supplement of

A simple and versatile cloud-screening method for MAX-DOAS retrievals

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Supplementary Material for “A simple and versatile cloud-screening method for MAX-DOAS retrievals”.

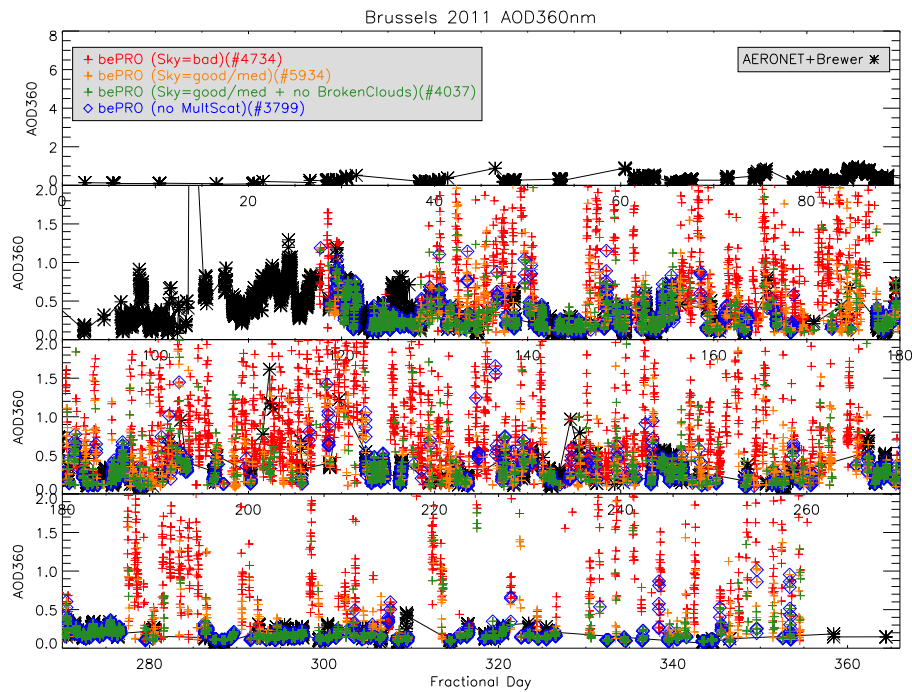


Figure 1: Results of our bePRO AOD retrievals (crosses) at Brussels compared to co-located Aeronet and/or Brewer AOD measurements (black diamonds) at 360 nm. The different colours used for the retrievals denote the different cloud-screening results. Data with a ‘bad’ sky flag are in red, data with a ‘good’ or ‘mediocre’ sky flag are in orange, data with a ‘good’ or ‘mediocre’ sky flag plus no broken-cloud flag are in green, and data with no multiple-scattering flag are in blue.

