

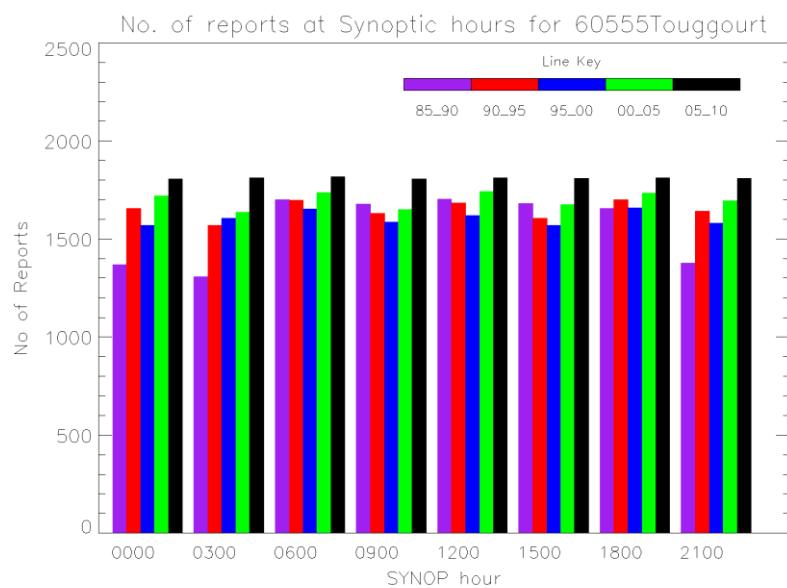
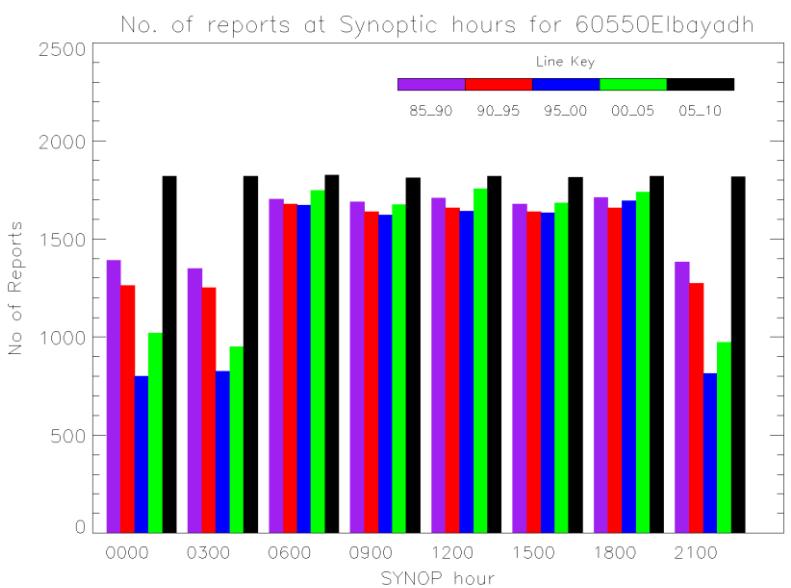
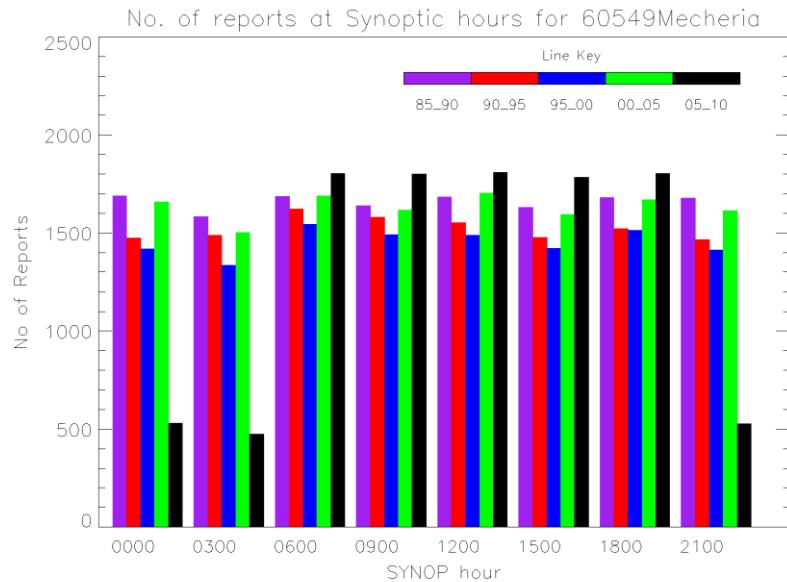
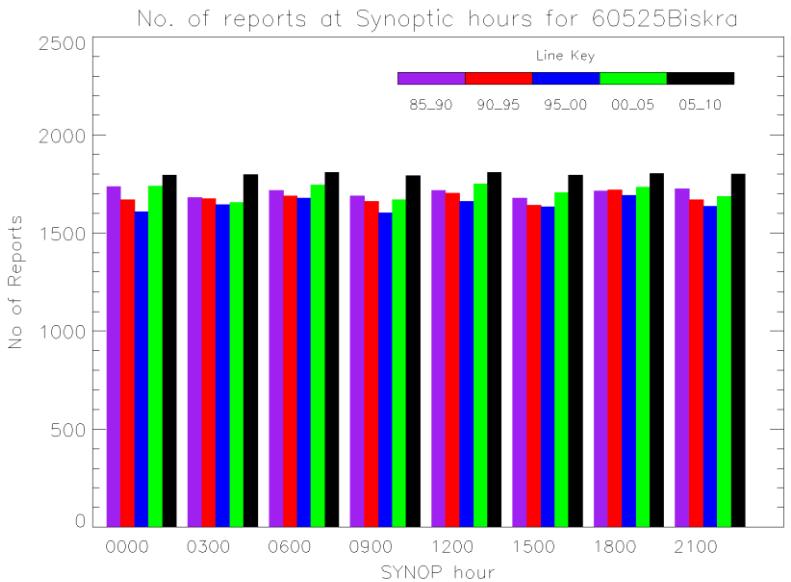


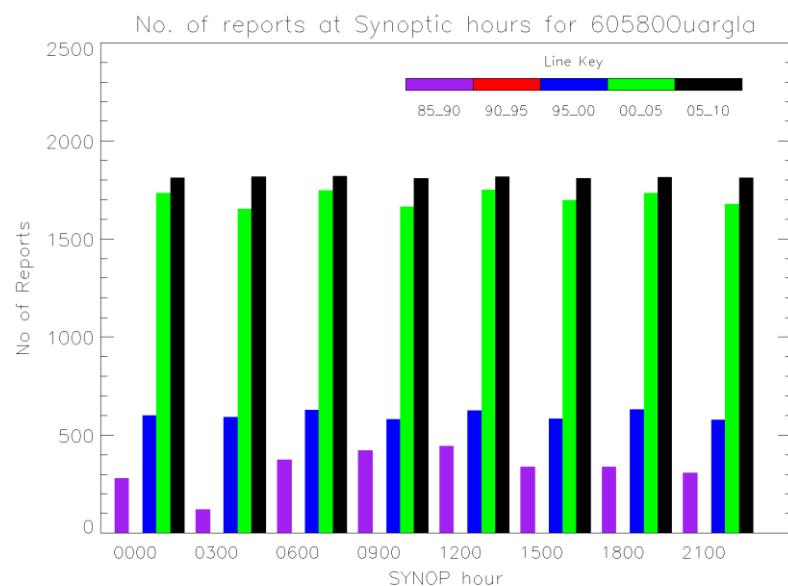
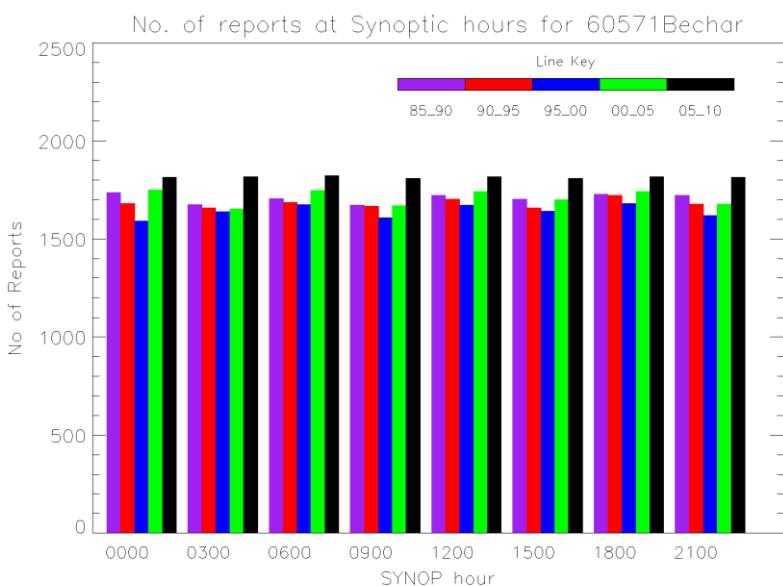
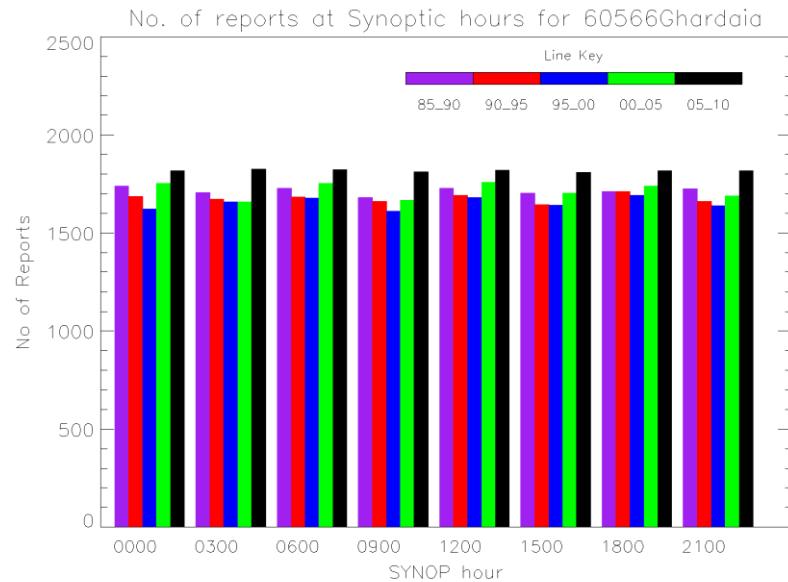
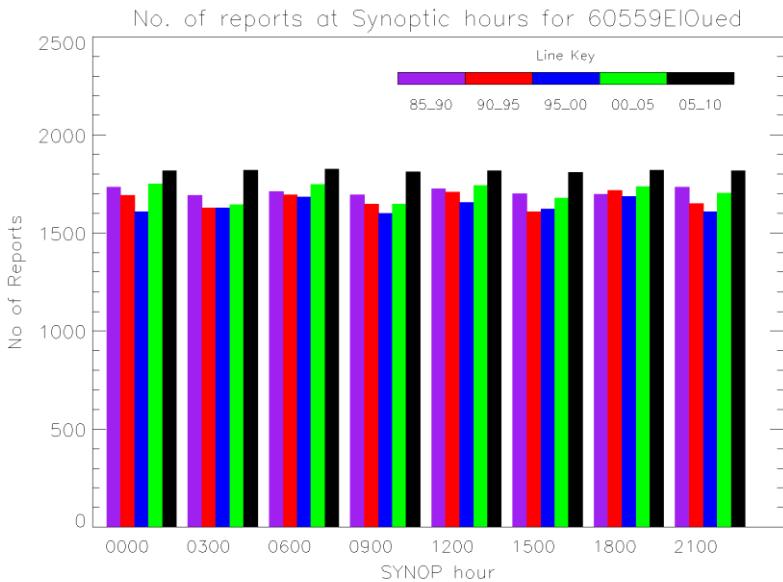
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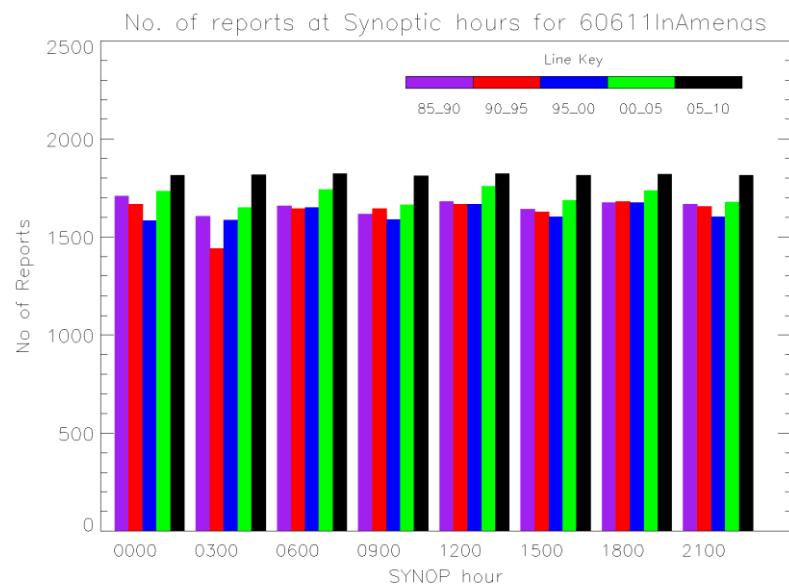
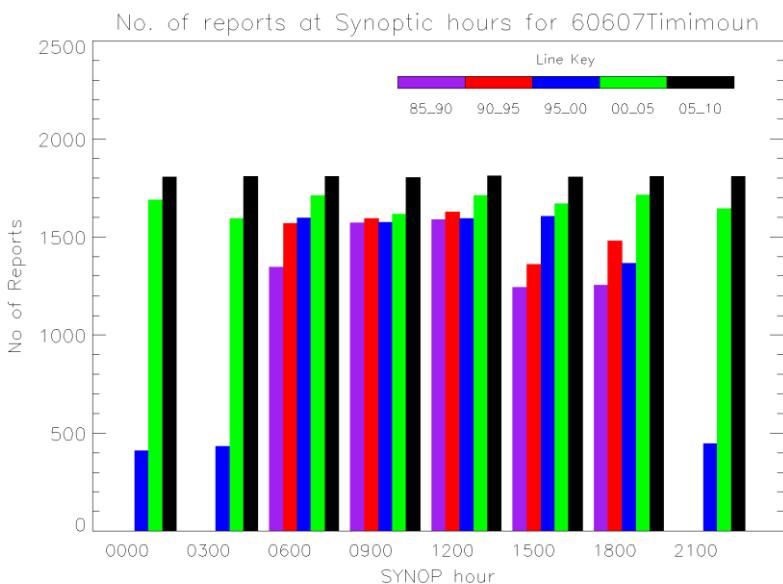
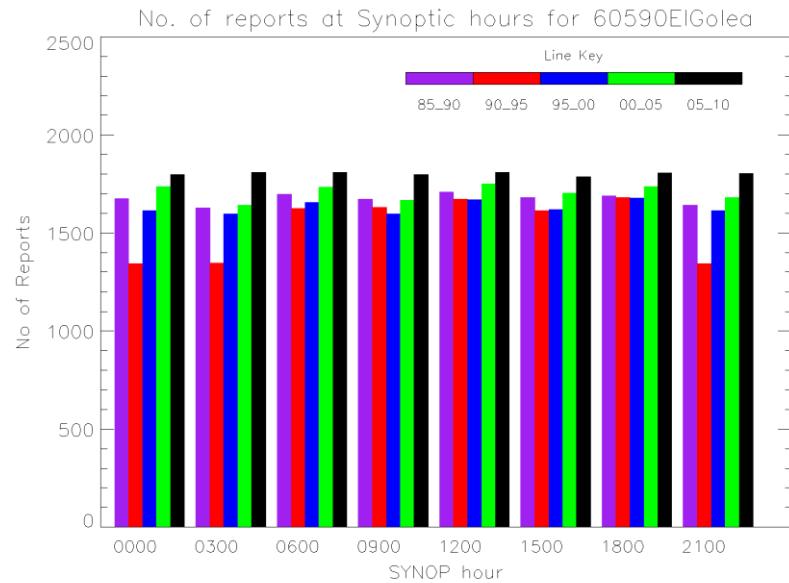
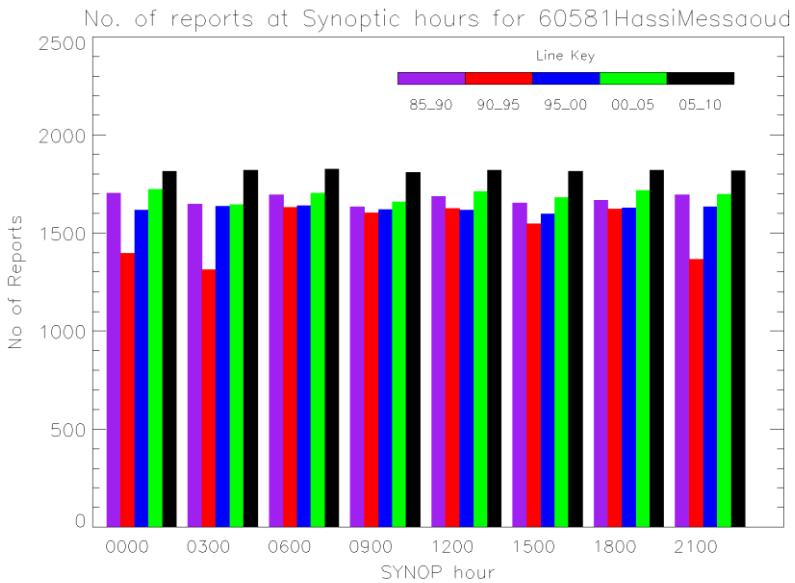
A climatology of dust emission events from northern Africa using long-term surface observations

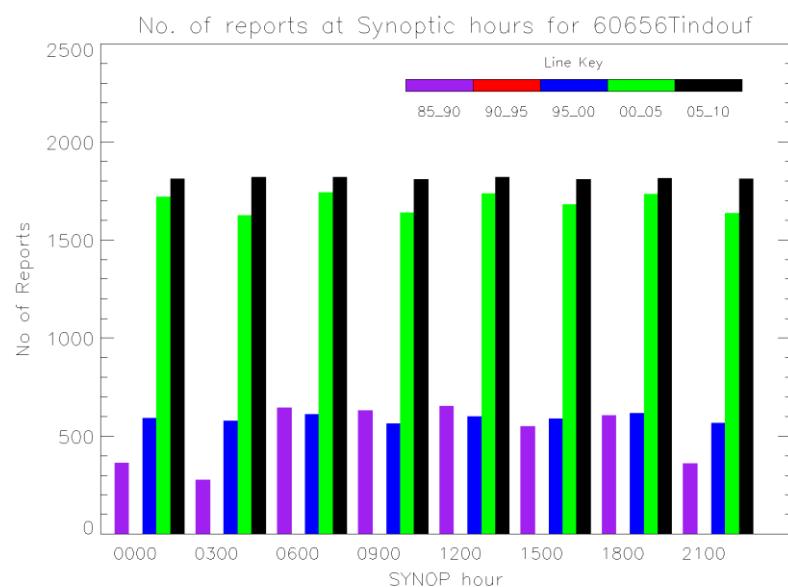
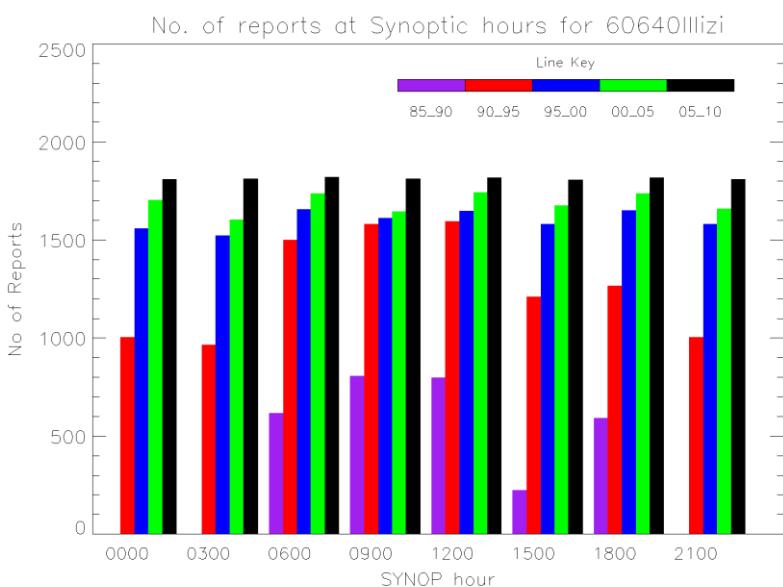
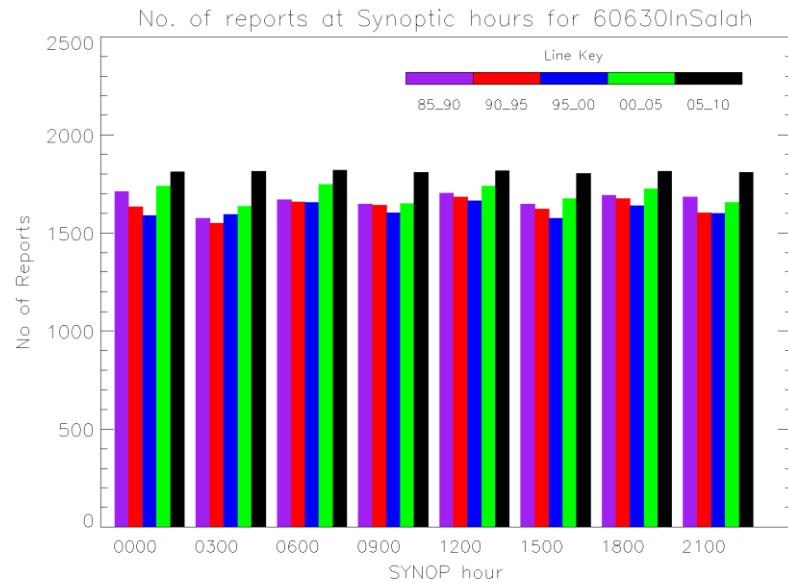
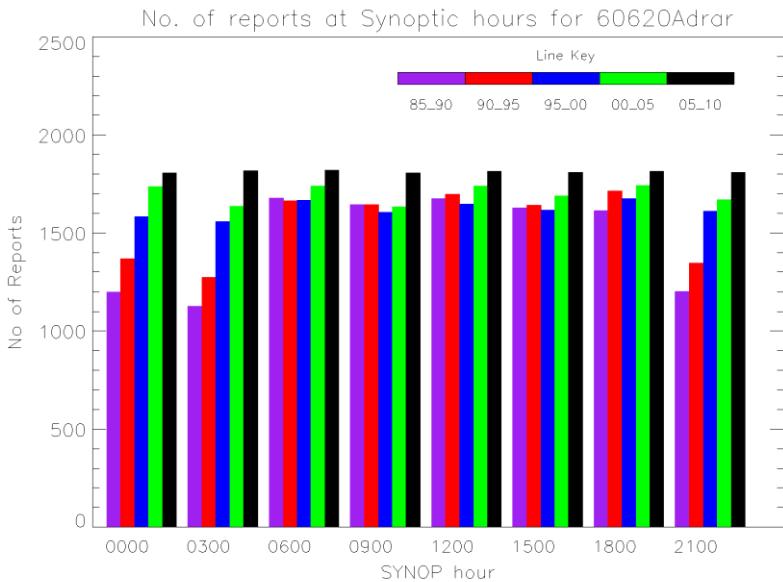
S. M. Cowie et al.

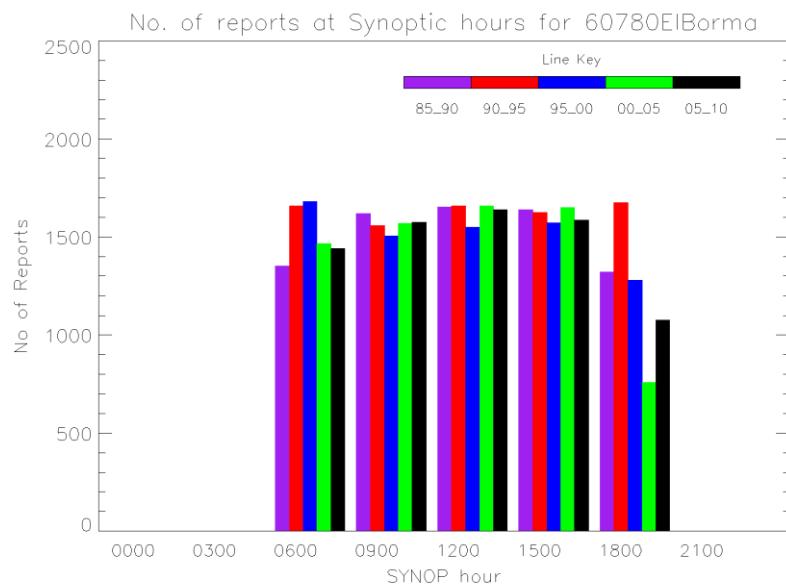
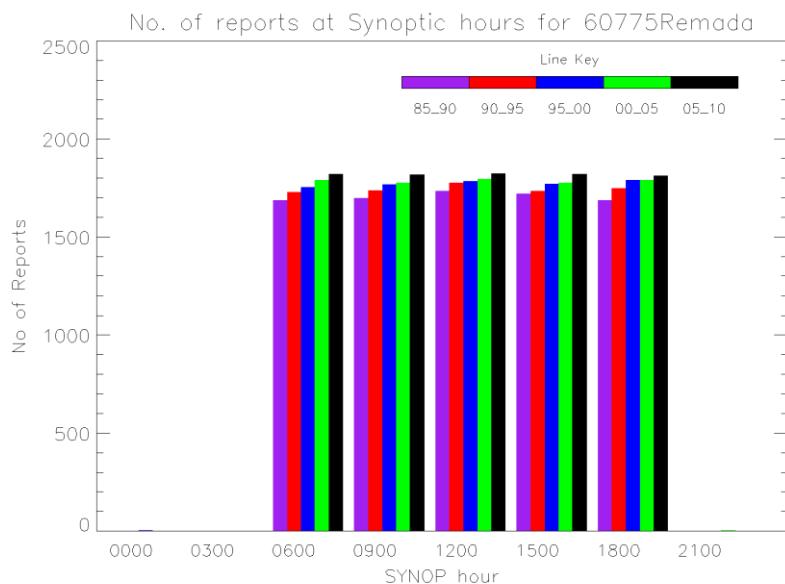
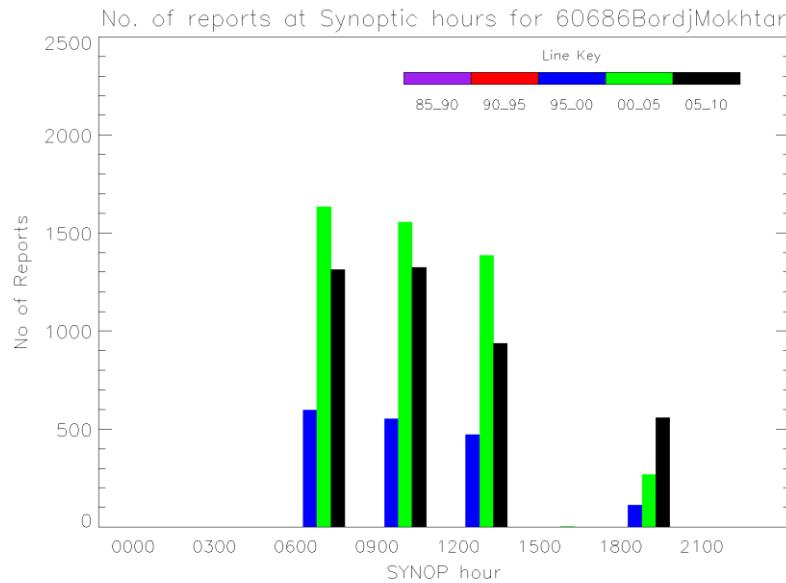
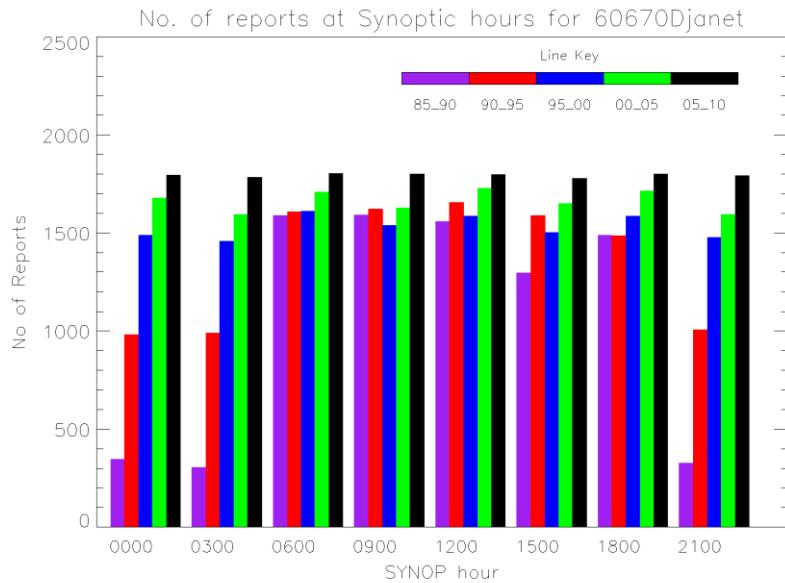
Correspondence to: S. M. Cowie (eesc@leeds.ac.uk)

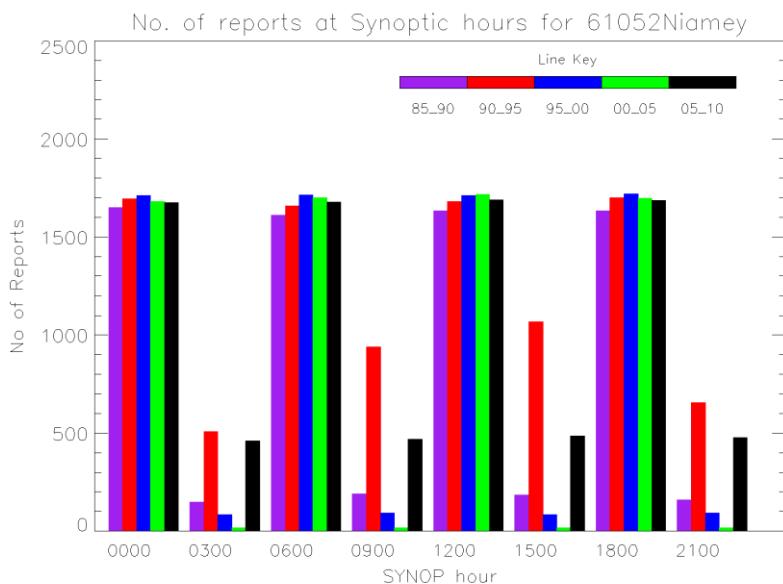
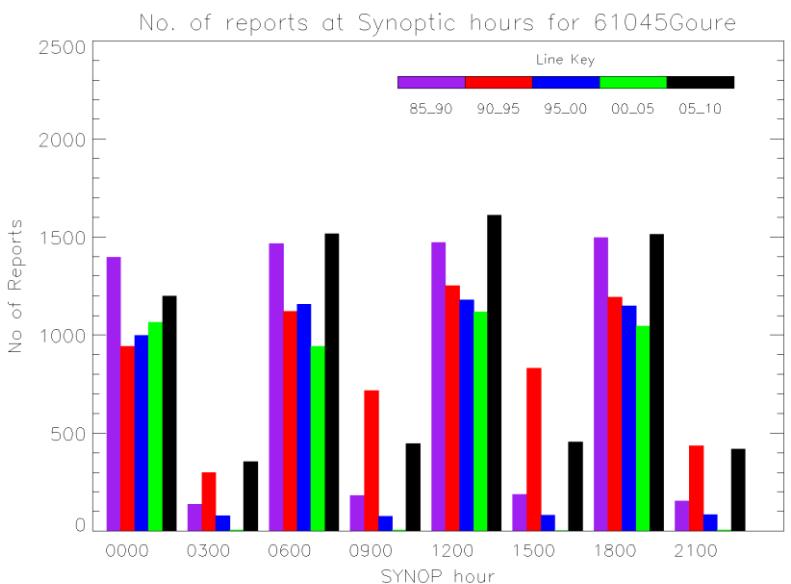
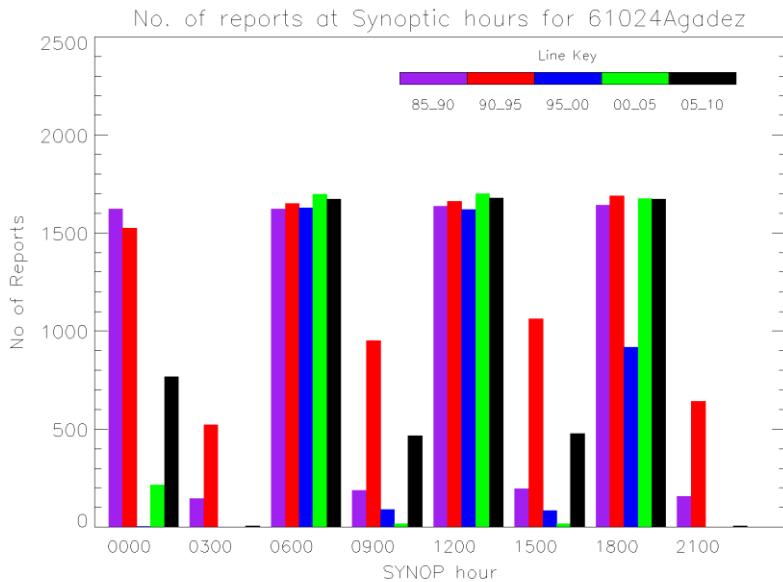
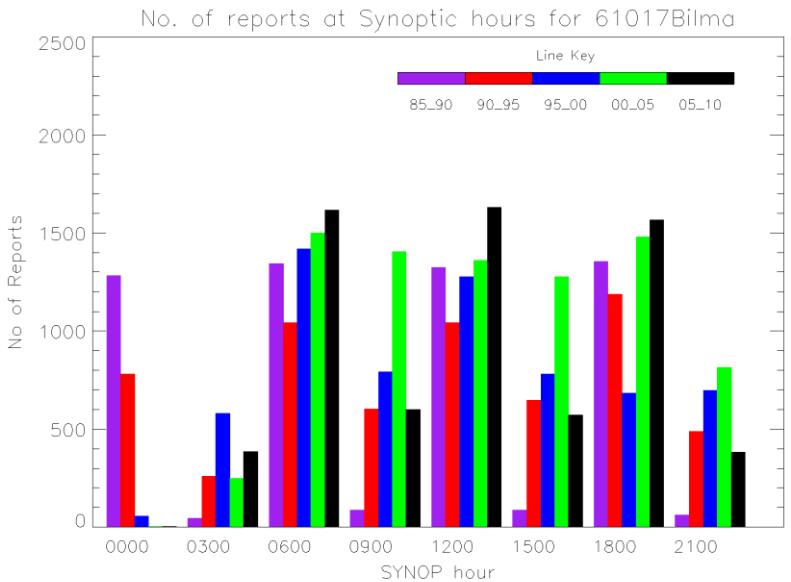


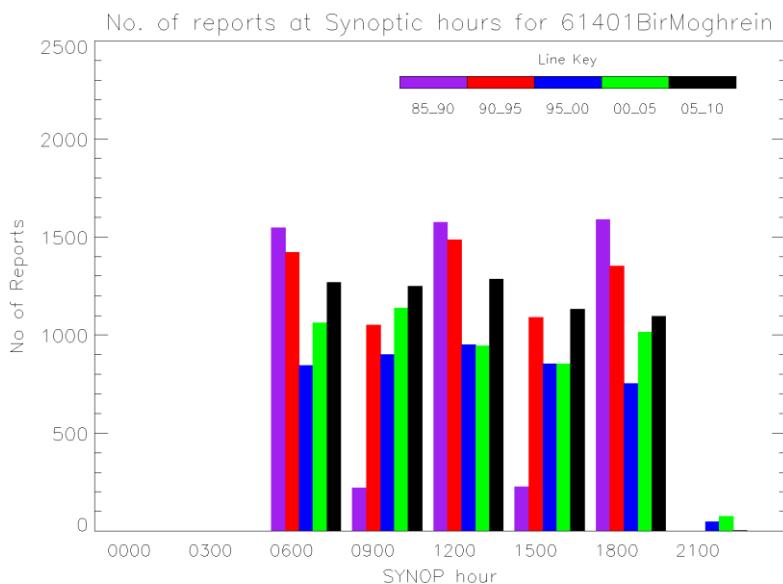
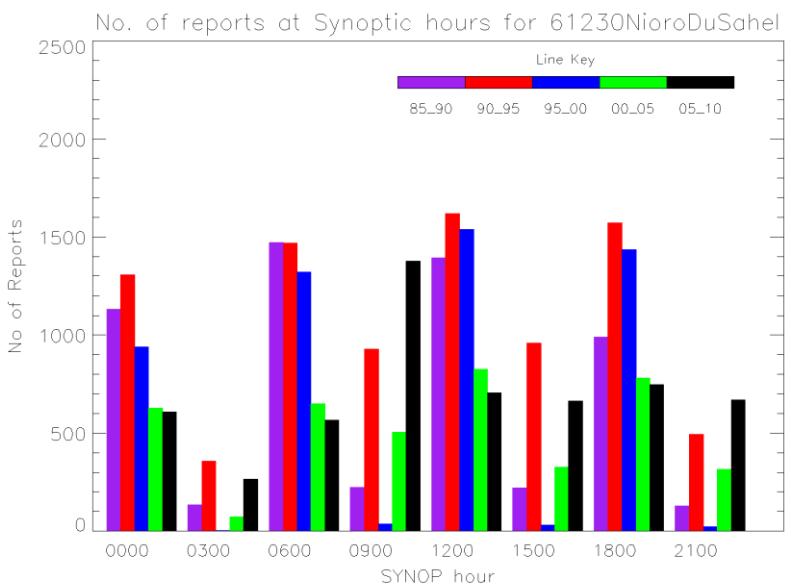
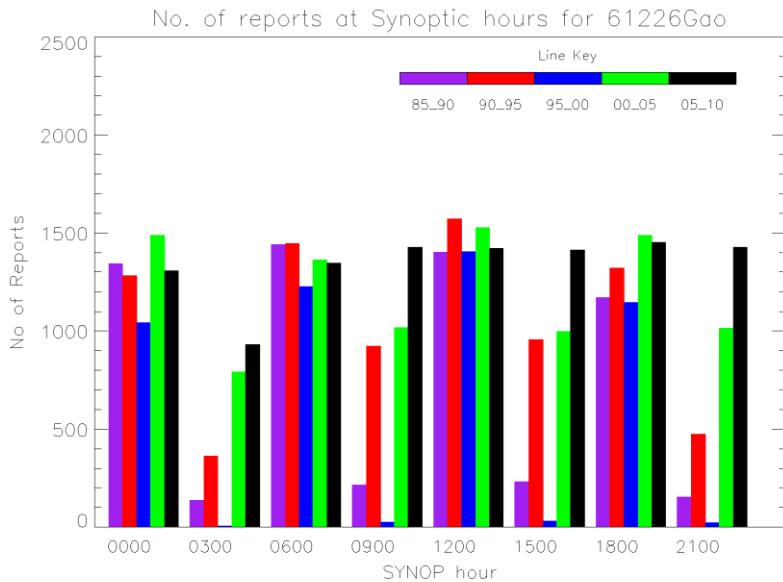
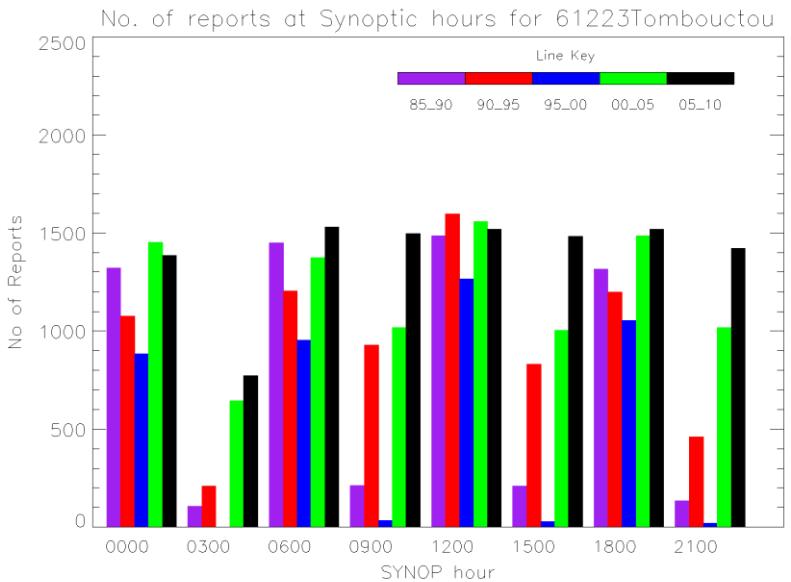


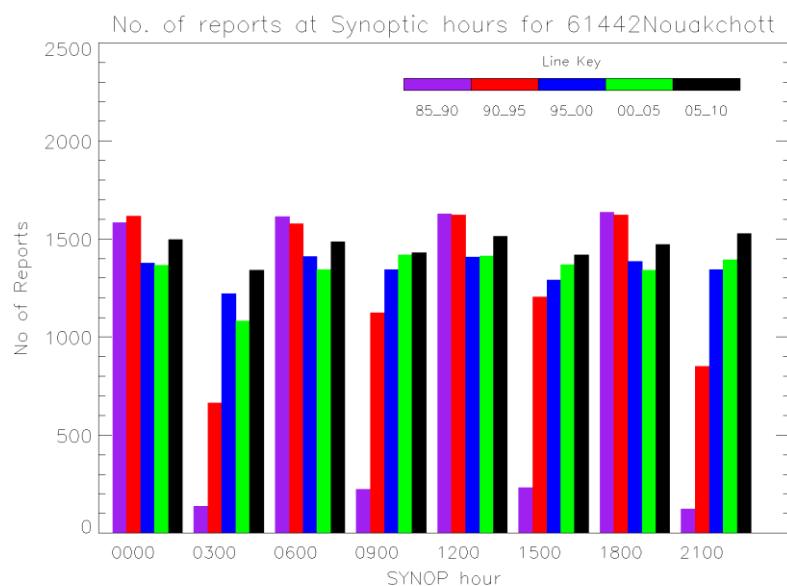
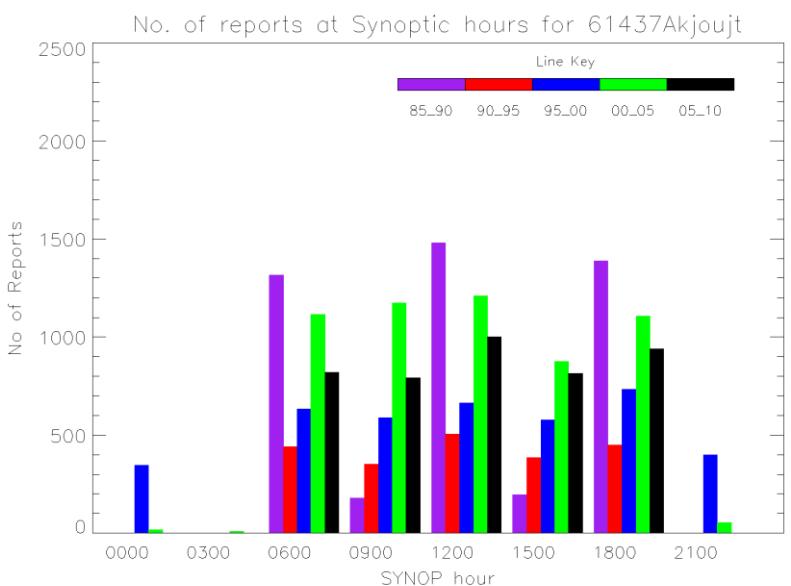
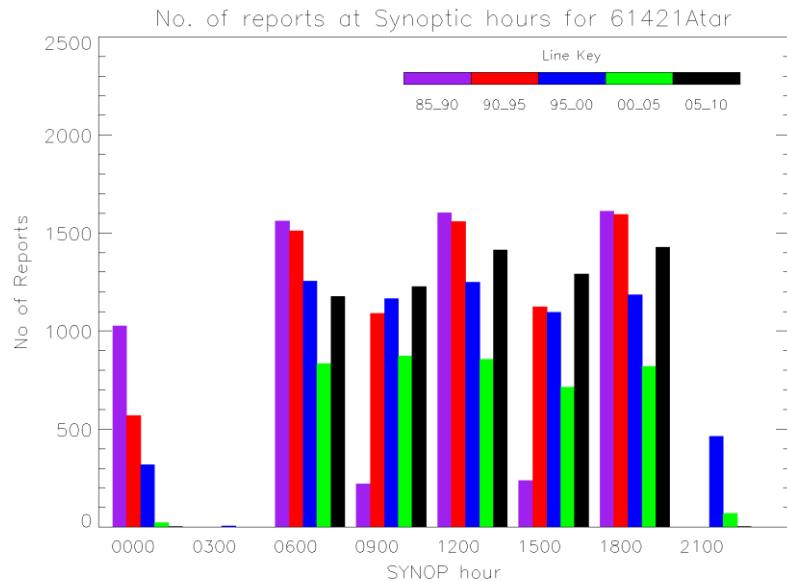
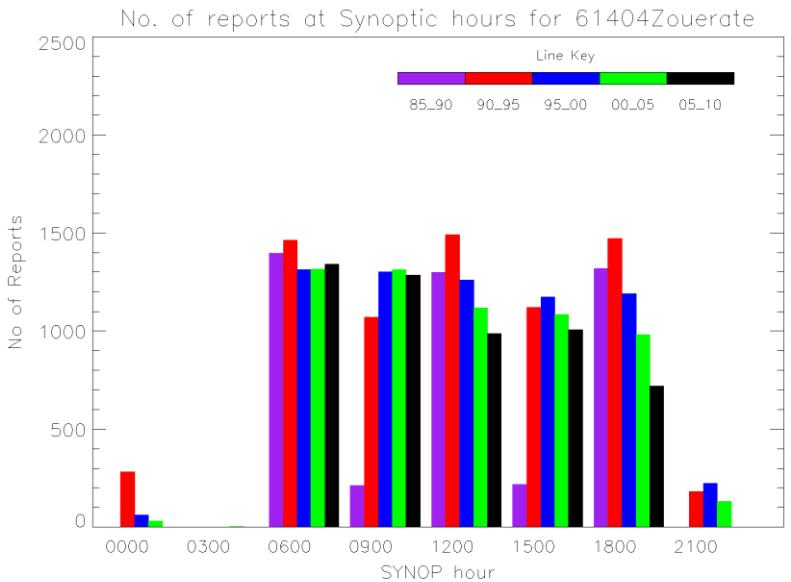


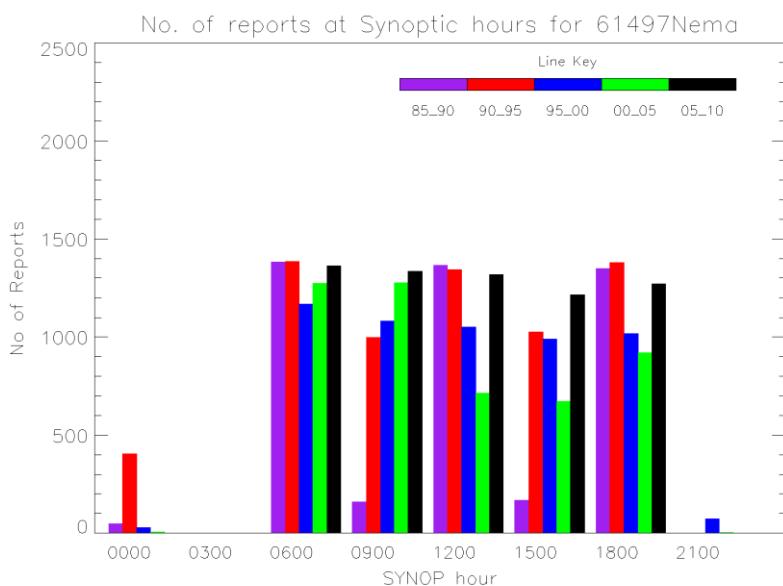
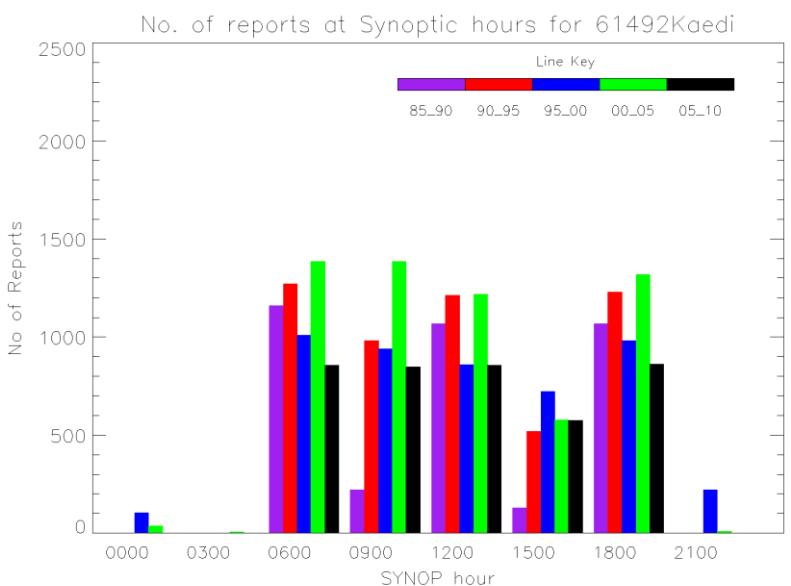
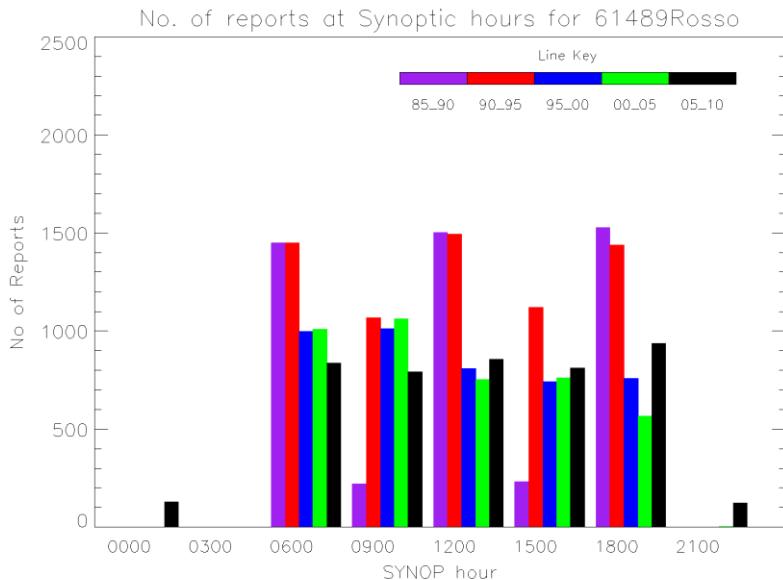
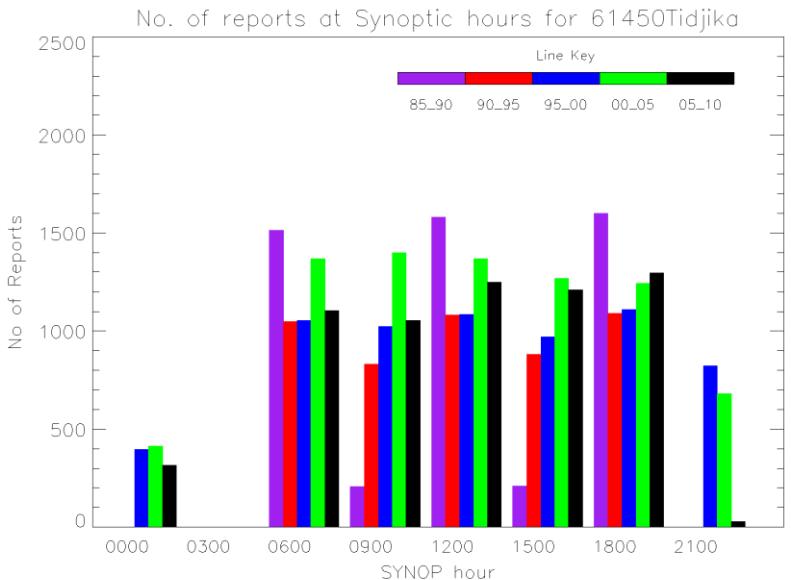