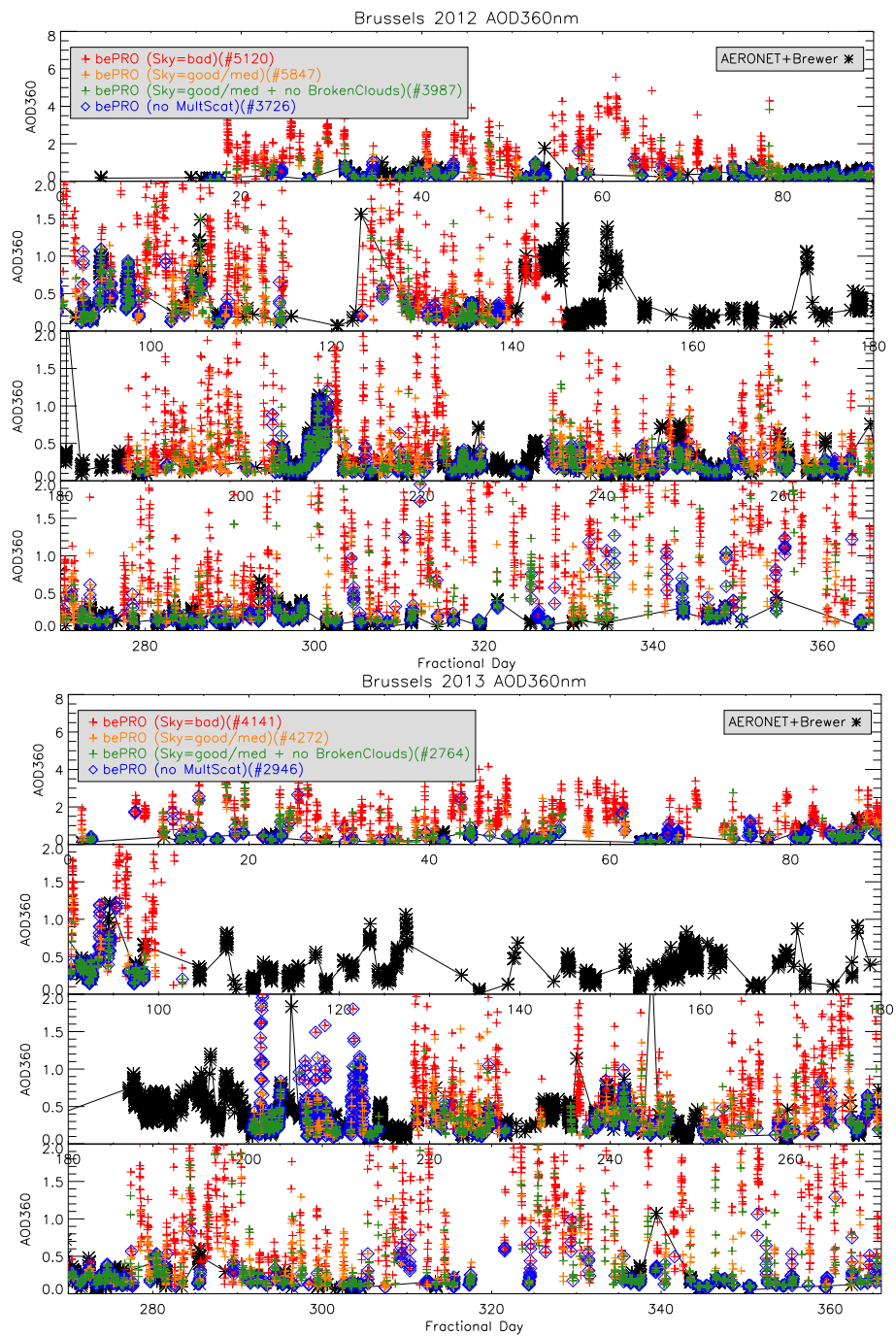


Figure 1: Continued.

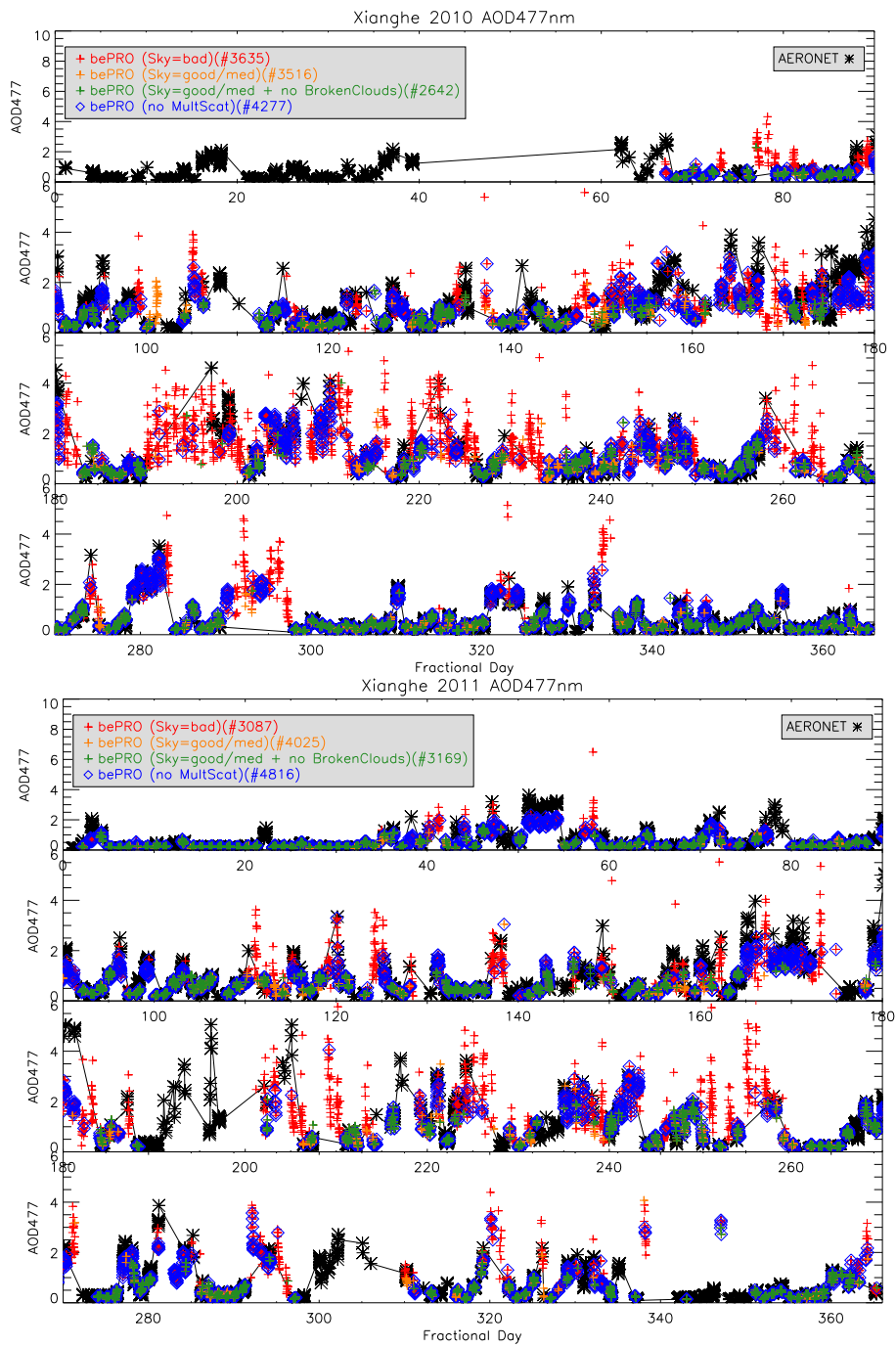


Figure 2: Continued below.