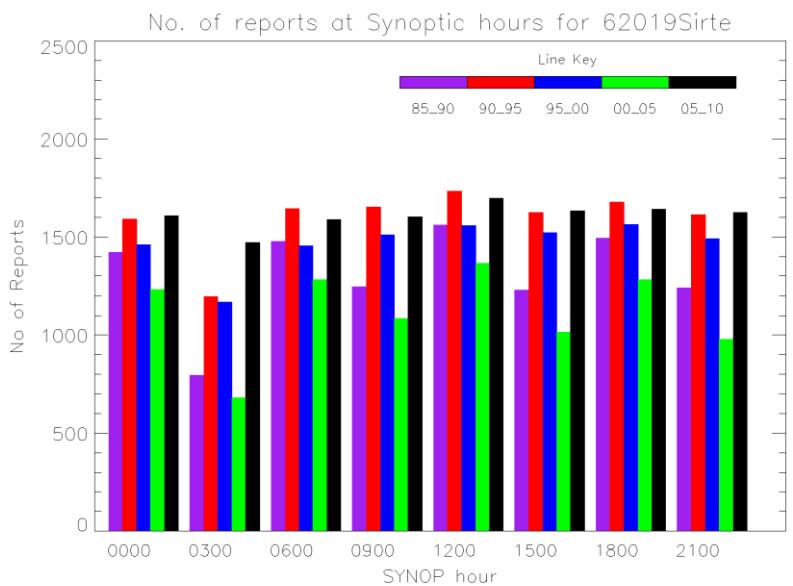
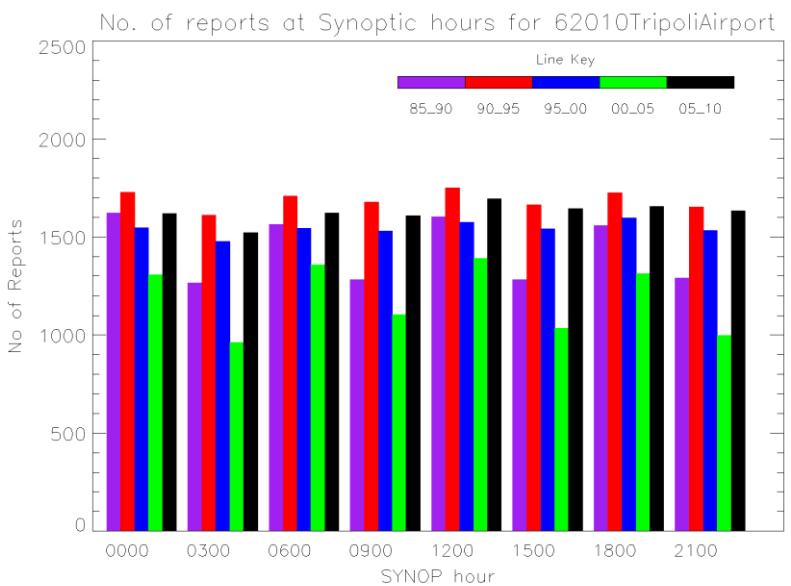
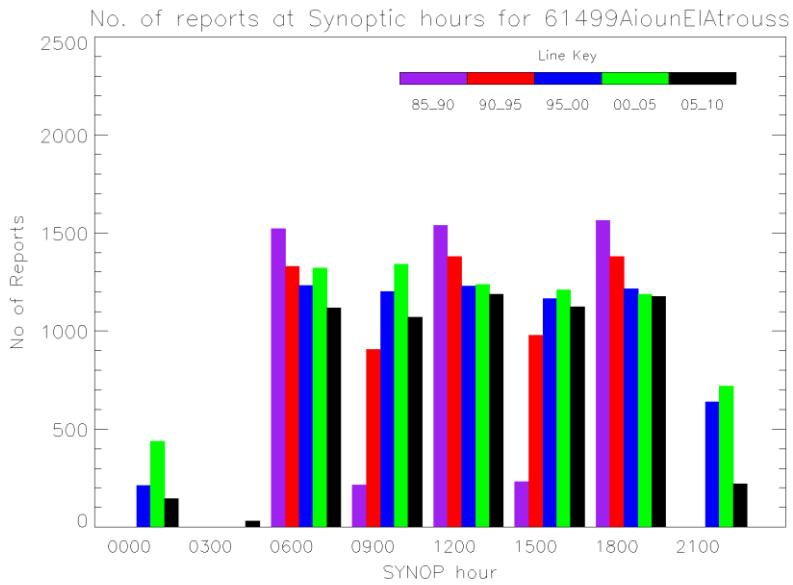
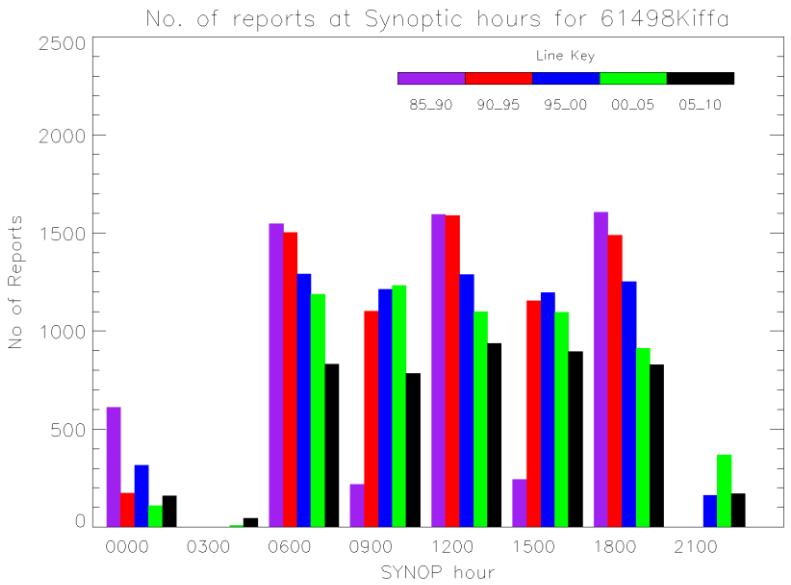


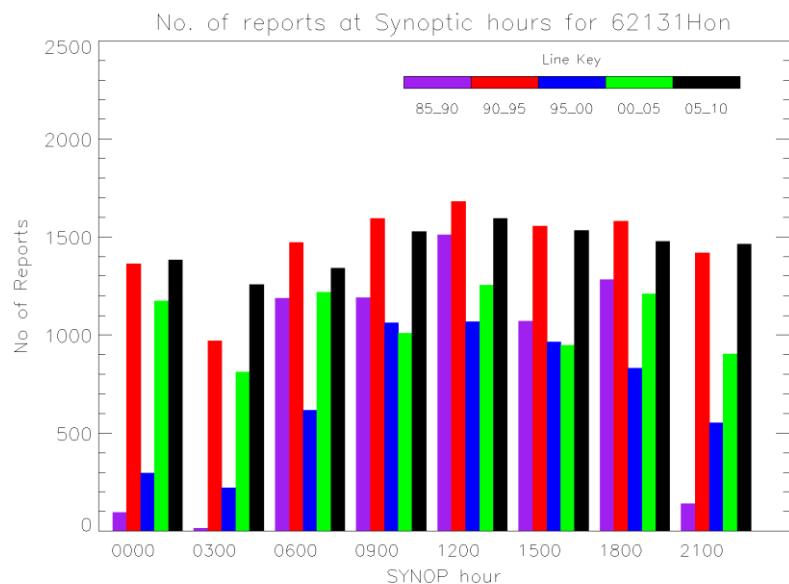
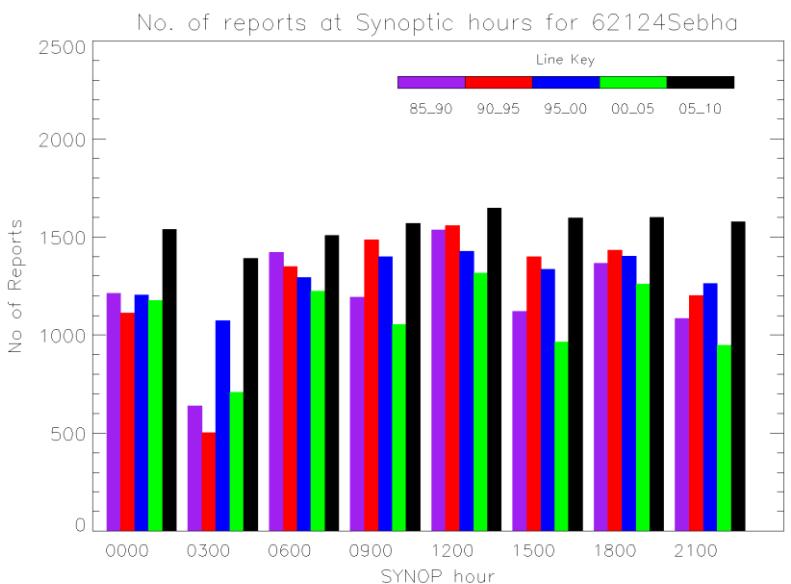
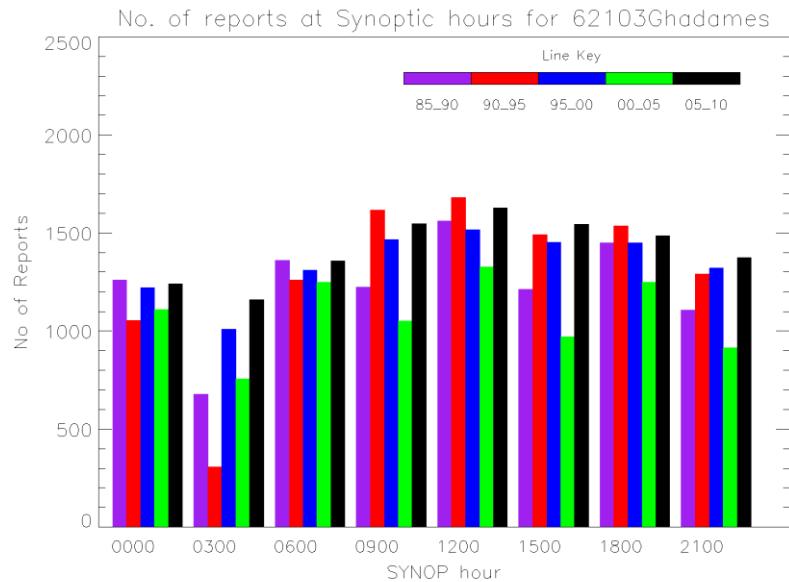
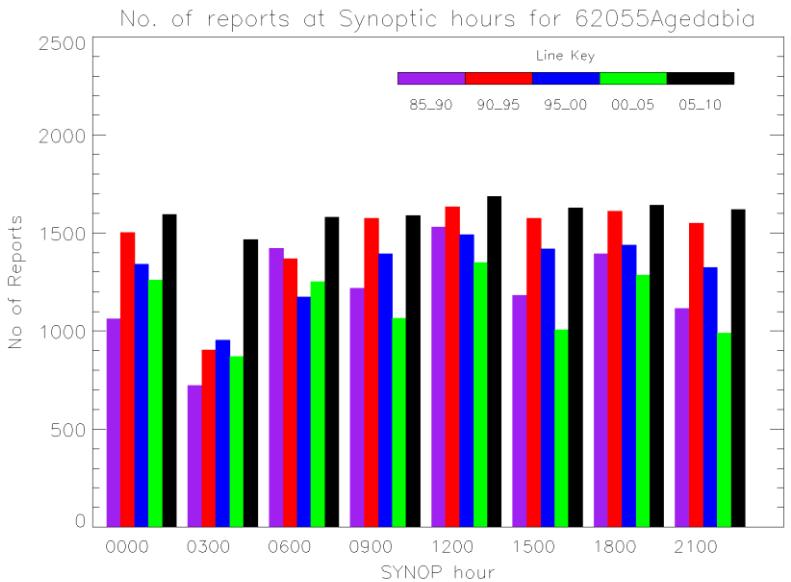


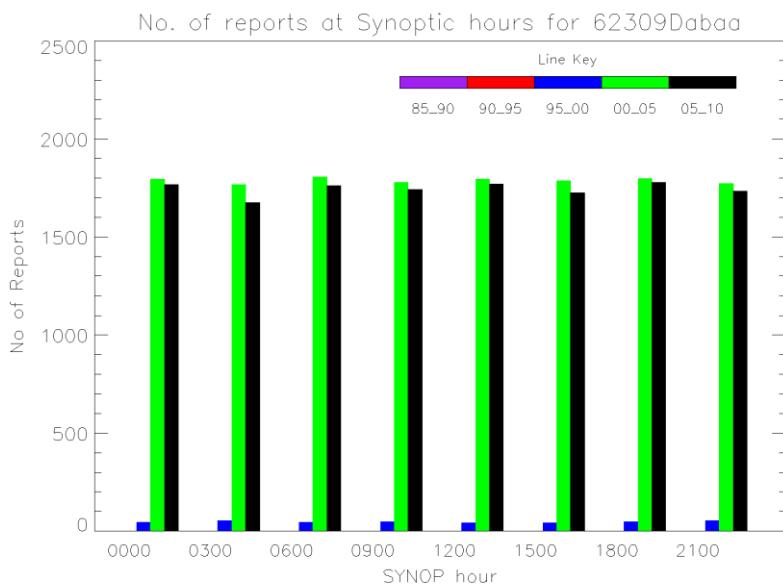
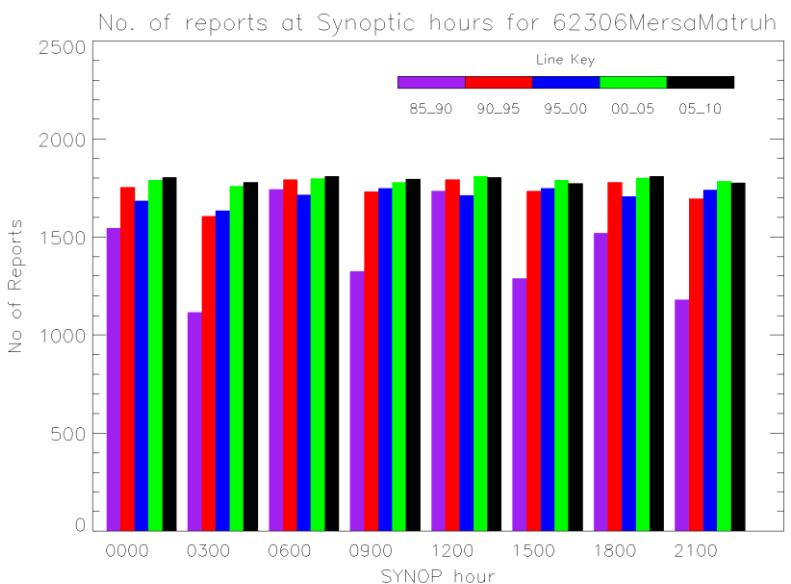
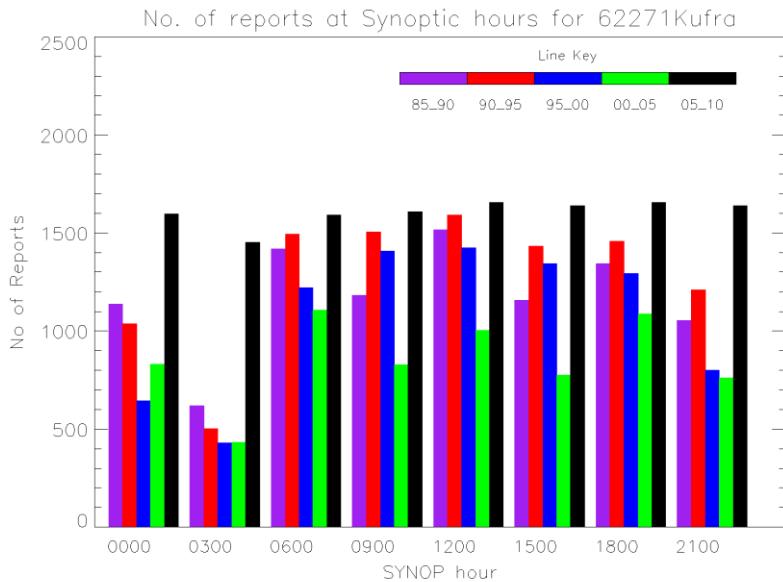
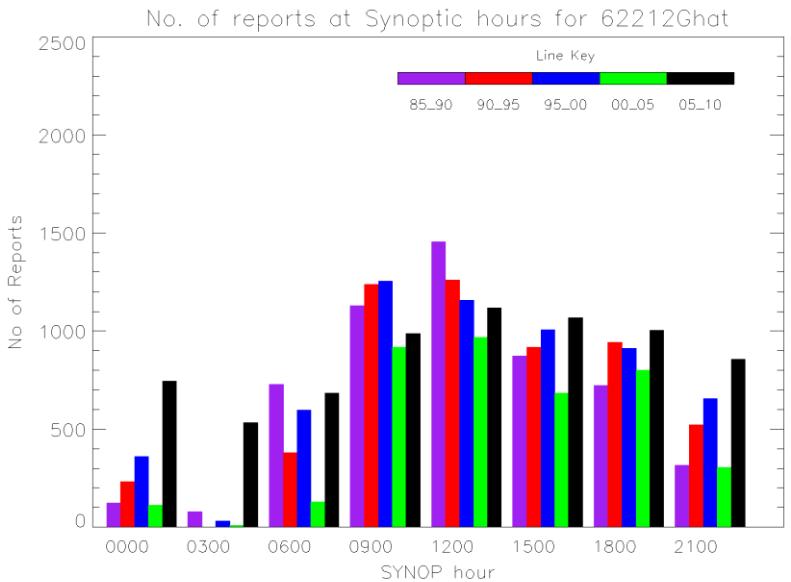


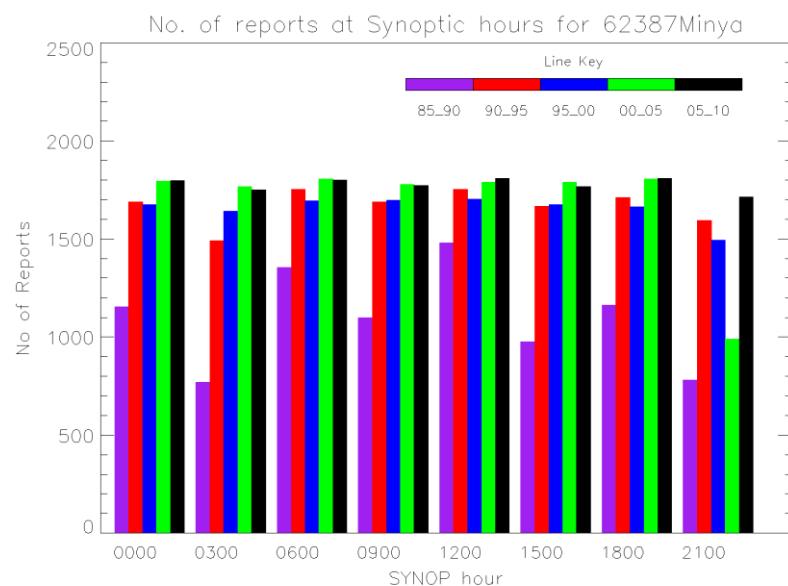
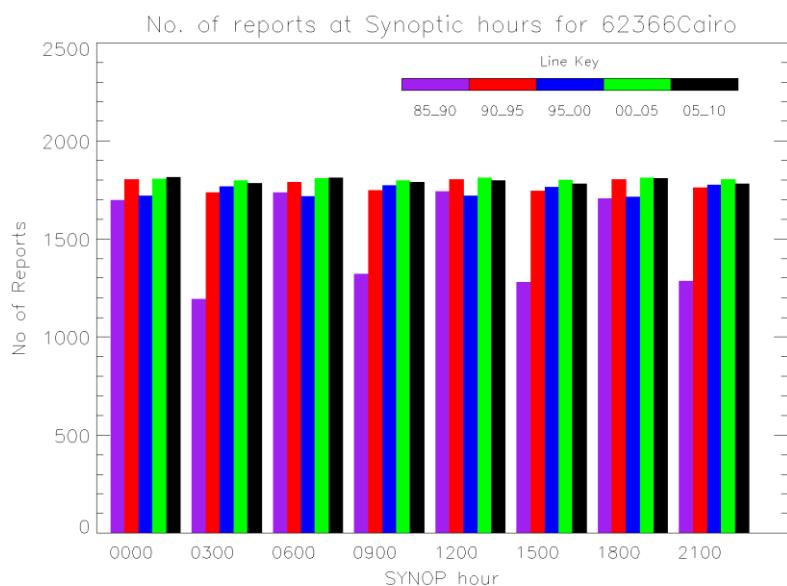
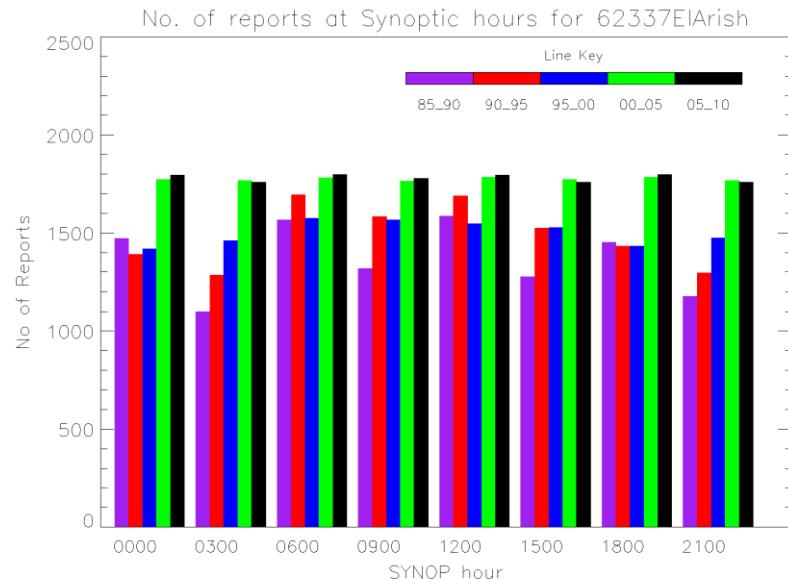
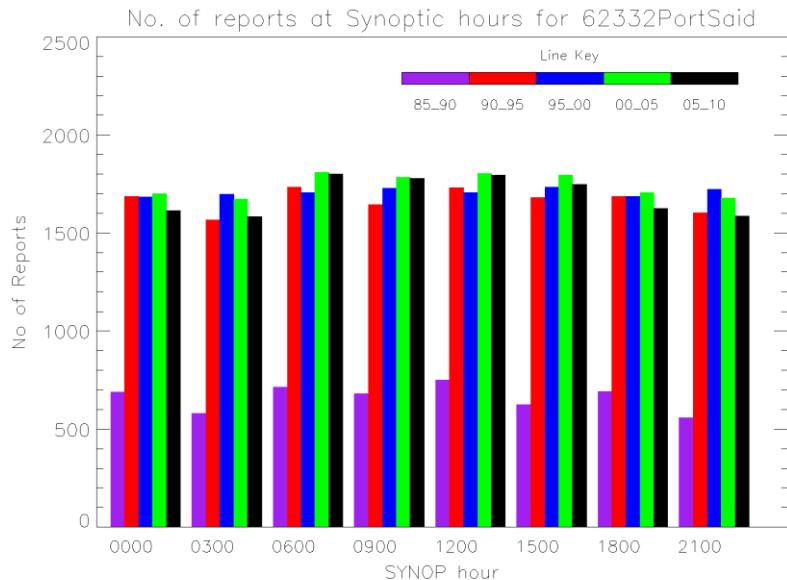


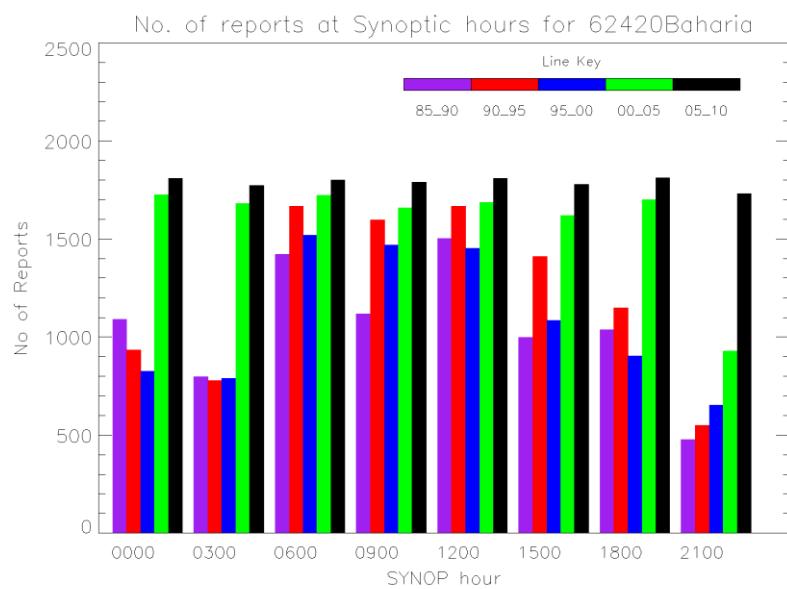
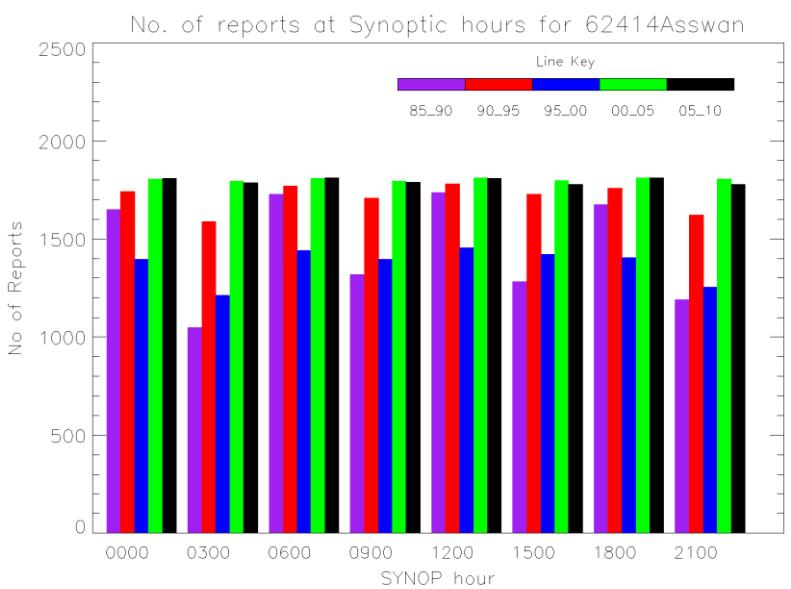
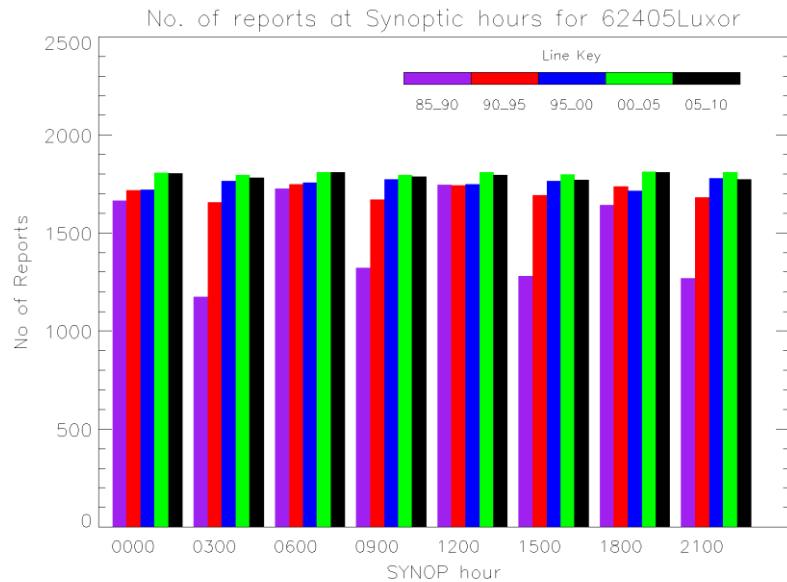
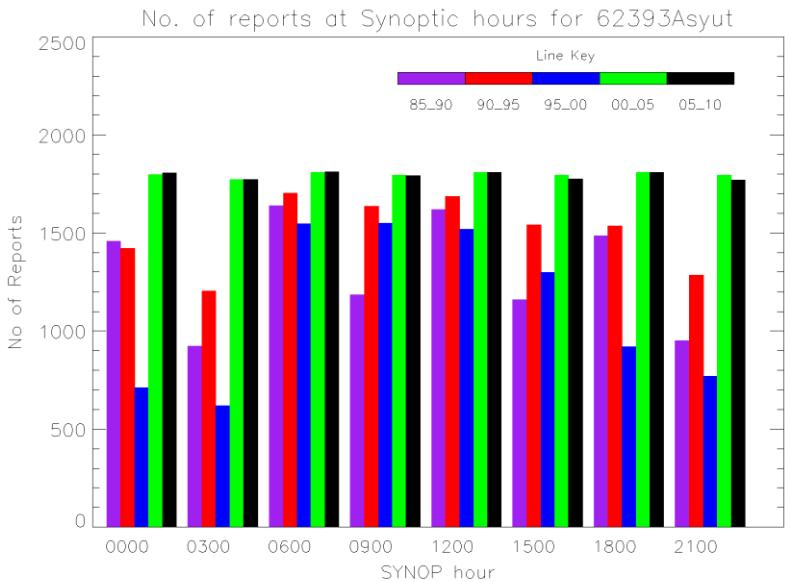


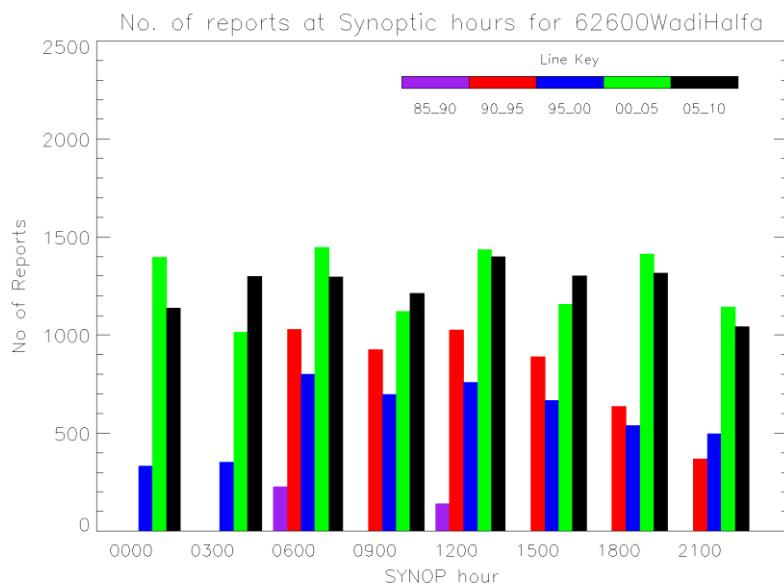
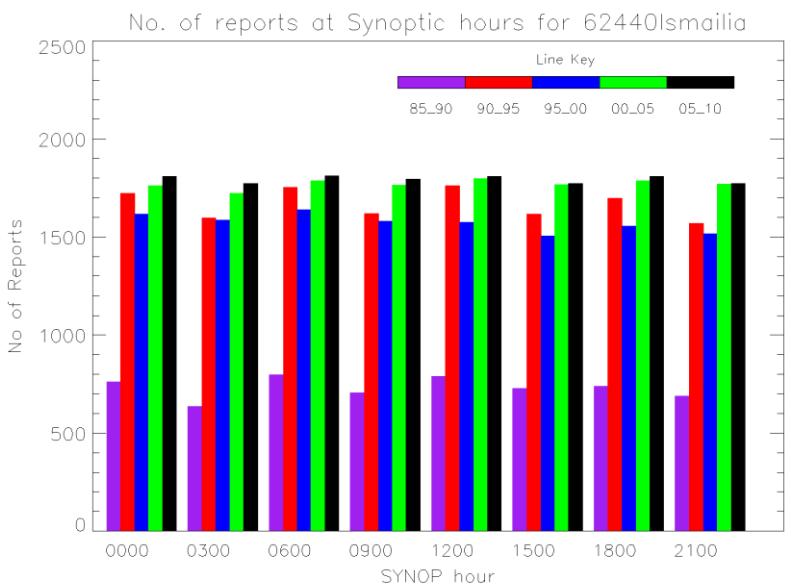
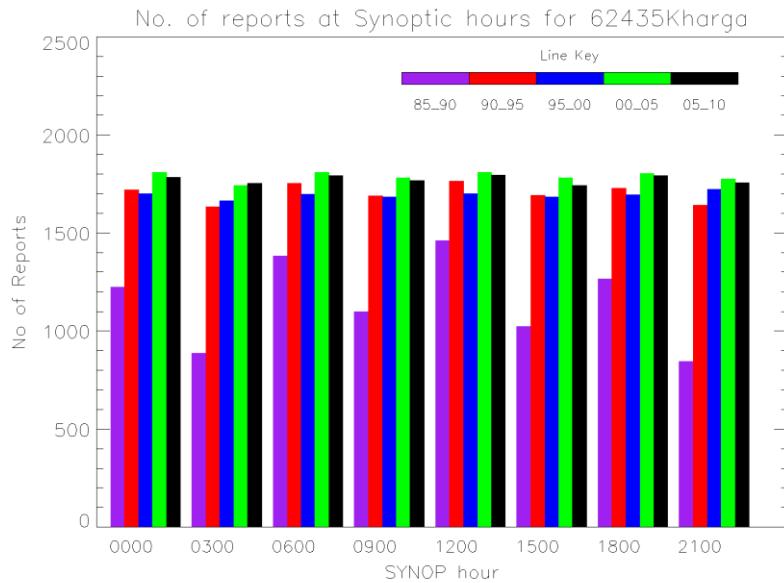
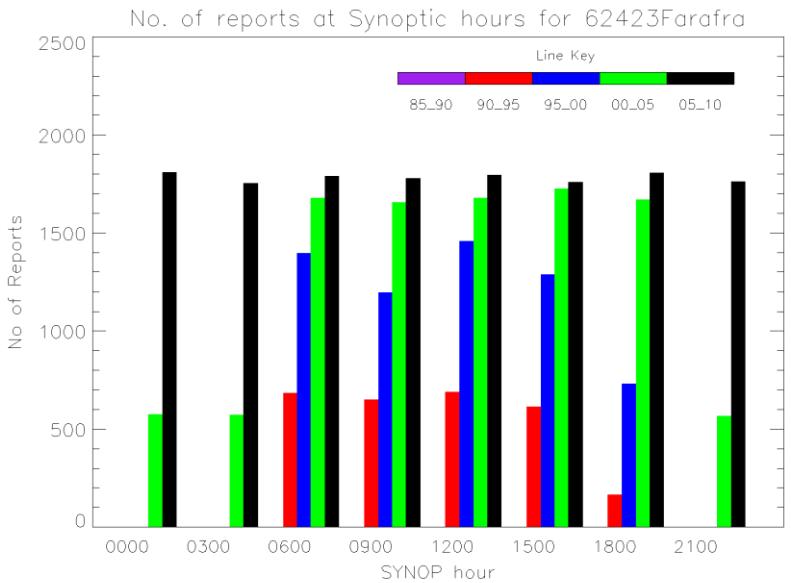


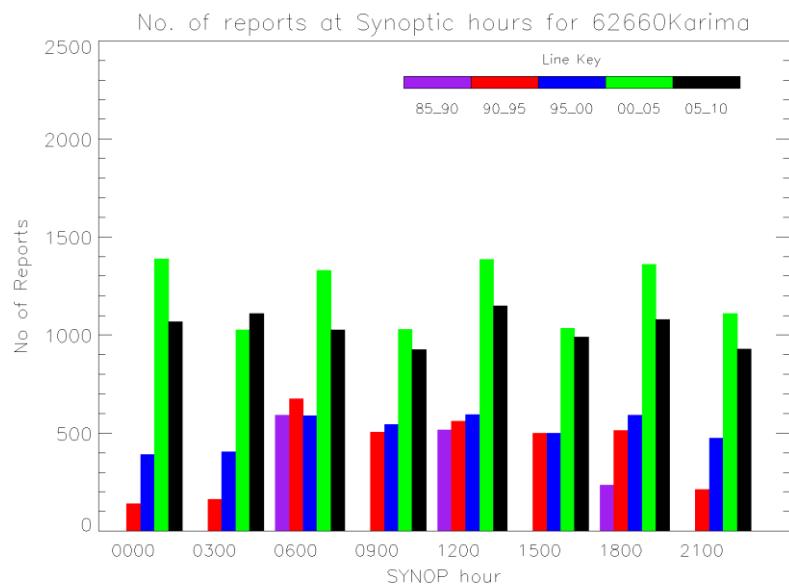
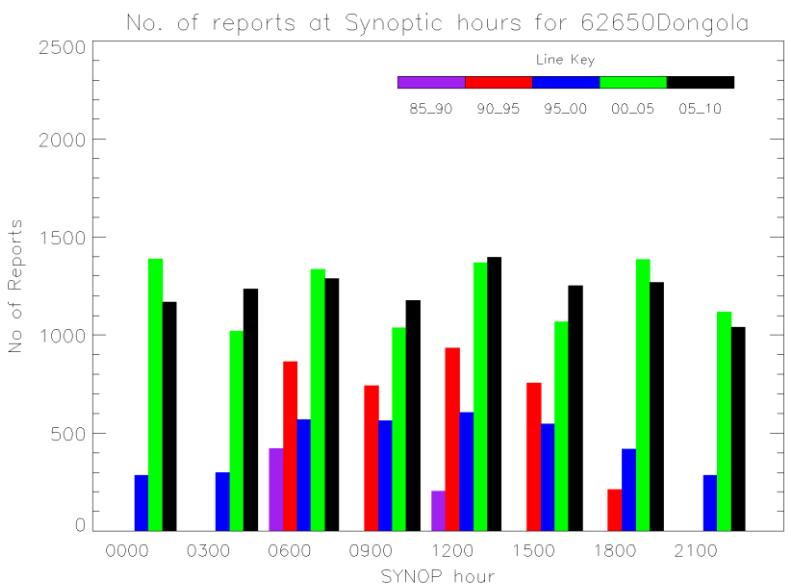
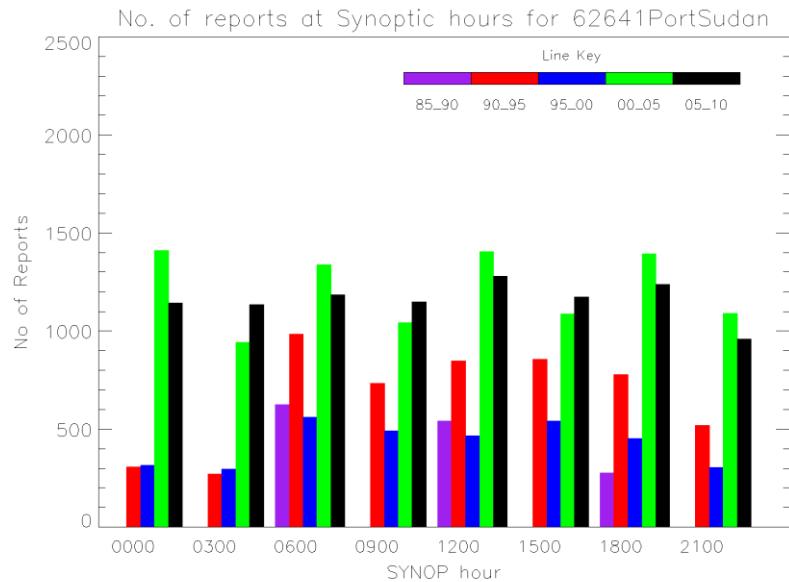
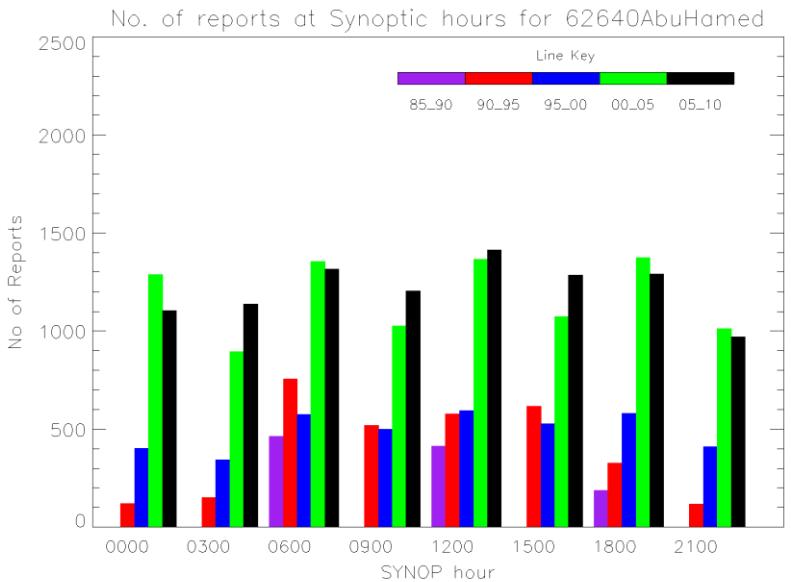


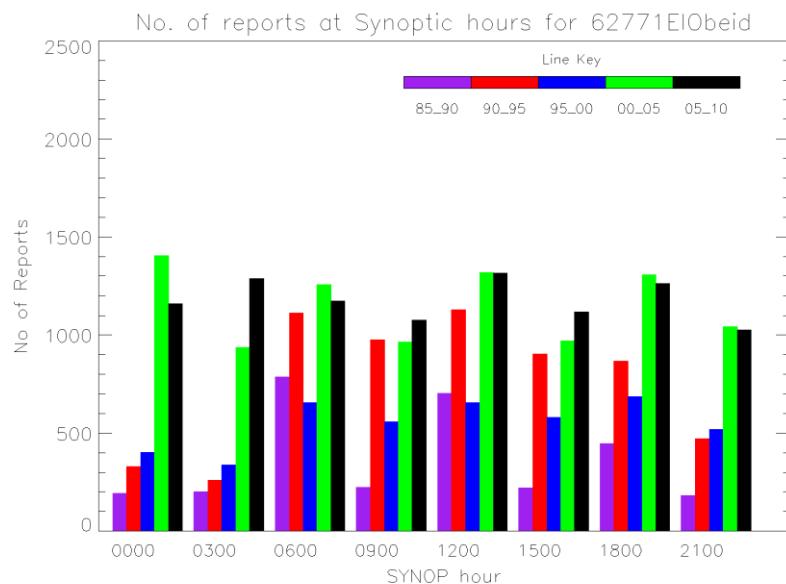
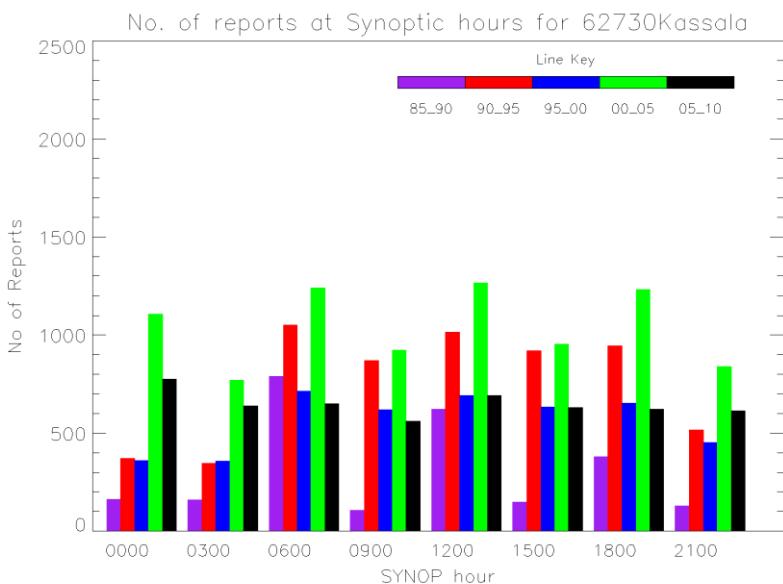
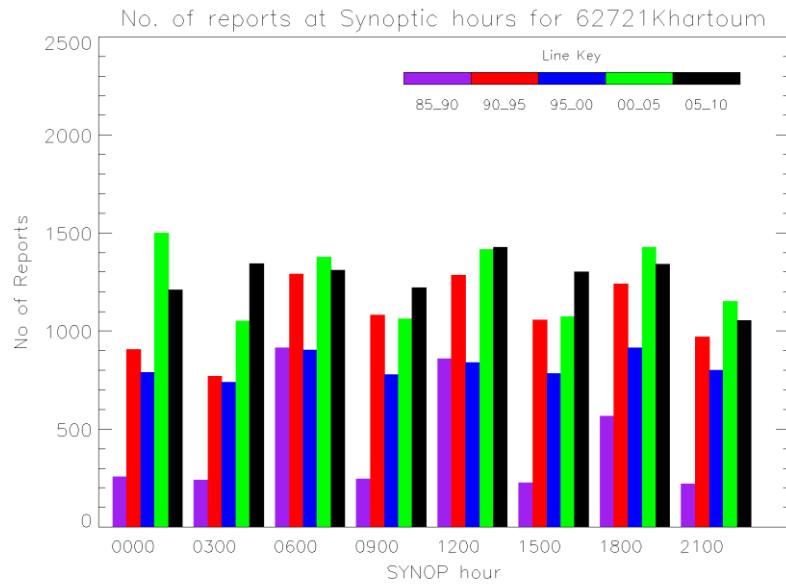
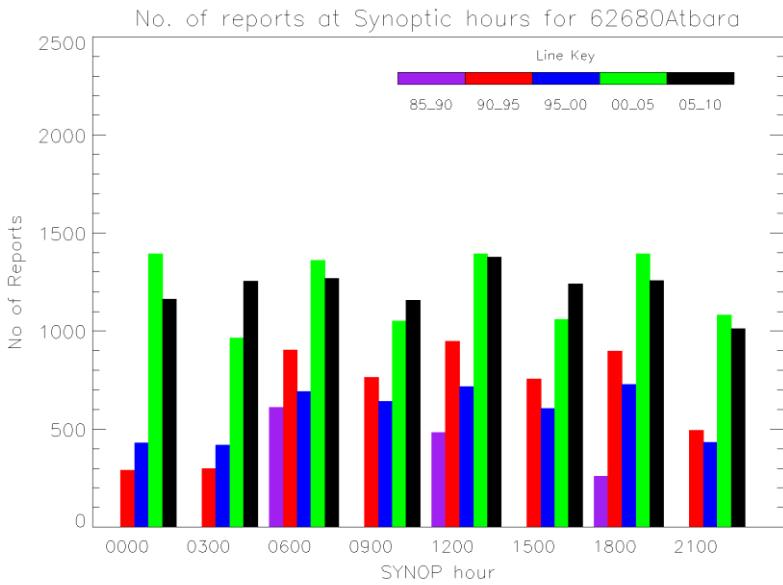