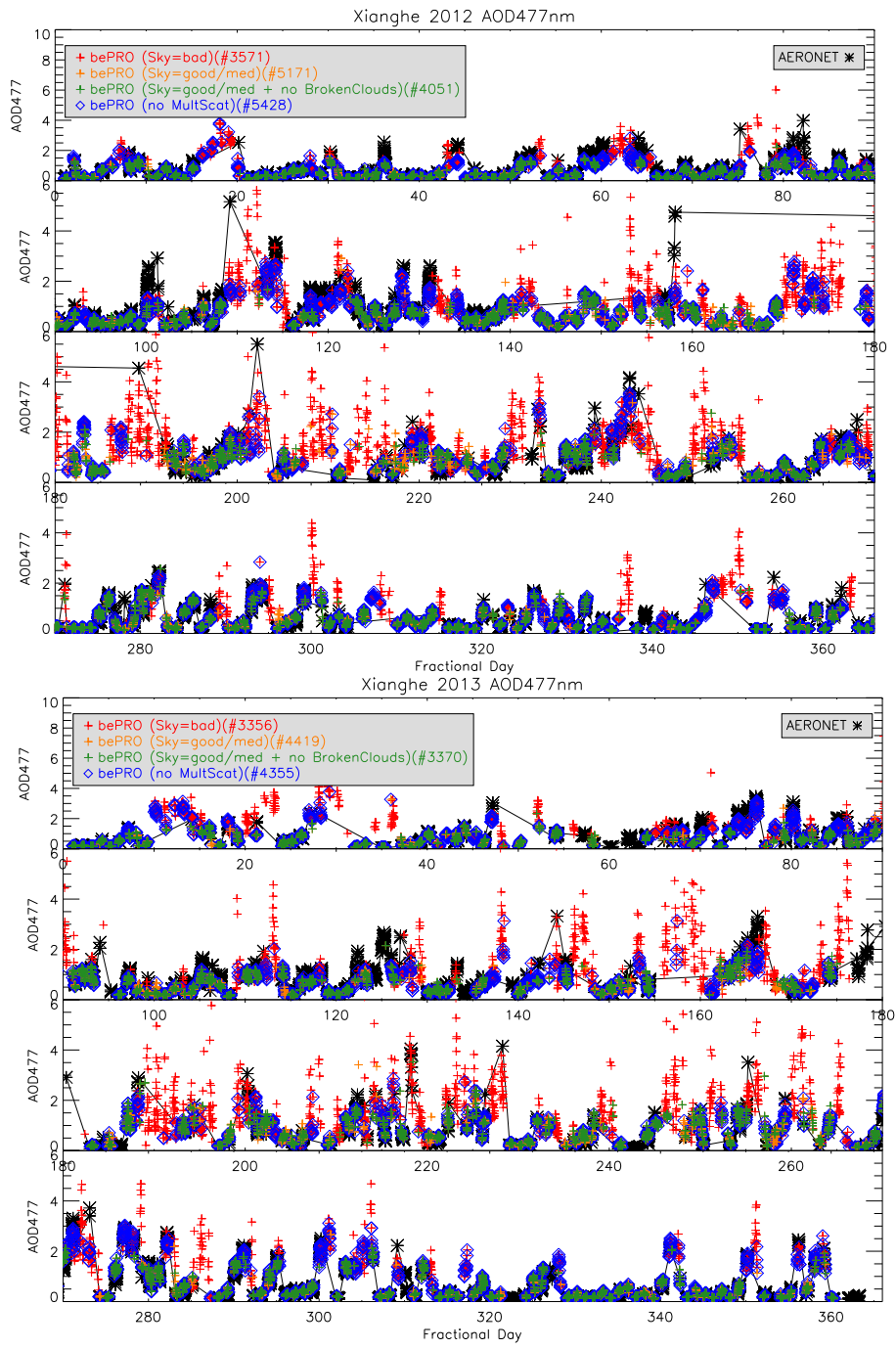


Figure 2: Same as Fig. 1 but for Xianghe retrievals at 477 nm.

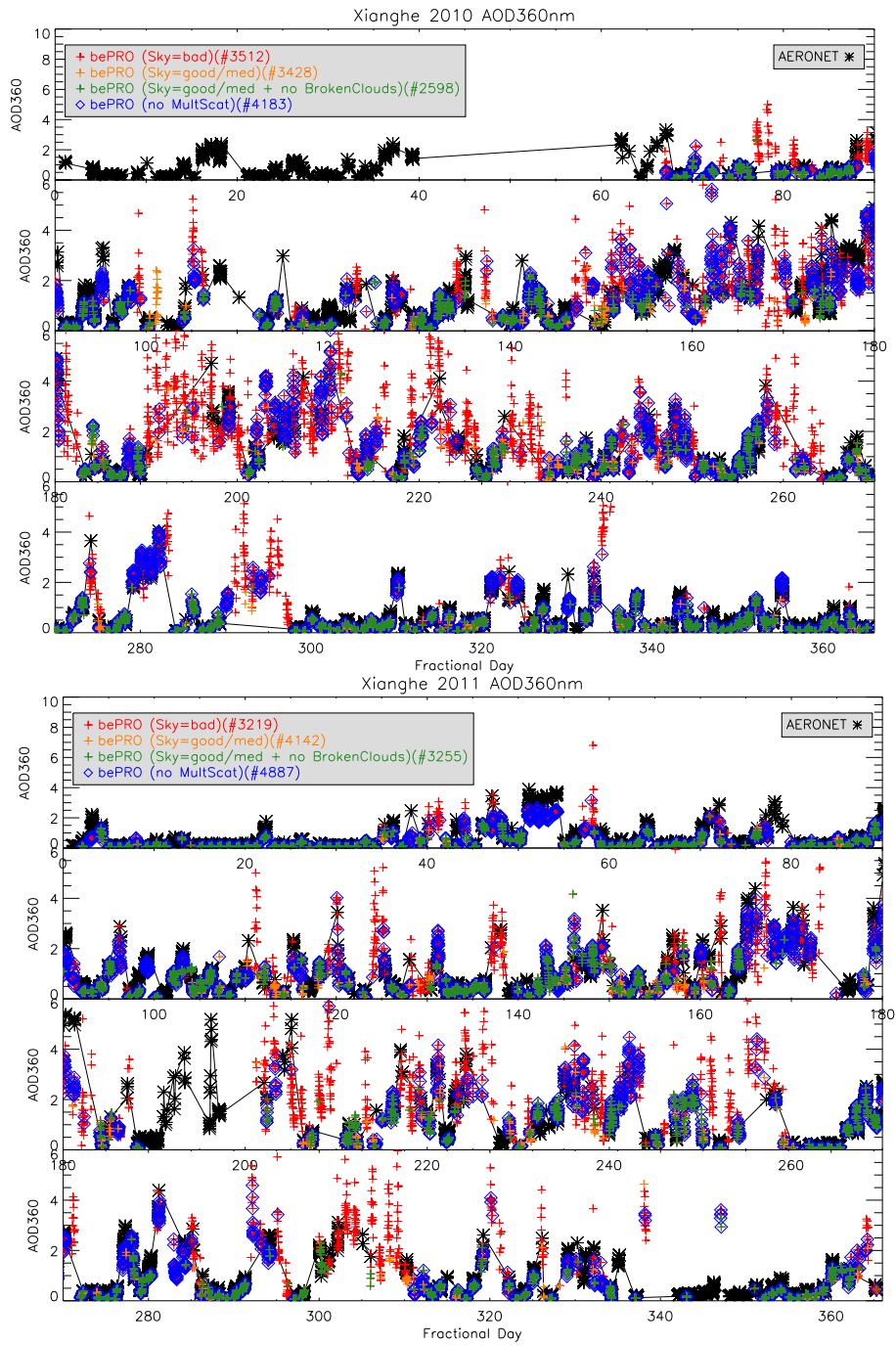


Figure 3: Continued below.