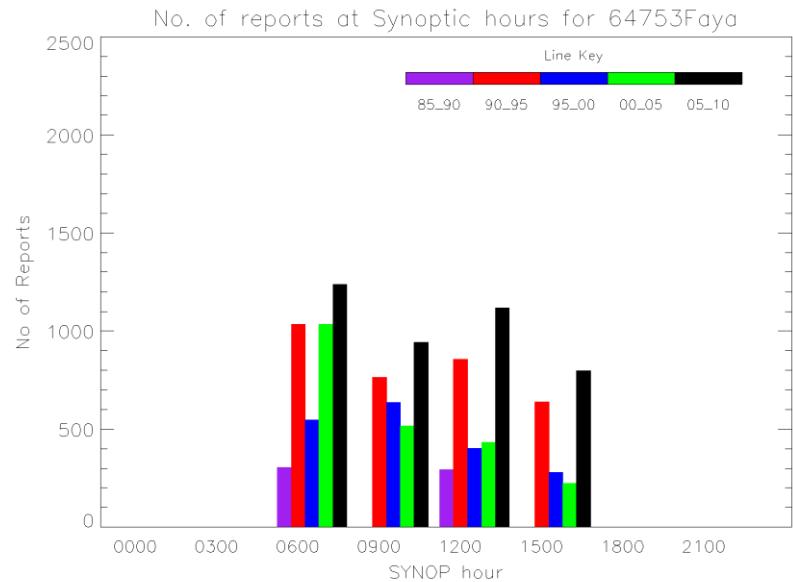
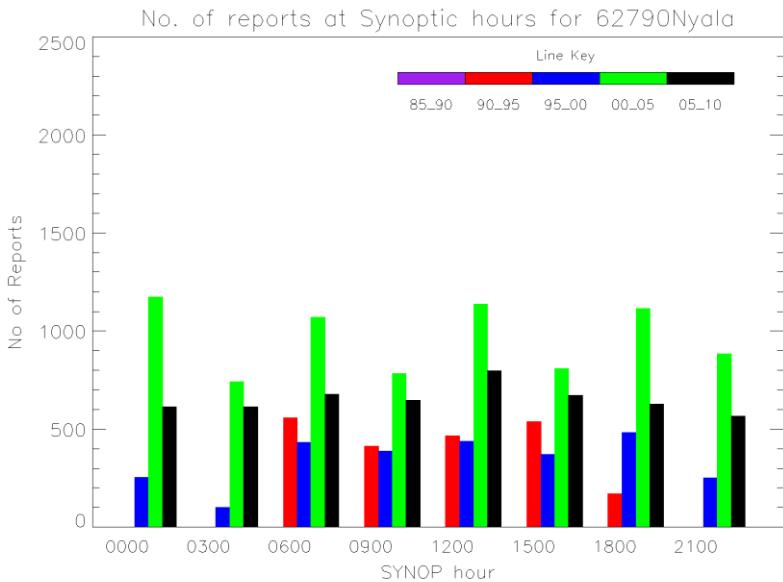
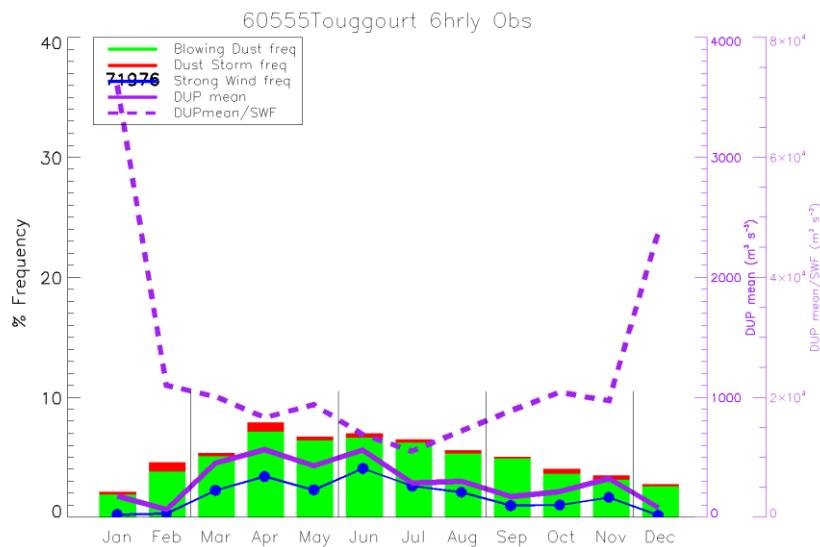
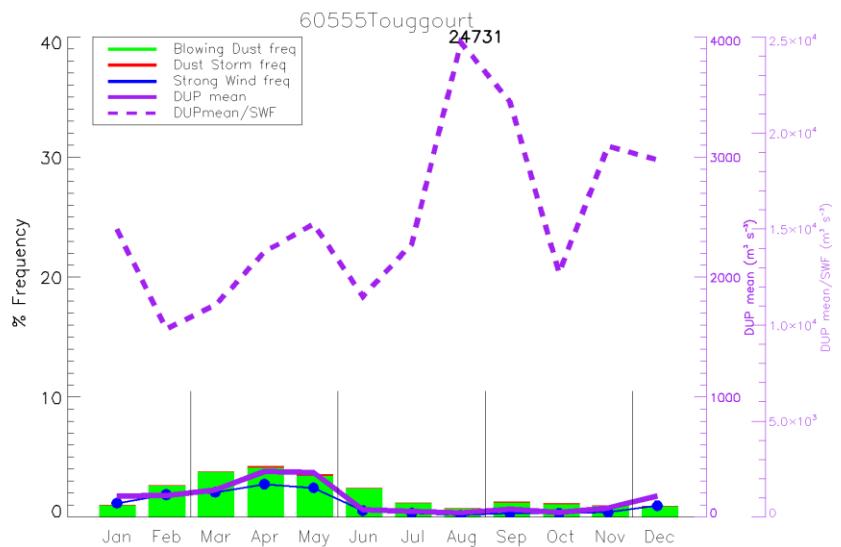
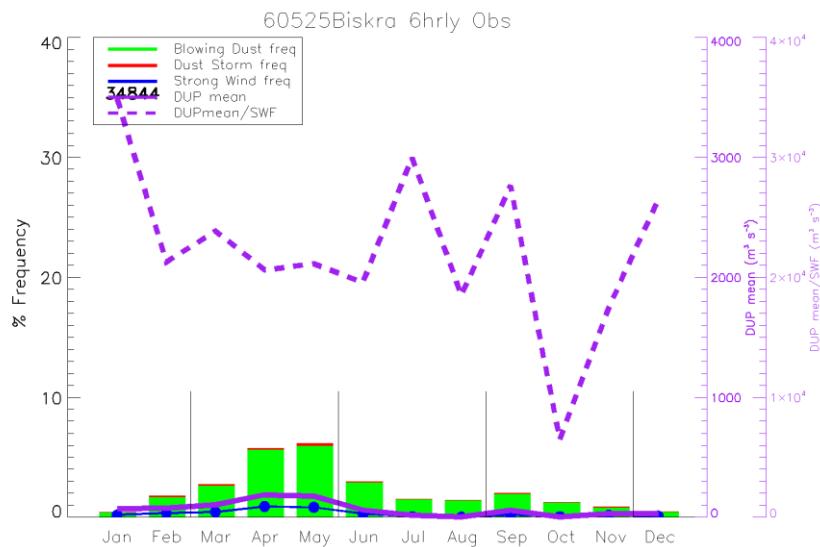
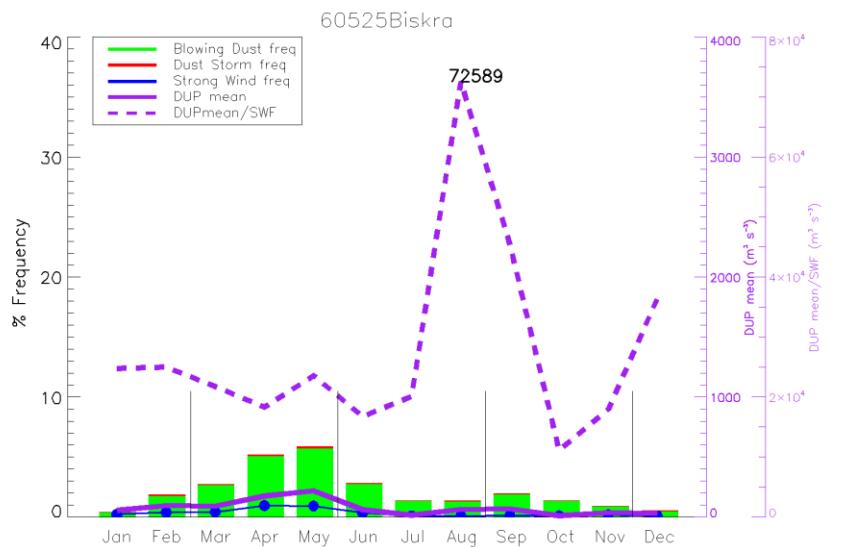
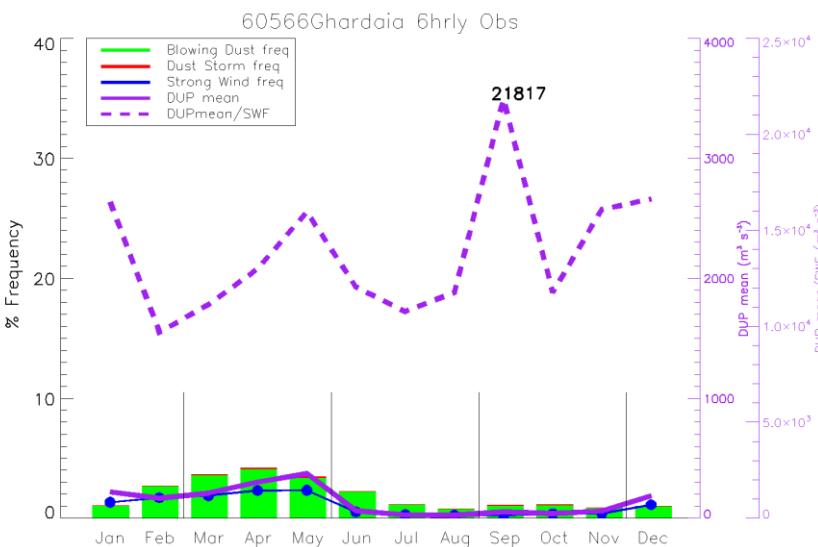
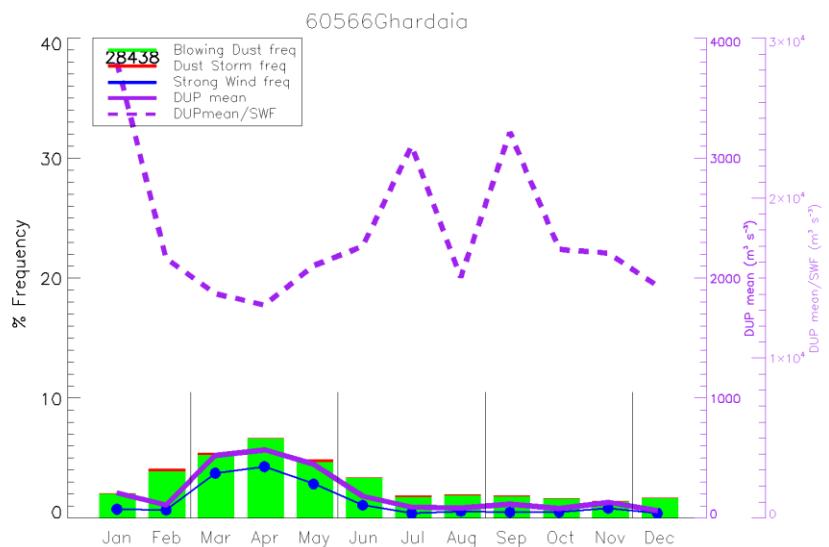
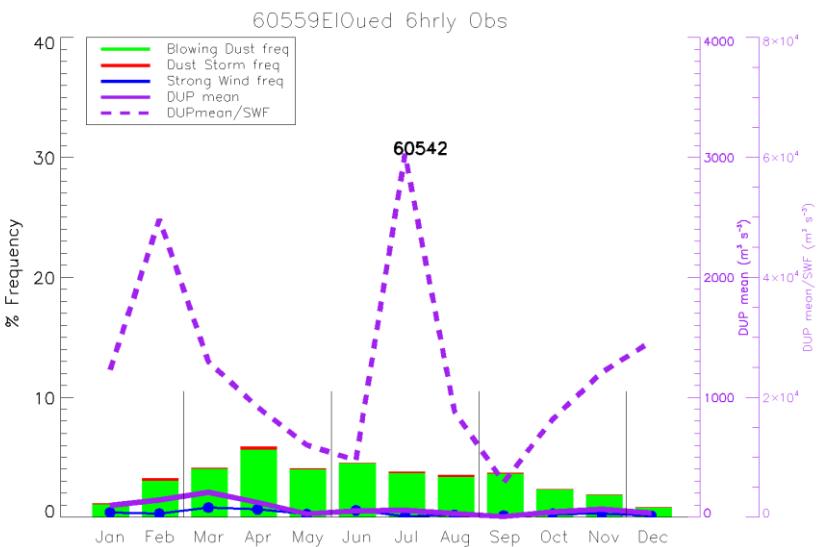
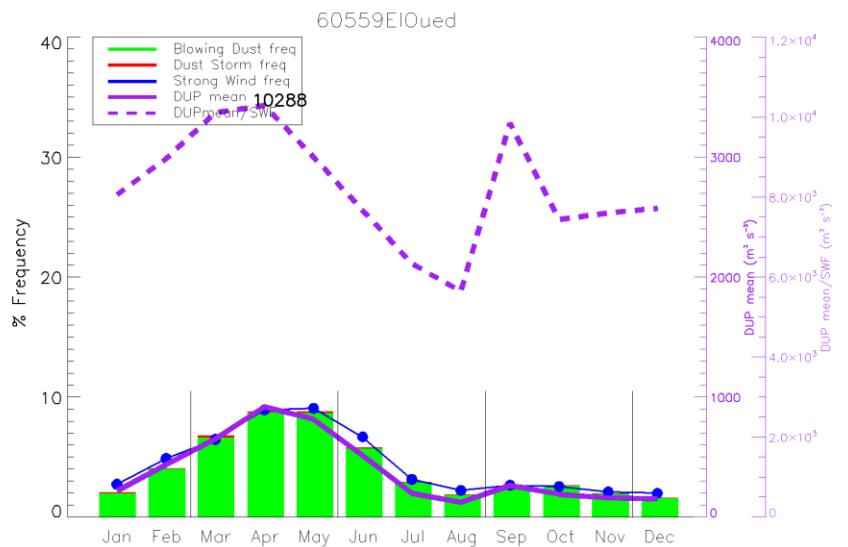
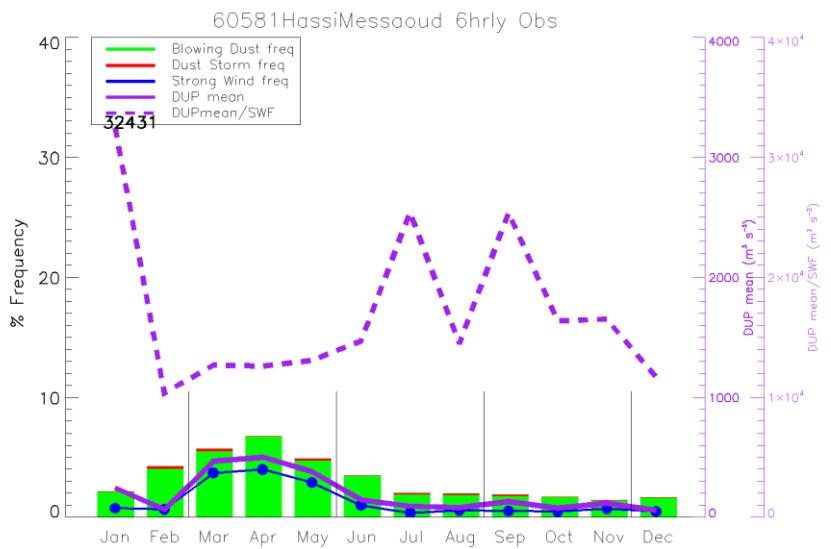
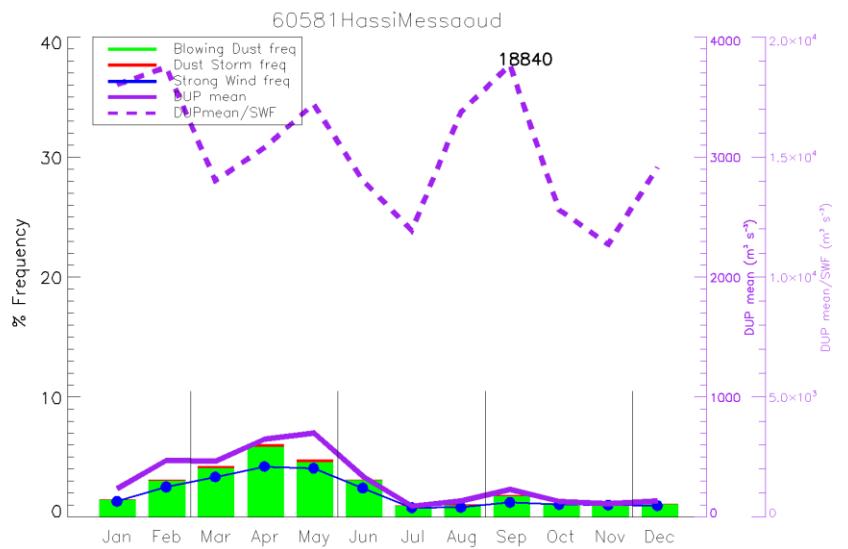
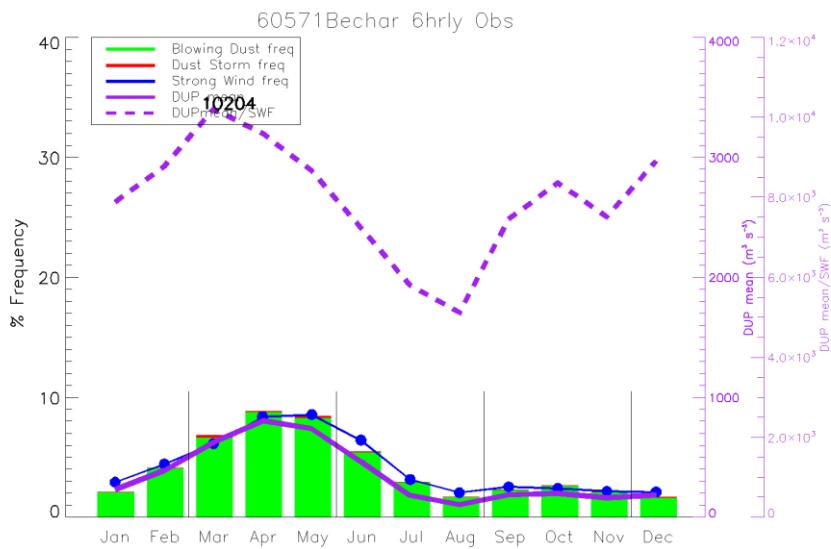
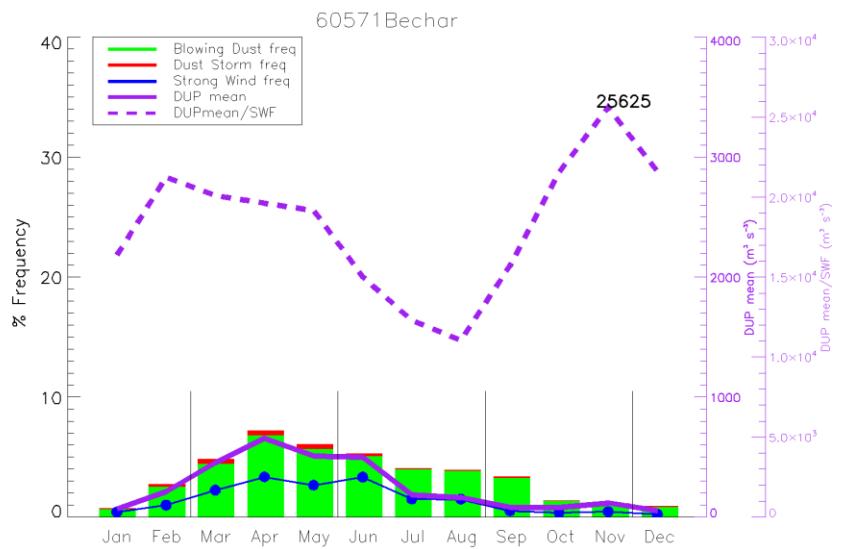
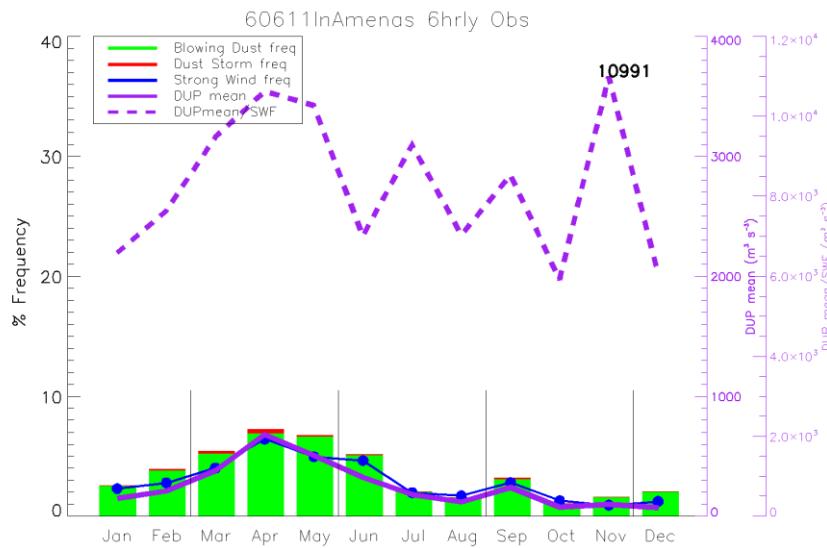
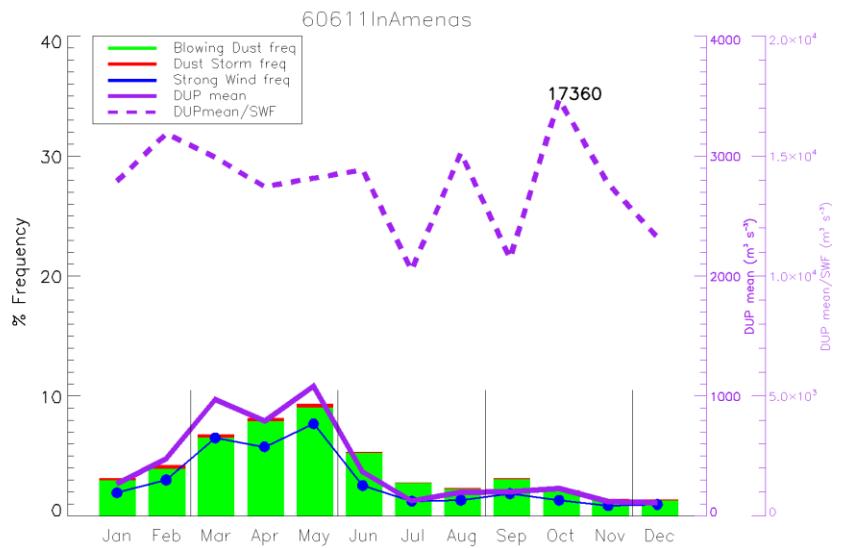
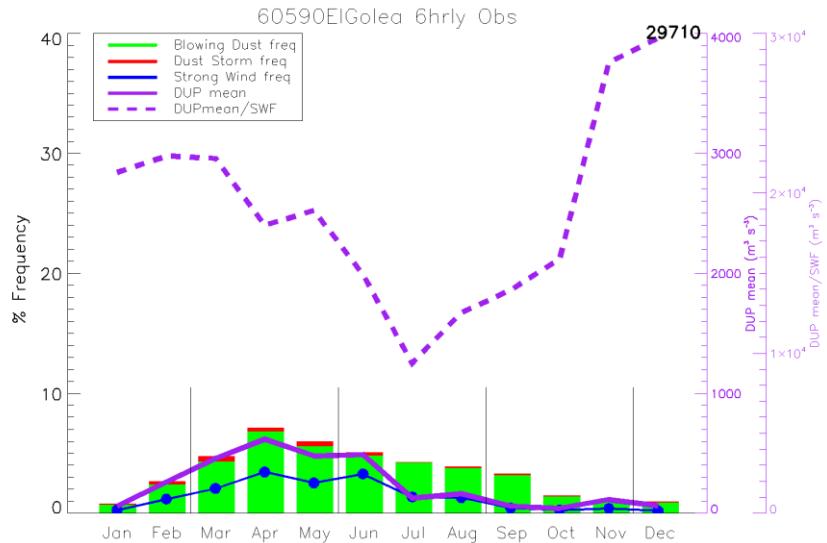
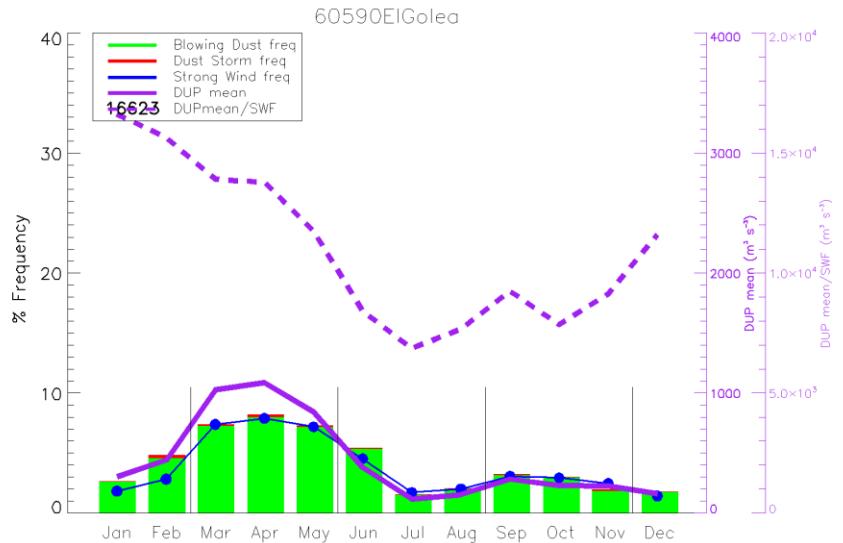


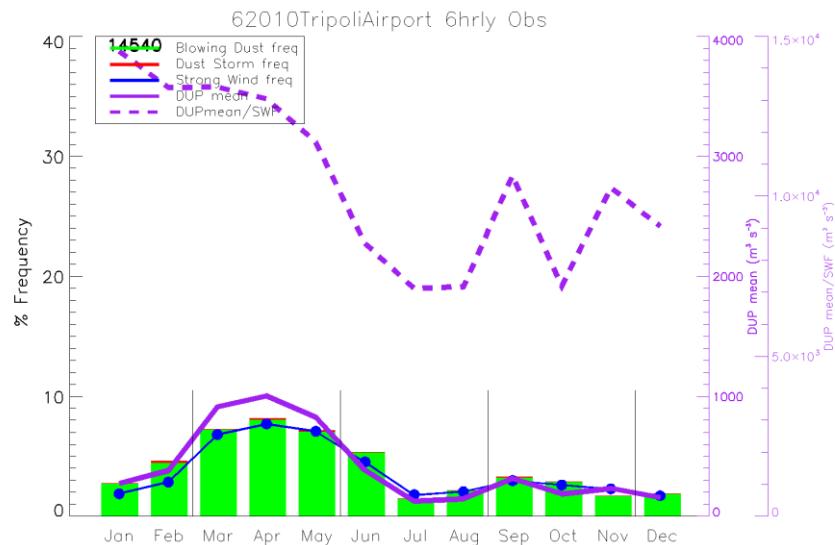
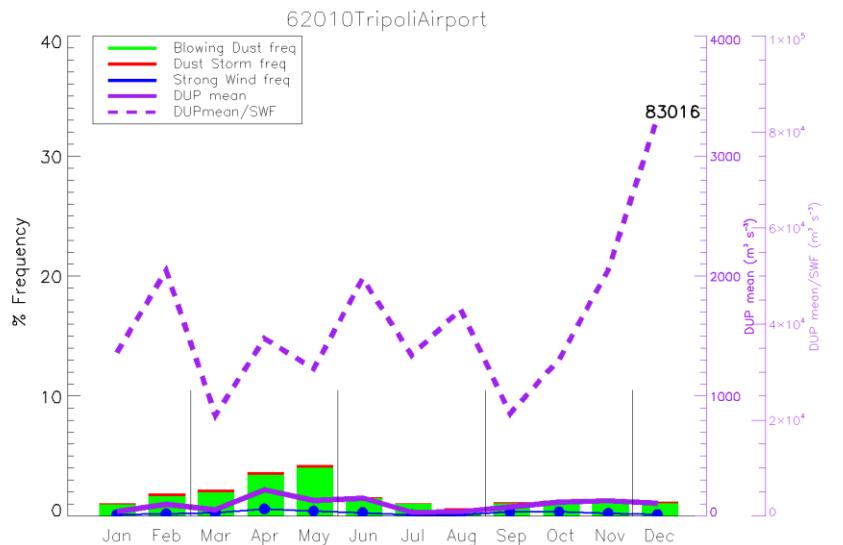
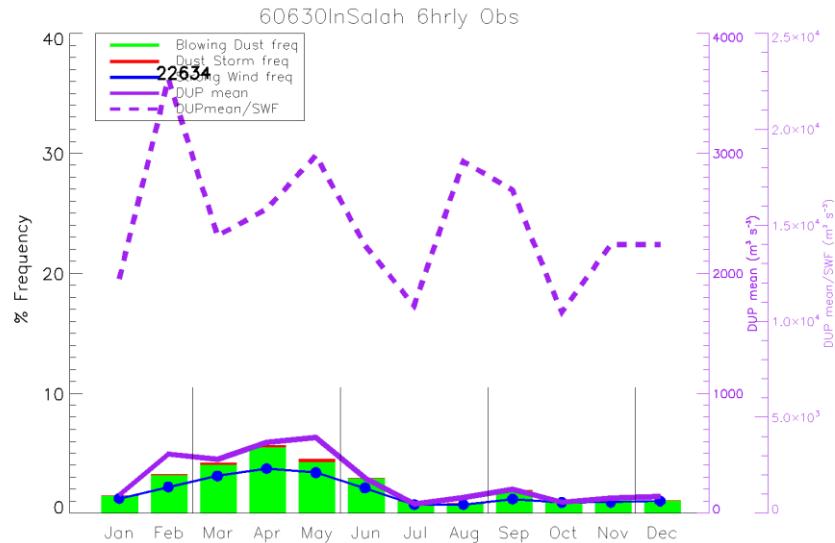
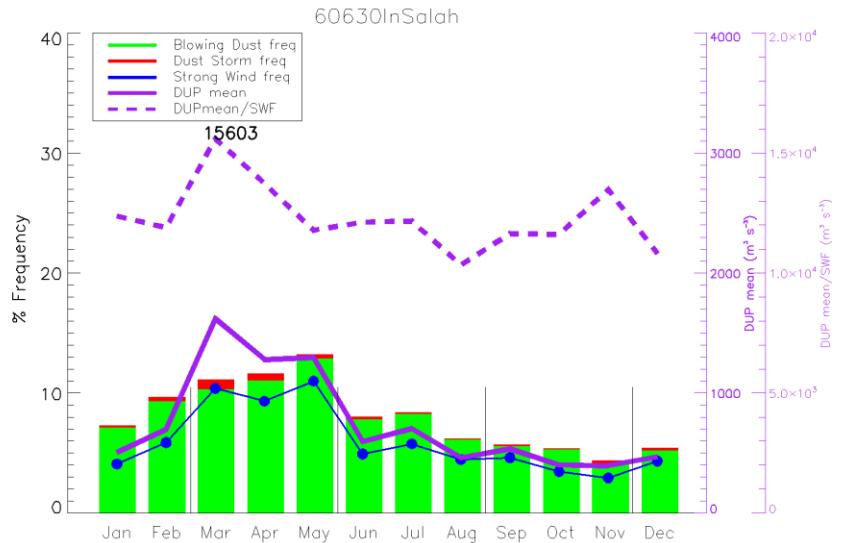
Figure S1. Bar plots of the number of observations at each SYNOP hour, for the periods 1985-1990 (purple), 1990-1995 (red), 1995-2000 (blue), 2000-2005 (green), 2005-2010 (black) for each of the 70 stations.

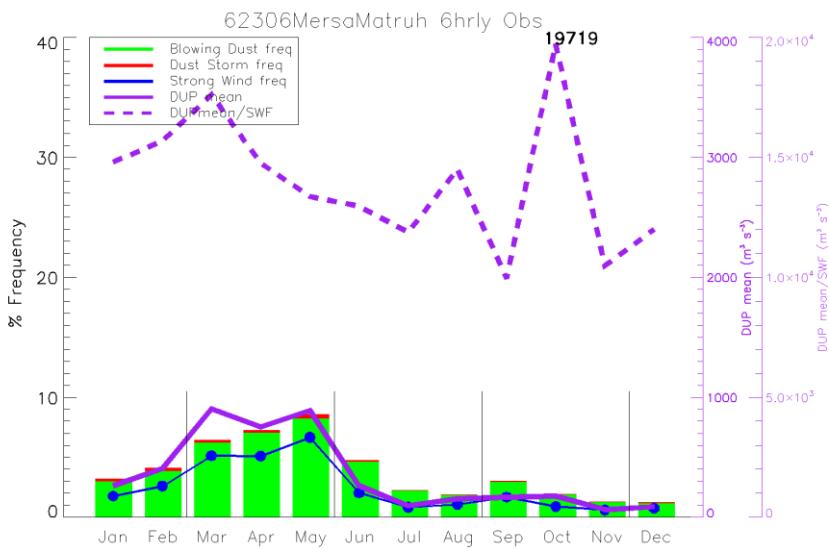
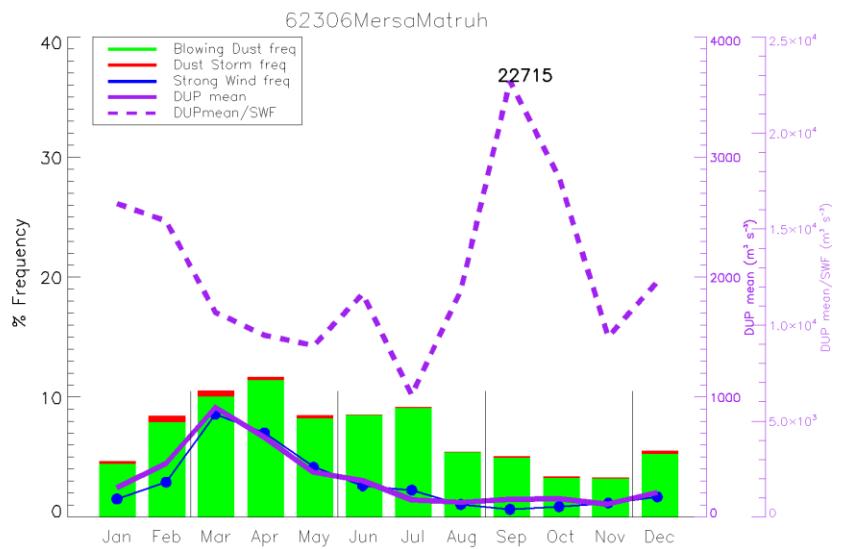
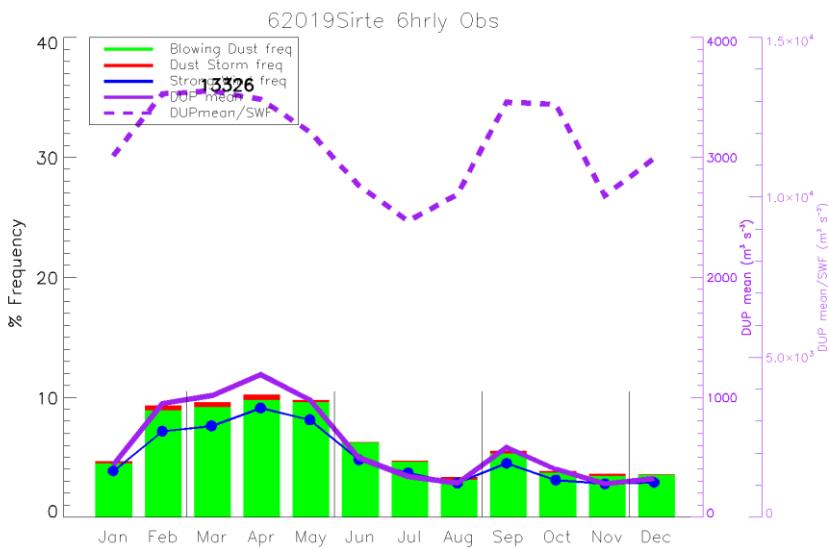
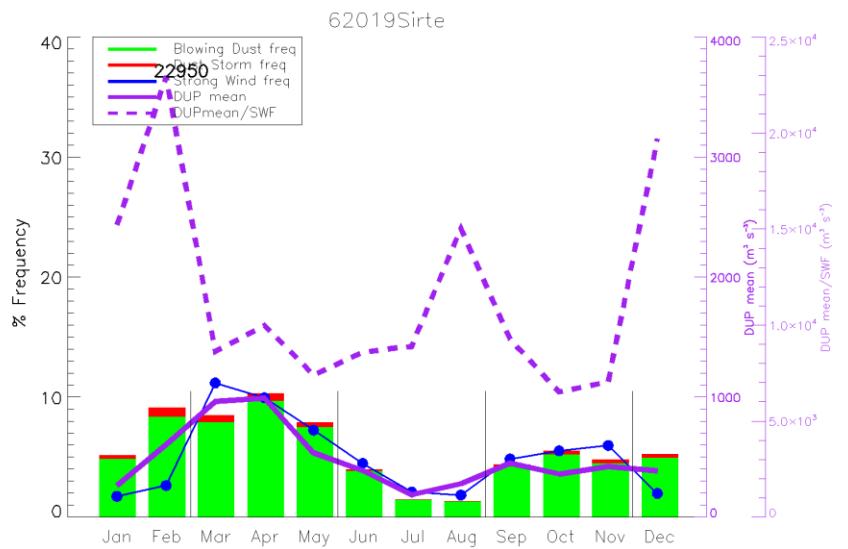


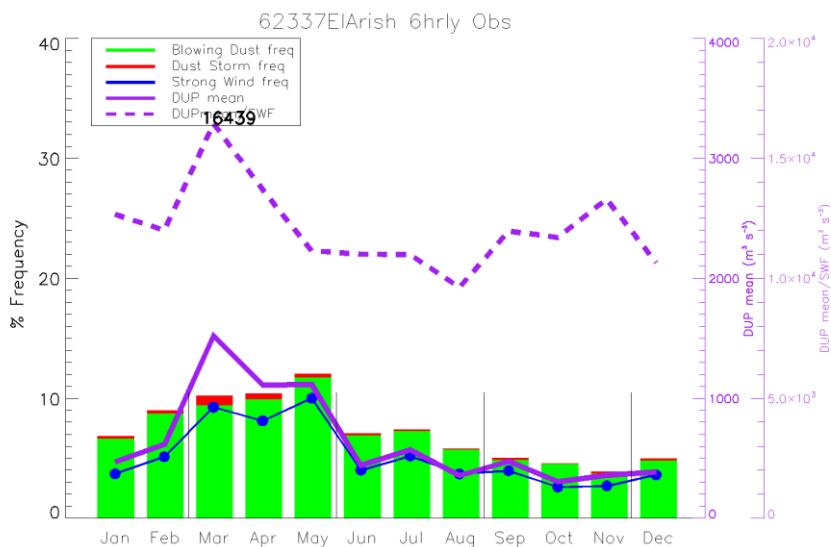
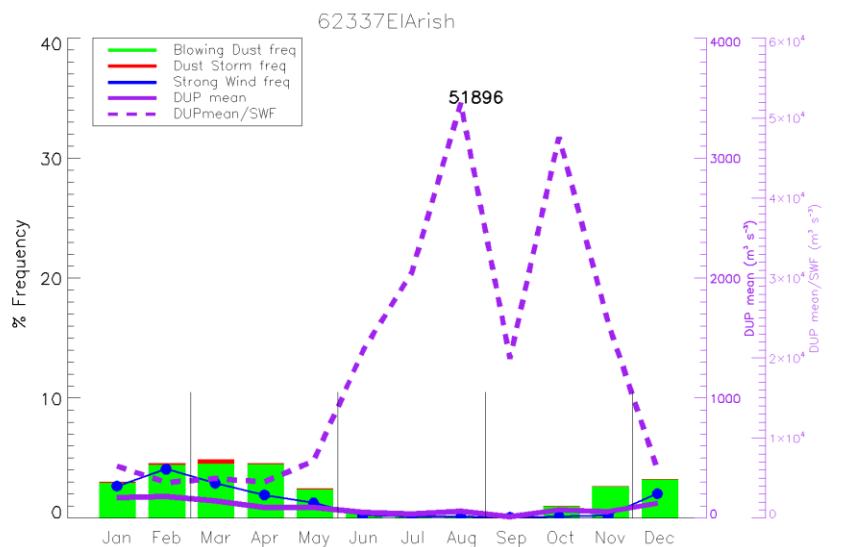
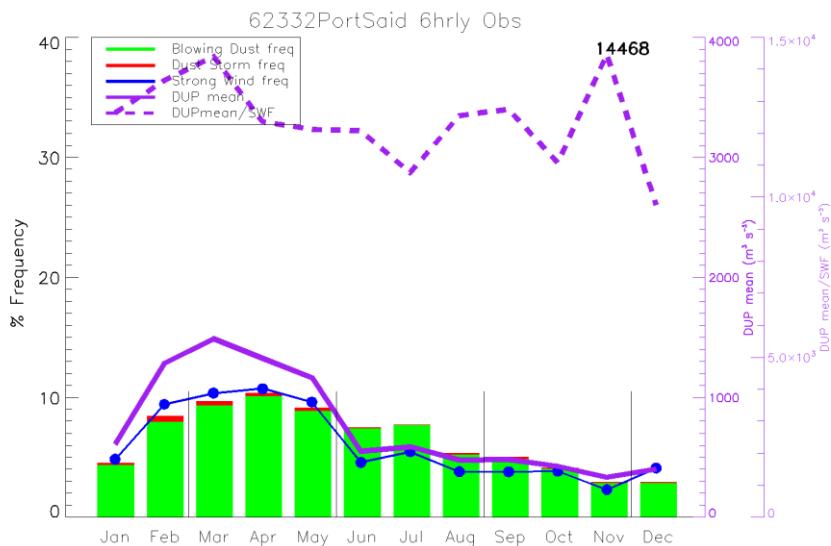
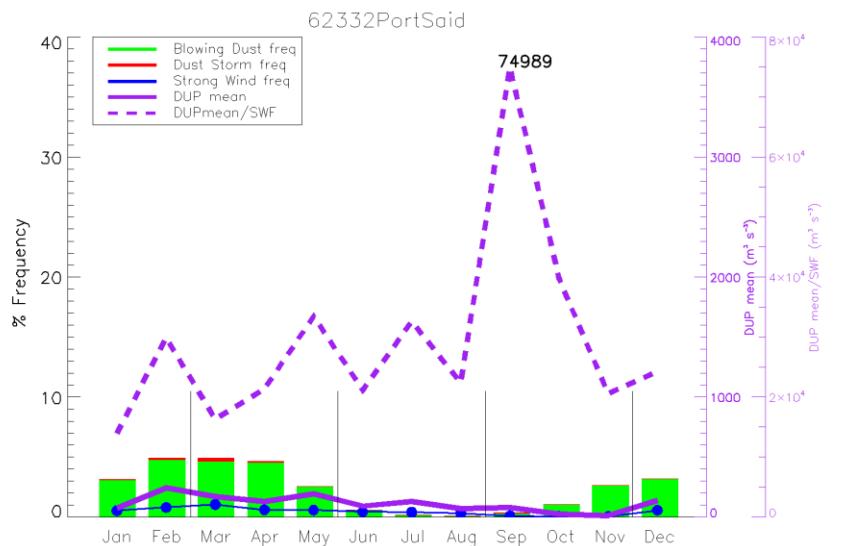


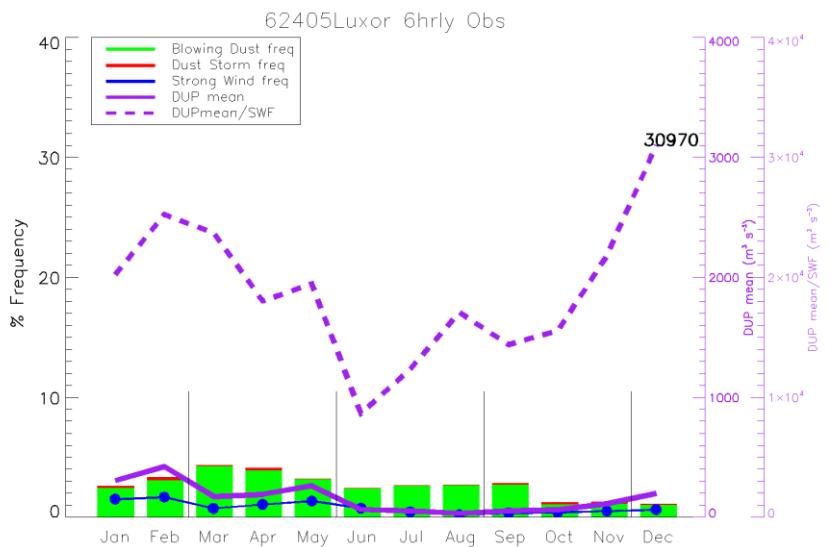
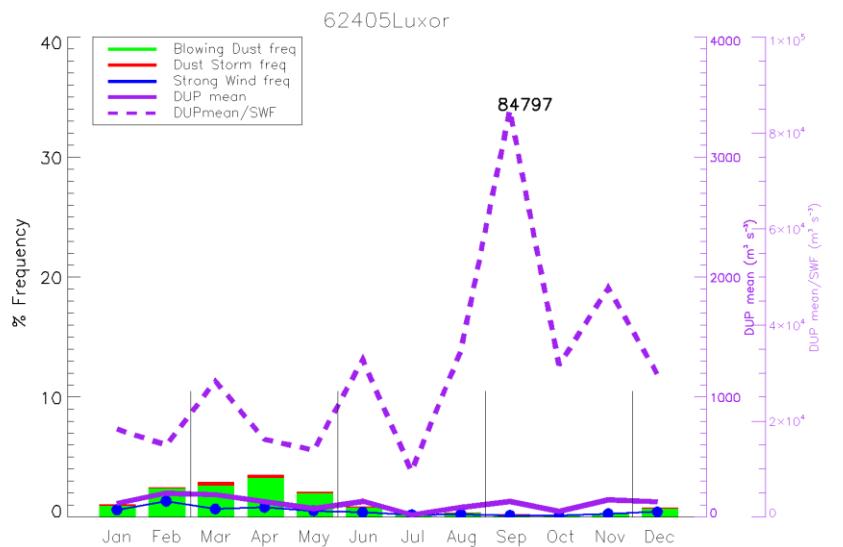
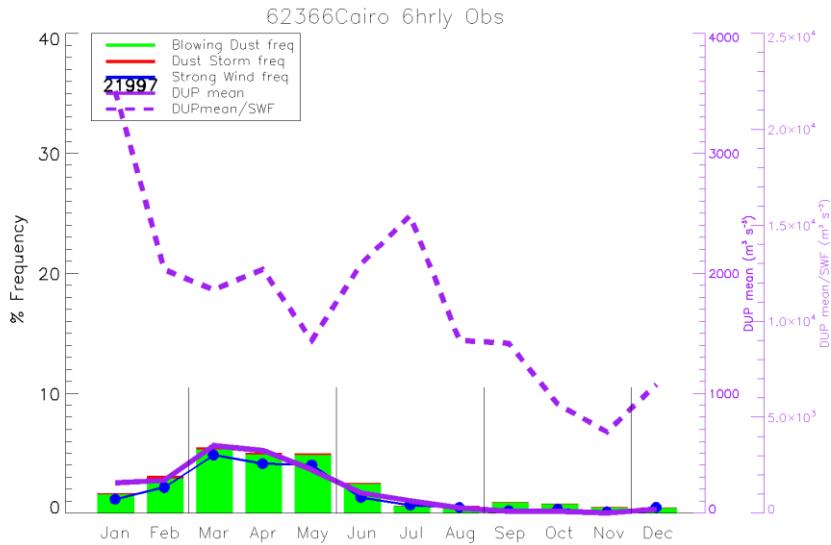
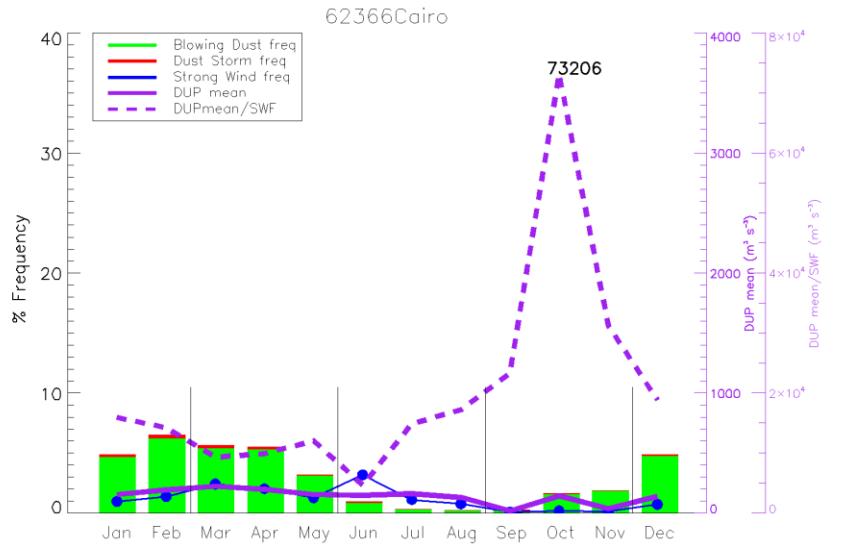












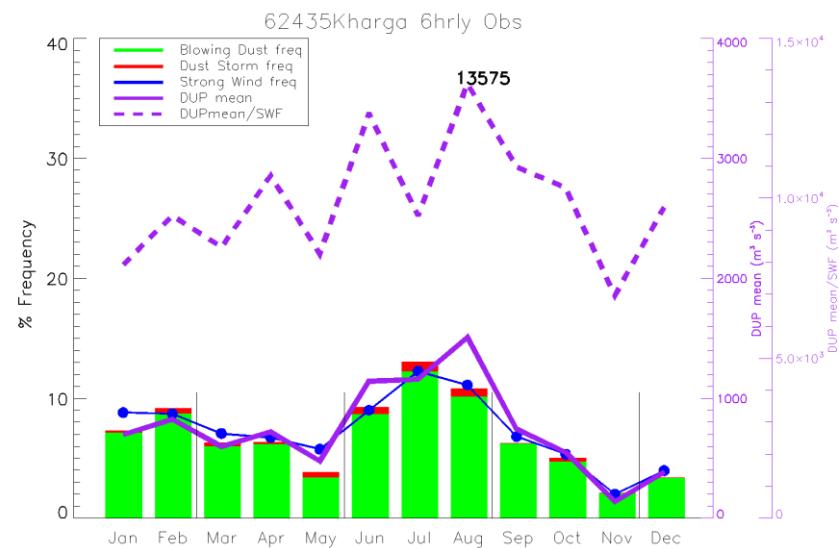
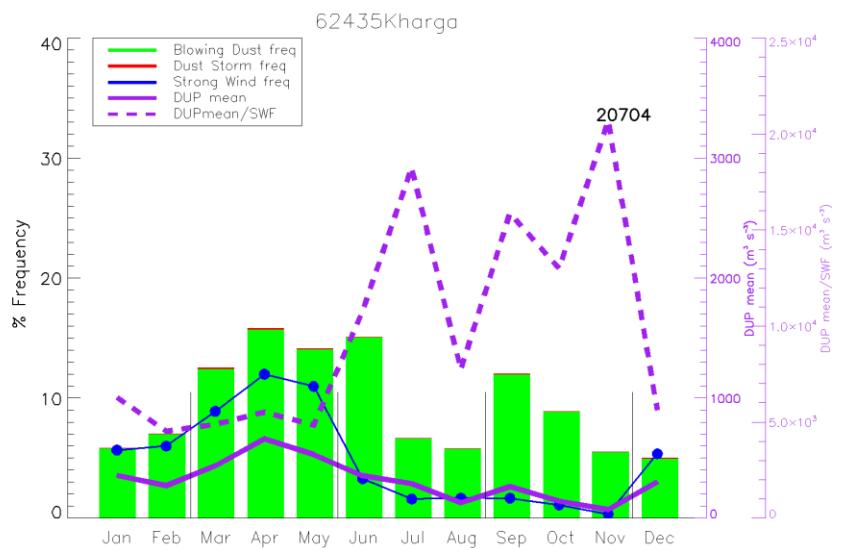
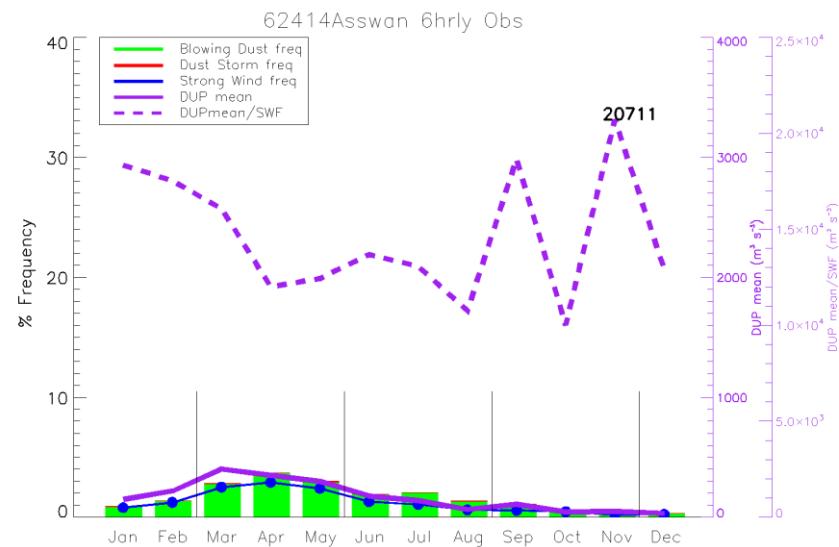
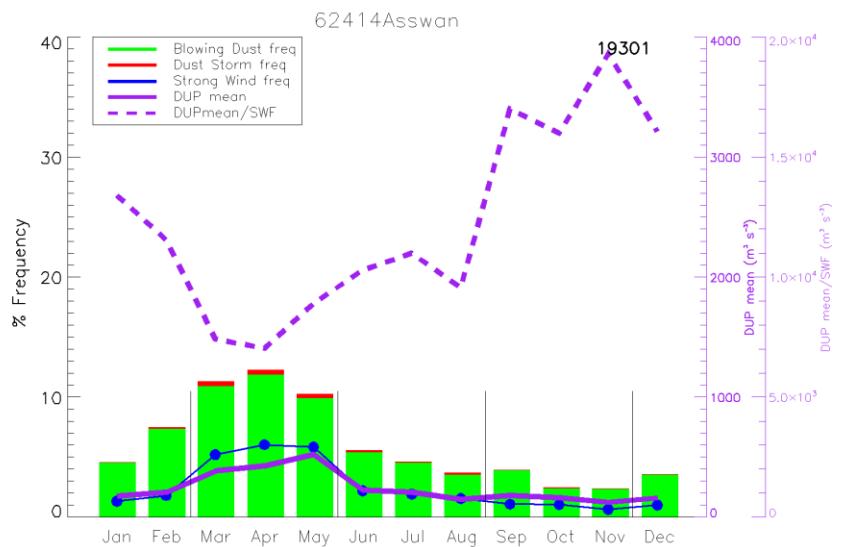
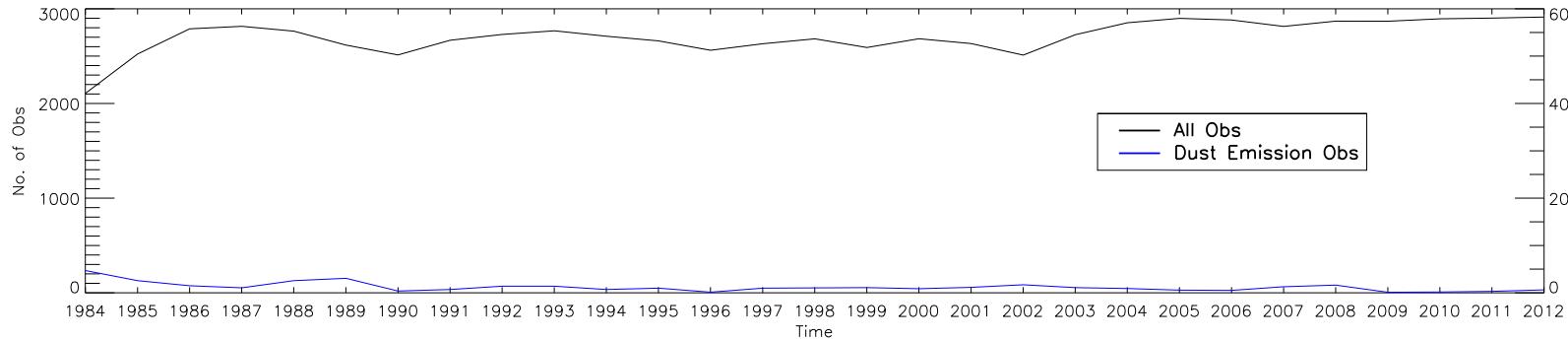
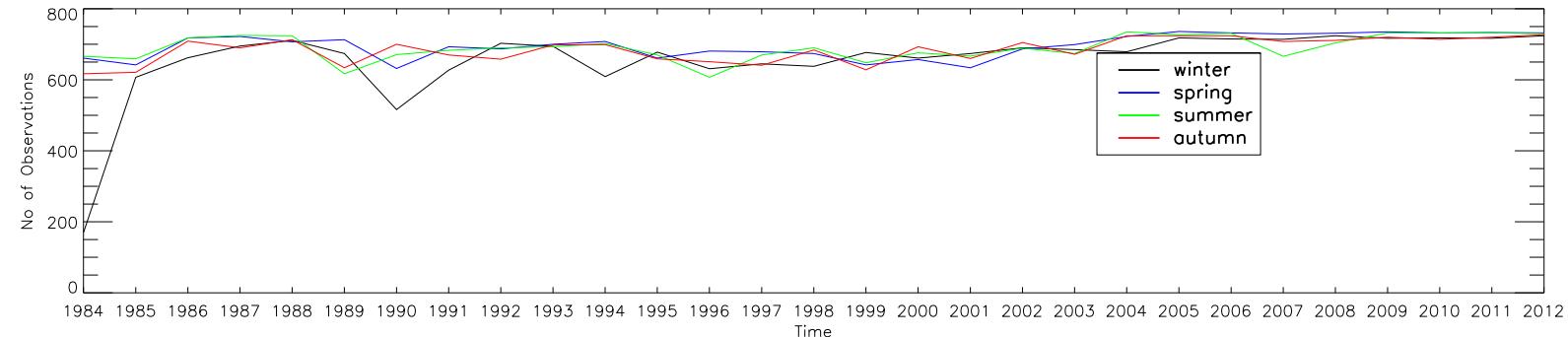


Figure S2. Mean seasonal cycle comparison using six hourly (right plots) and three hourly (left plots) observations for 18 stations which have stable three hourly reporting. Monthly frequency of FDE, split into BDF (green bars) and DSF (red bars), as well as SWF (blue line), DUP mean (solid purple) and DUP Intensity (DUP mean/SWF, dashed purple, maximum values given), all computed using the seasonally varying T50 (for definitions of parameters, see Sect. 2.2.1, main paper). Thin vertical black lines indicate seasonal boundaries where thresholds change. Note the different vertical axes for DUP intensity.