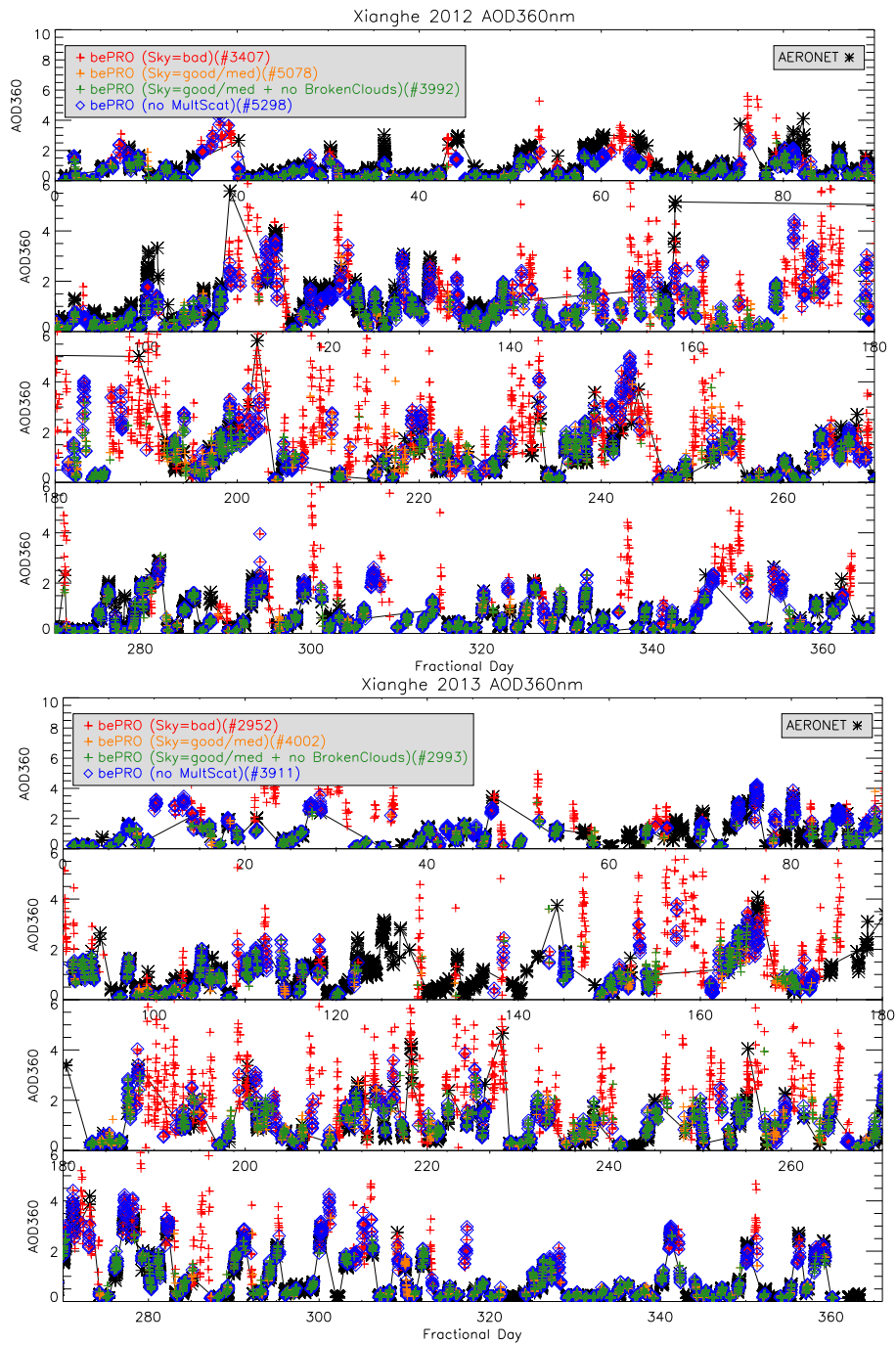


Figure 3: Same as Fig. 2 but for retrievals at 360 nm.

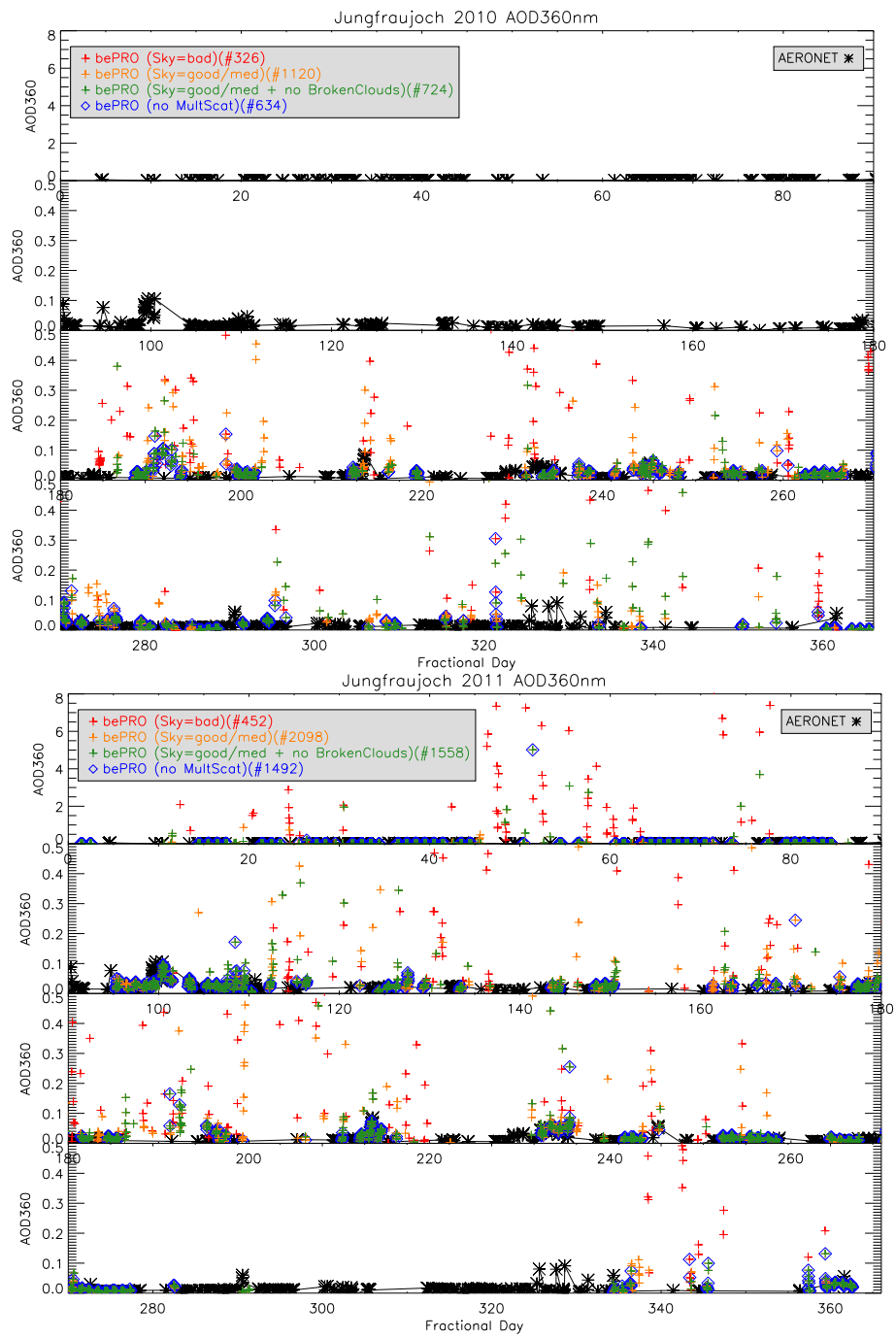


Figure 4: Continued below.