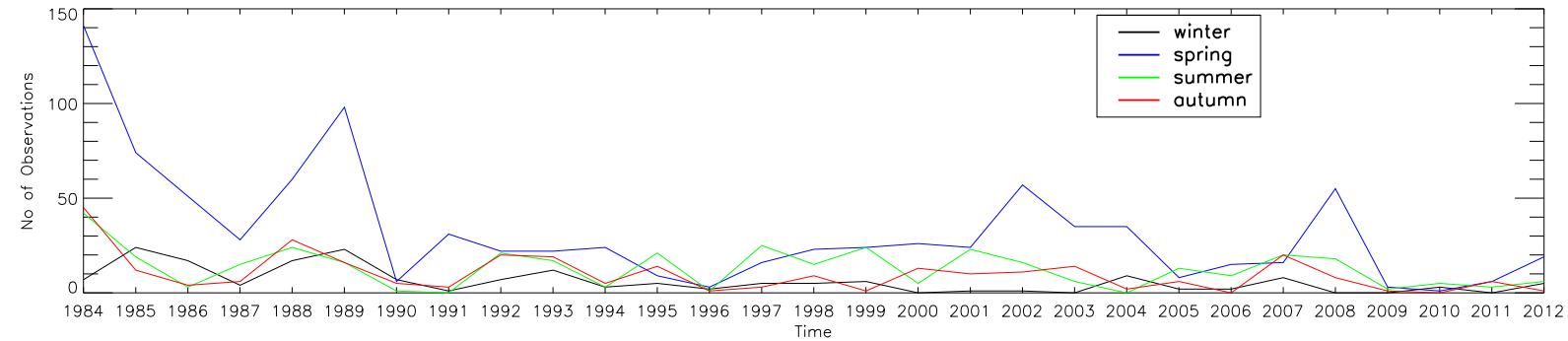
Time Series of All Observations at 60525Biskra



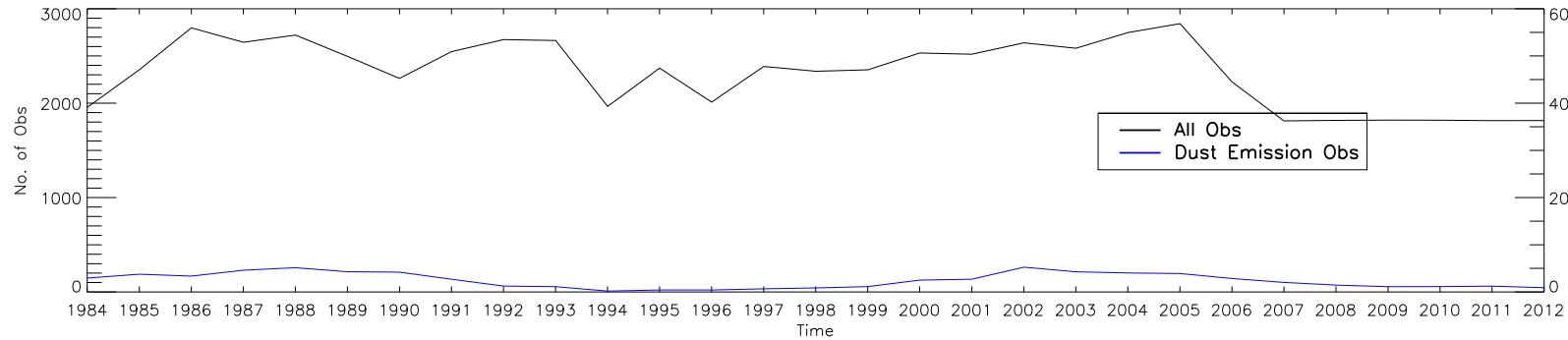
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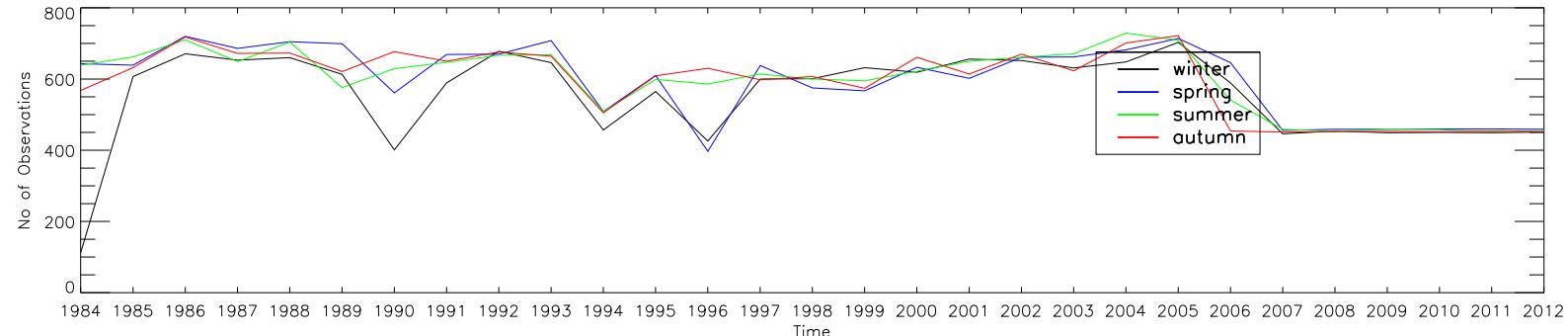
Seasonal Time Series of Dust Observations at 60525Biskra



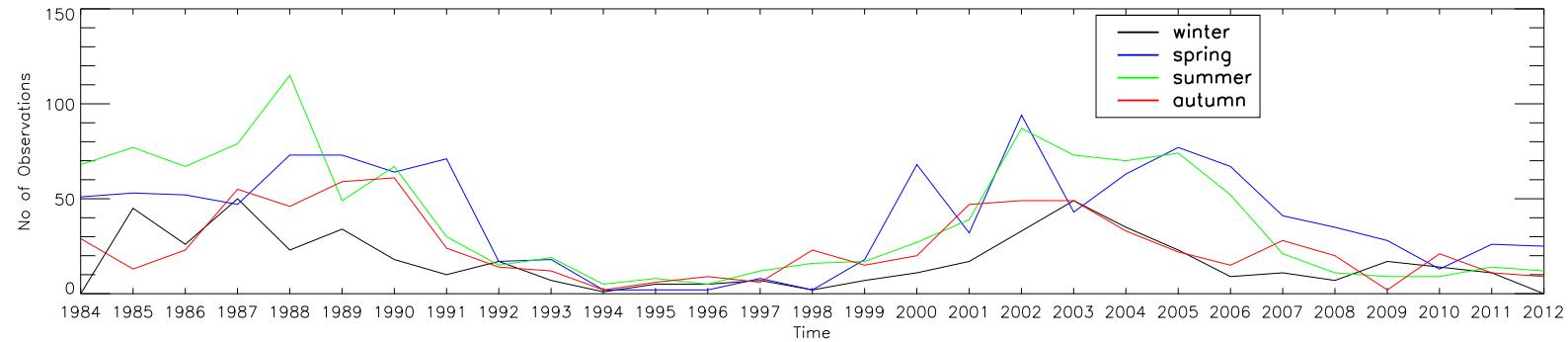
Time Series of All Observations at 60549Mecheria



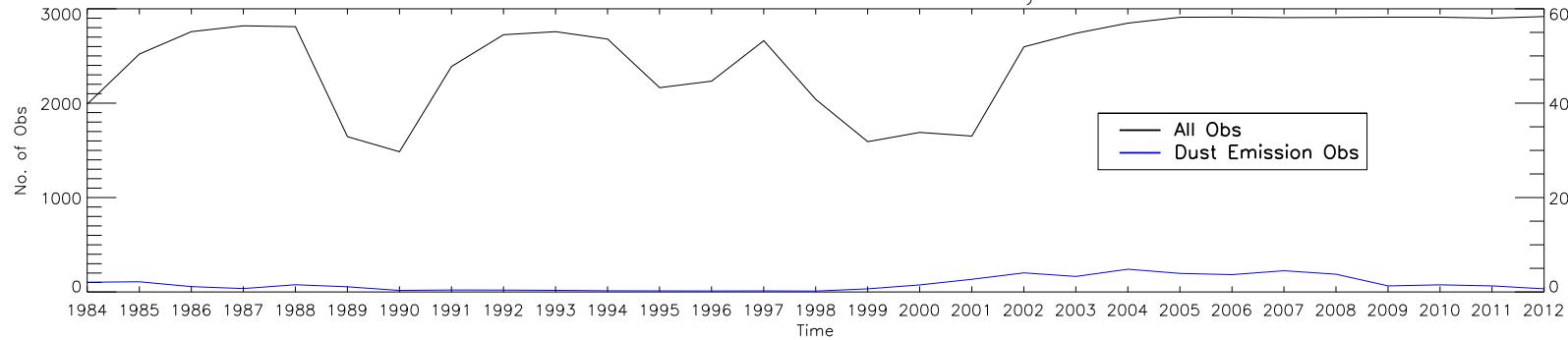
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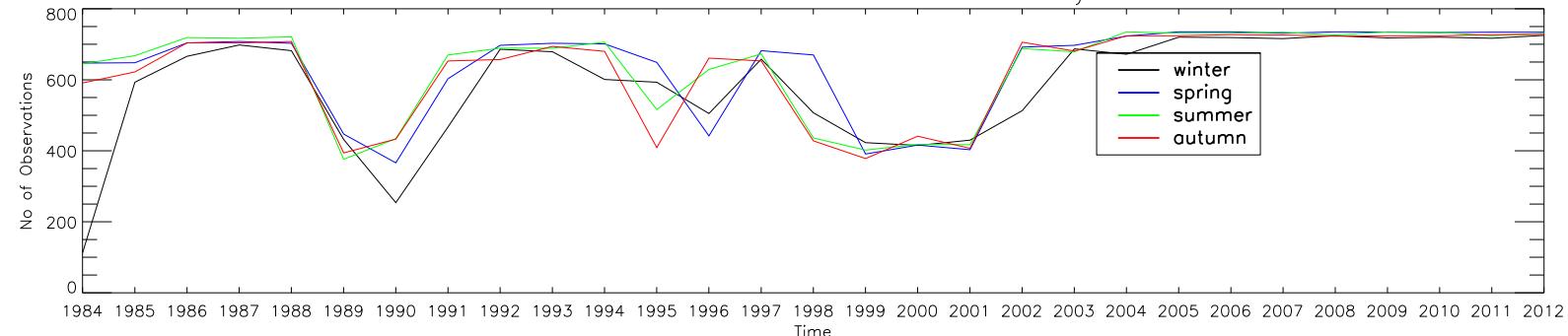
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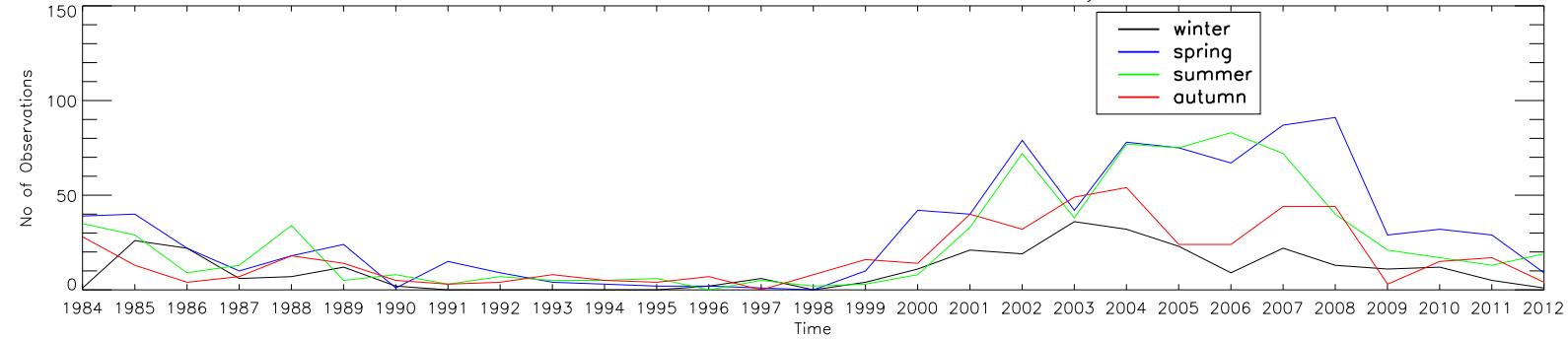
Time Series of All Observations at 60550Elbayadh



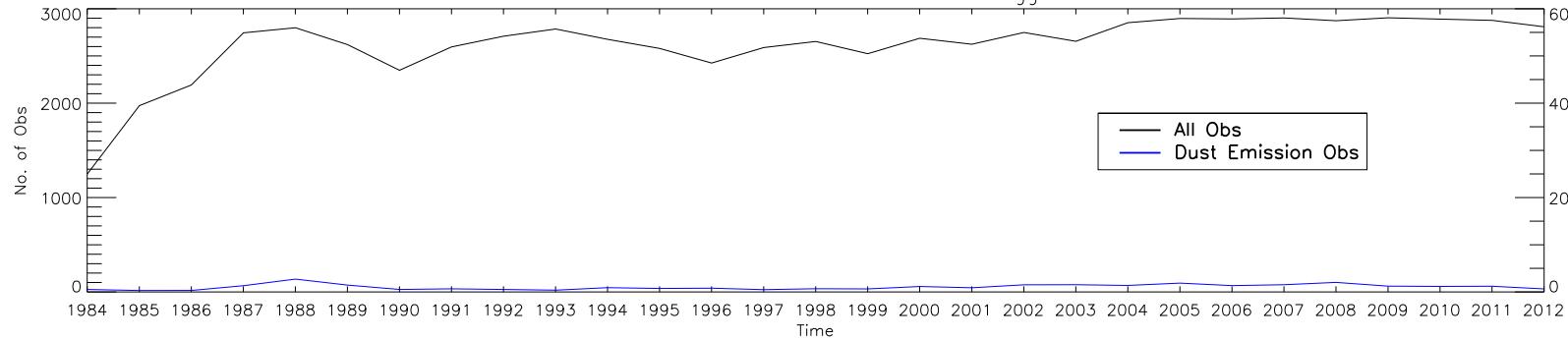
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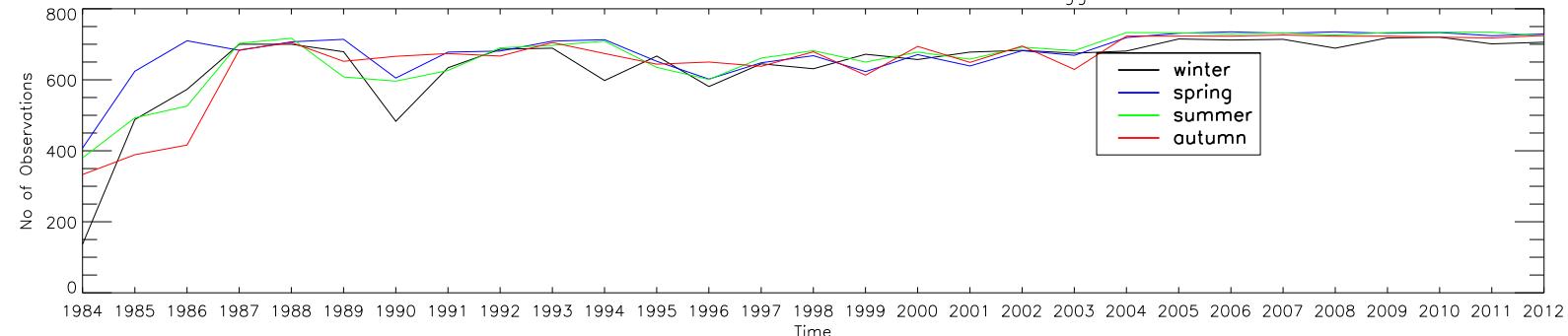
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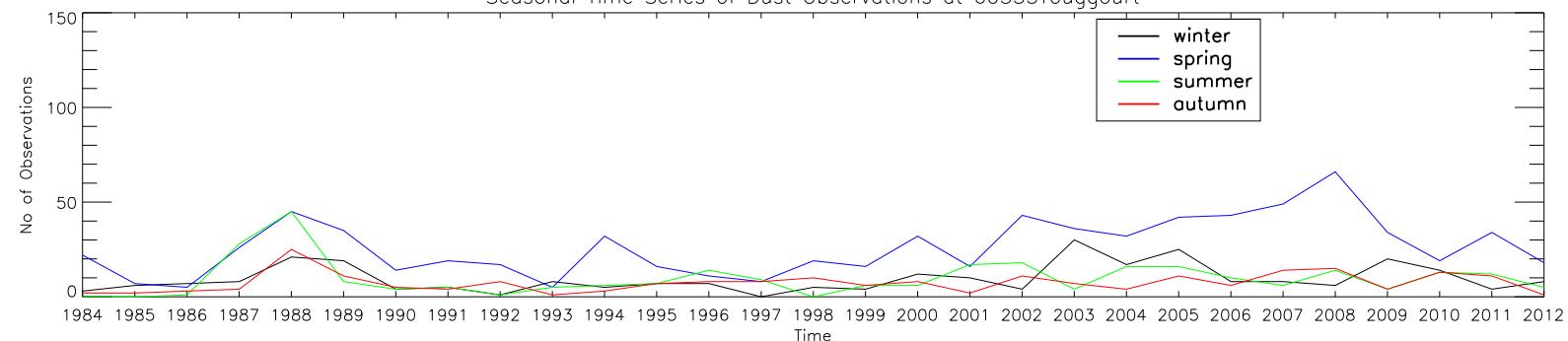
Time Series of All Observations at 60555Touggourt



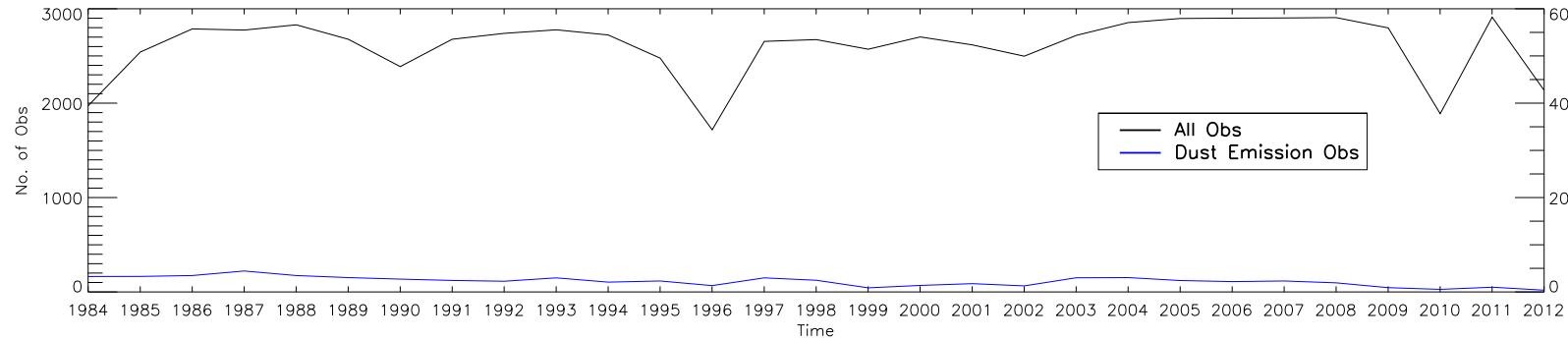
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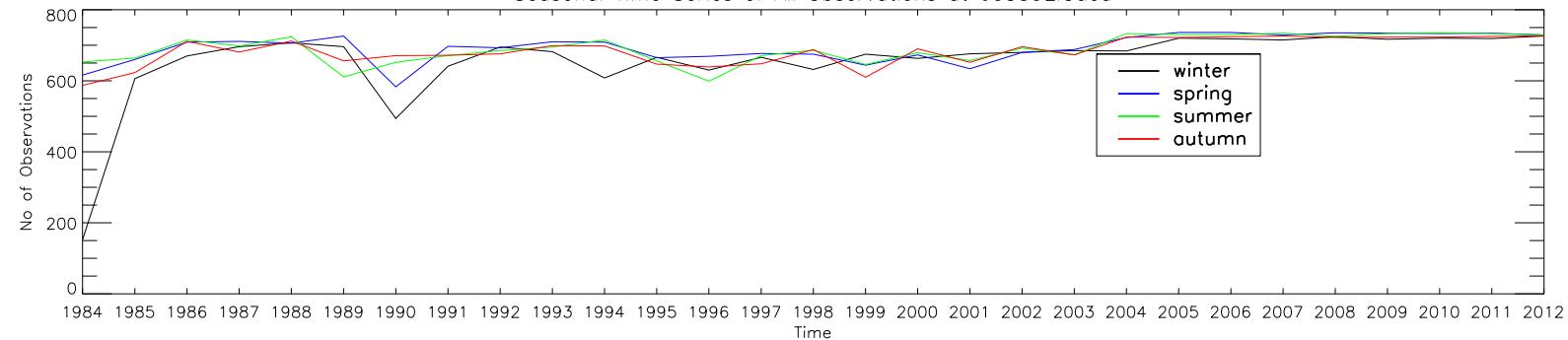
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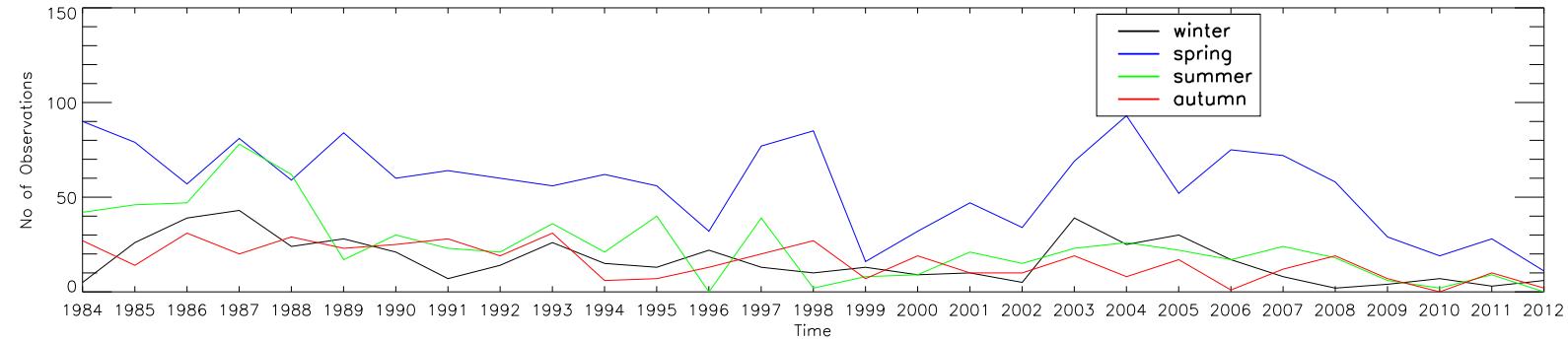
Time Series of All Observations at 60559ElOued



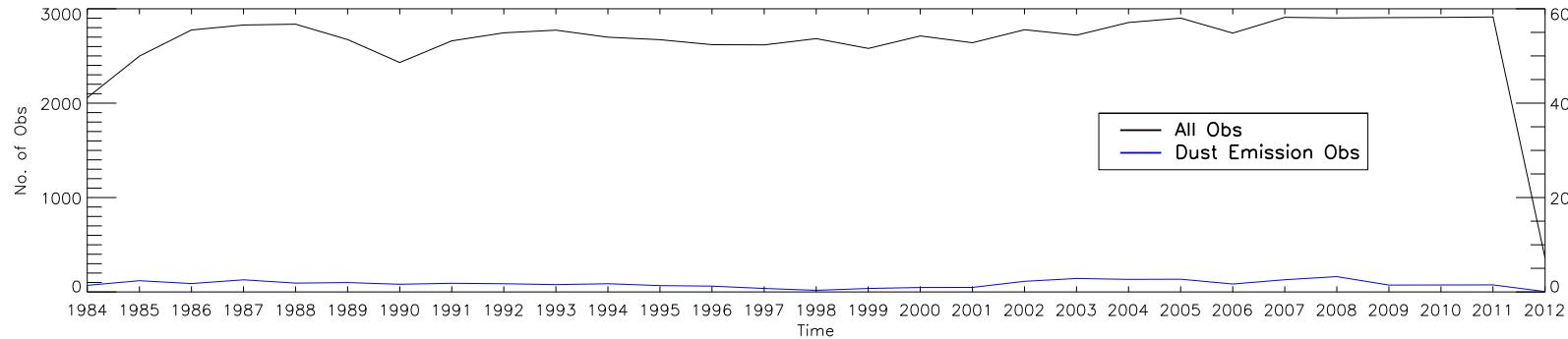
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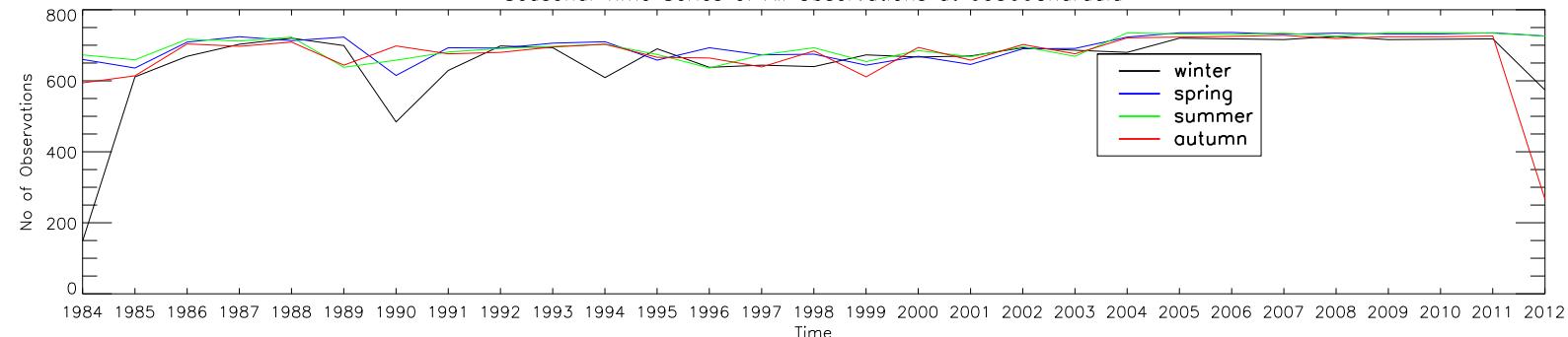
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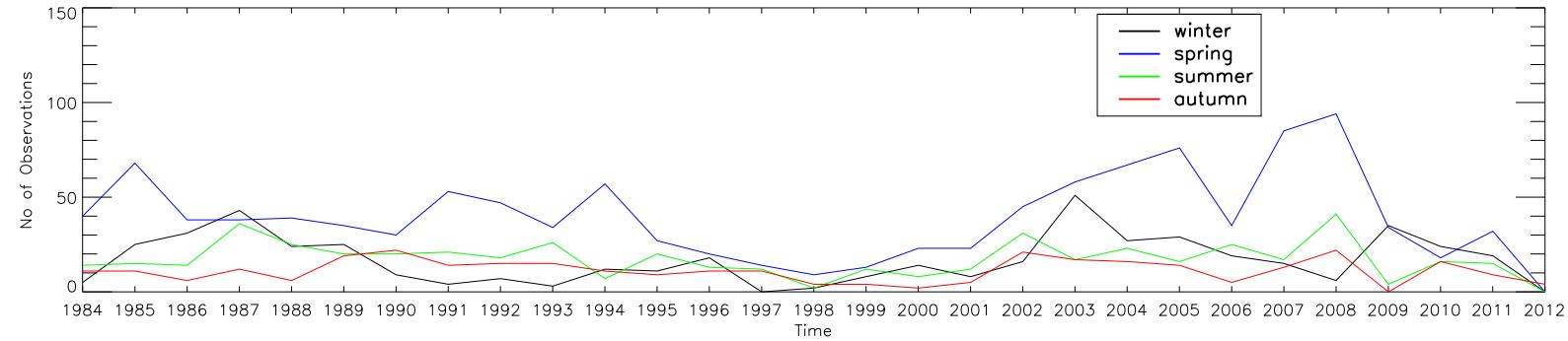
Time Series of All Observations at 60566Ghardaia