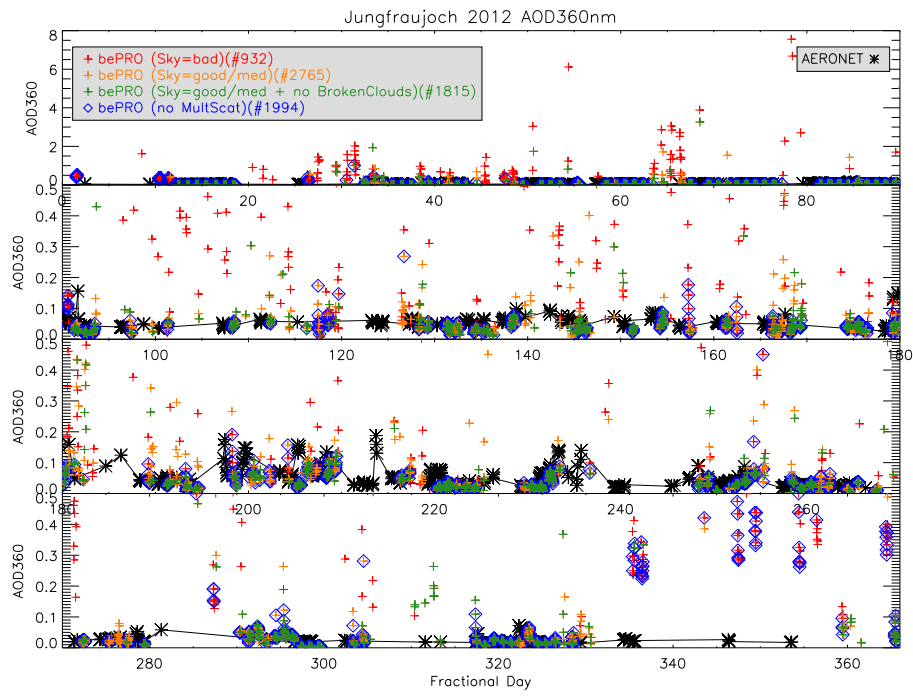


Figure 4: Same as Fig. 1 but for the Jungfraujoch data set at 360 nm.