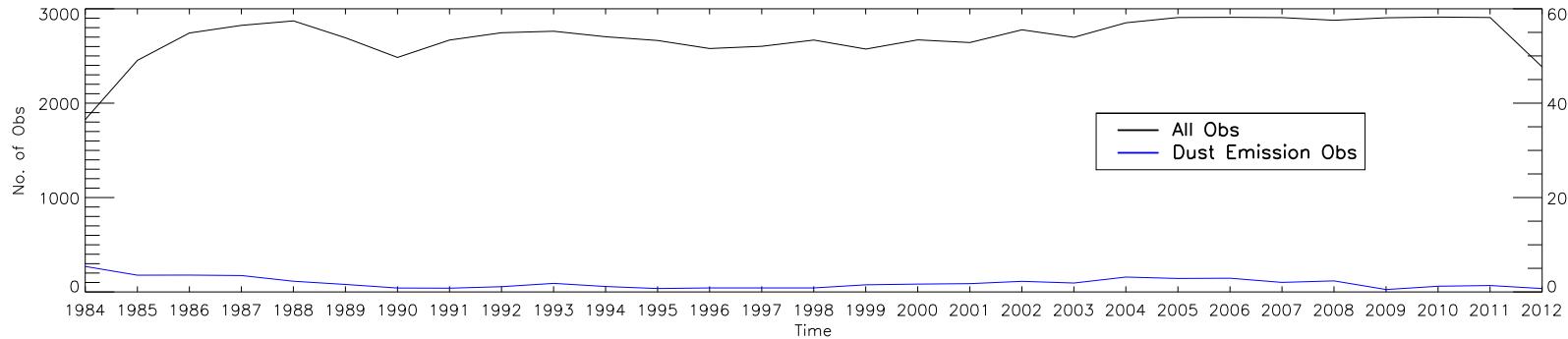
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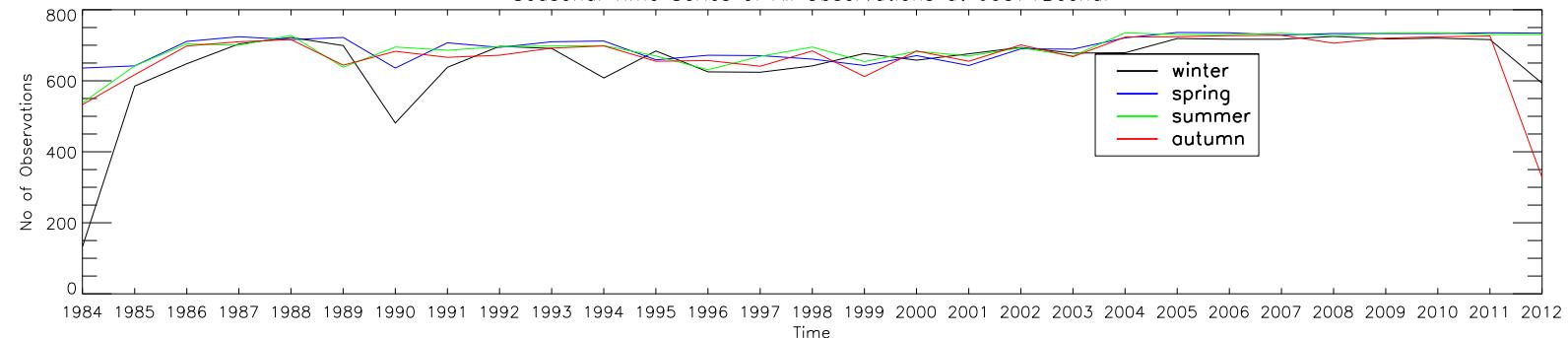
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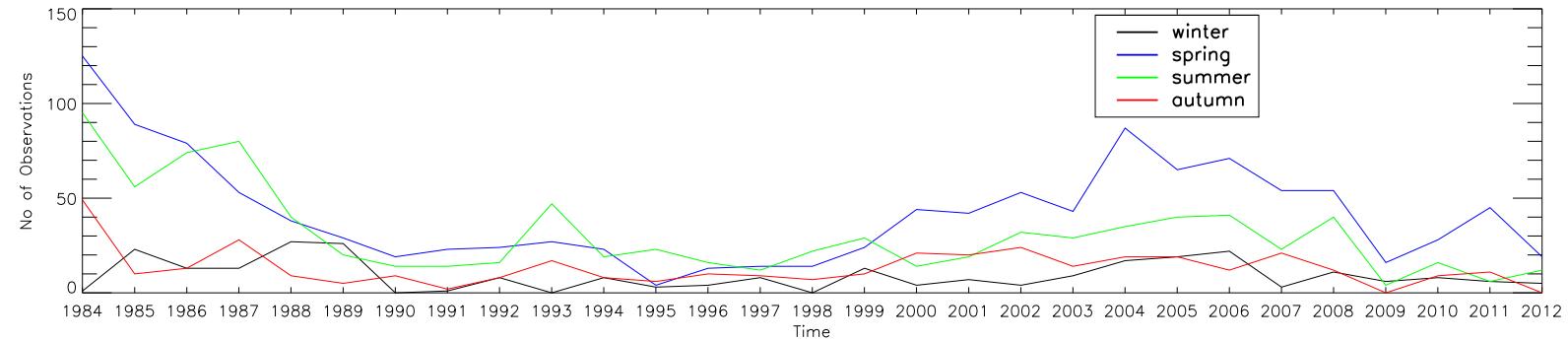
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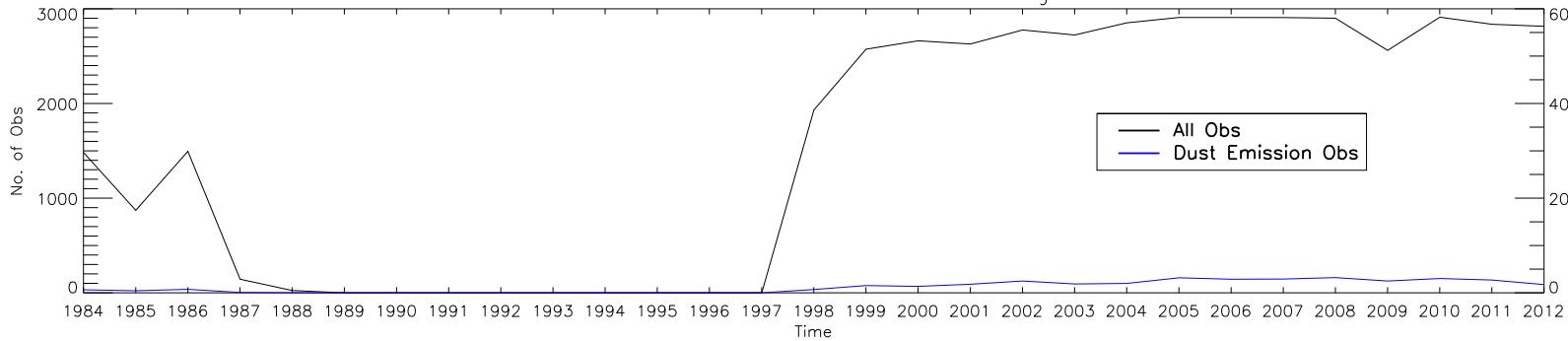
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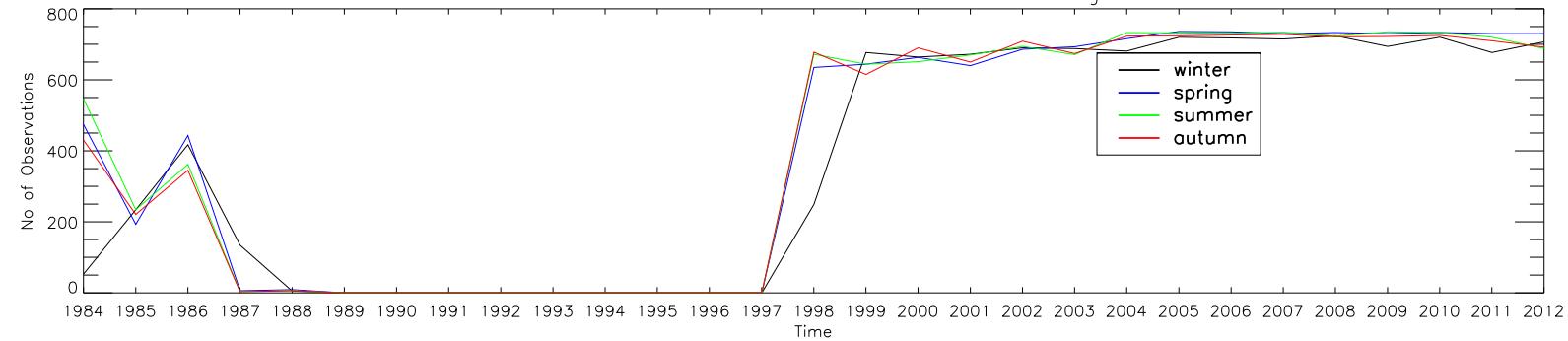
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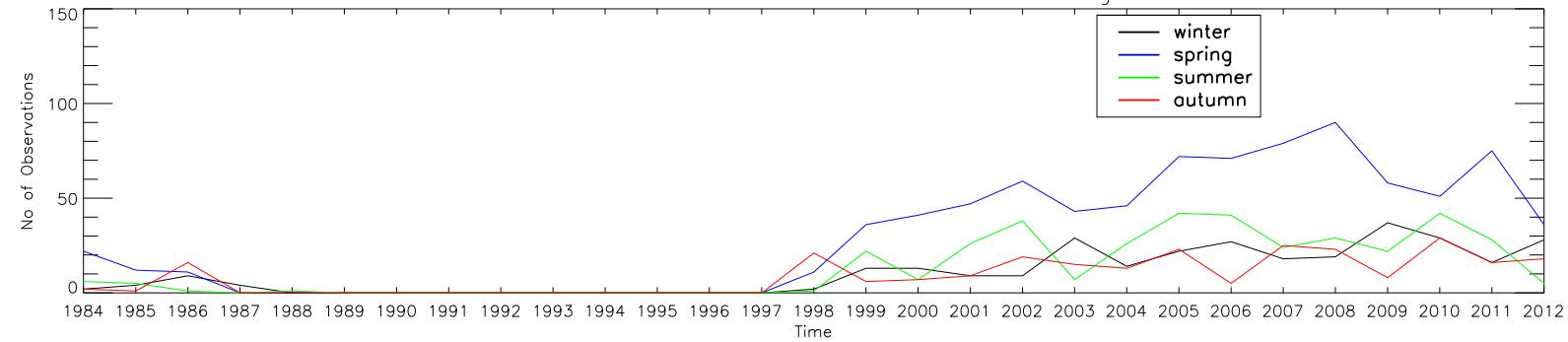
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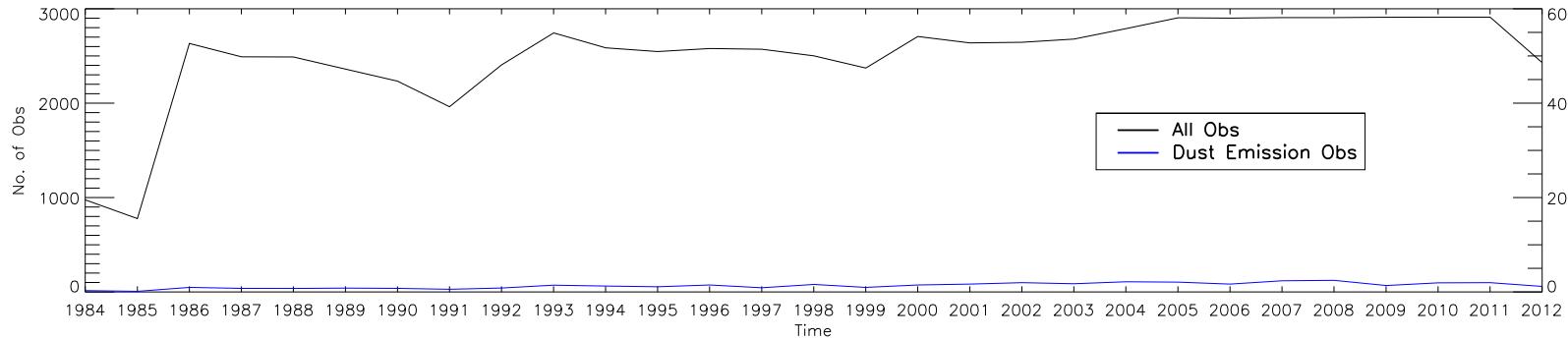
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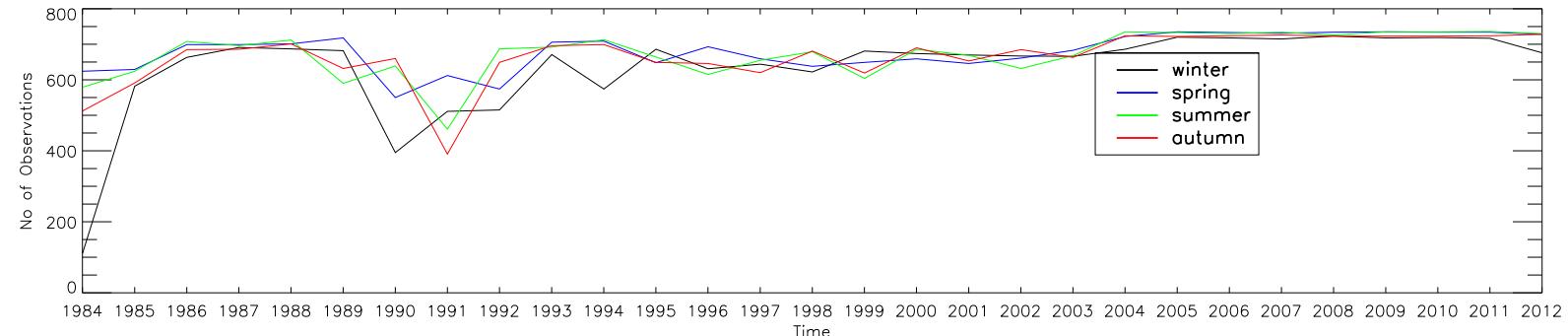
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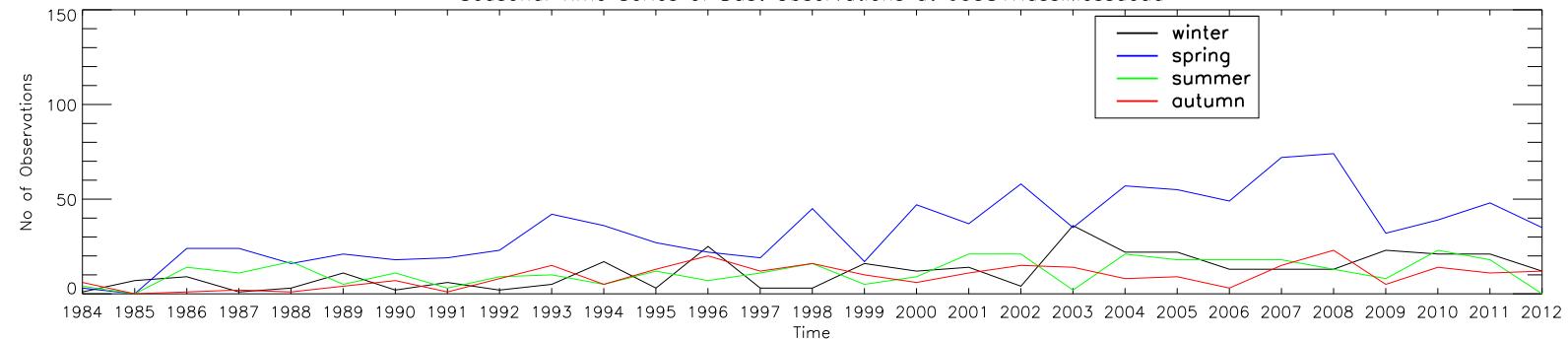
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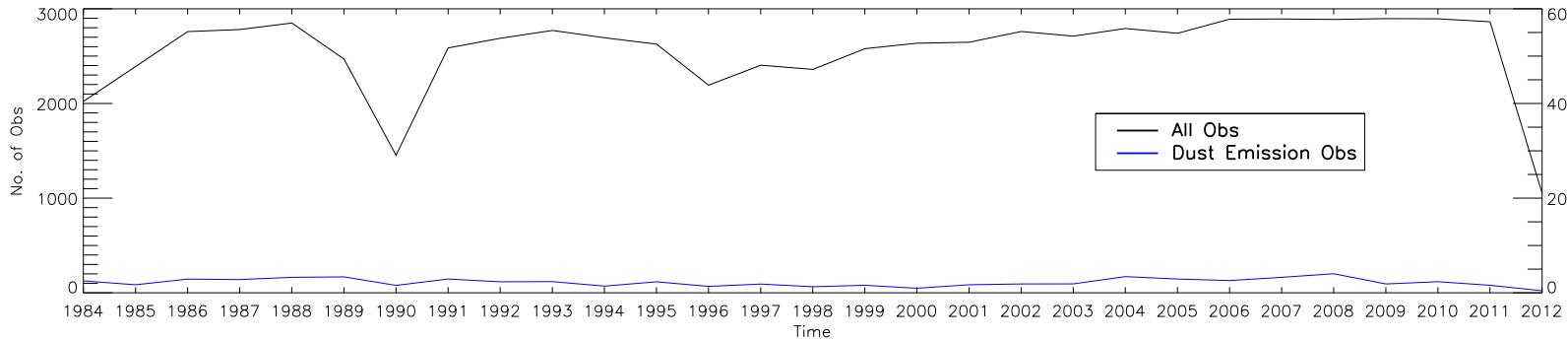
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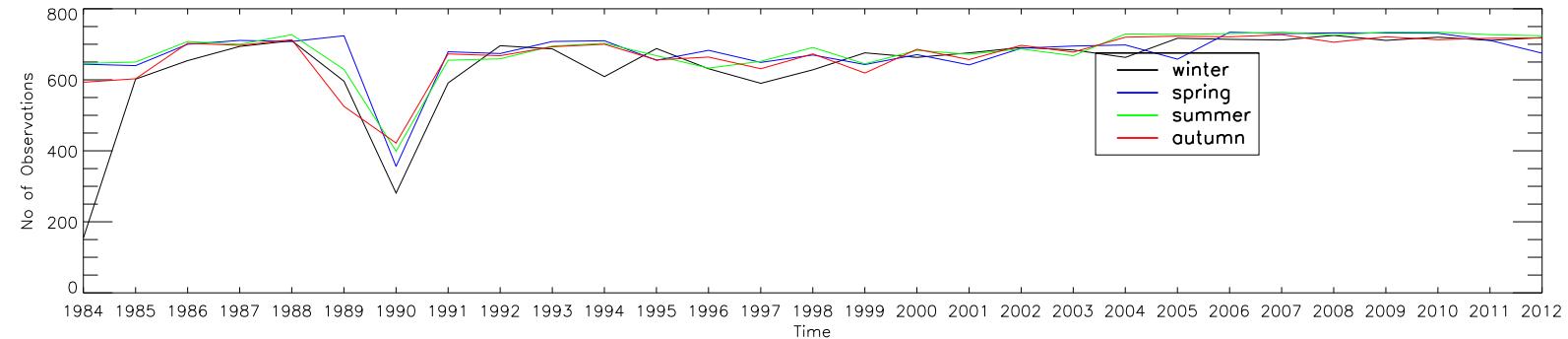
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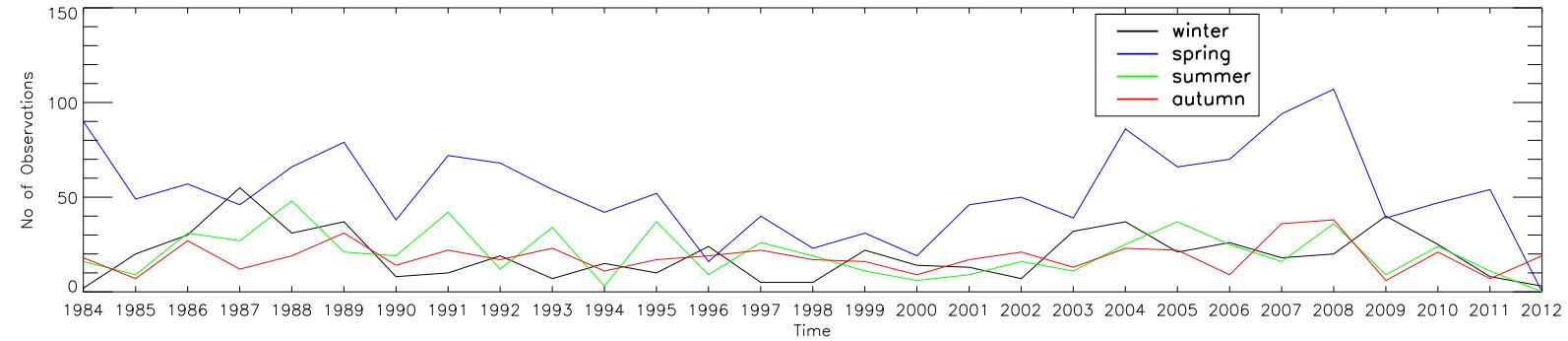
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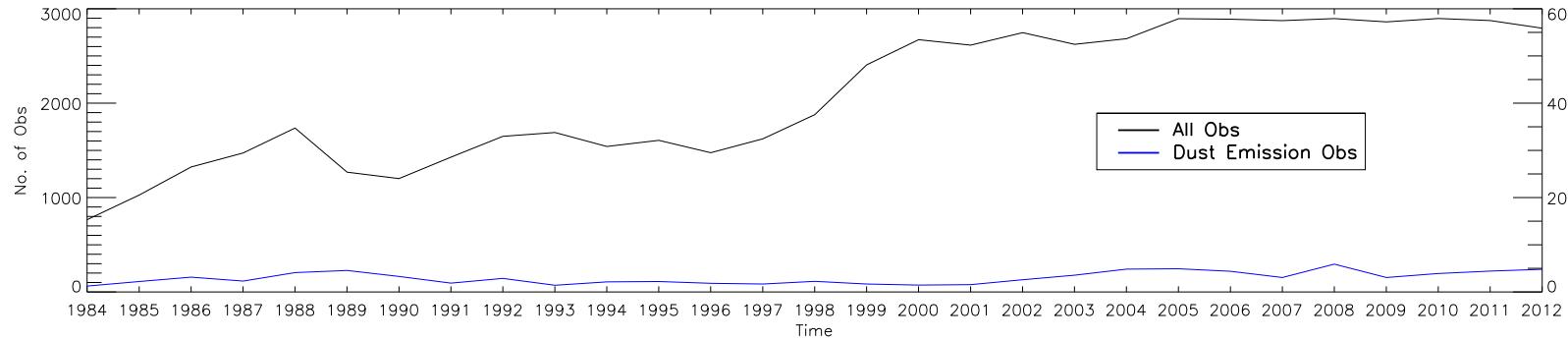
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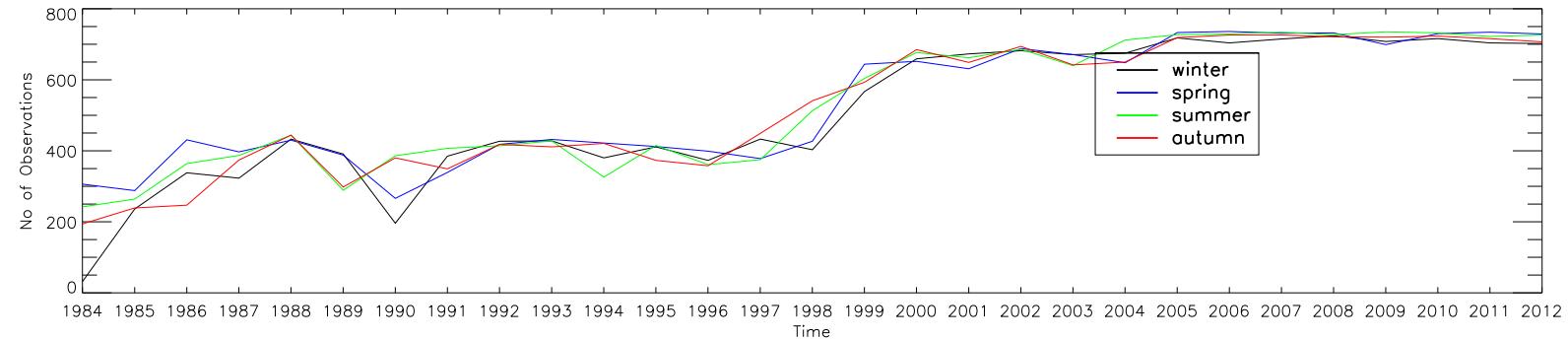
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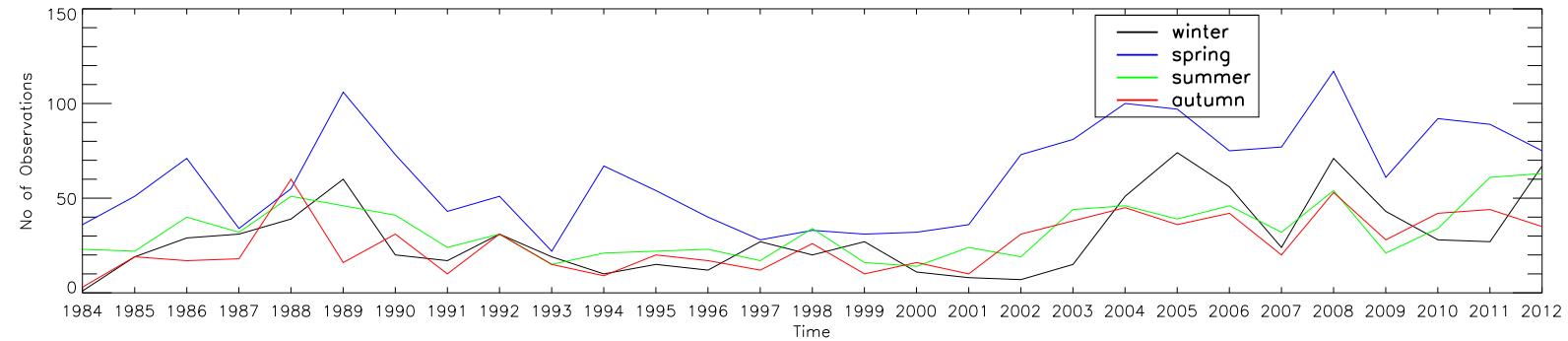
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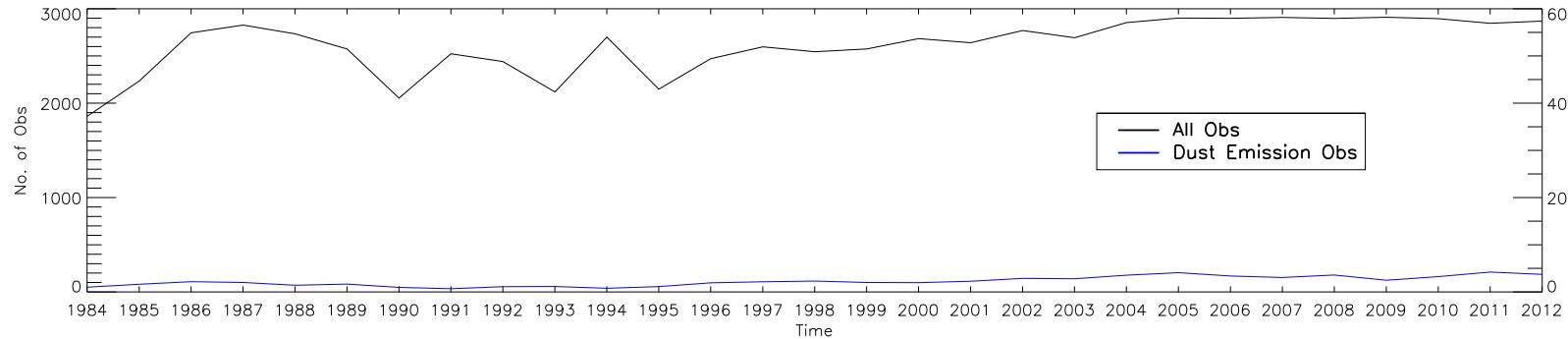
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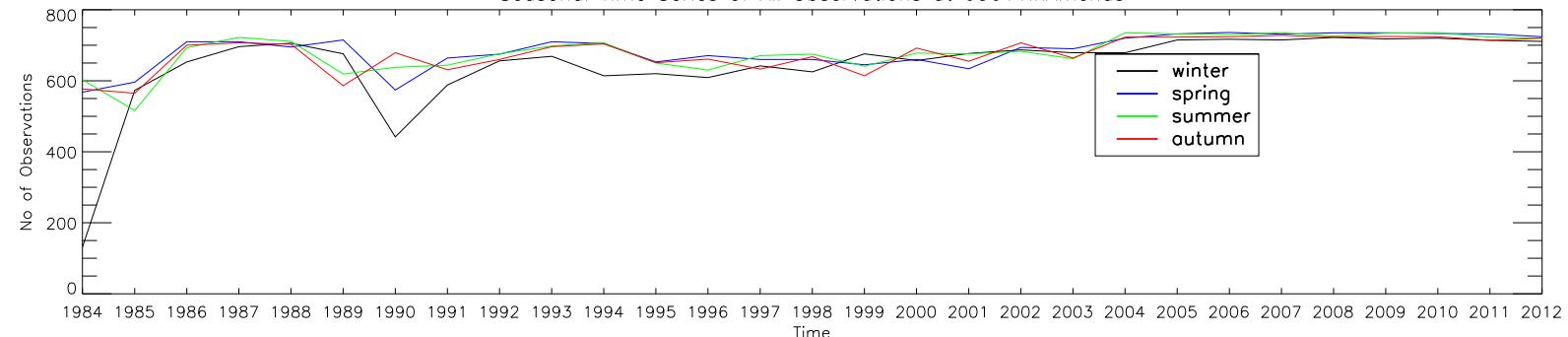
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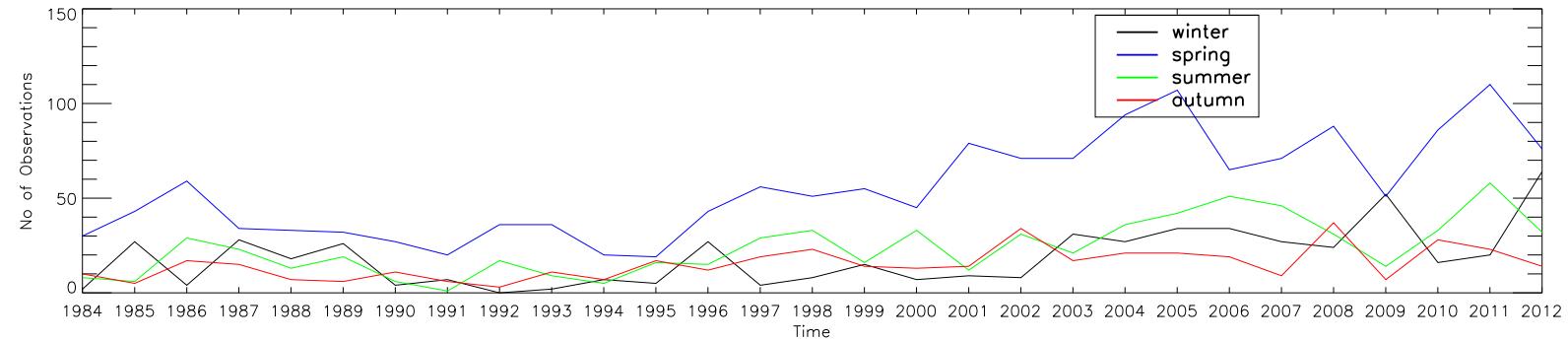
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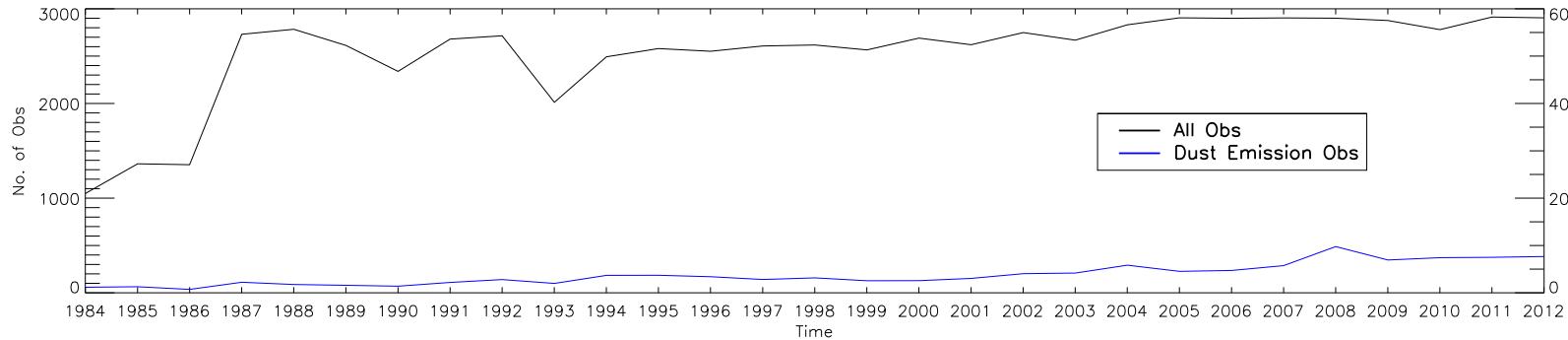
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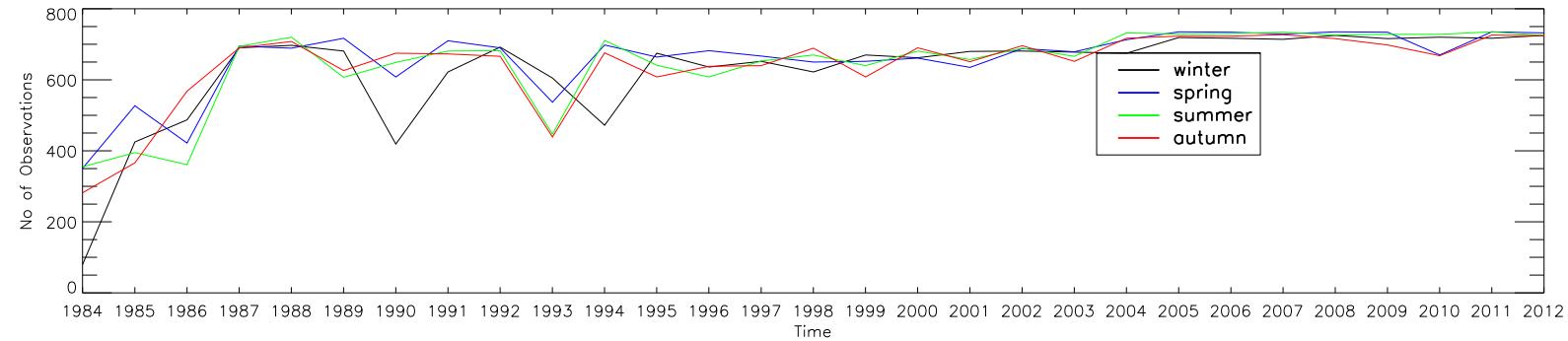
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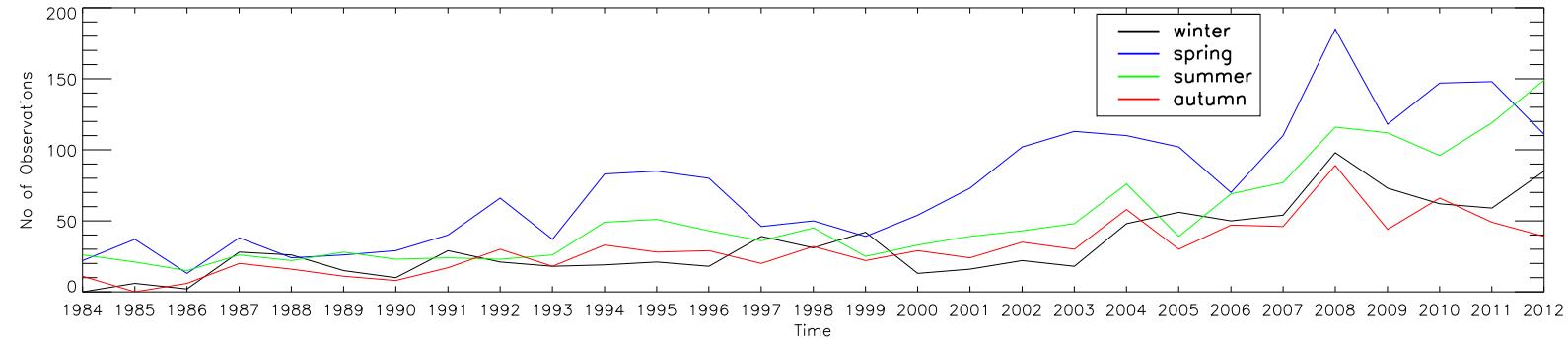
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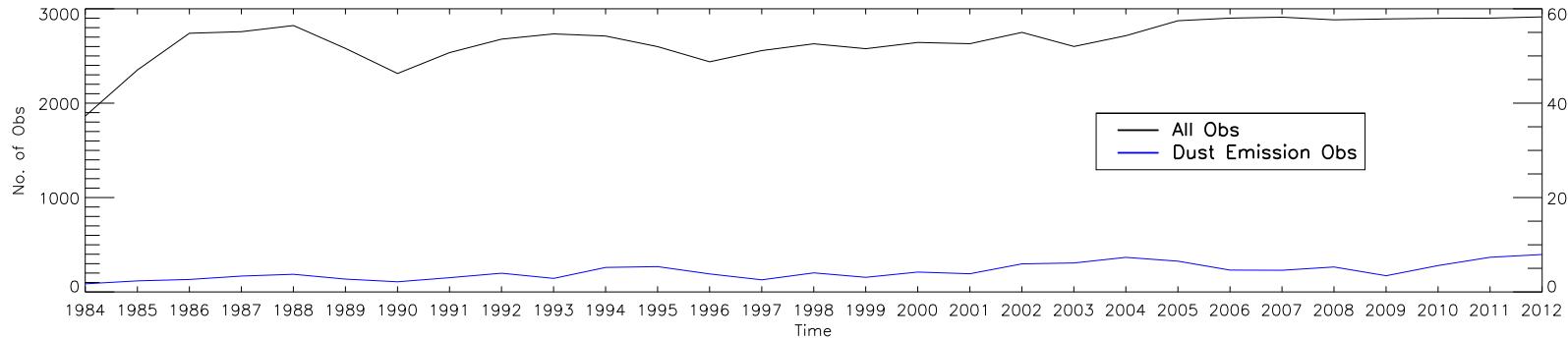
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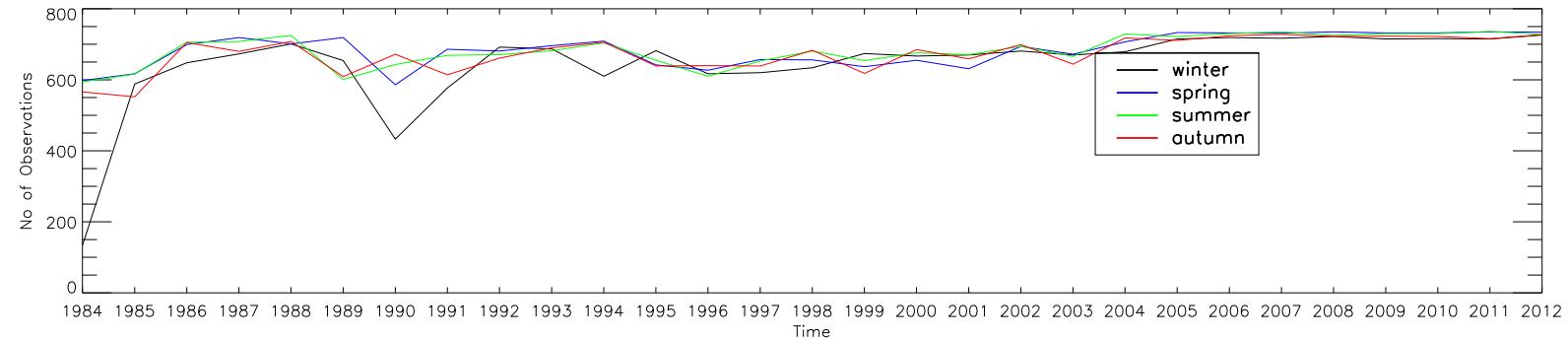
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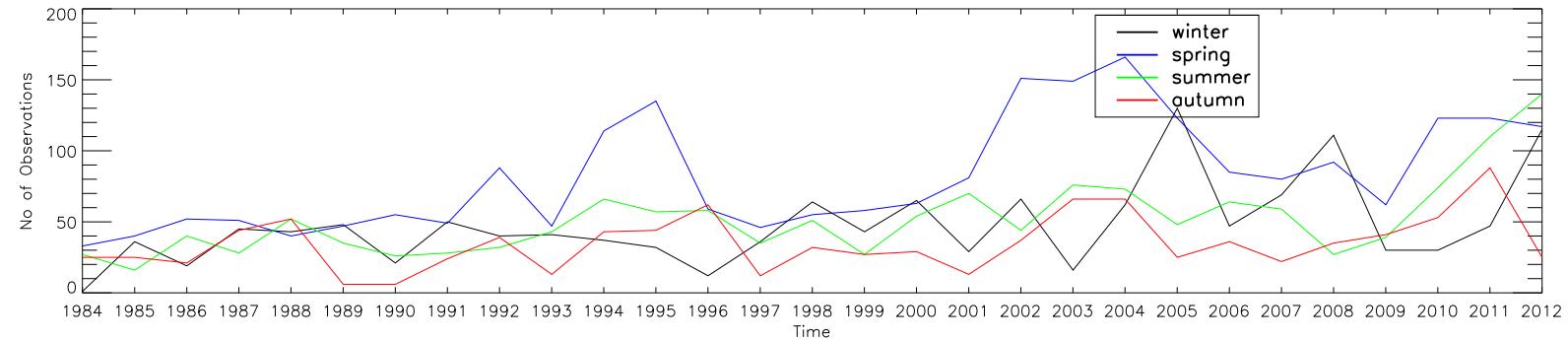
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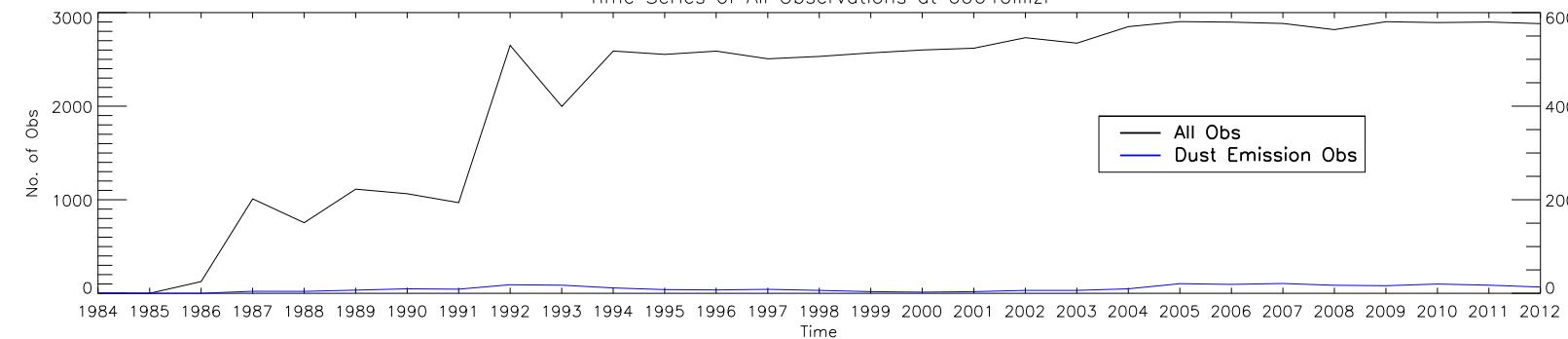
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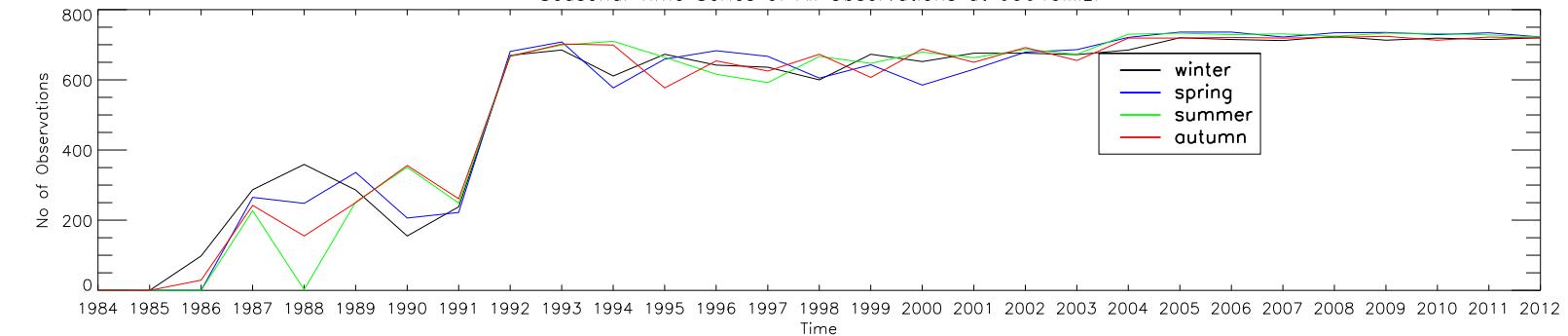
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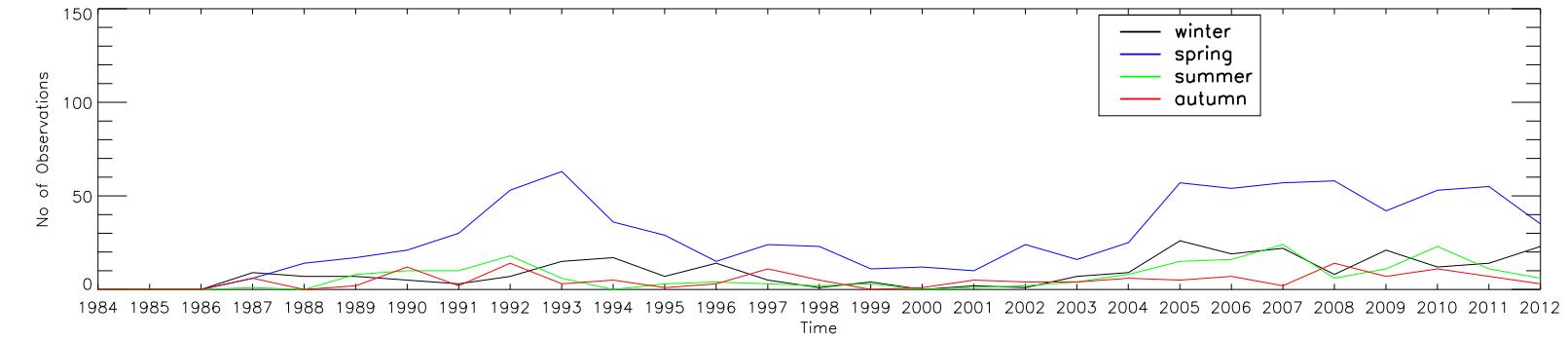
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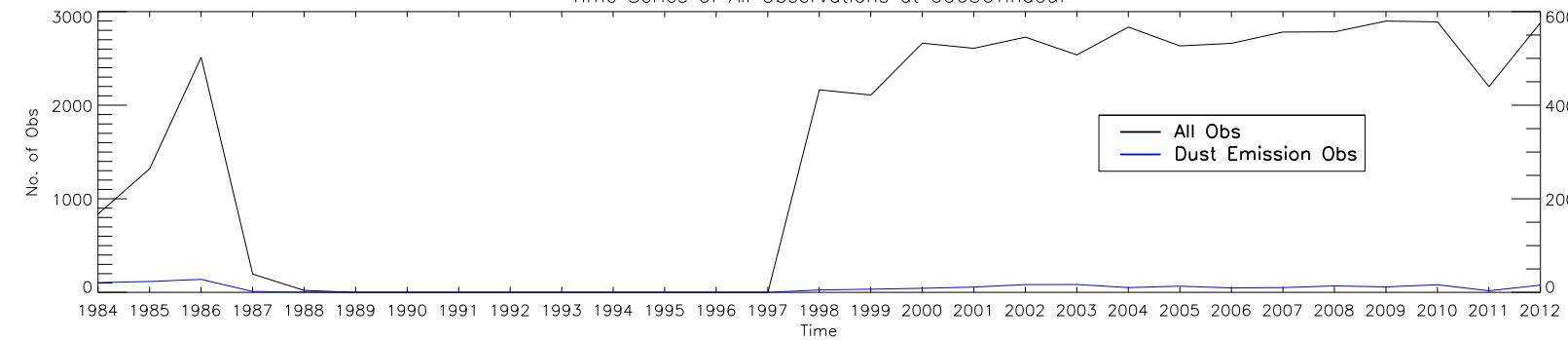
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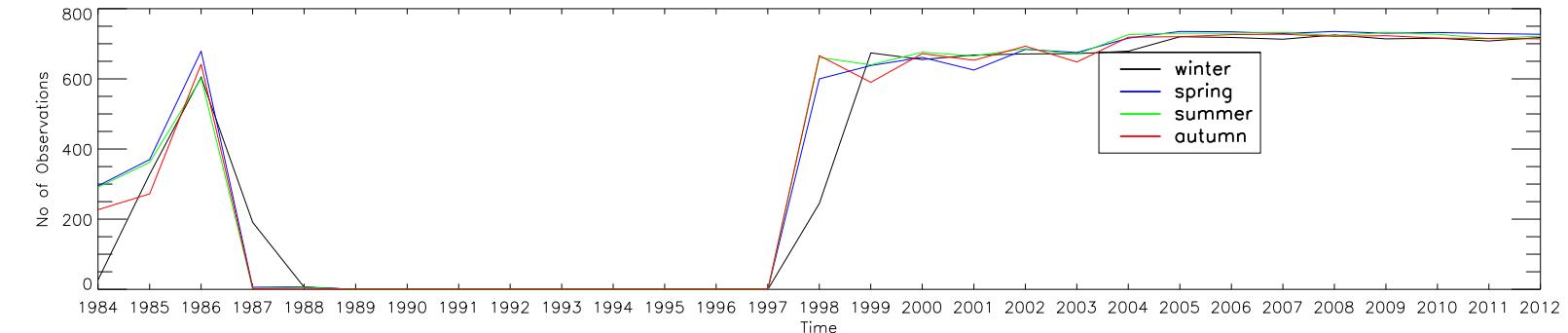
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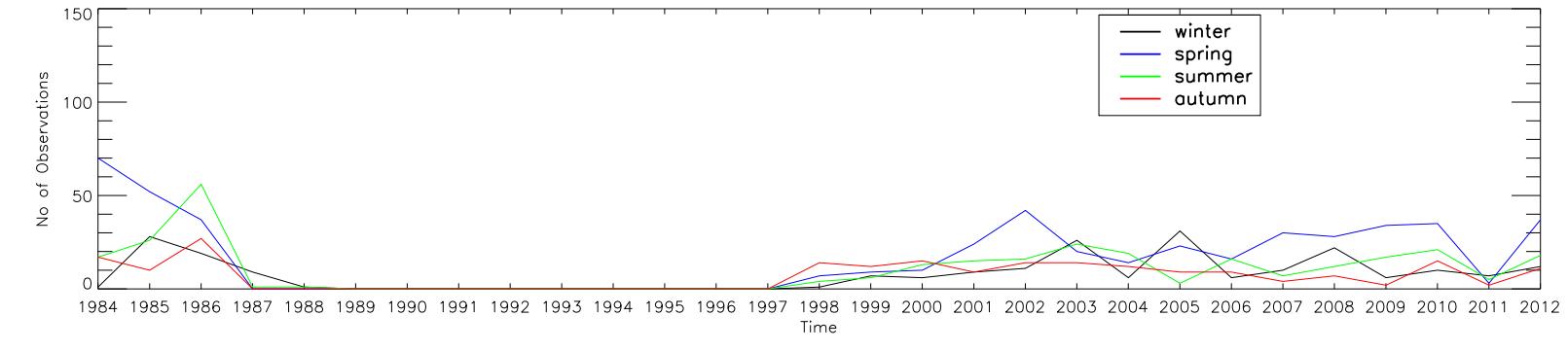
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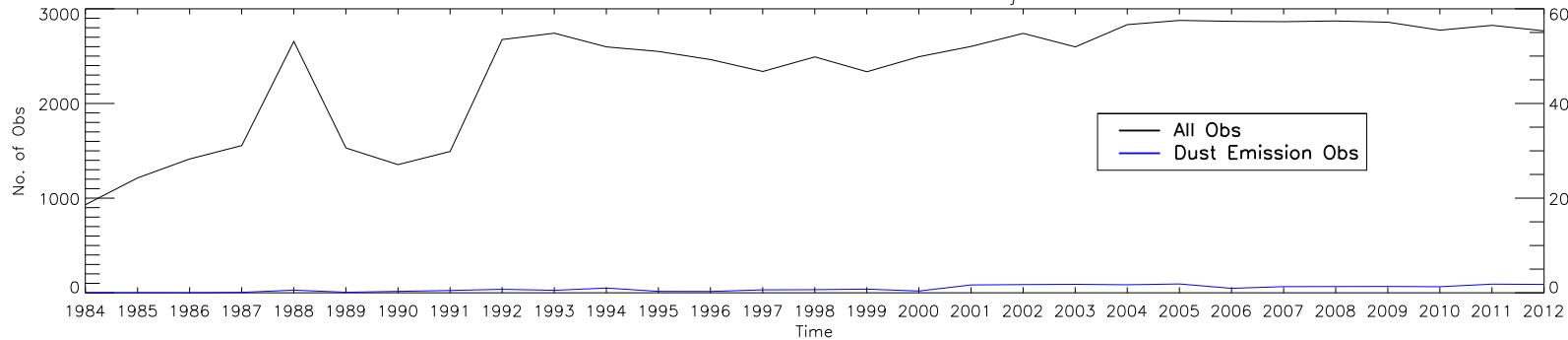
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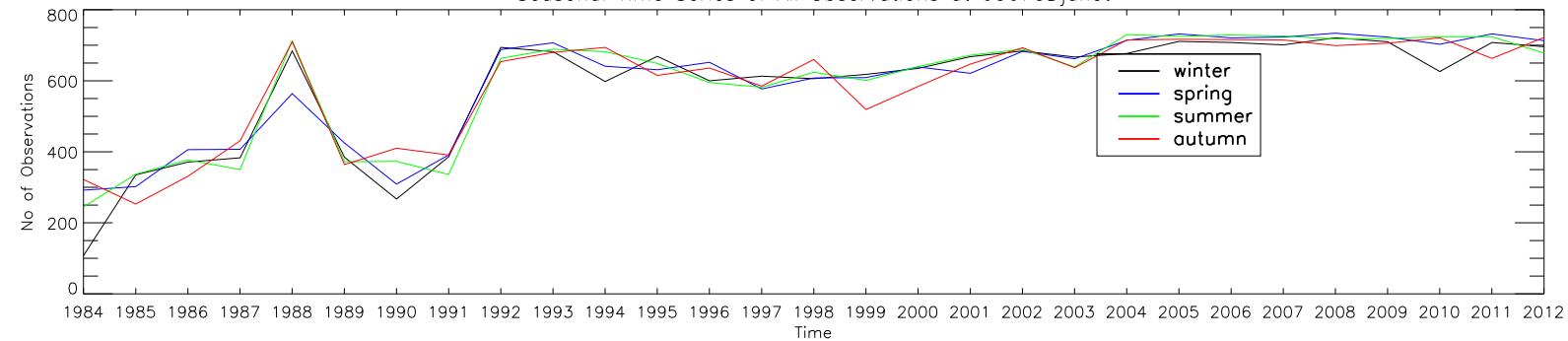
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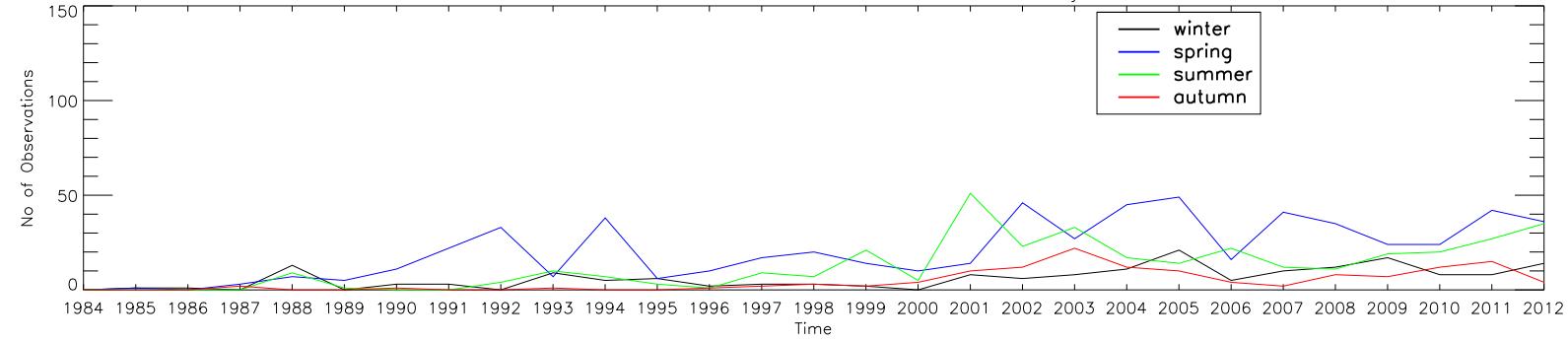
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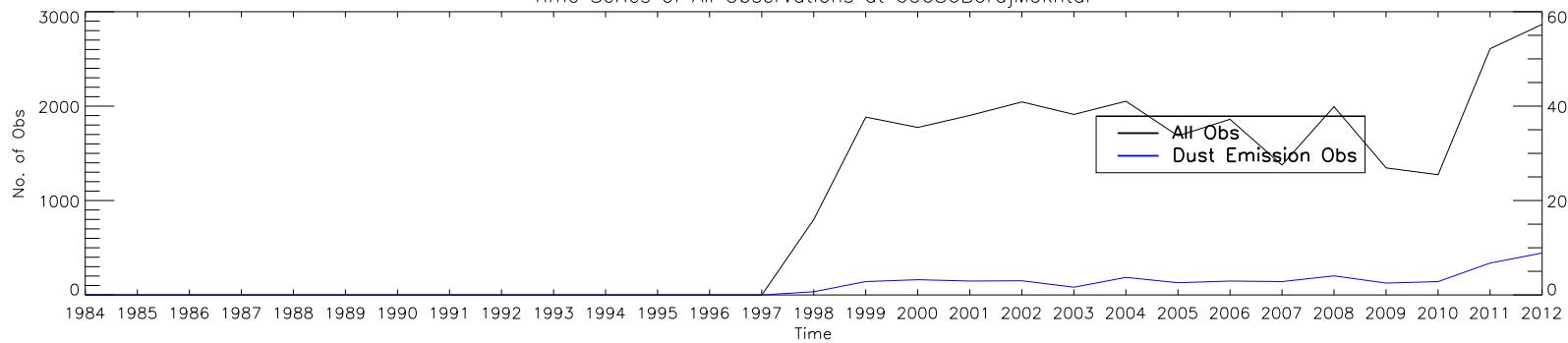
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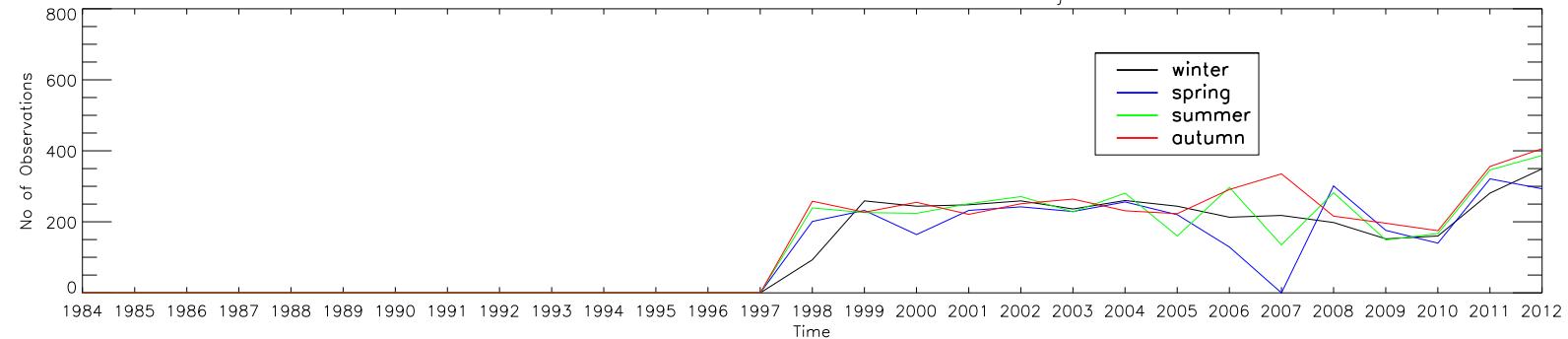
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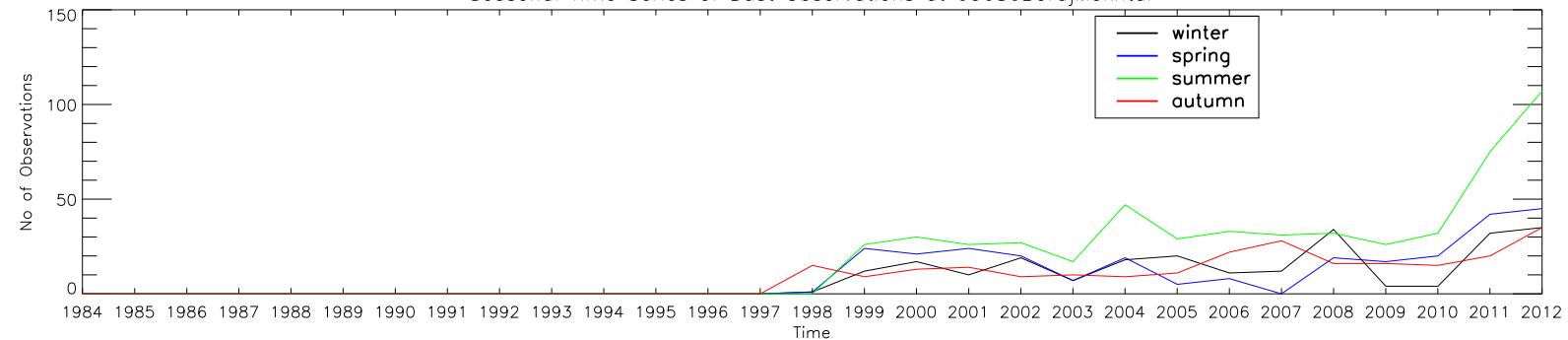
Time Series of All Observations at 60686BordjMokhtar



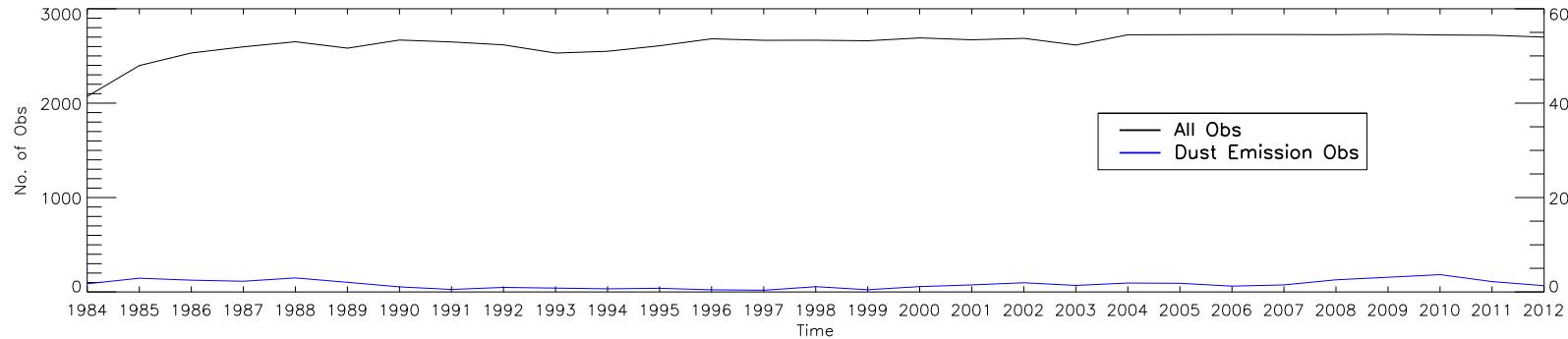
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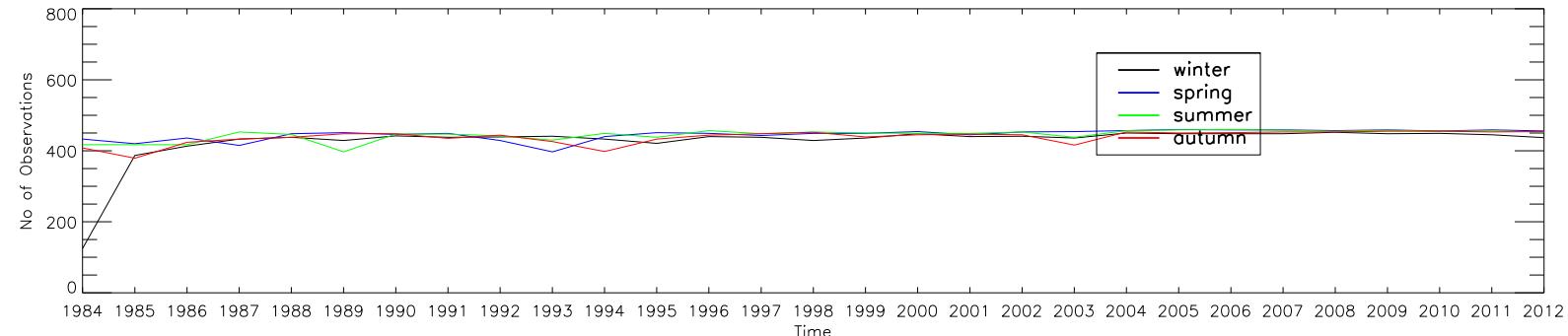
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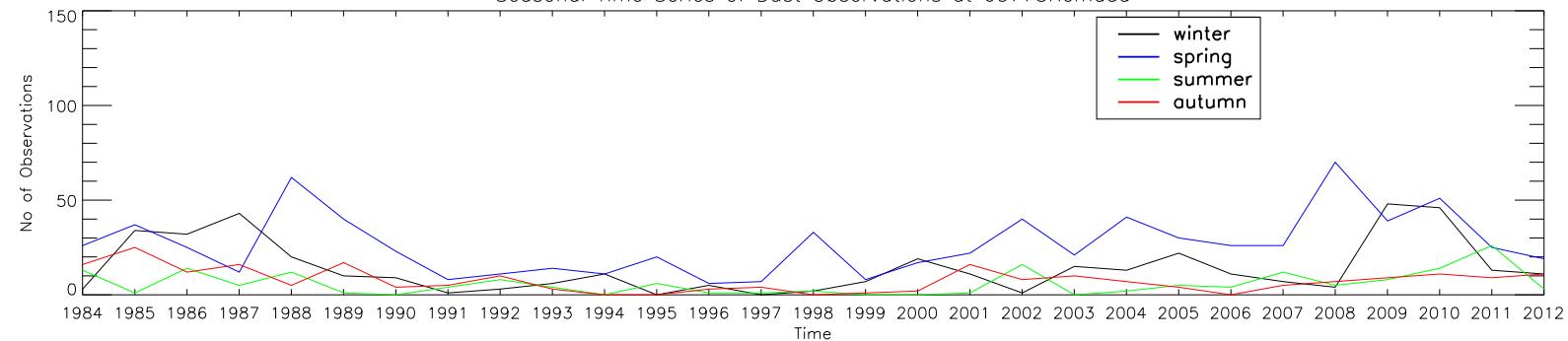
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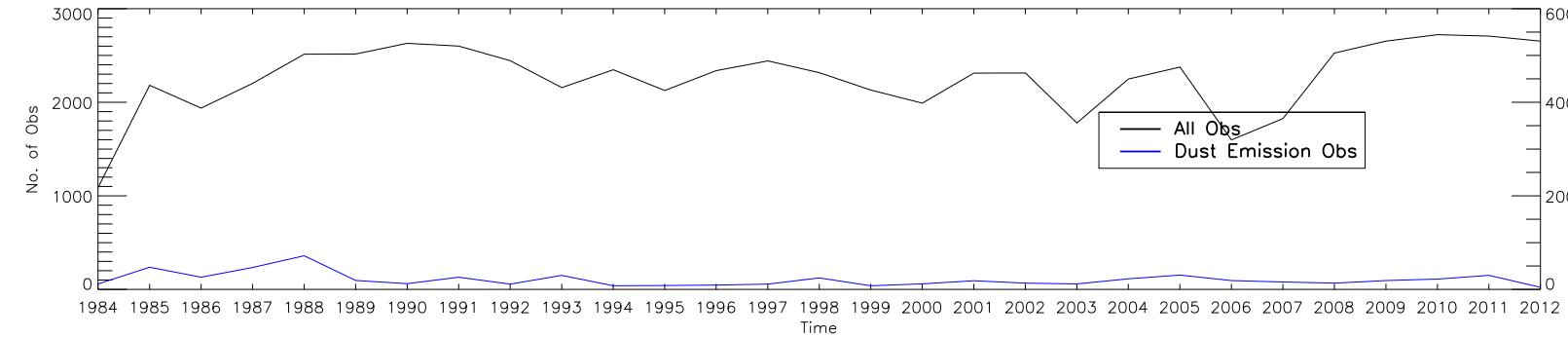
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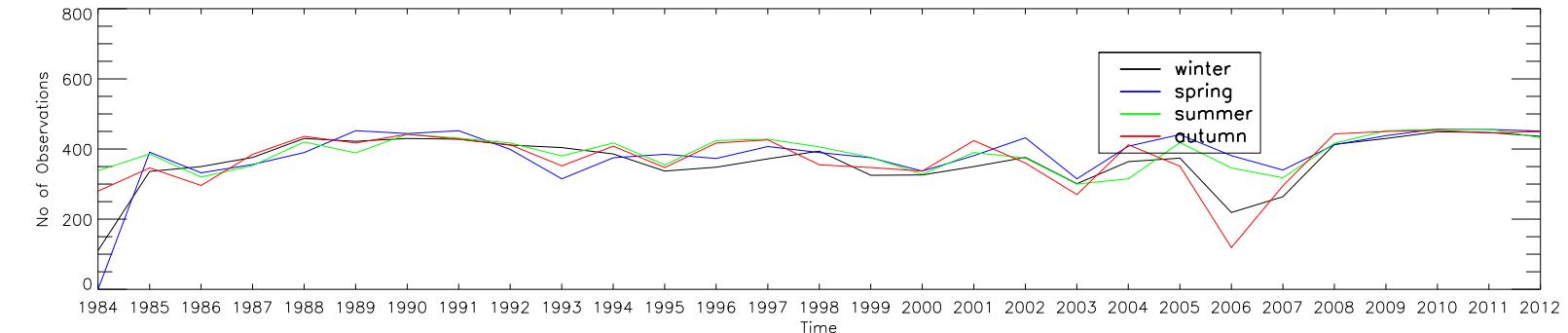
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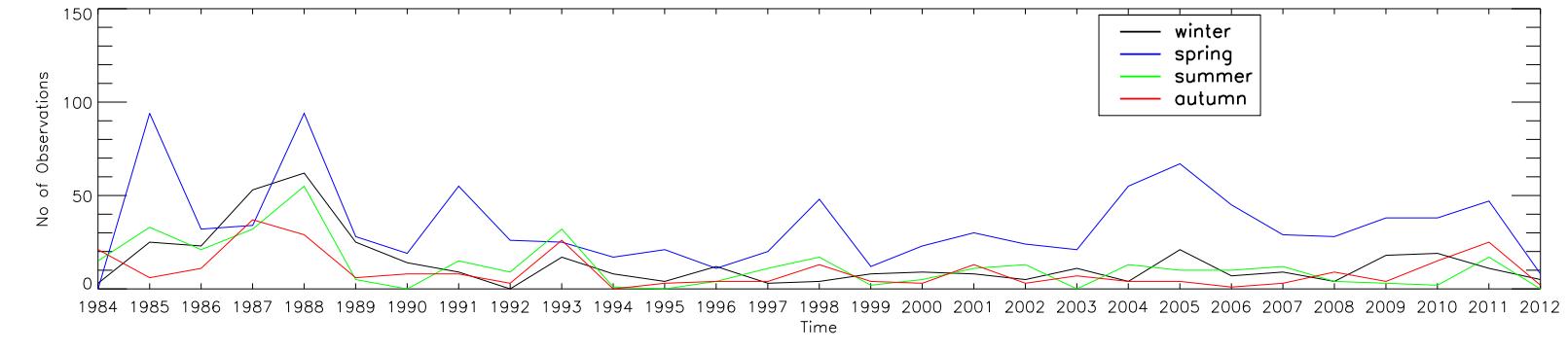
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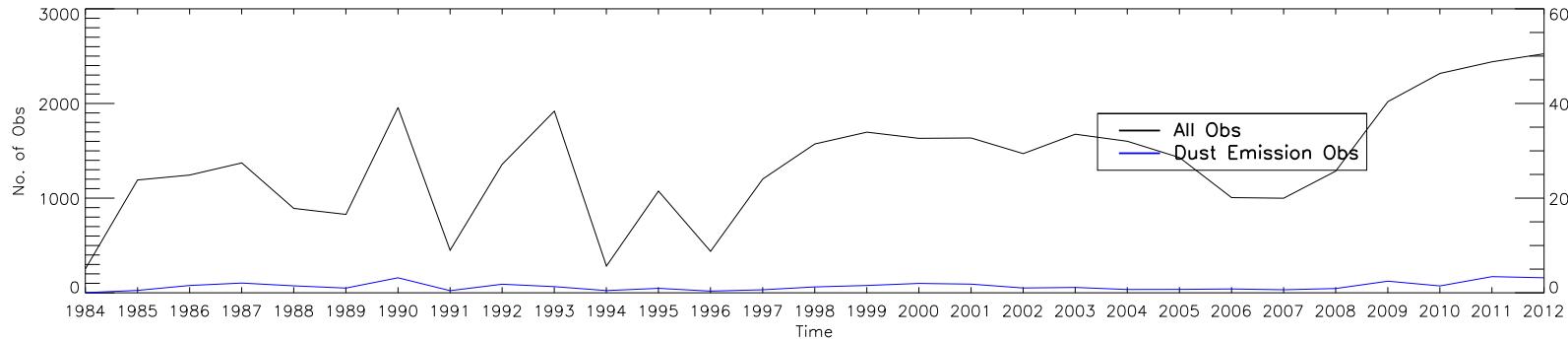
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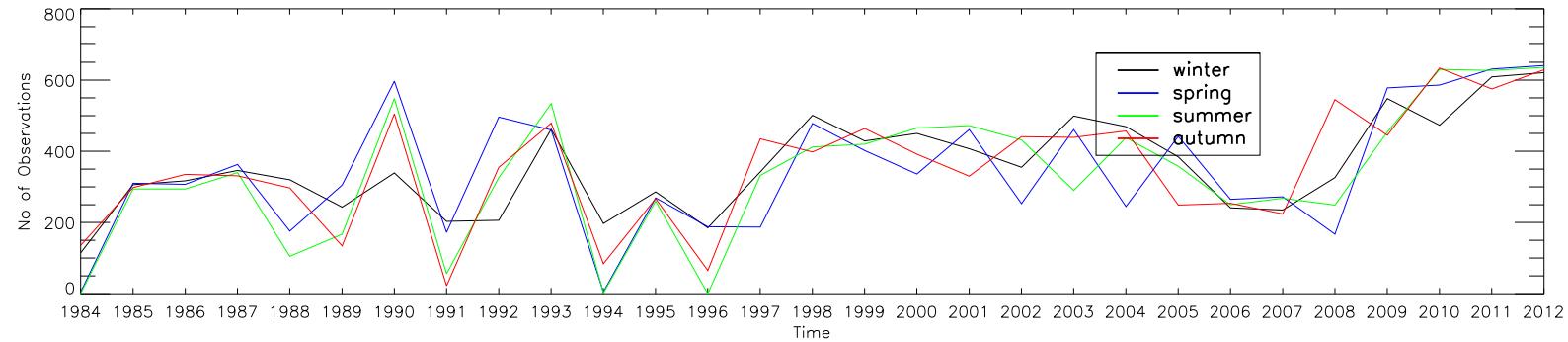
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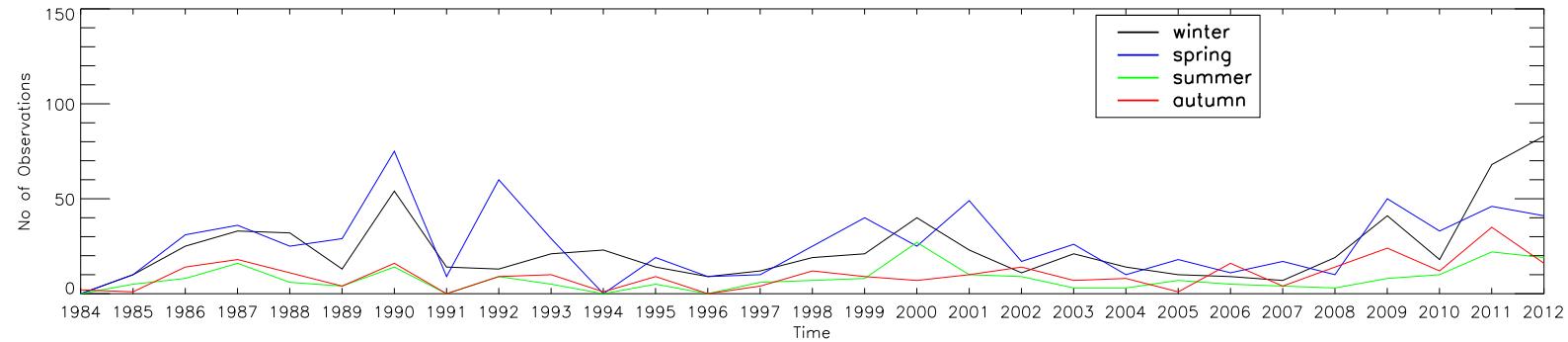
Time Series of All Observations at 61017Bilma



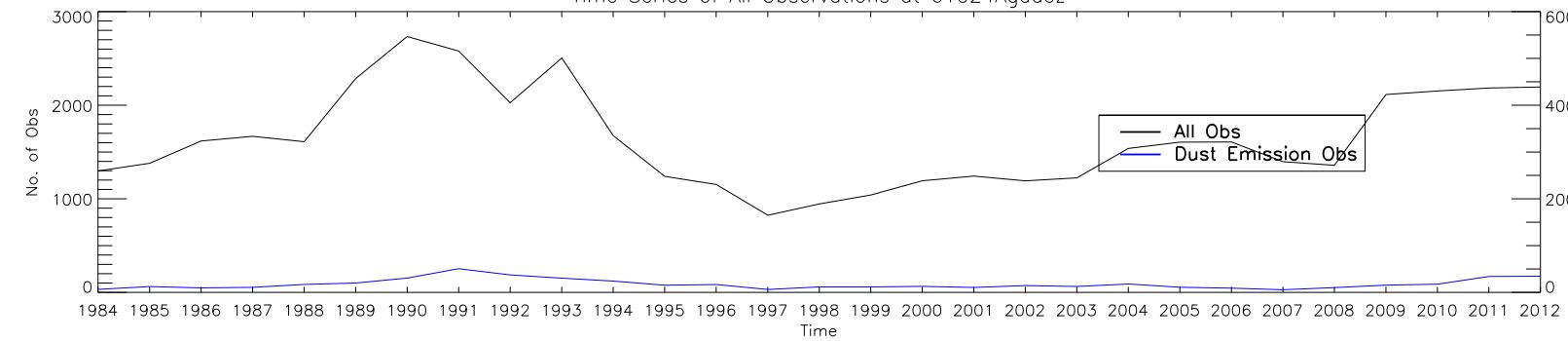
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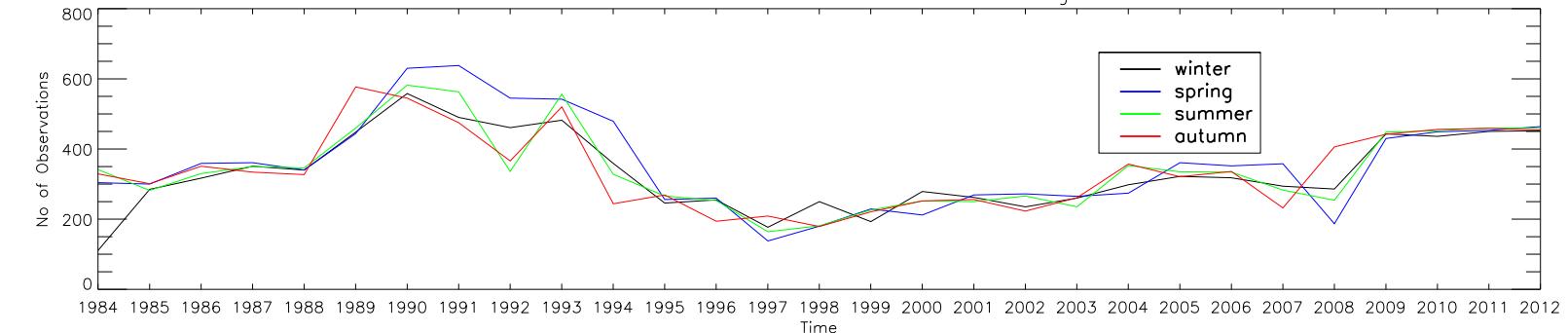
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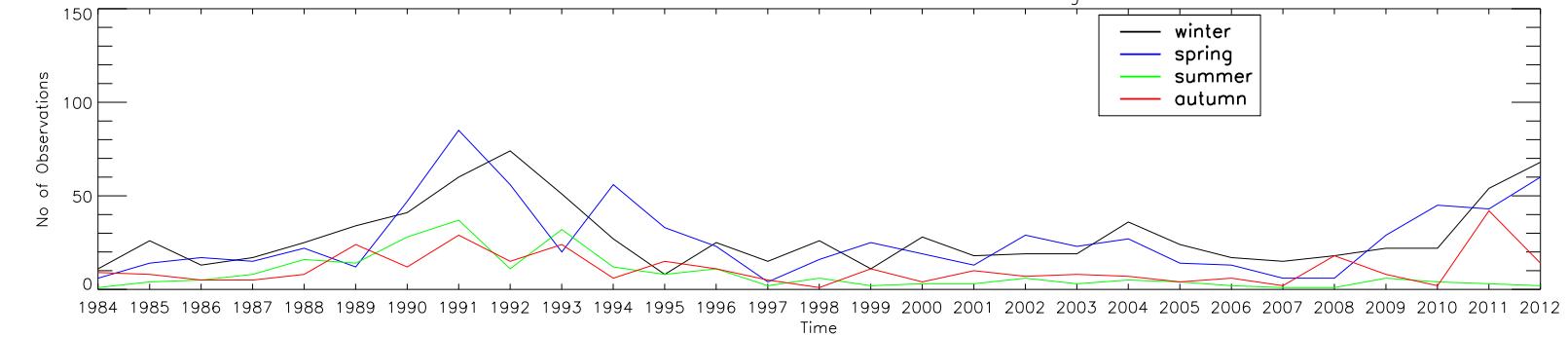
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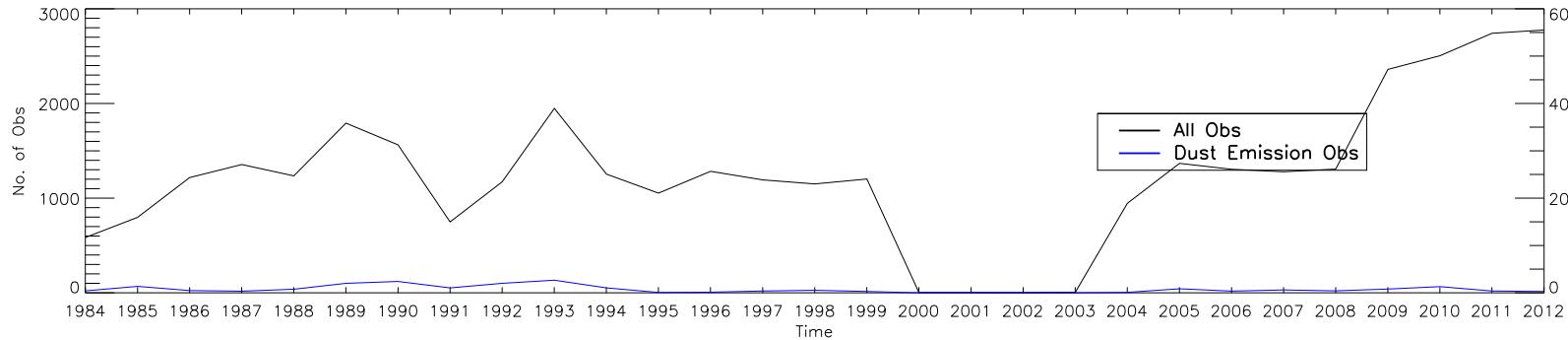
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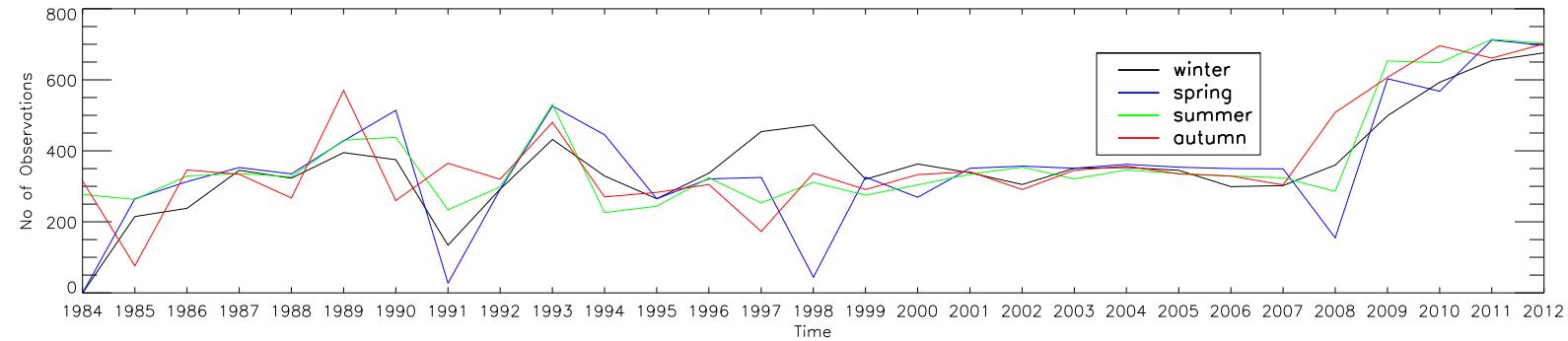
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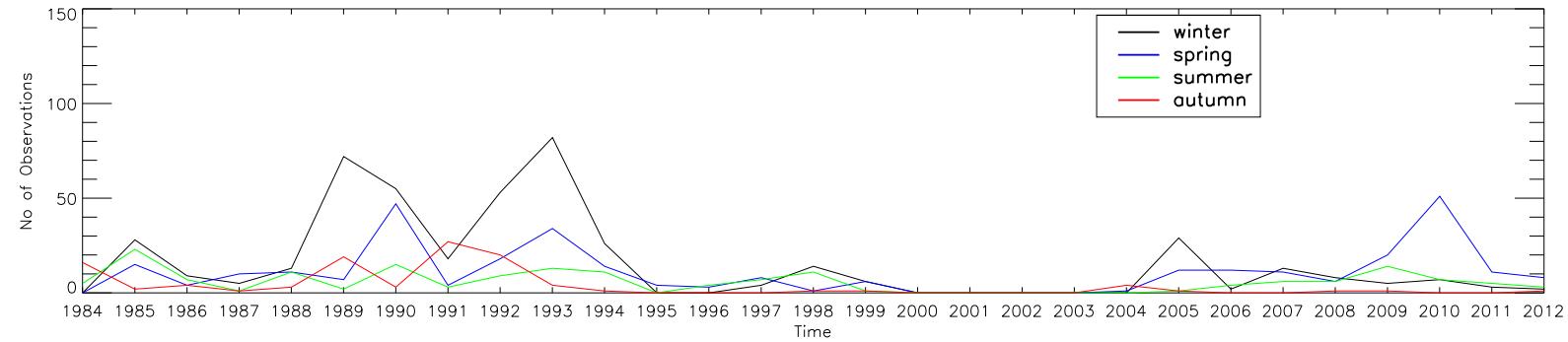
Time Series of All Observations at 61045Goure



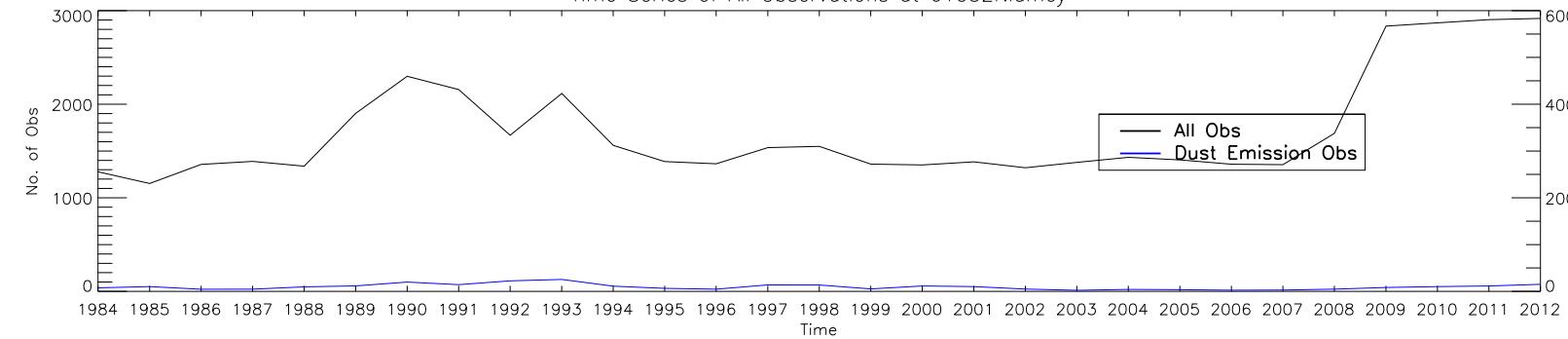
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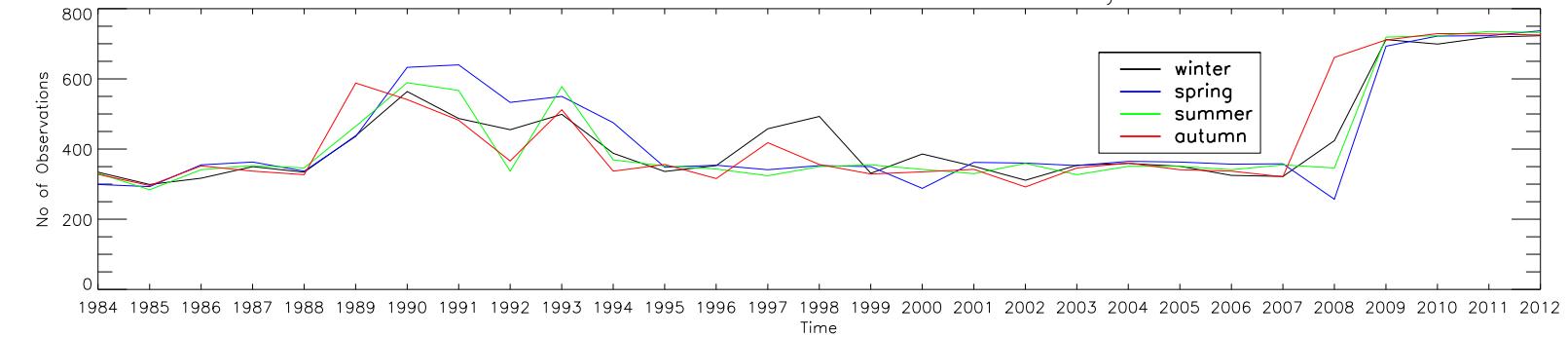
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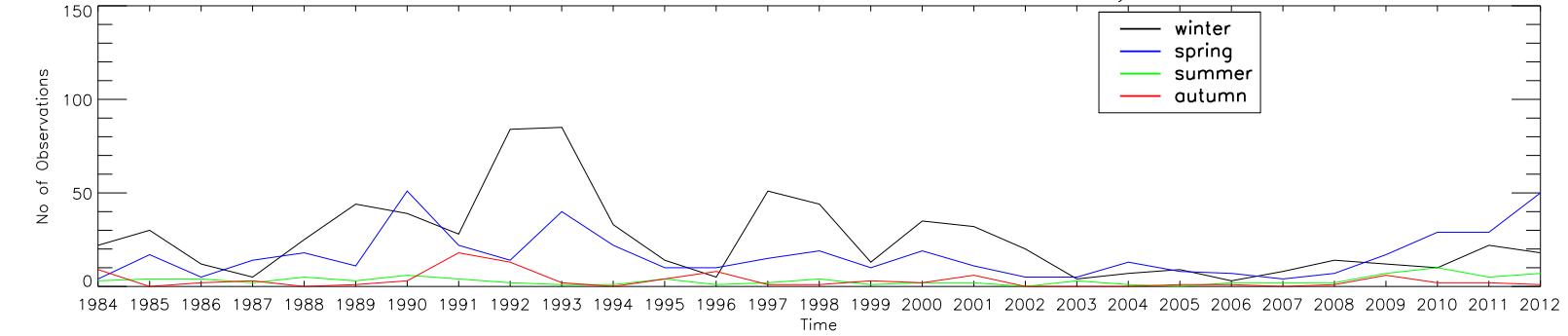
Time Series of All Observations at 61052Niamey



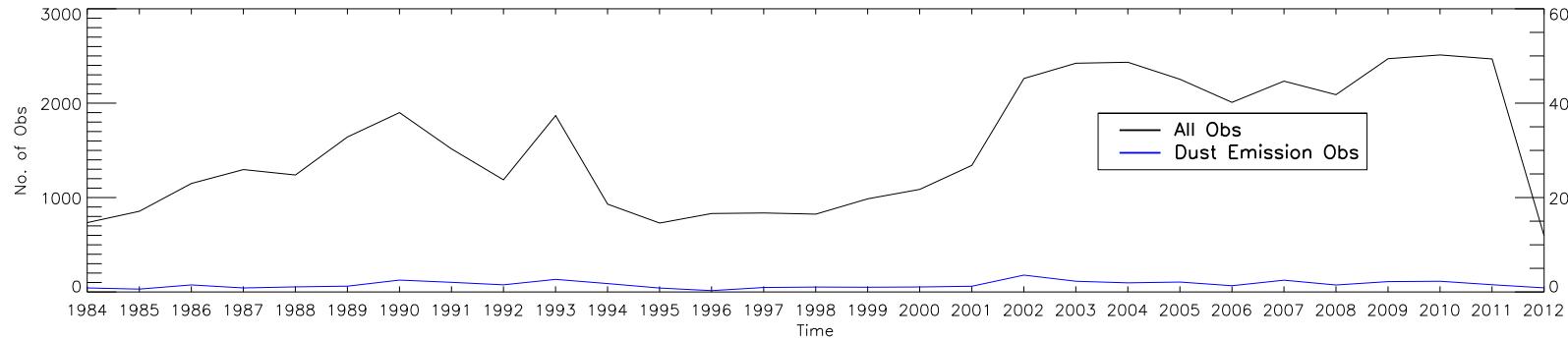
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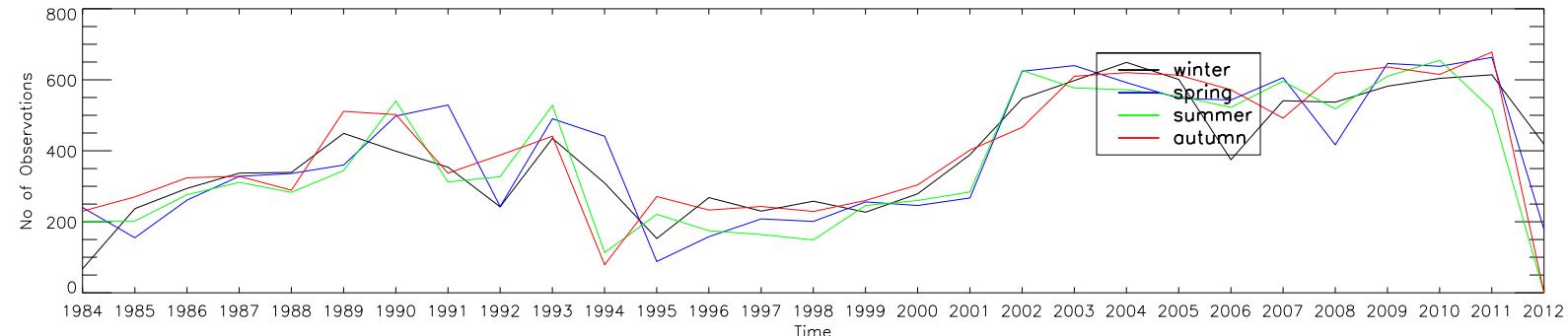
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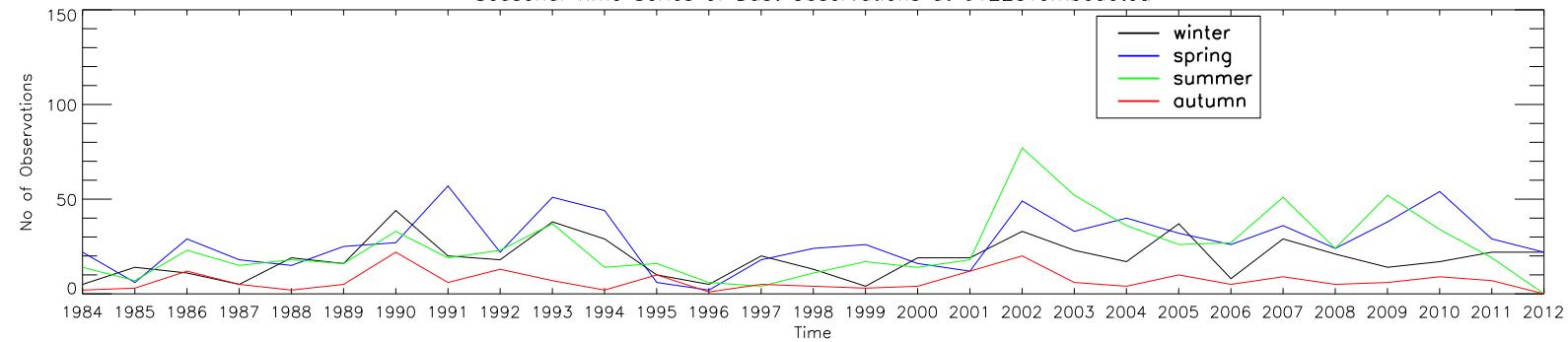
Time Series of All Observations at 61223Tombouctou



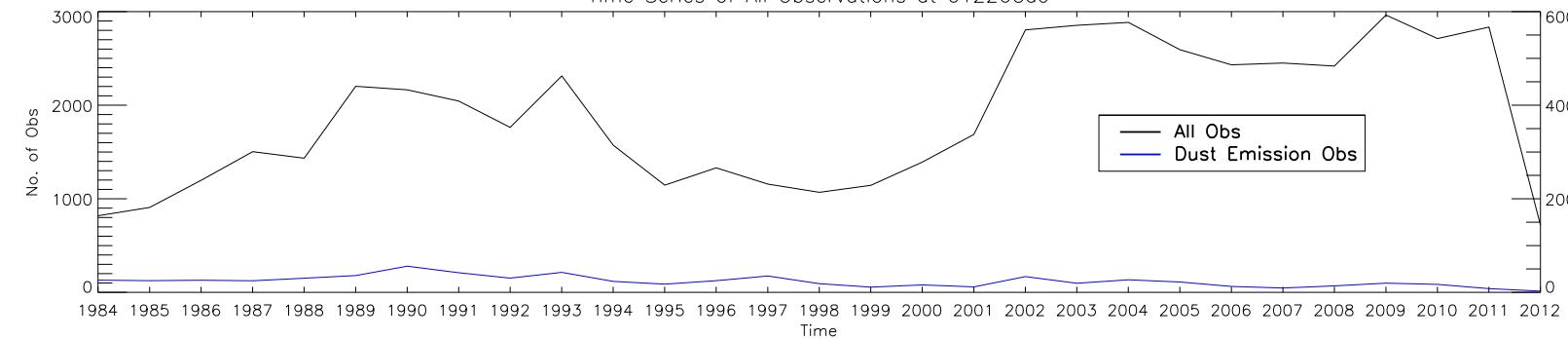
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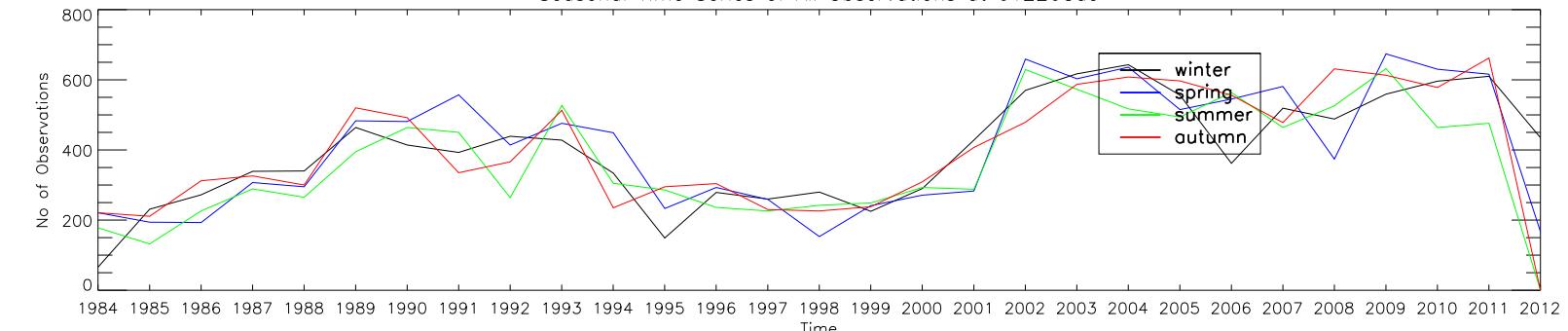
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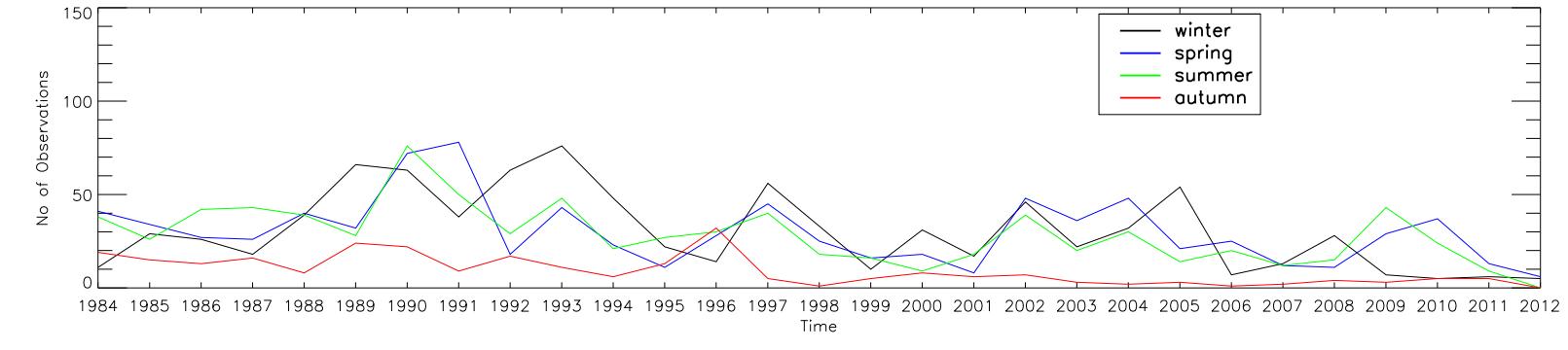
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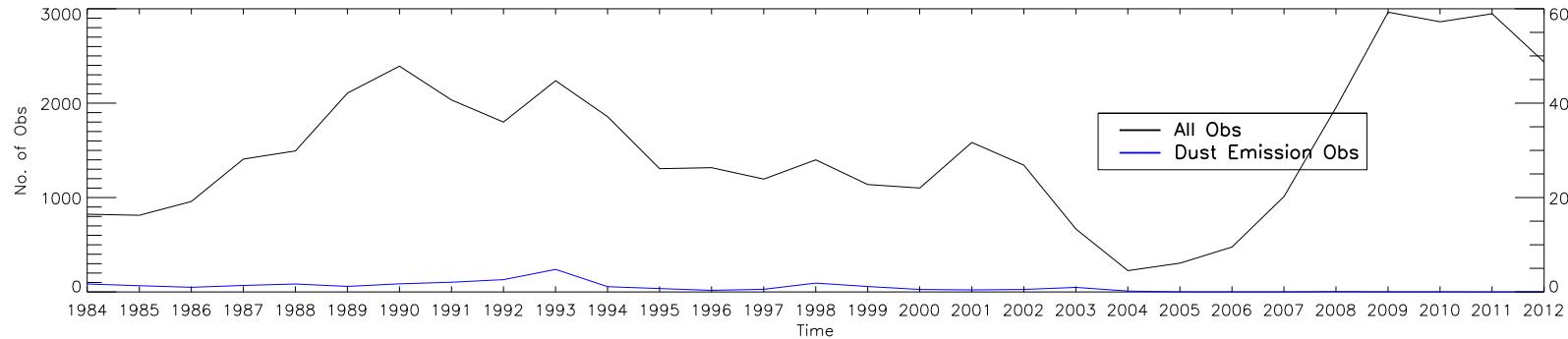
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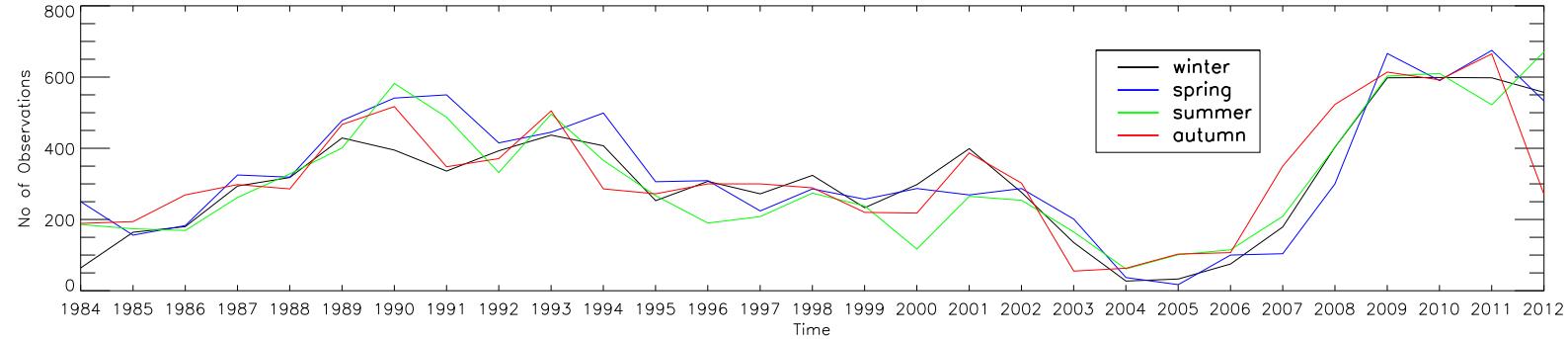
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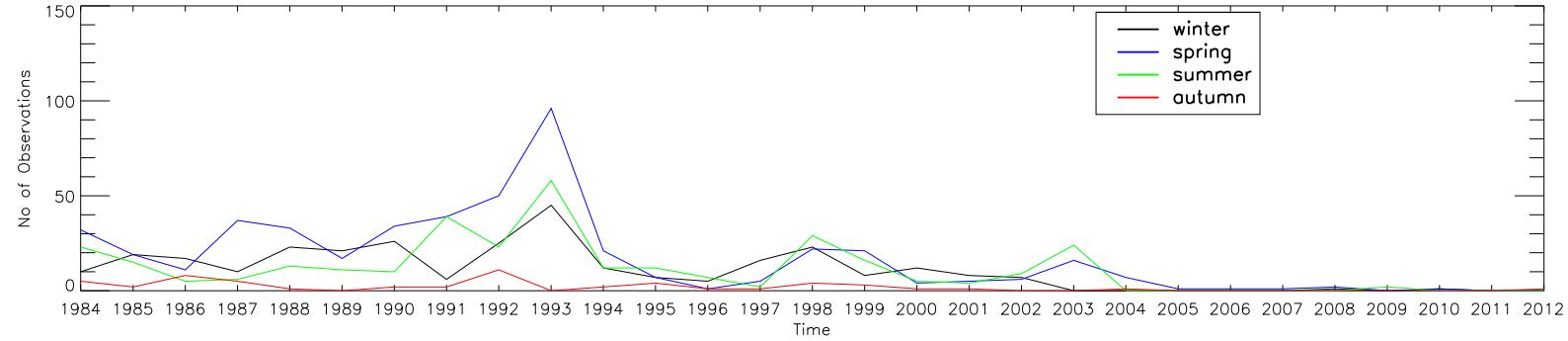
Time Series of All Observations at 61230NioroDuSahel