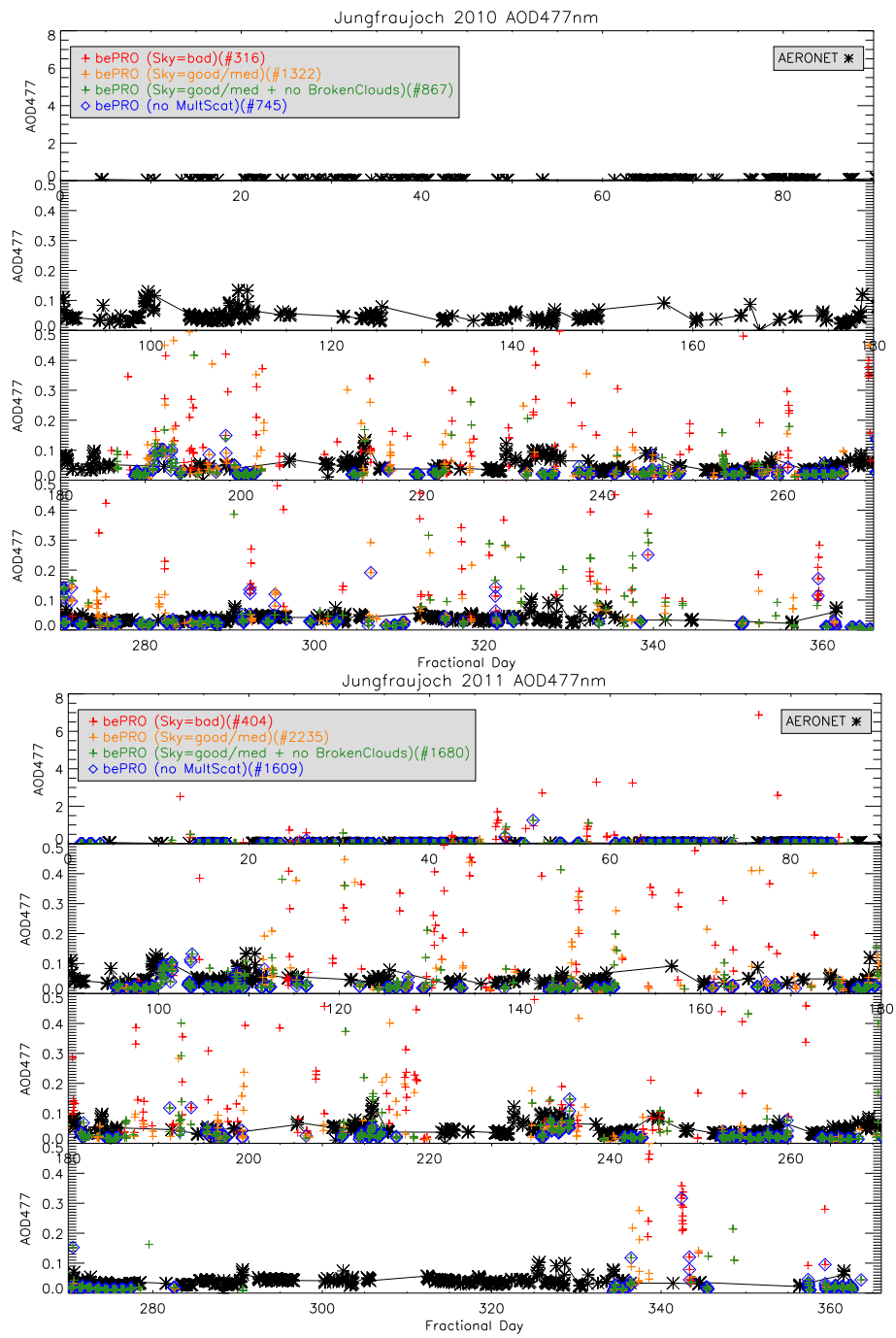


Figure 5: Continued below.

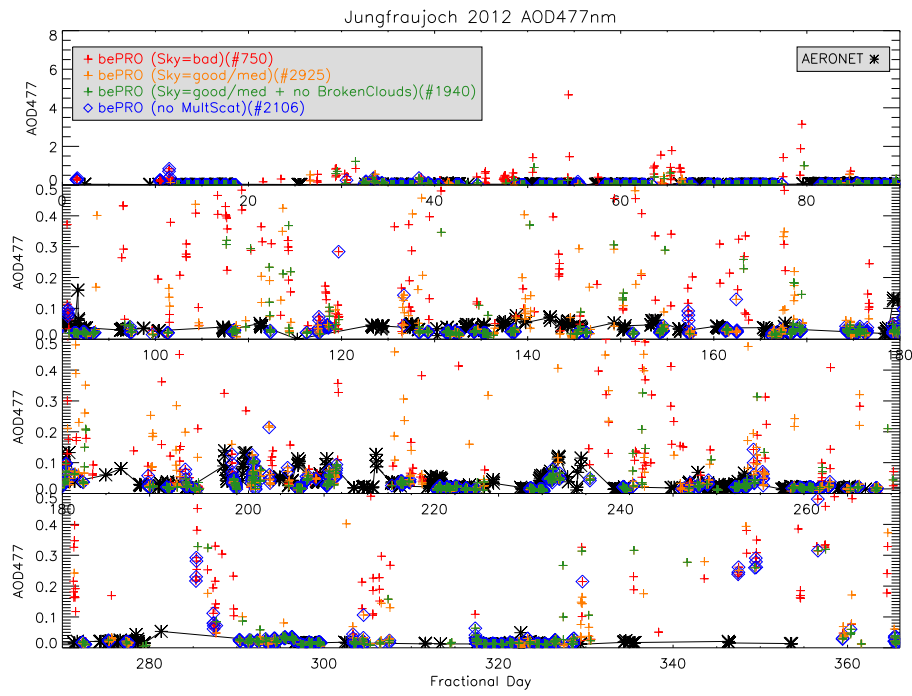


Figure 5: Same as Fig. 1 but for the Jungfraujoch data set at 477 nm.