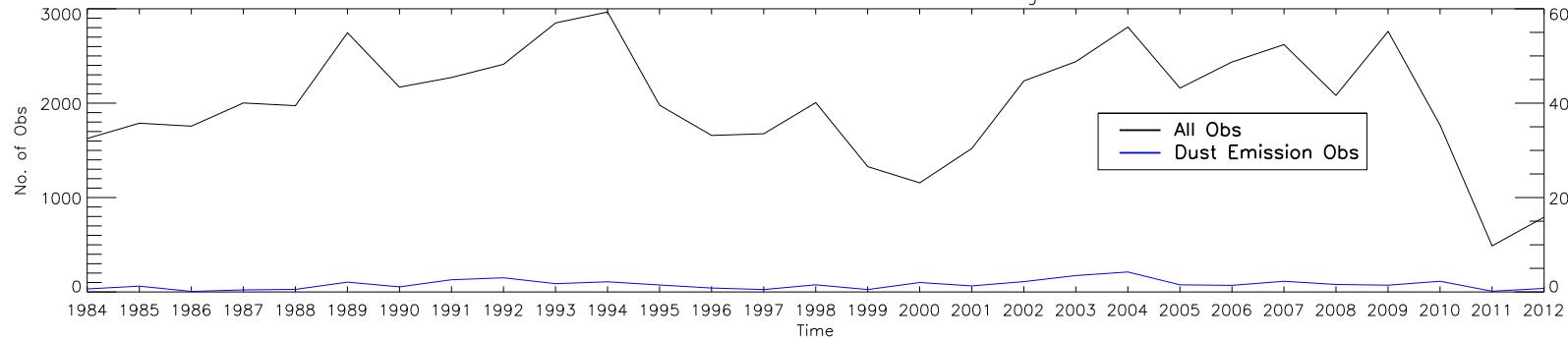
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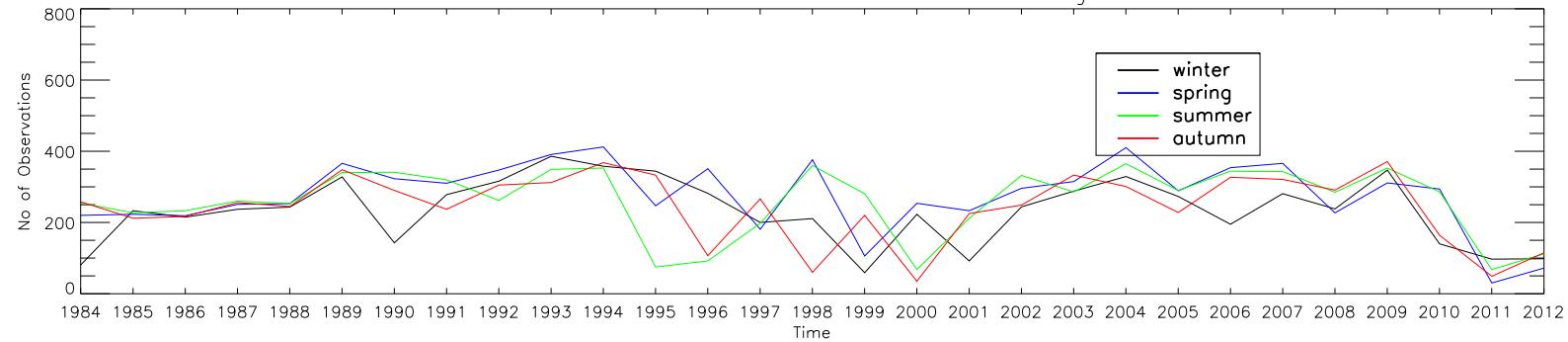
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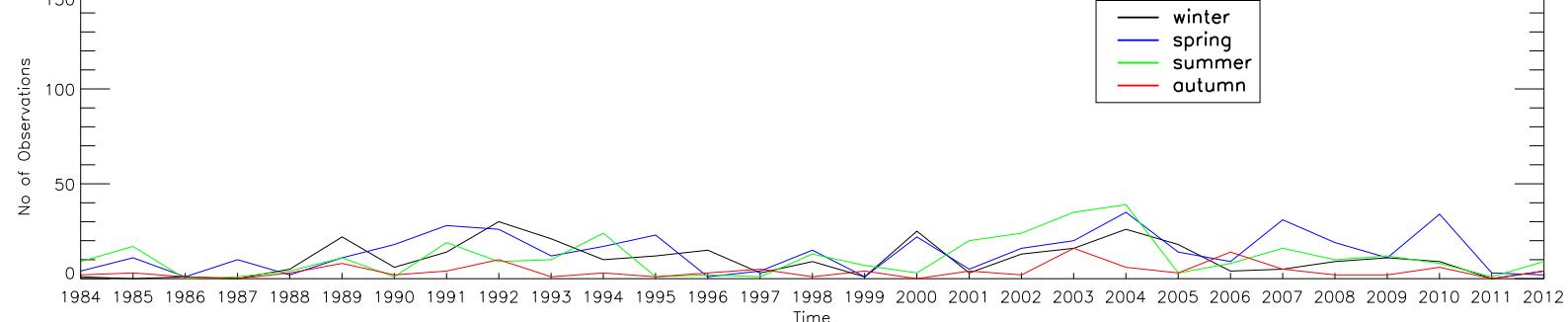
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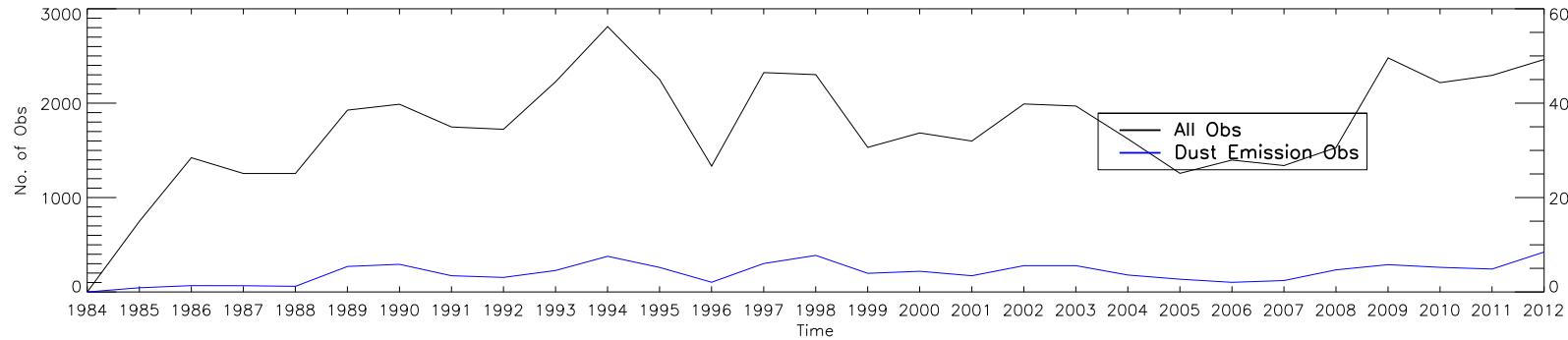
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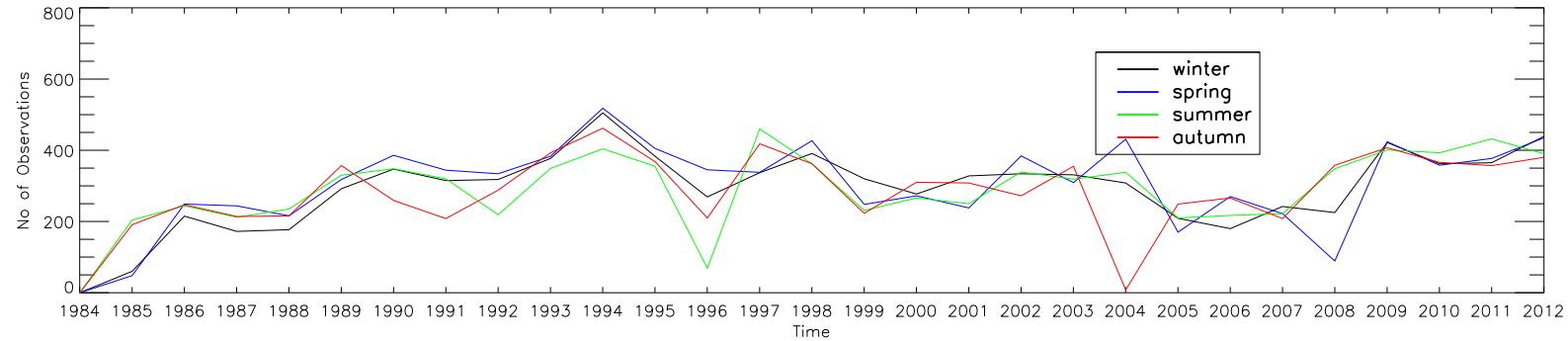
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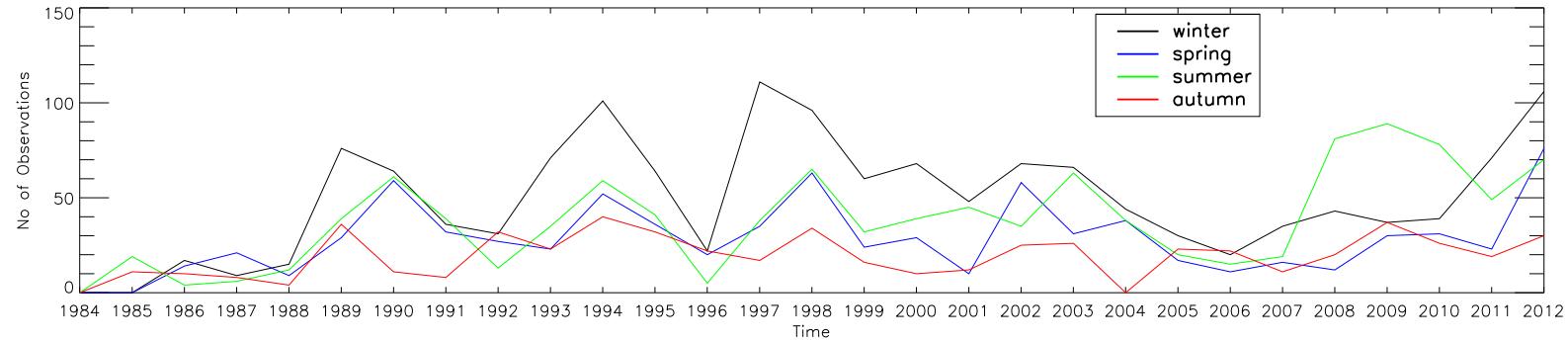
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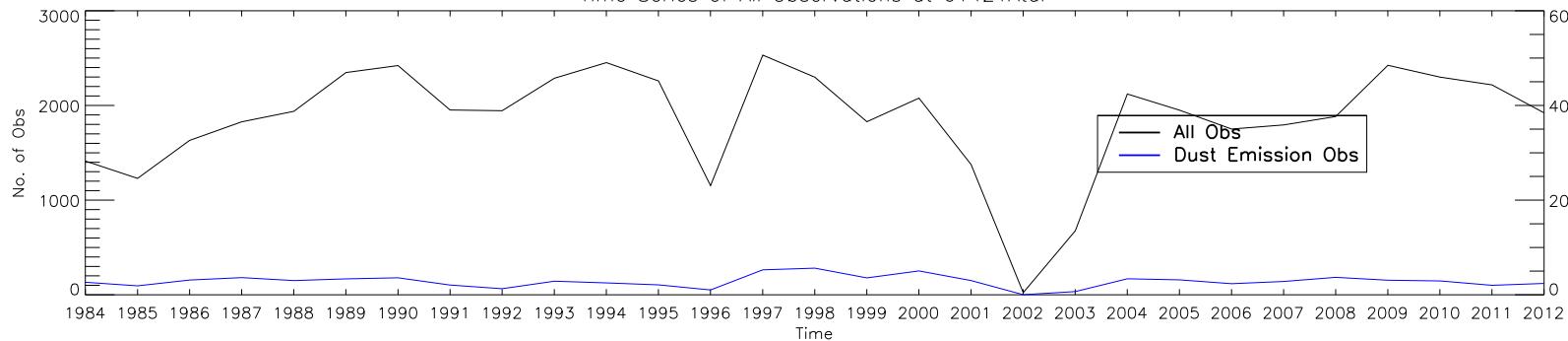
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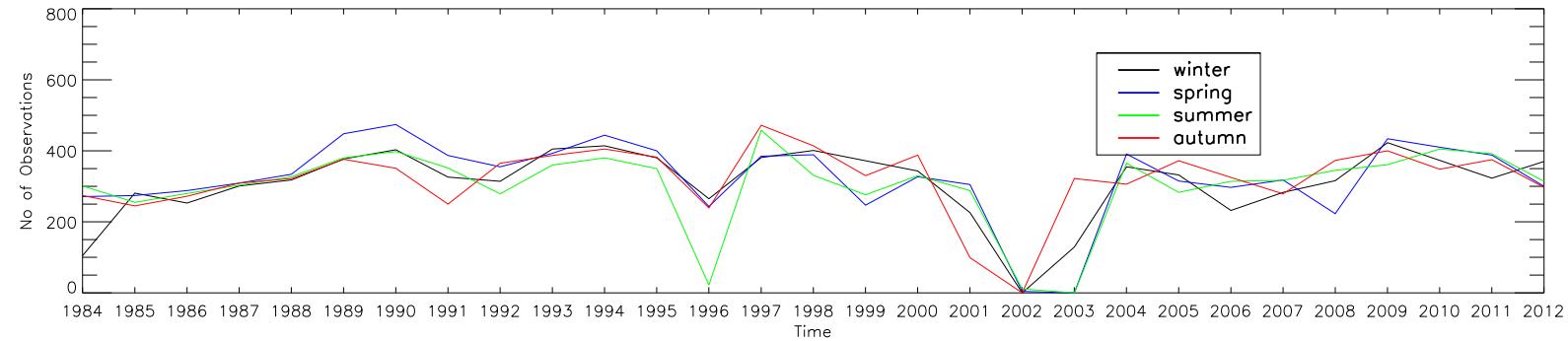
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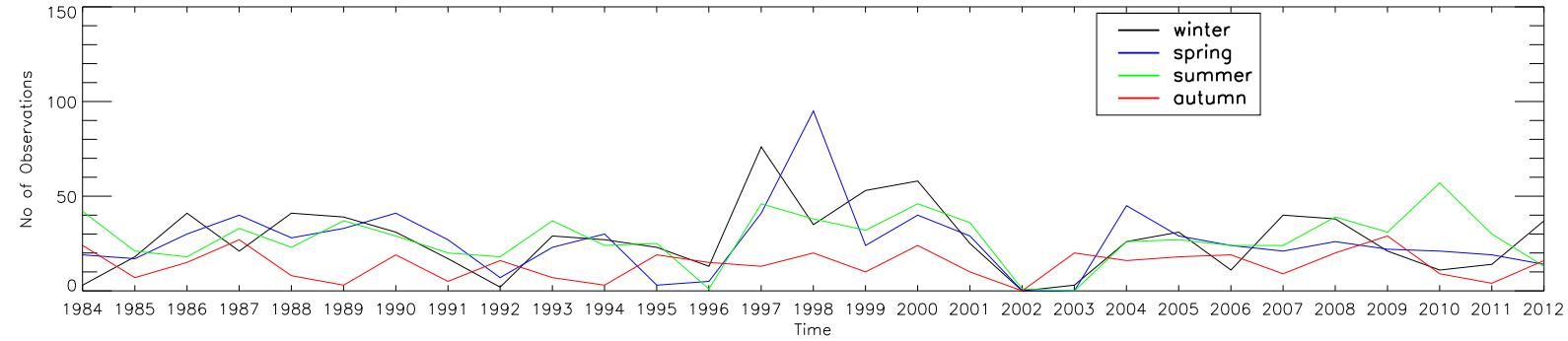
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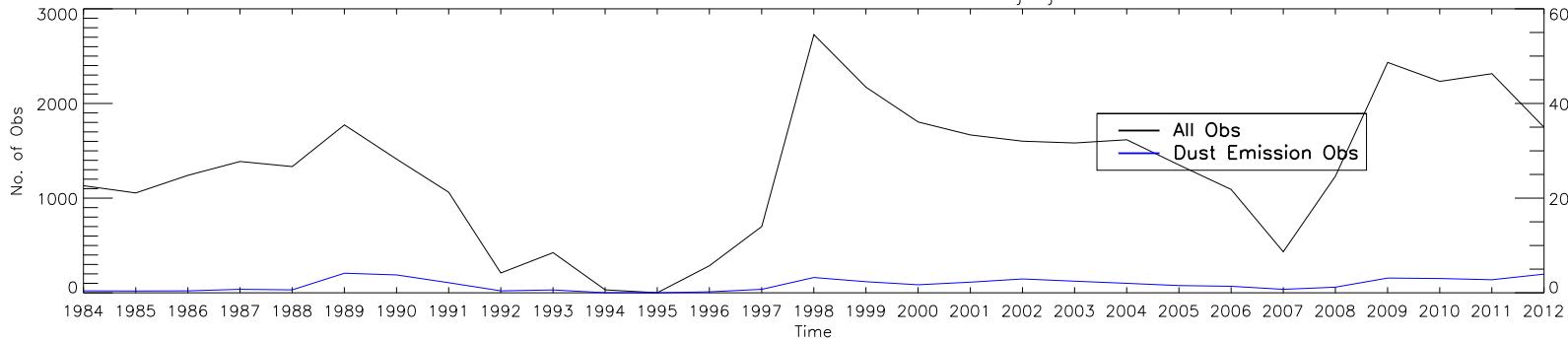
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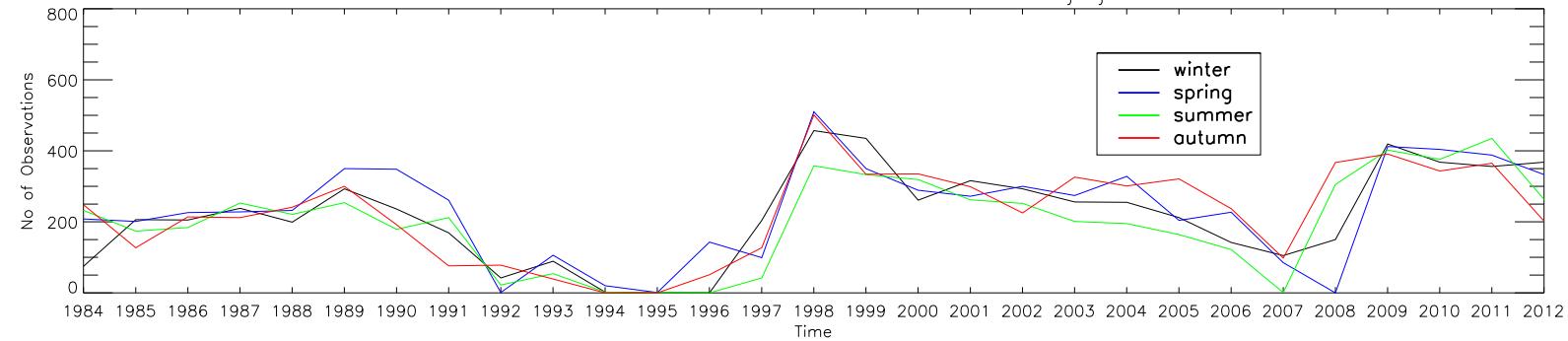
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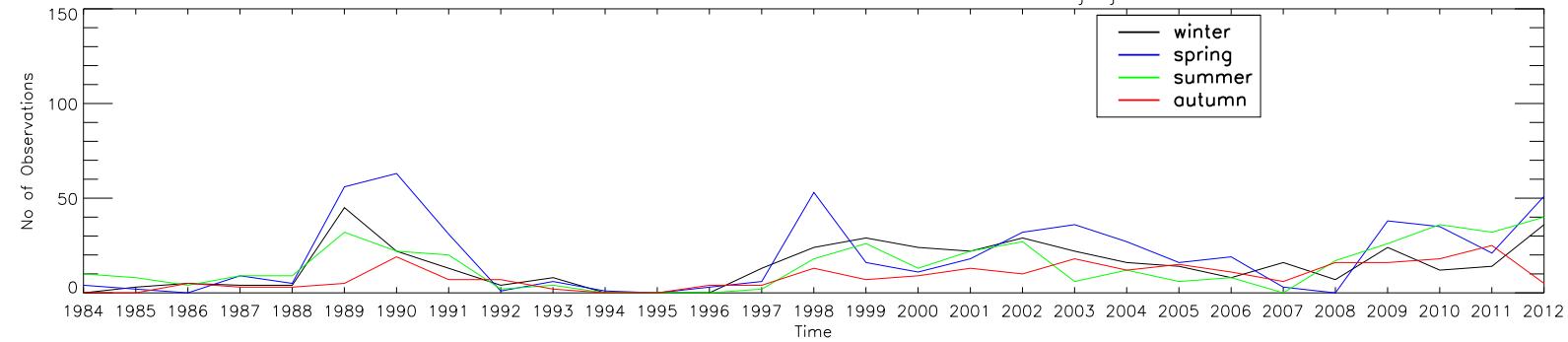
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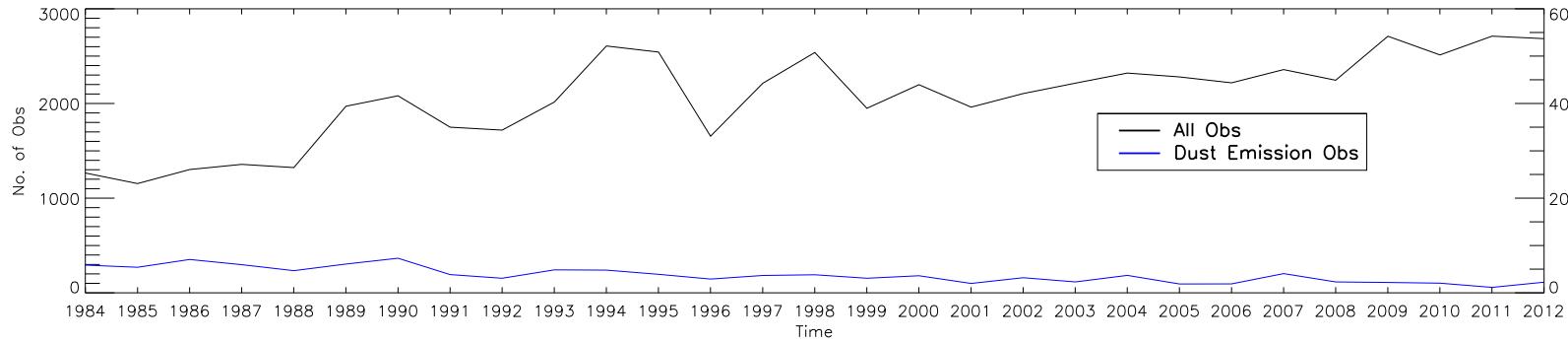
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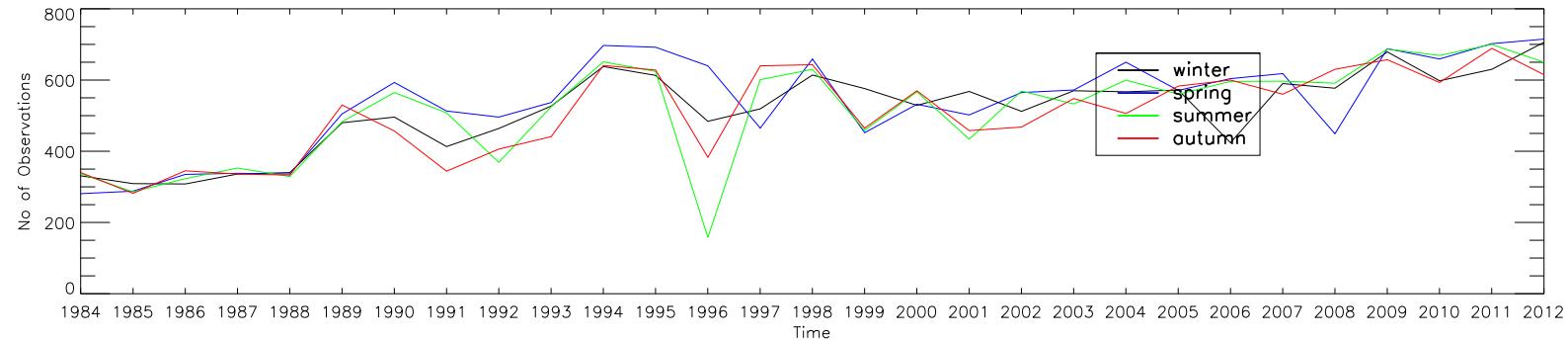
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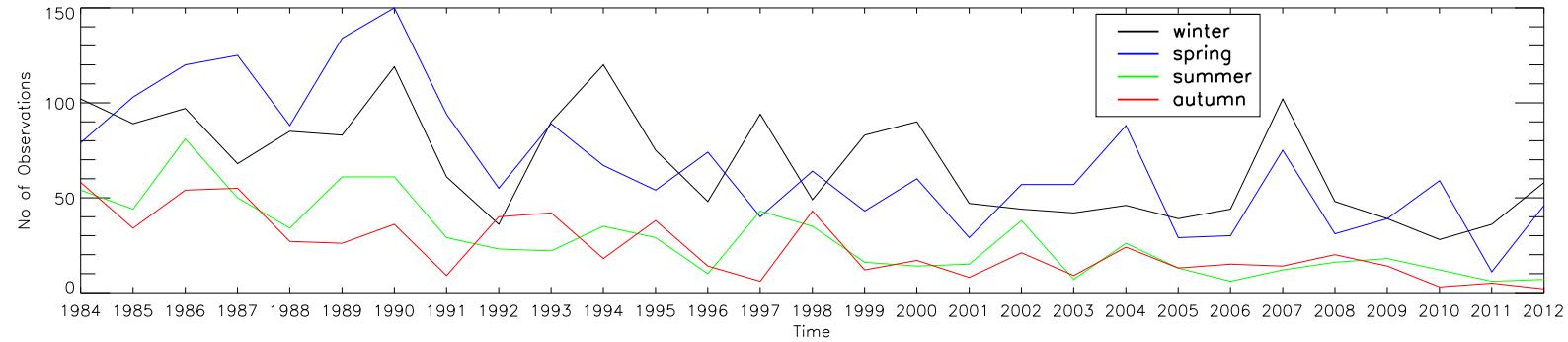
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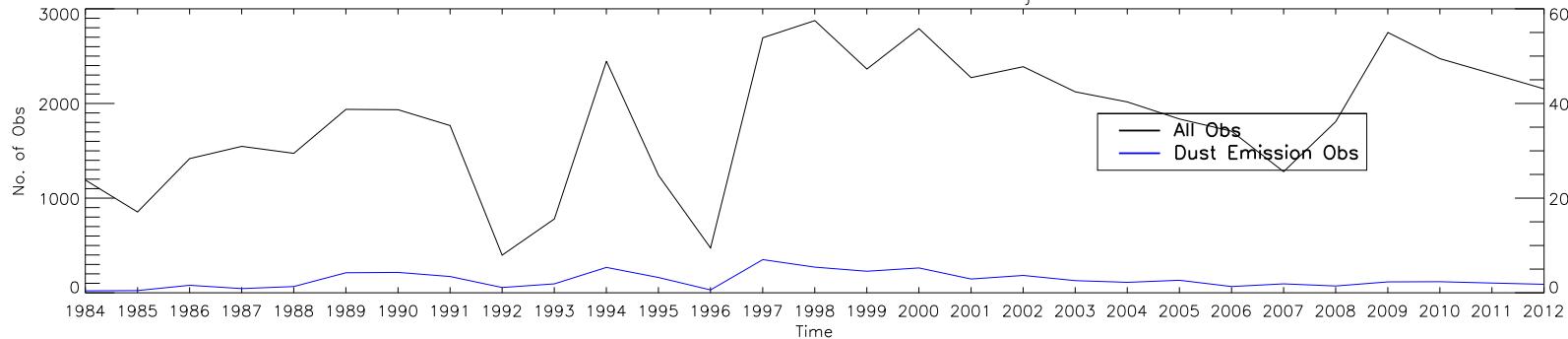
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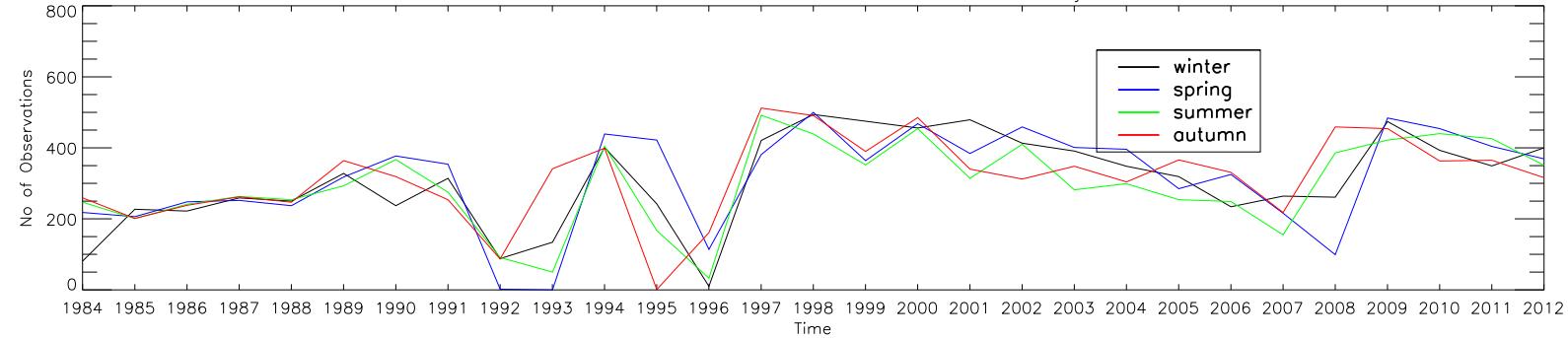
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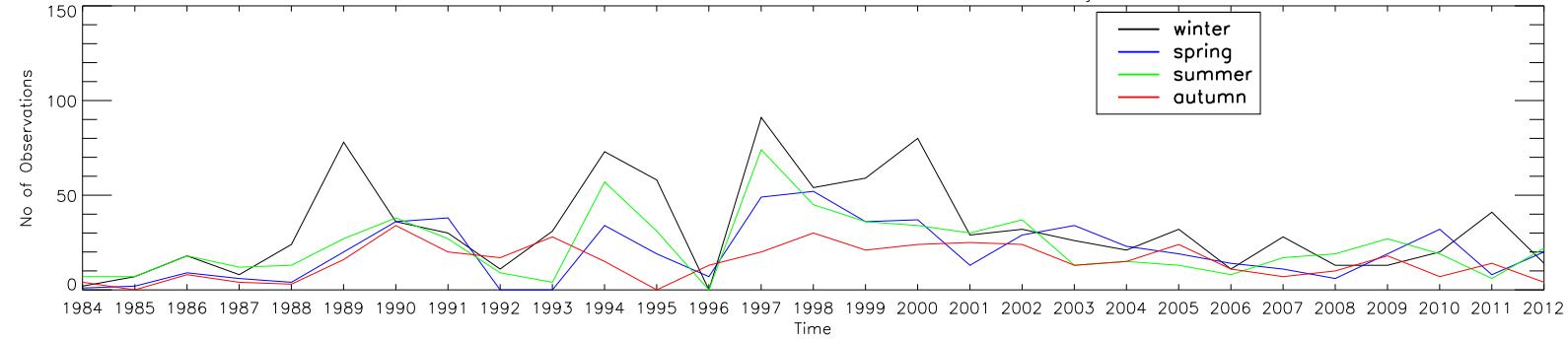
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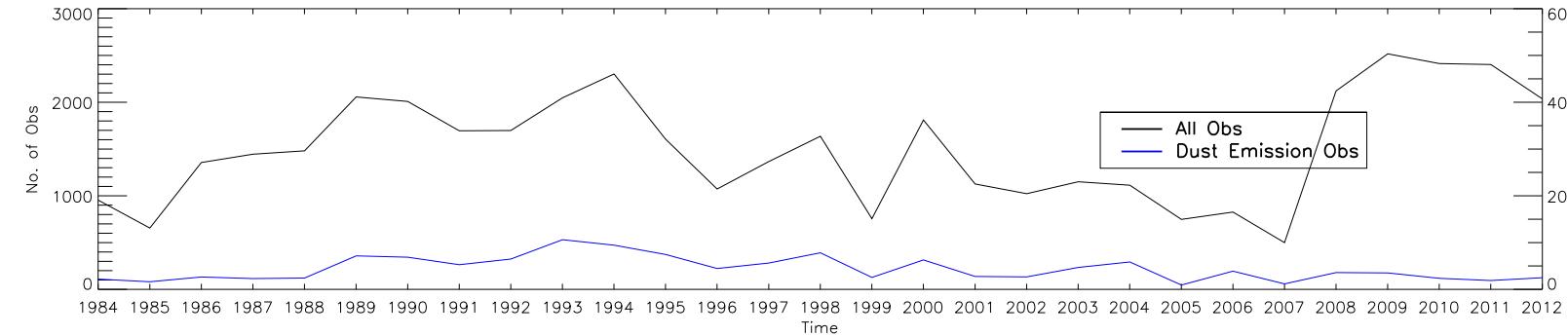
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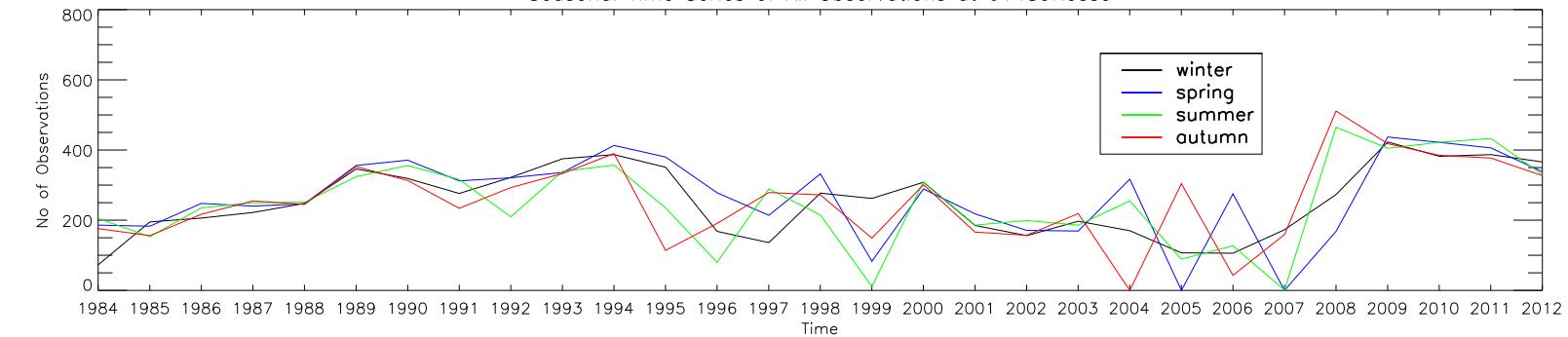
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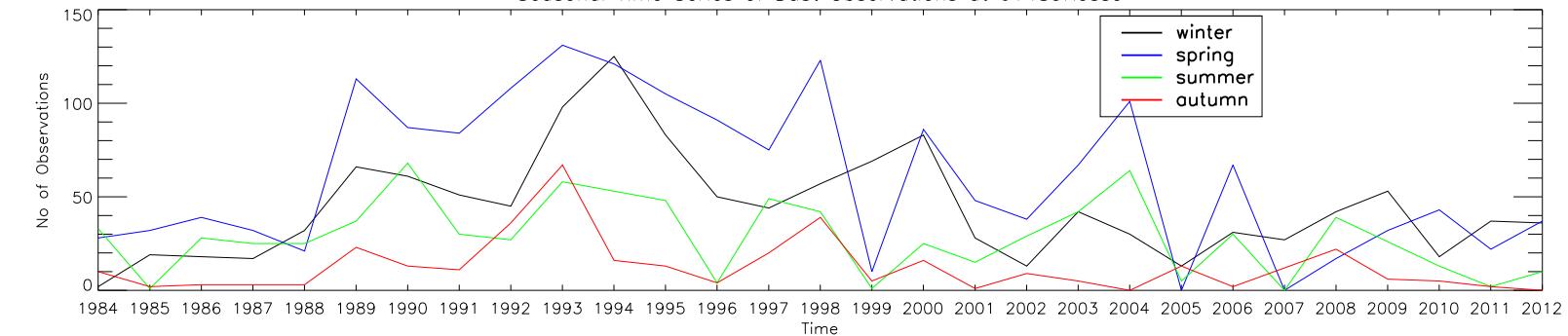
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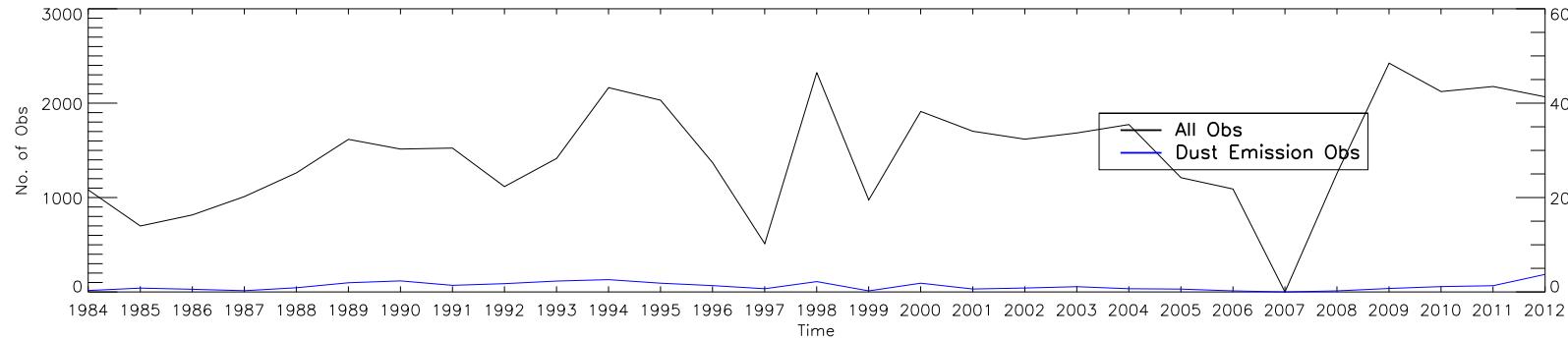
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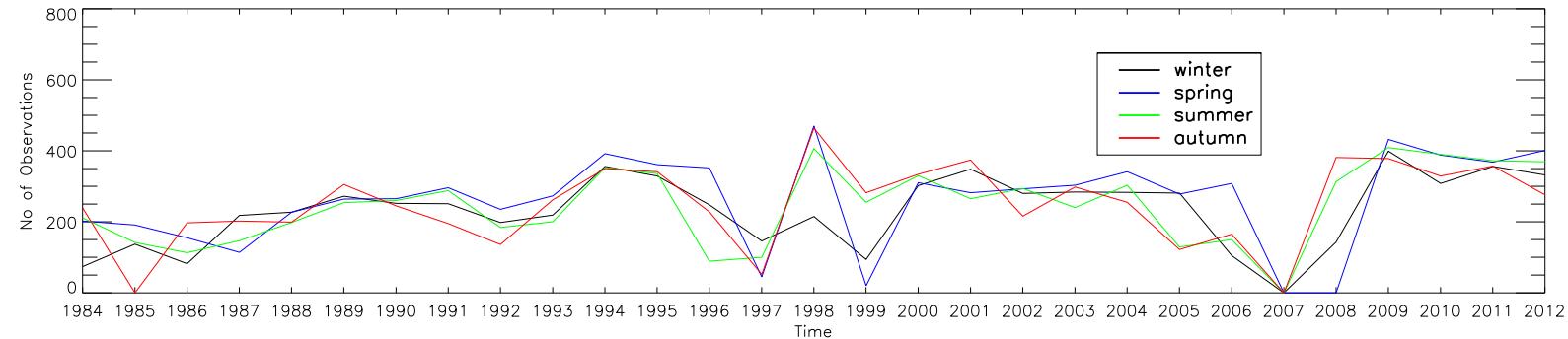
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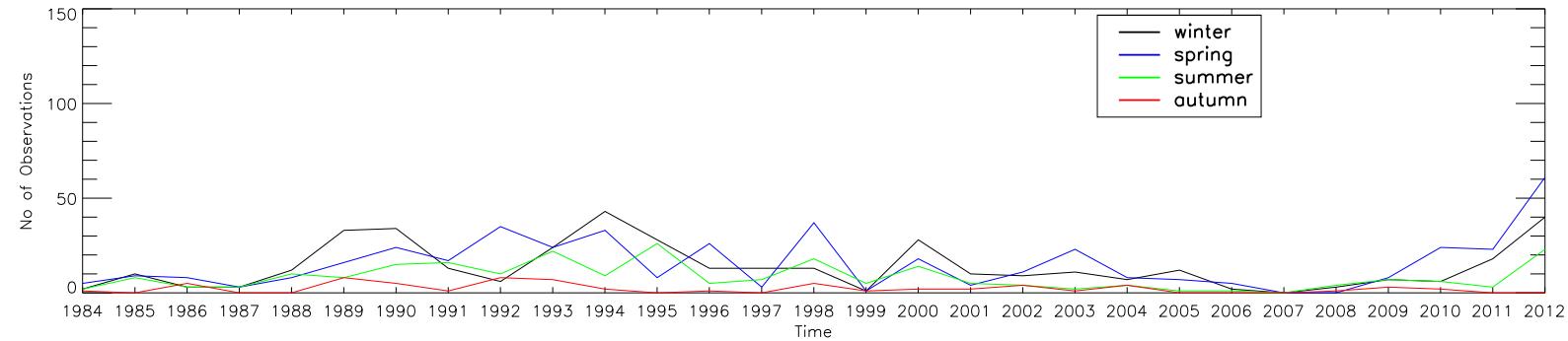
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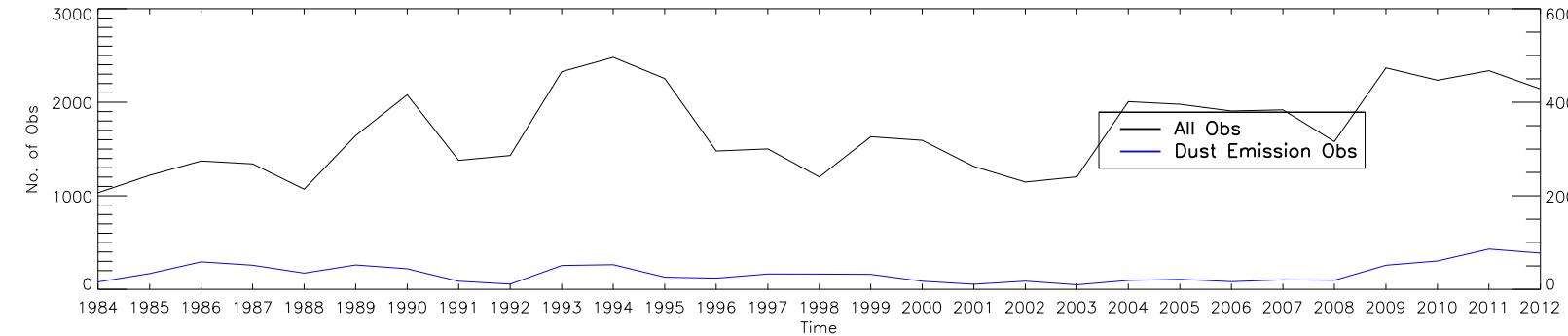
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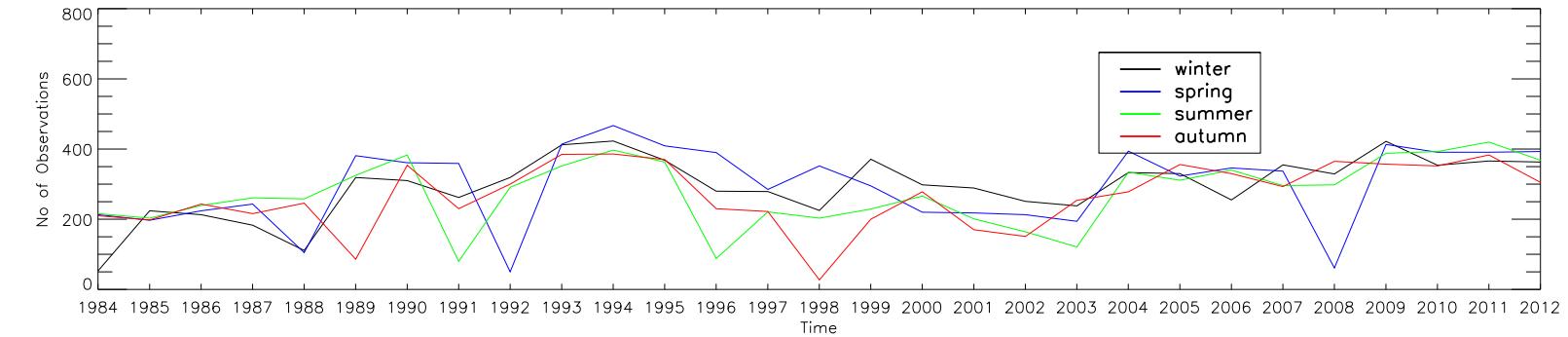
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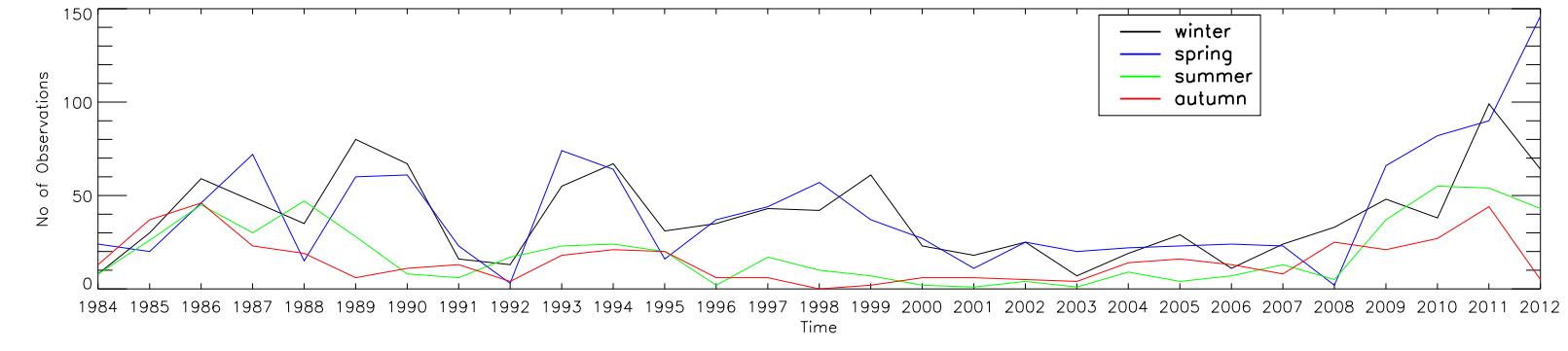
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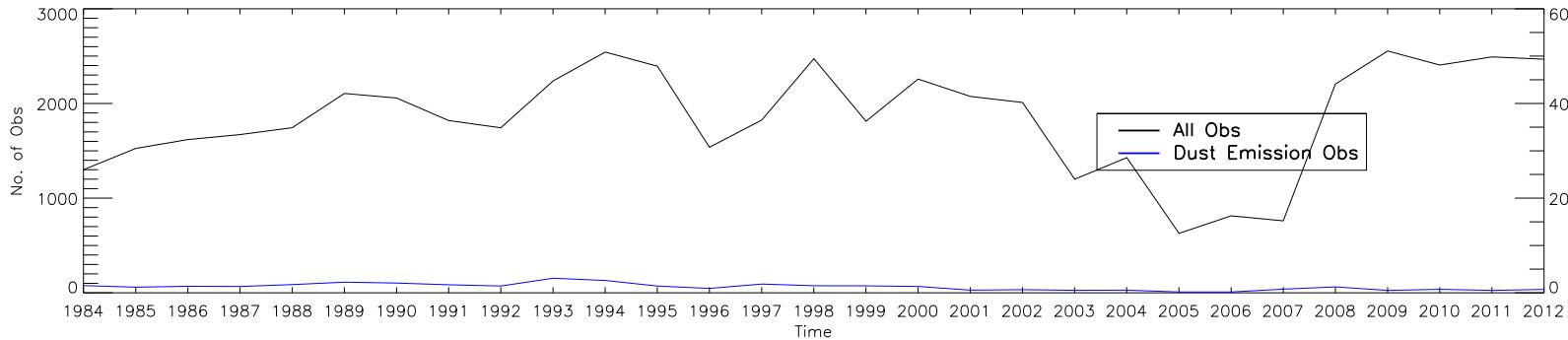
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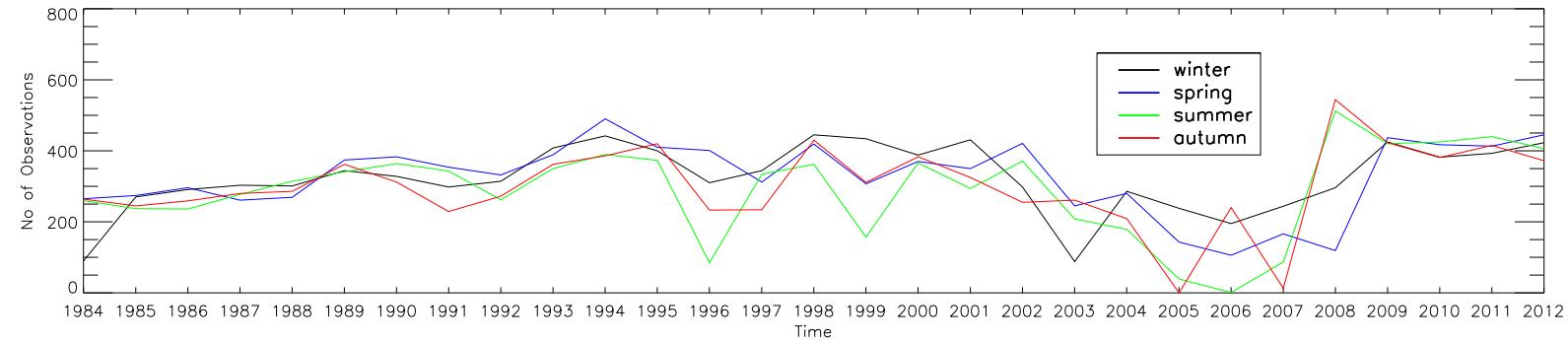
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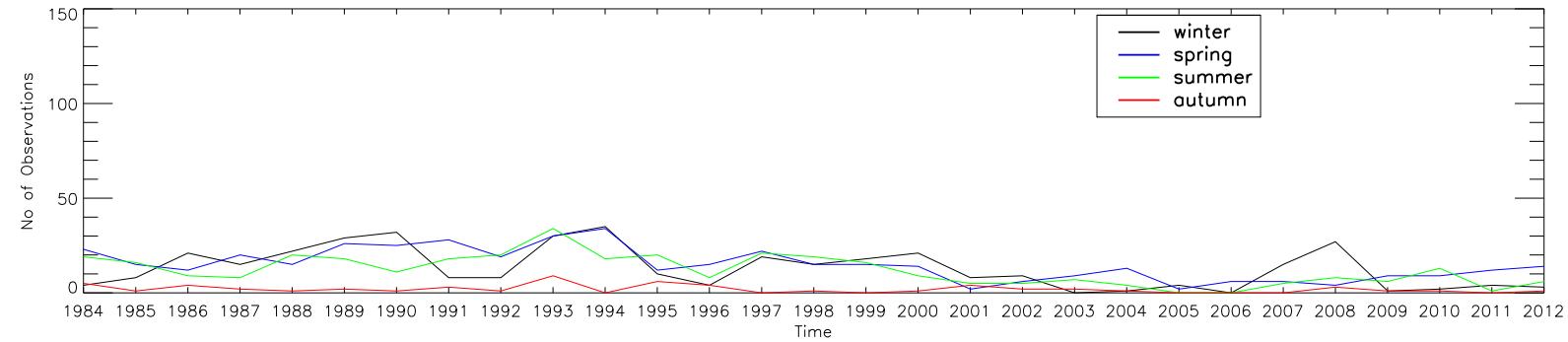
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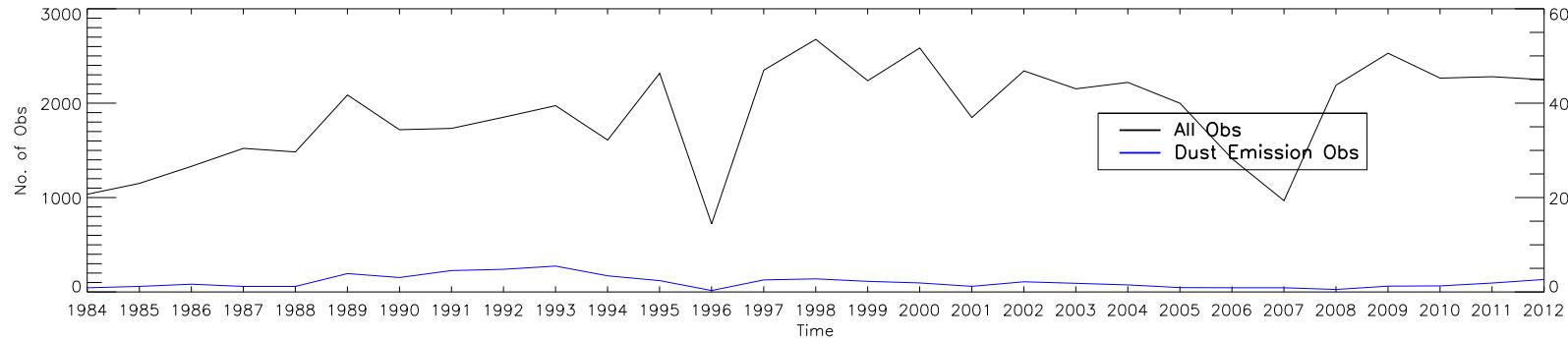
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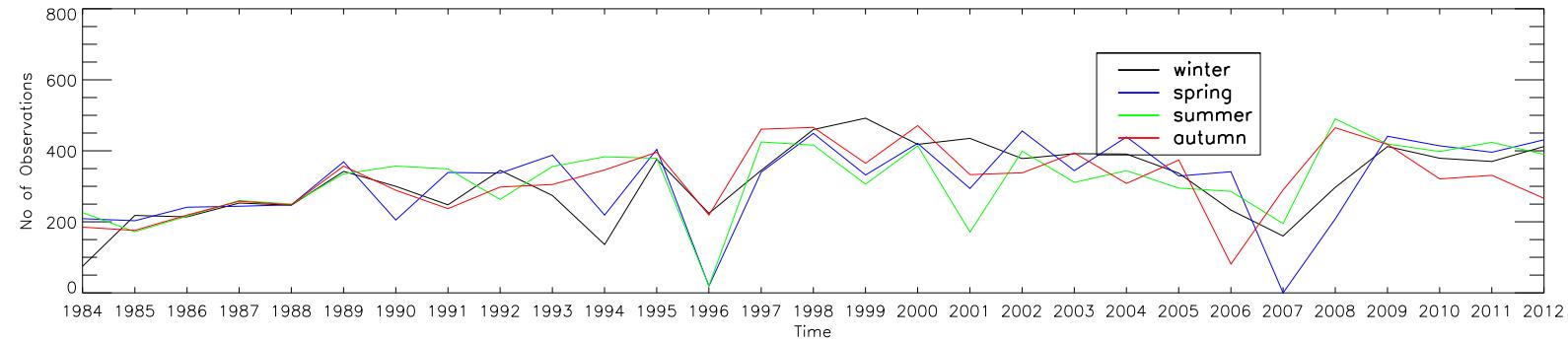
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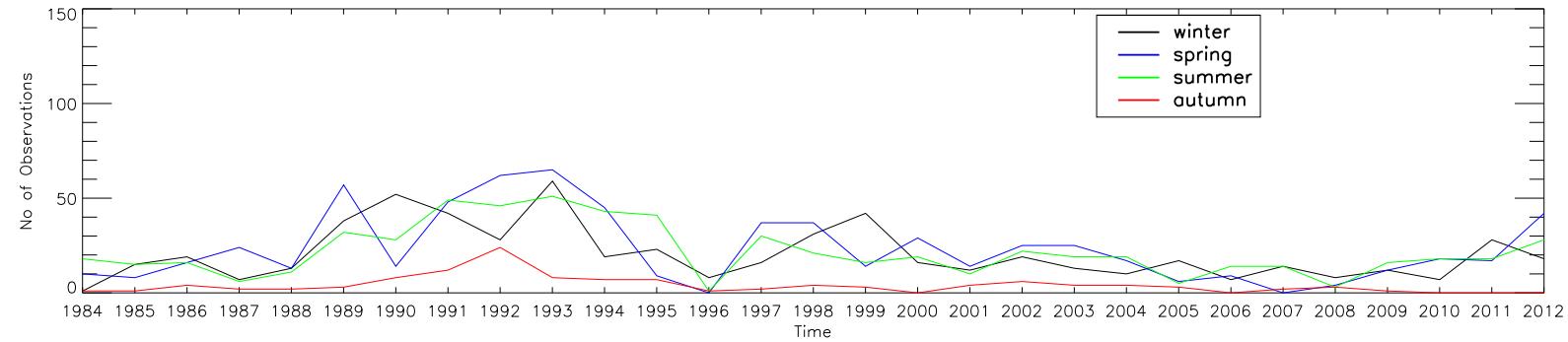
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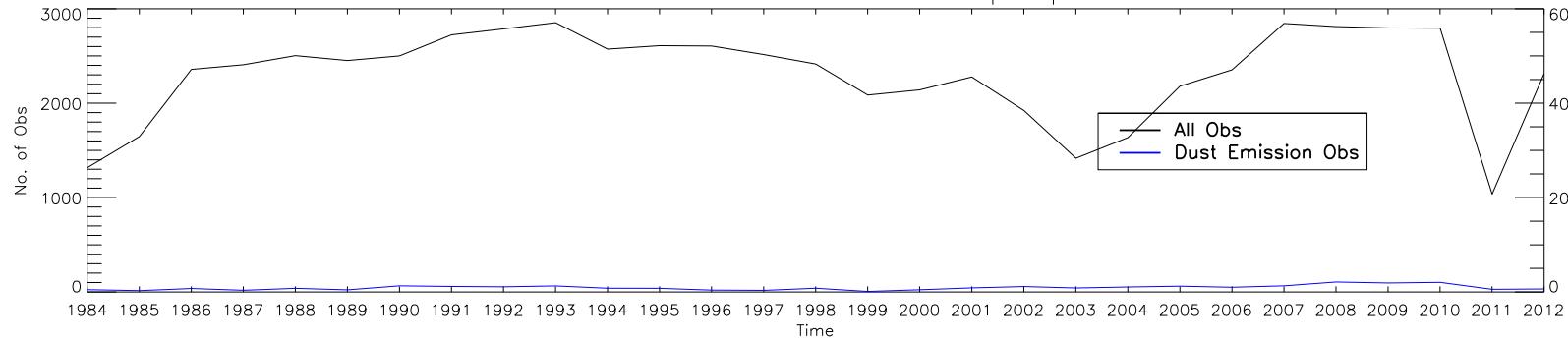
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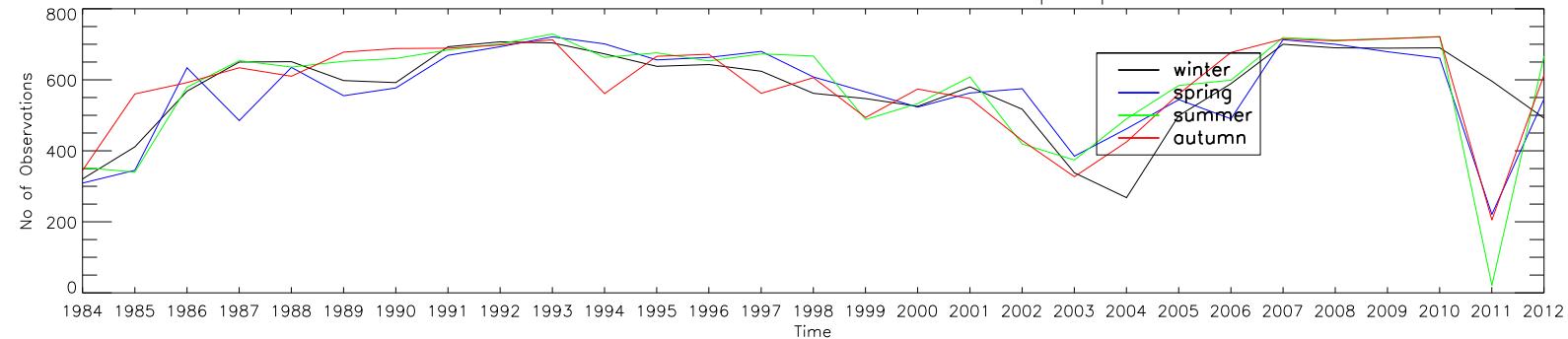
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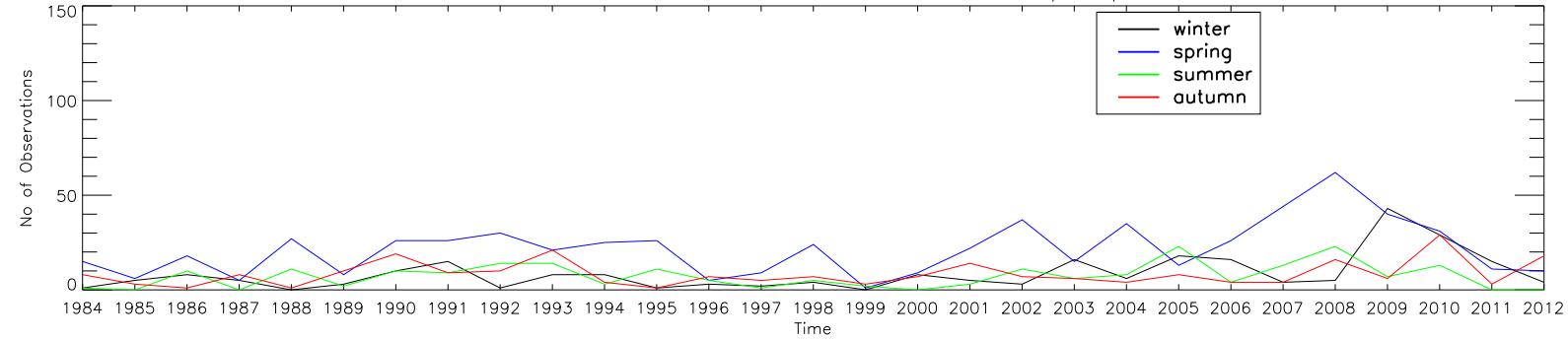
Time Series of All Observations at 62010TripoliAirport



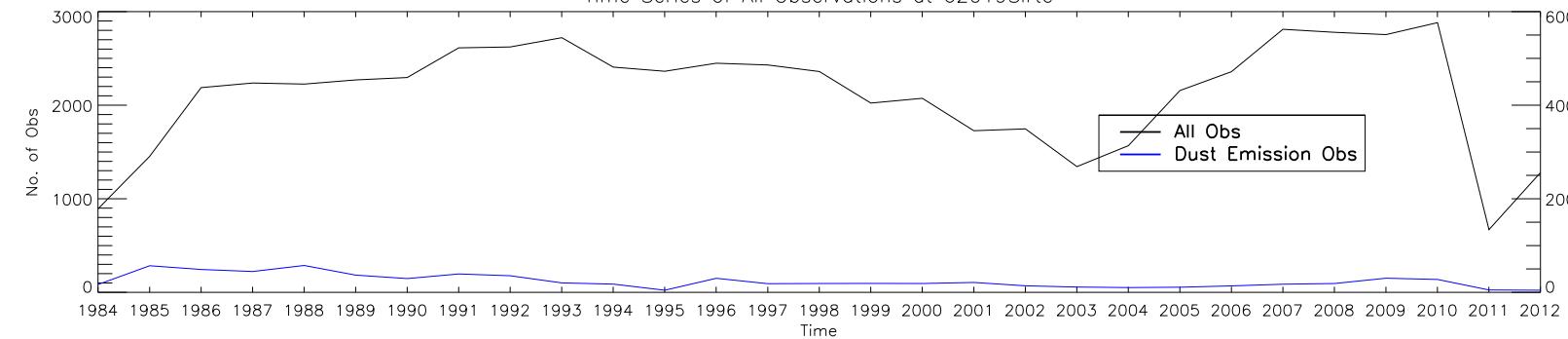
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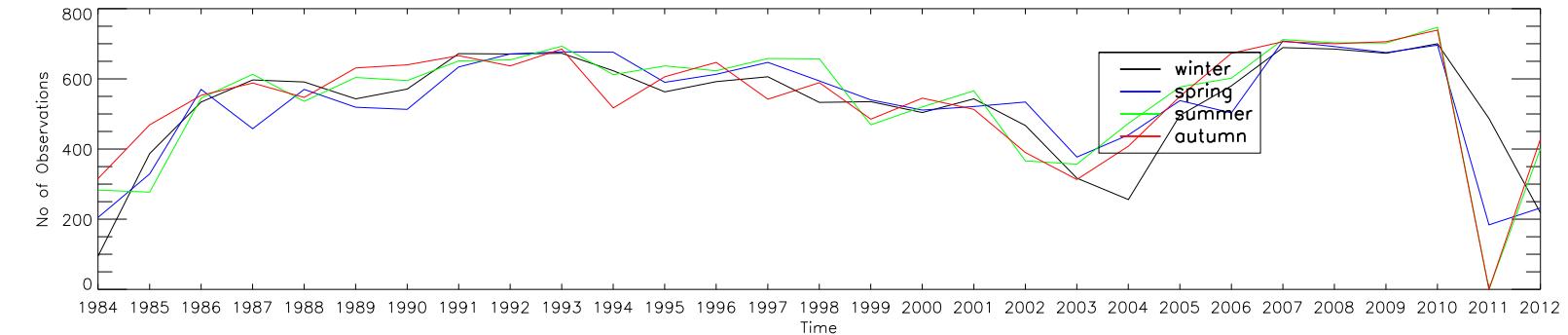
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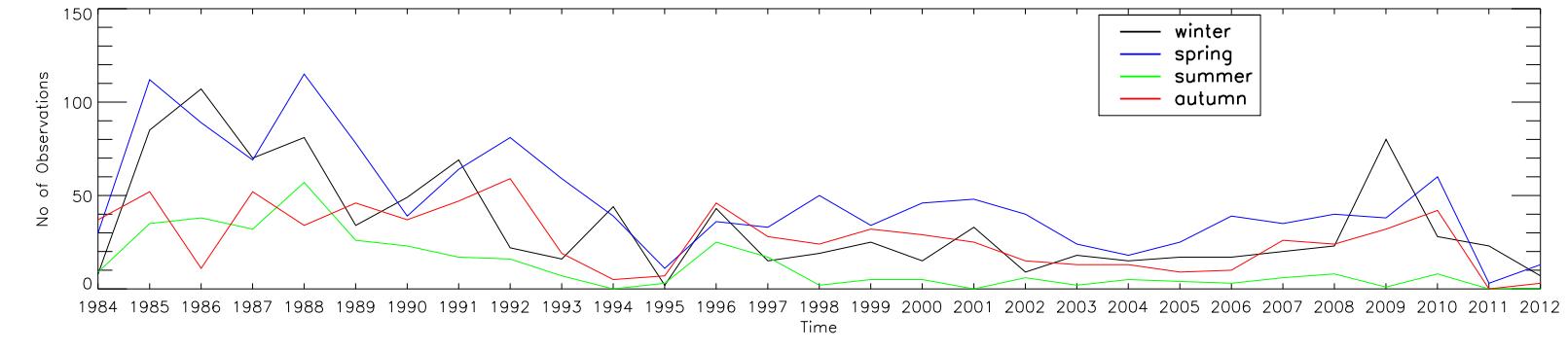
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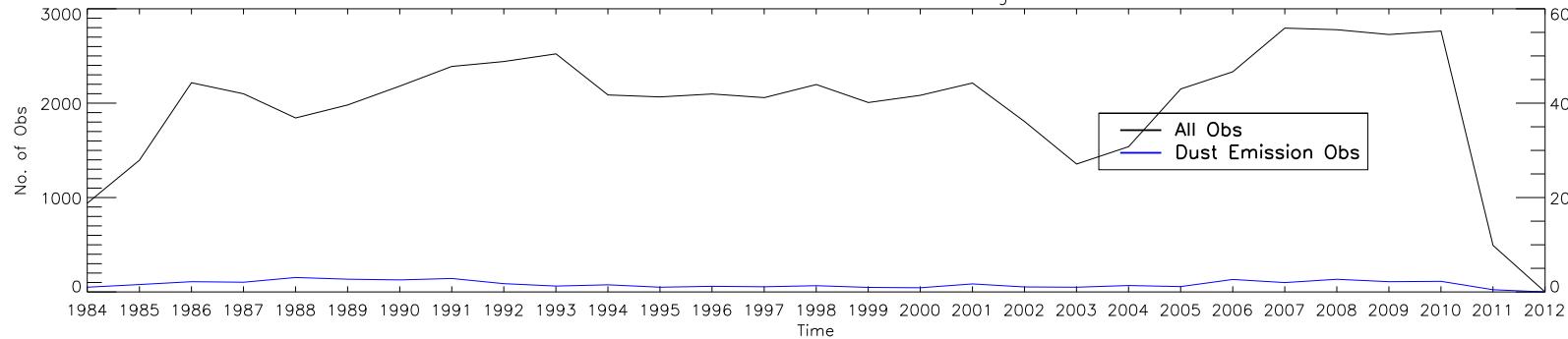
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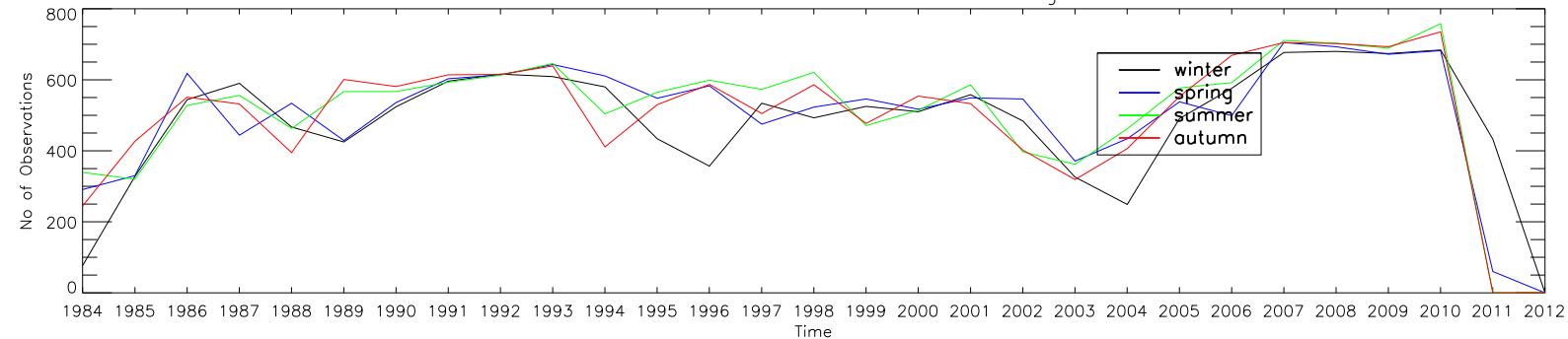
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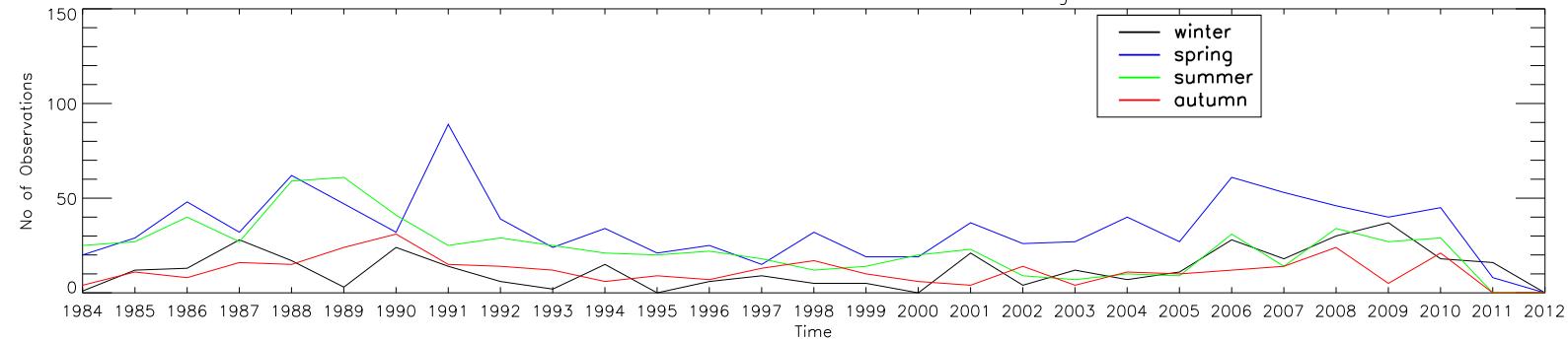
Time Series of All Observations at 62055Agedabia



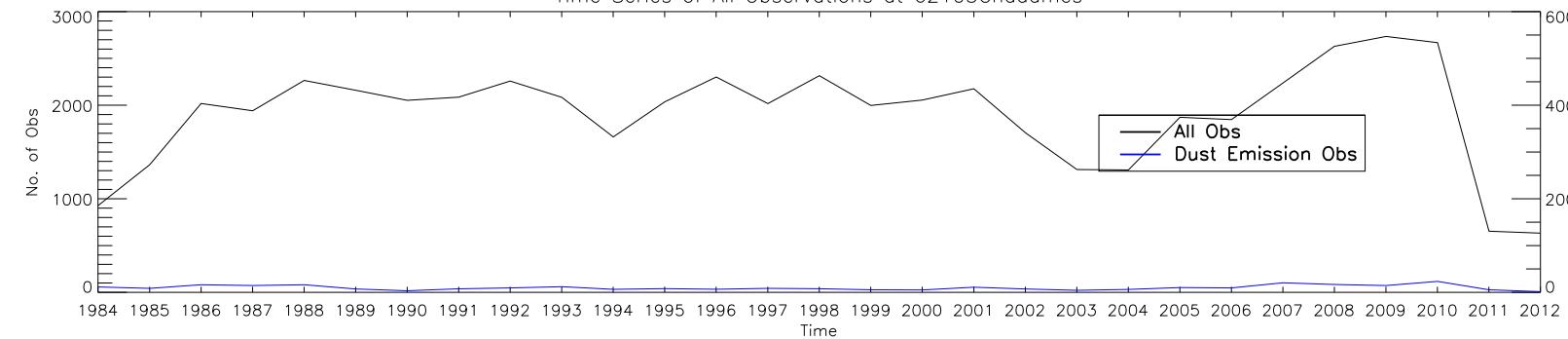
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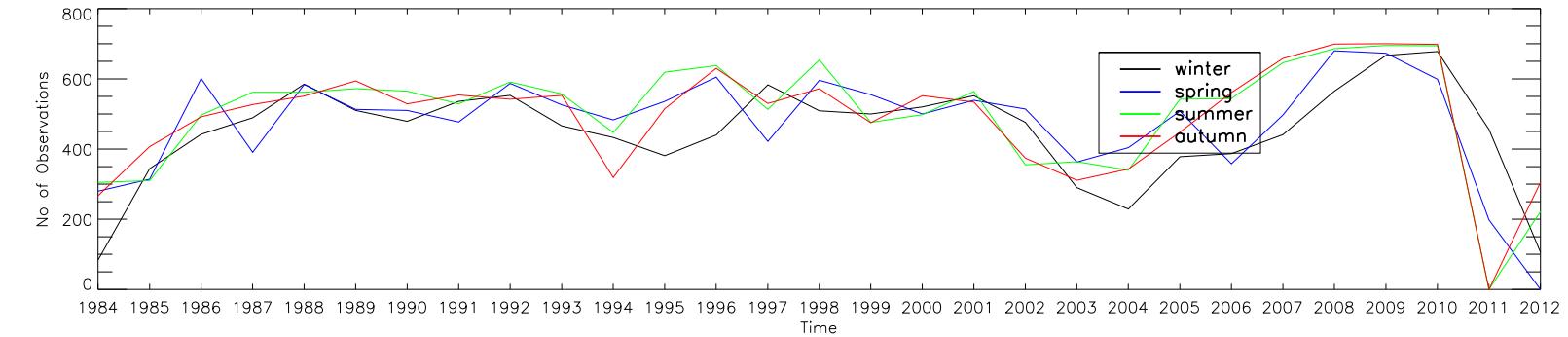
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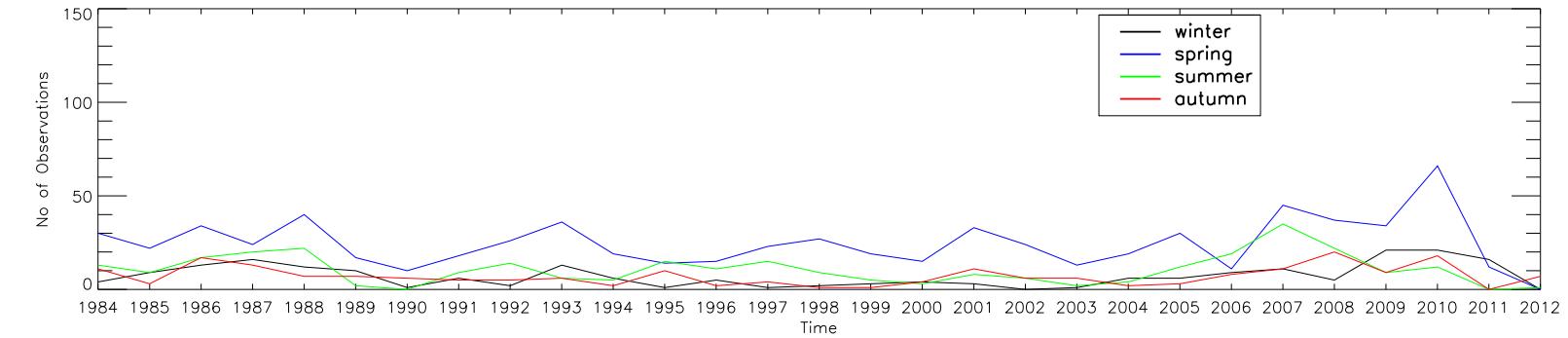
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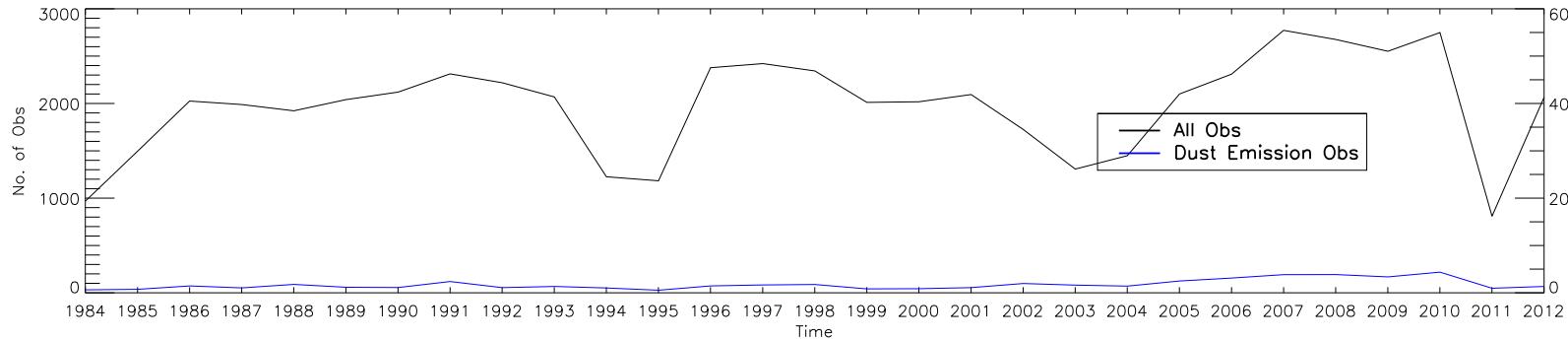
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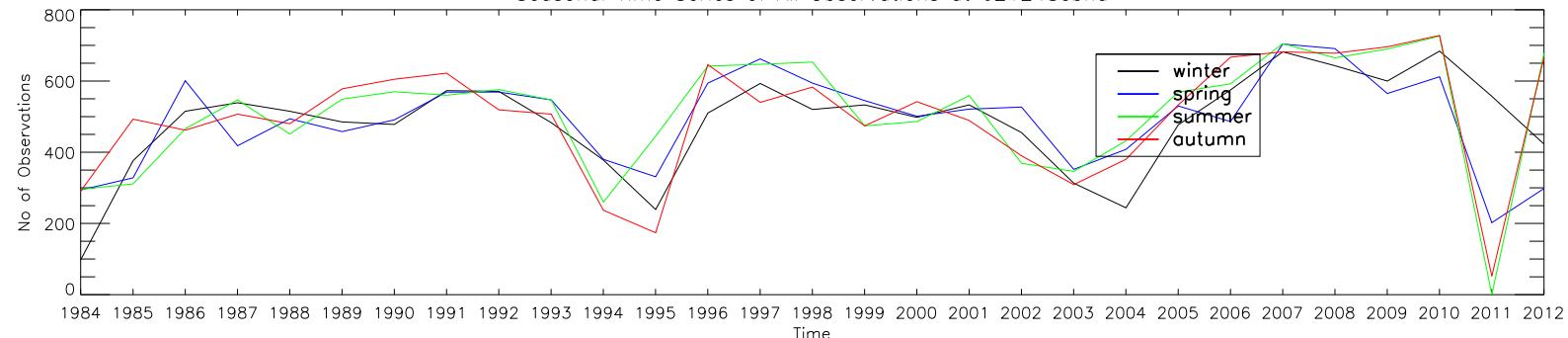
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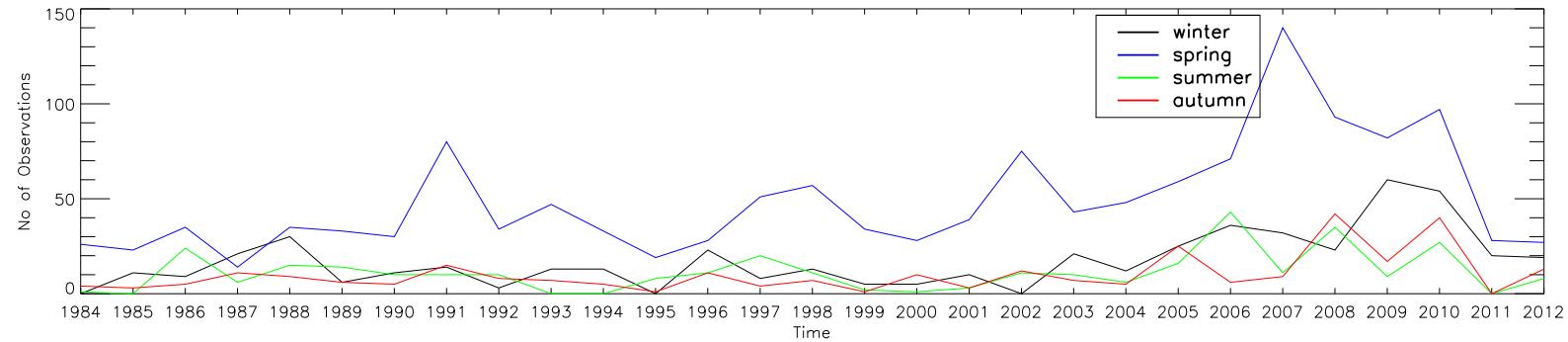
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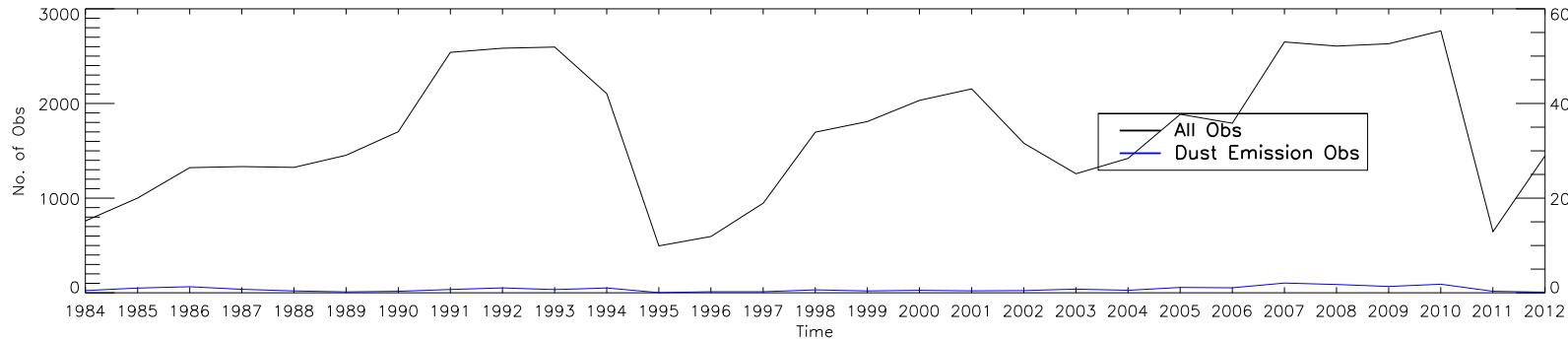
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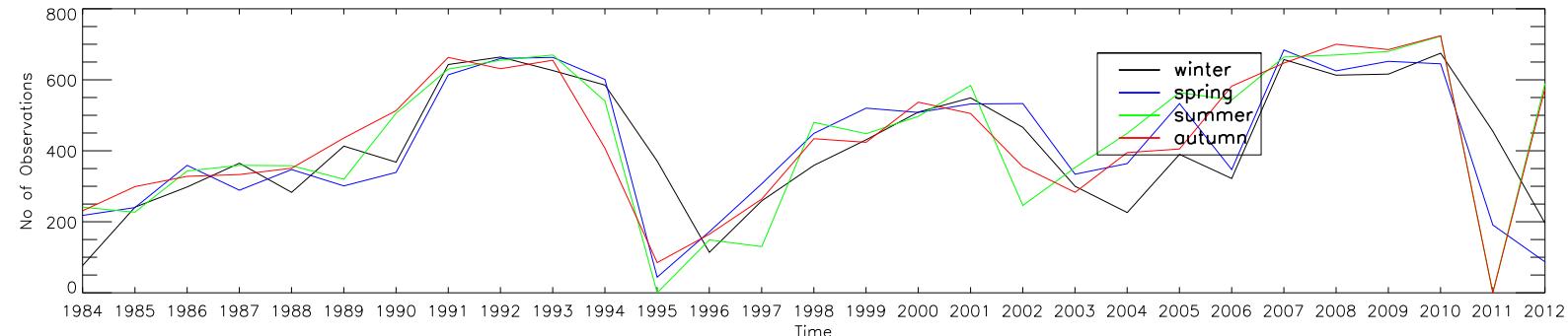
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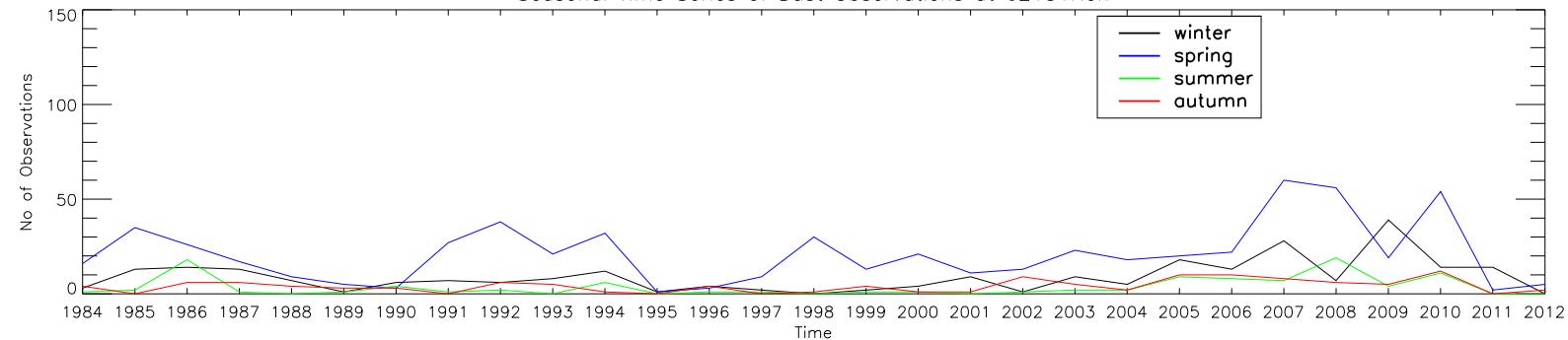
Time Series of All Observations at 62131Hon



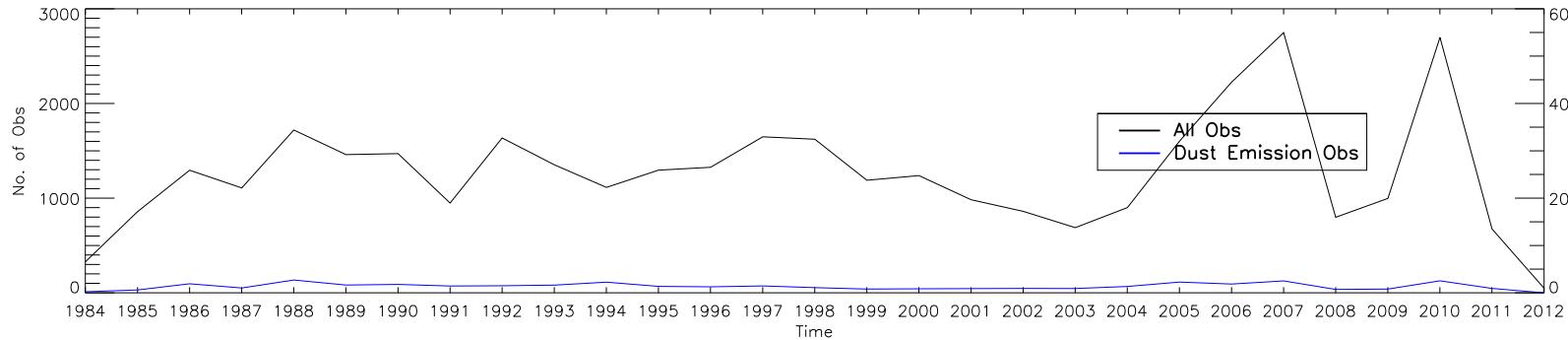
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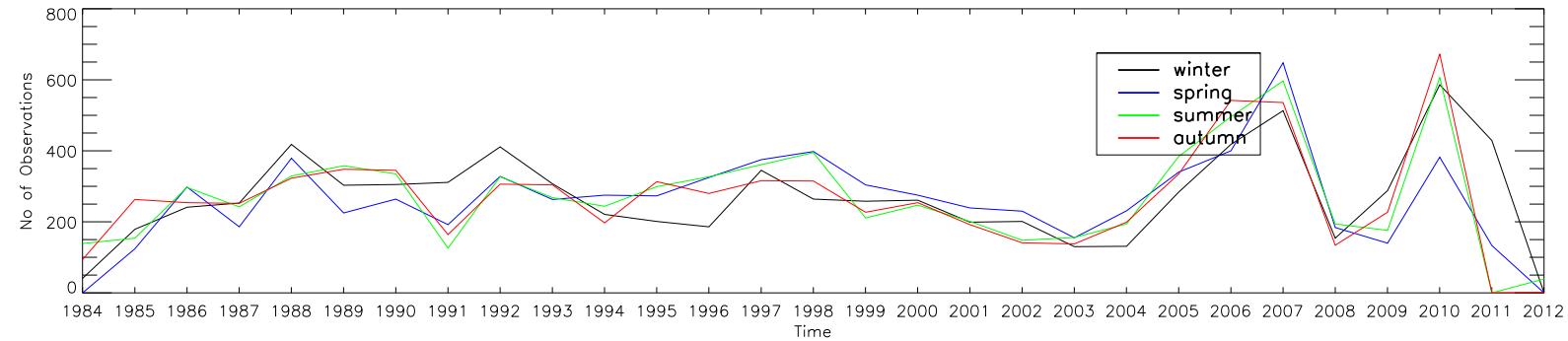
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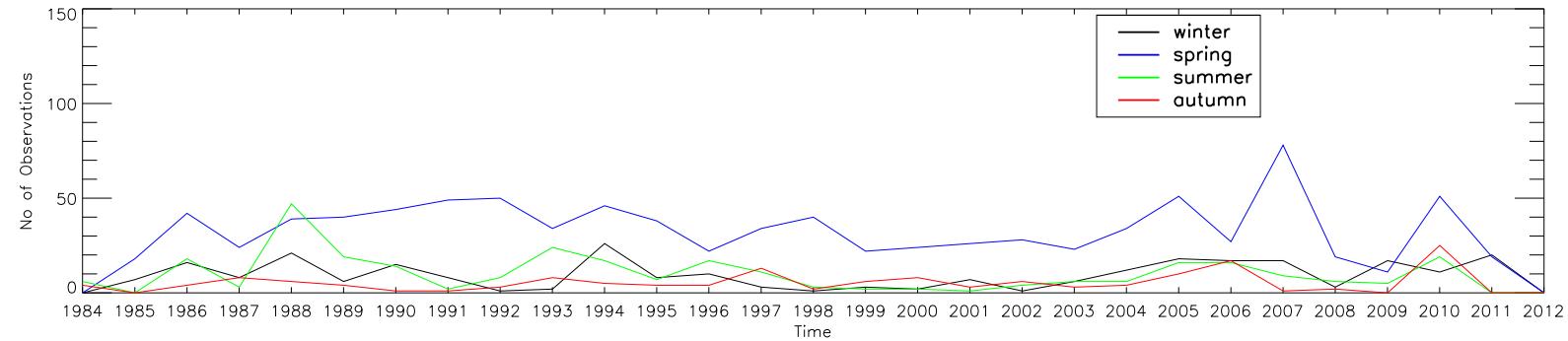
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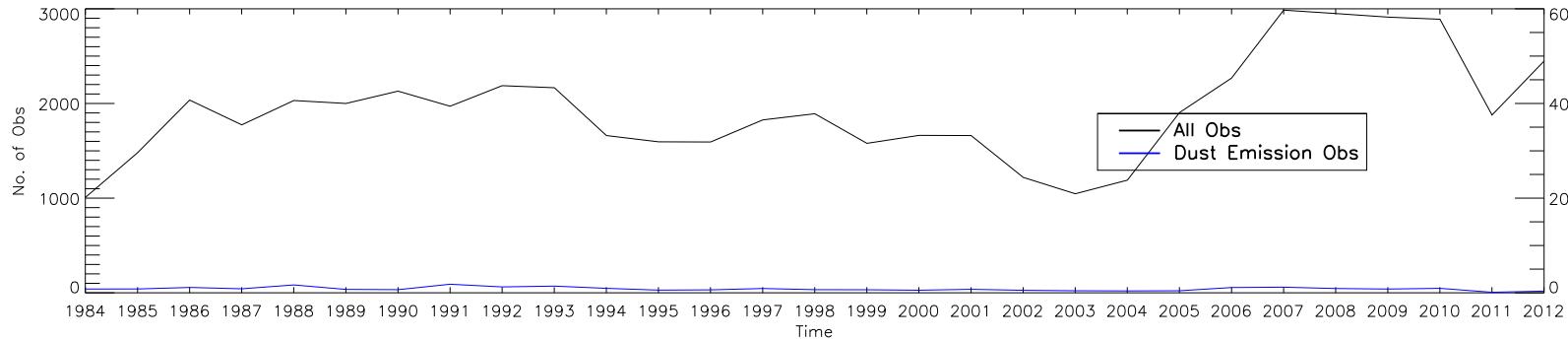
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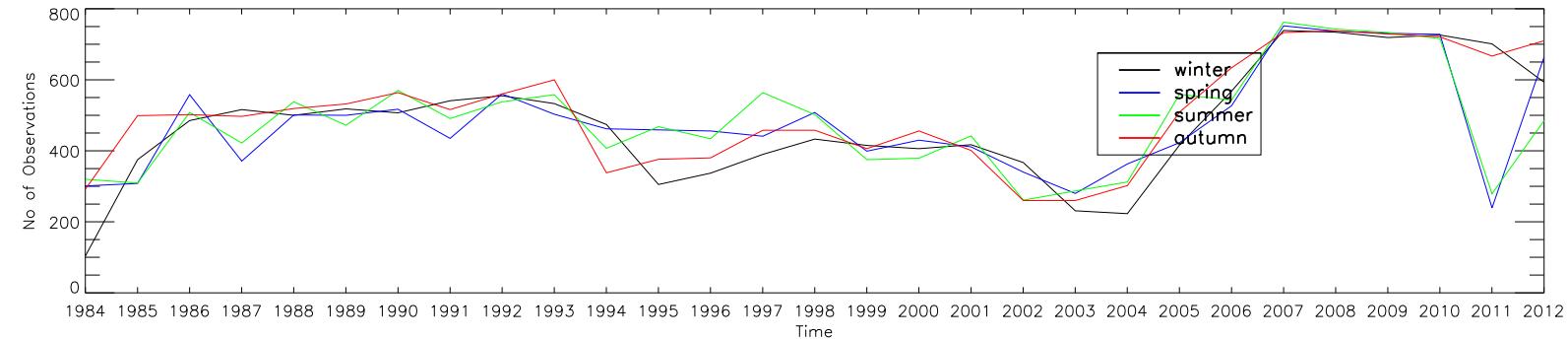
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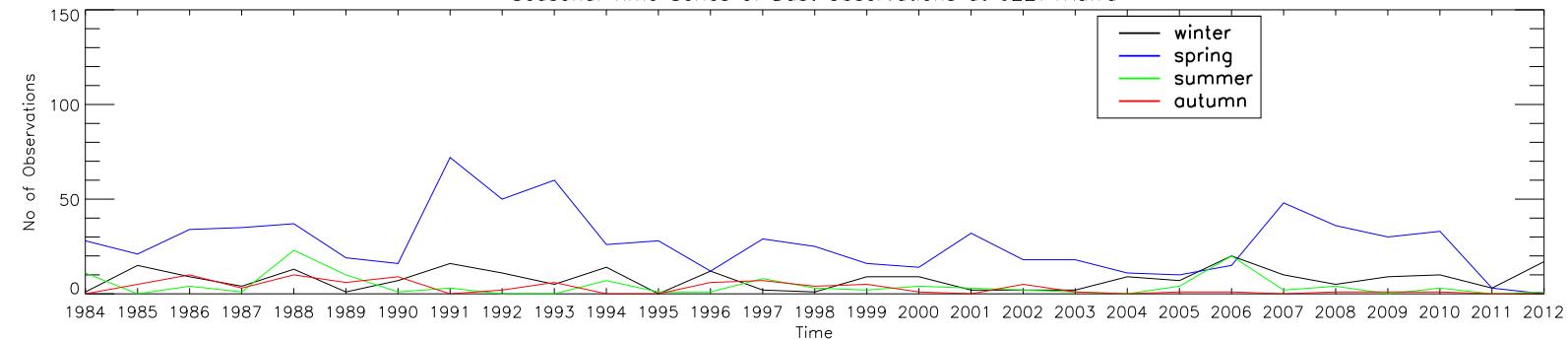
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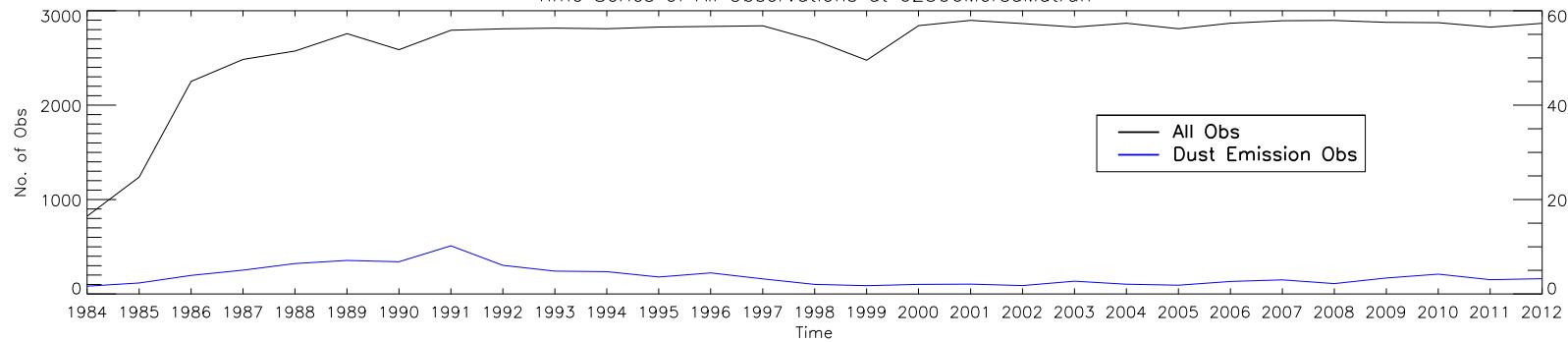
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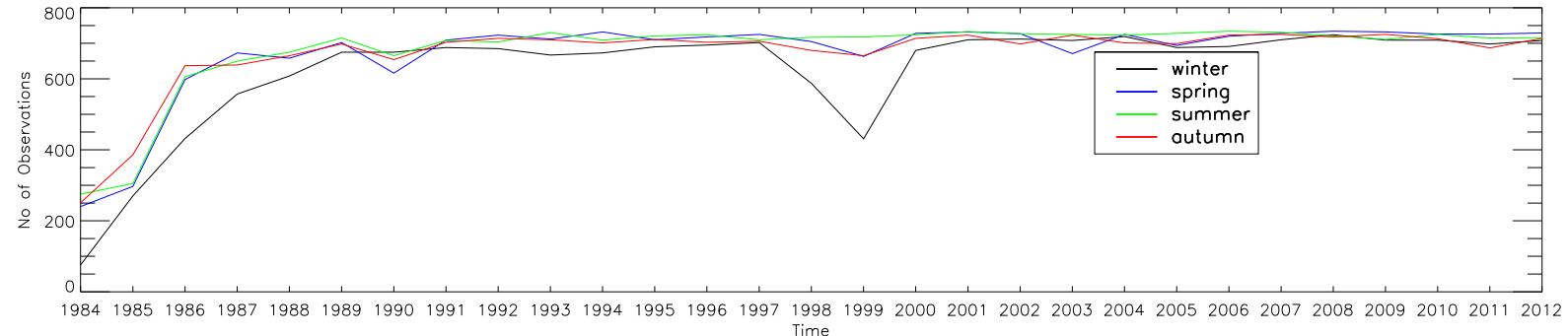
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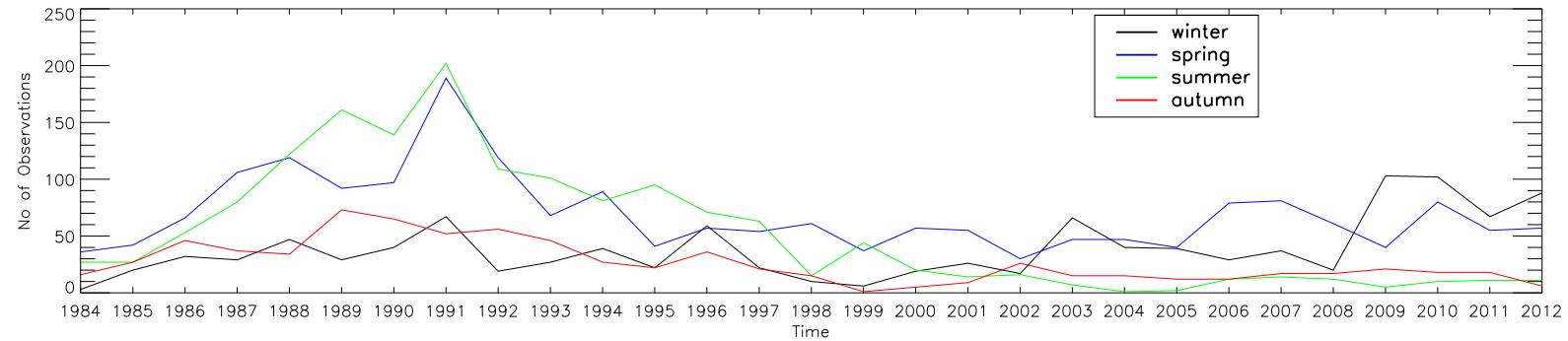
Time Series of All Observations at 62306MersaMatruh



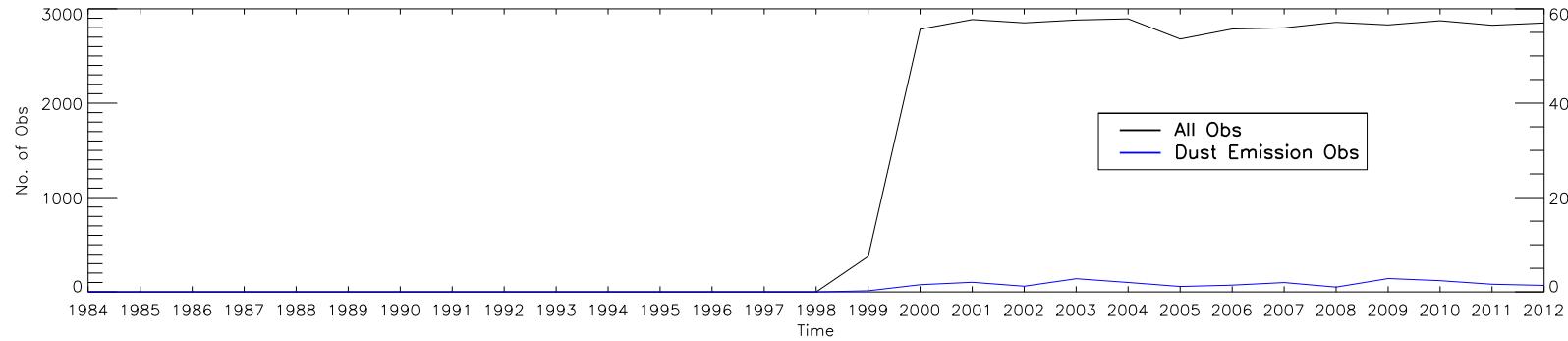
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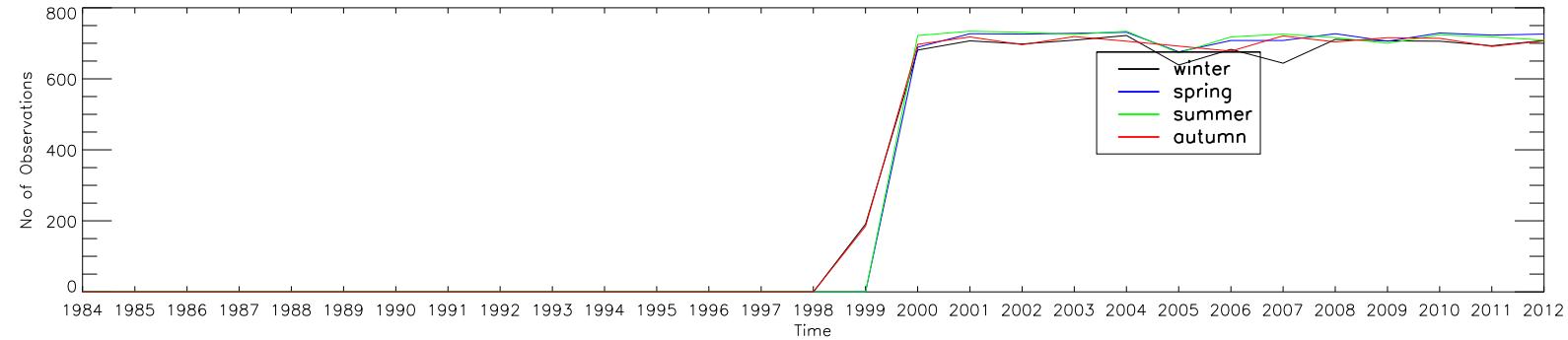
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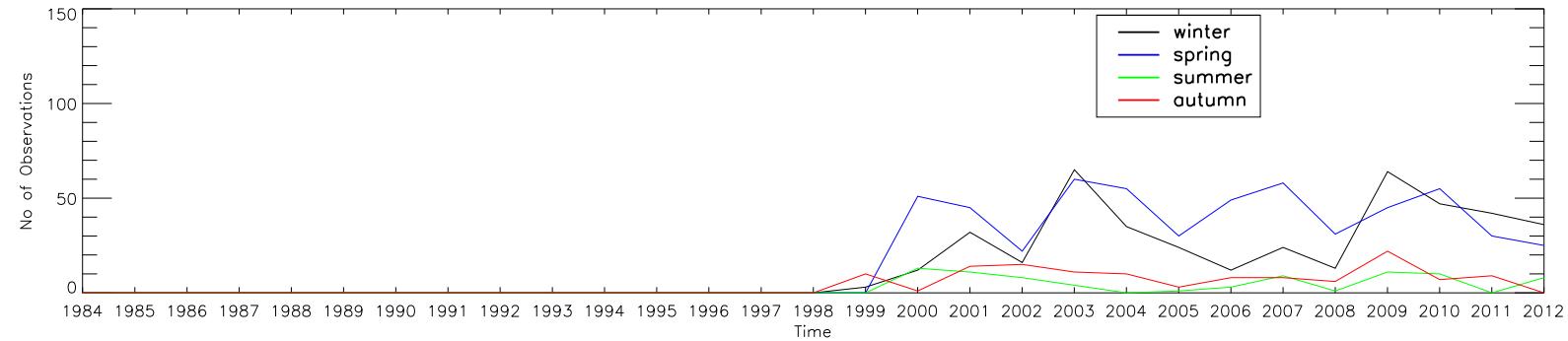
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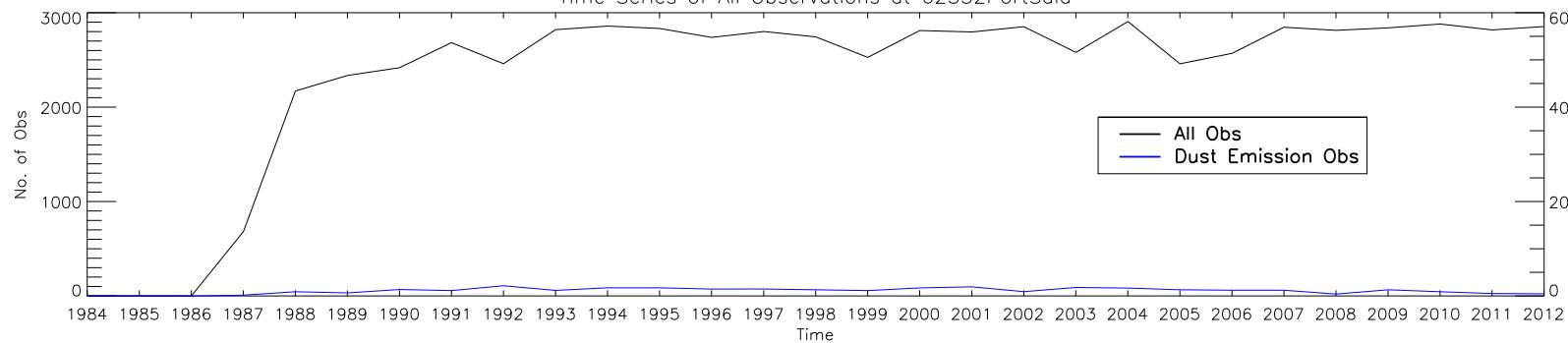
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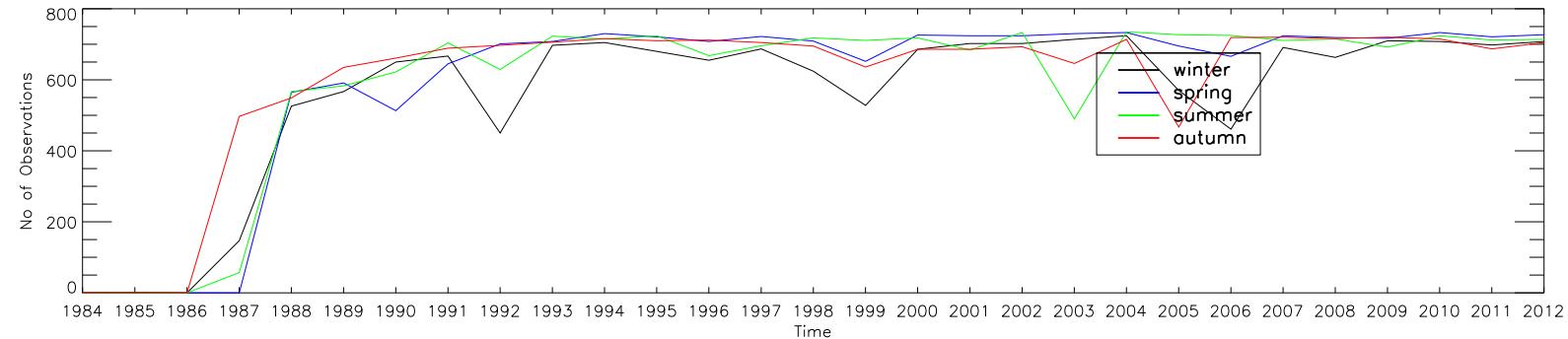
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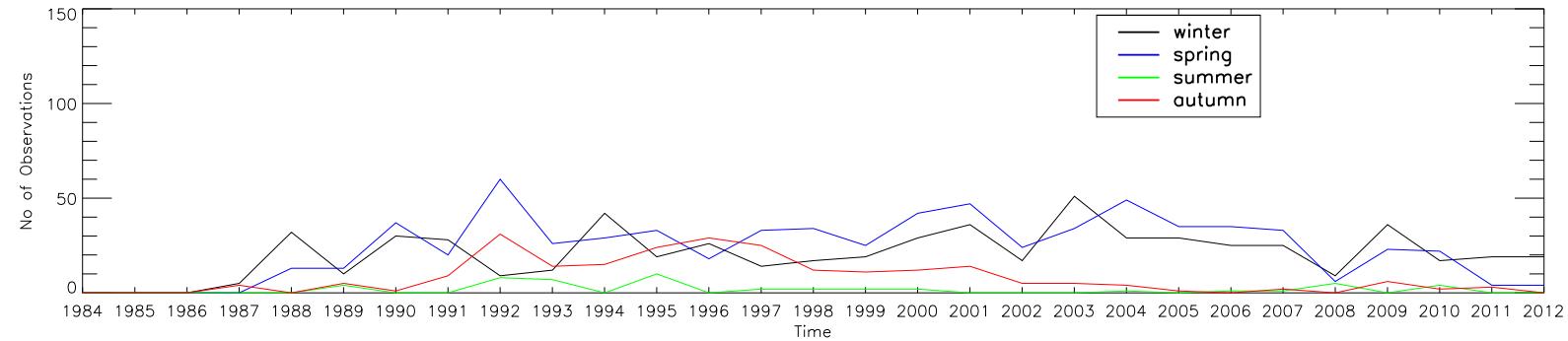
Time Series of All Observations at 62332PortSaid



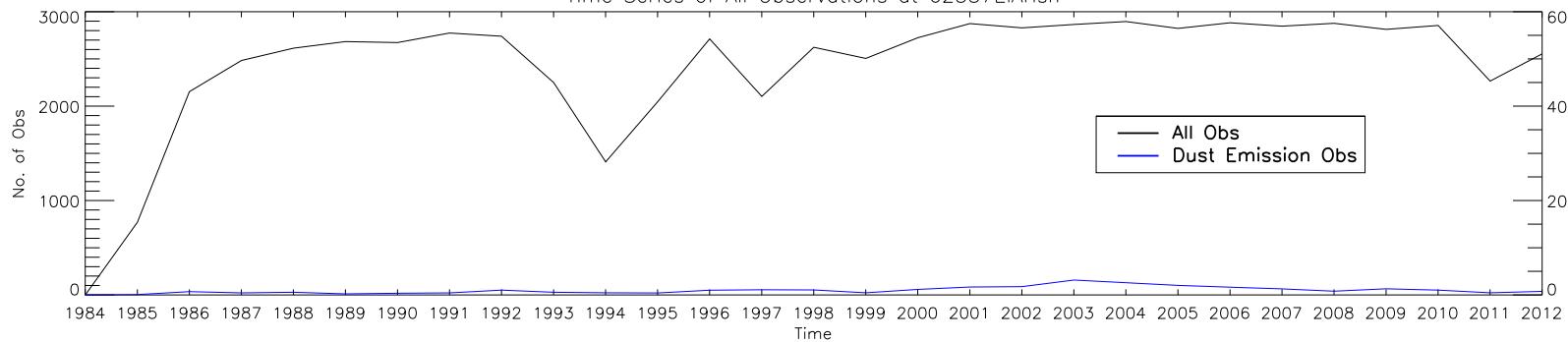
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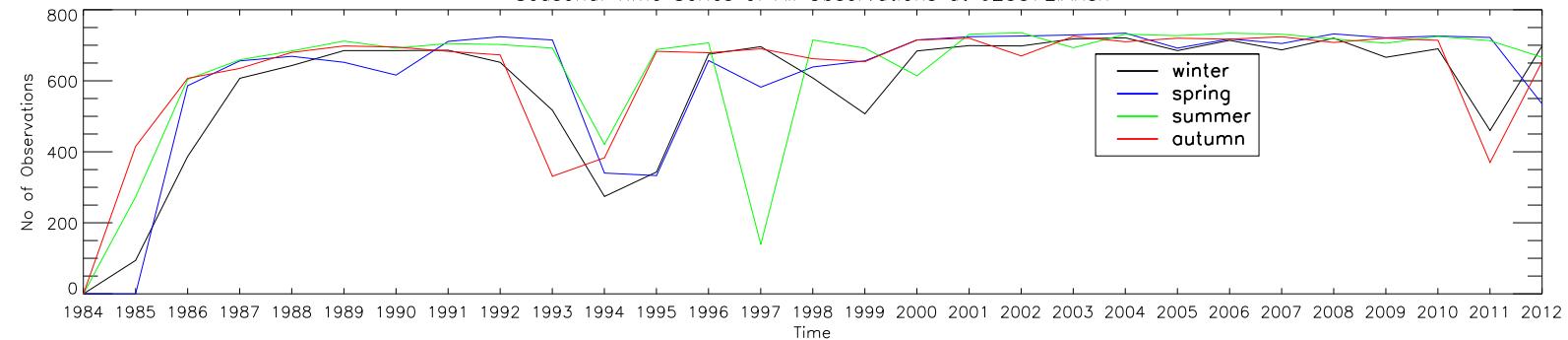
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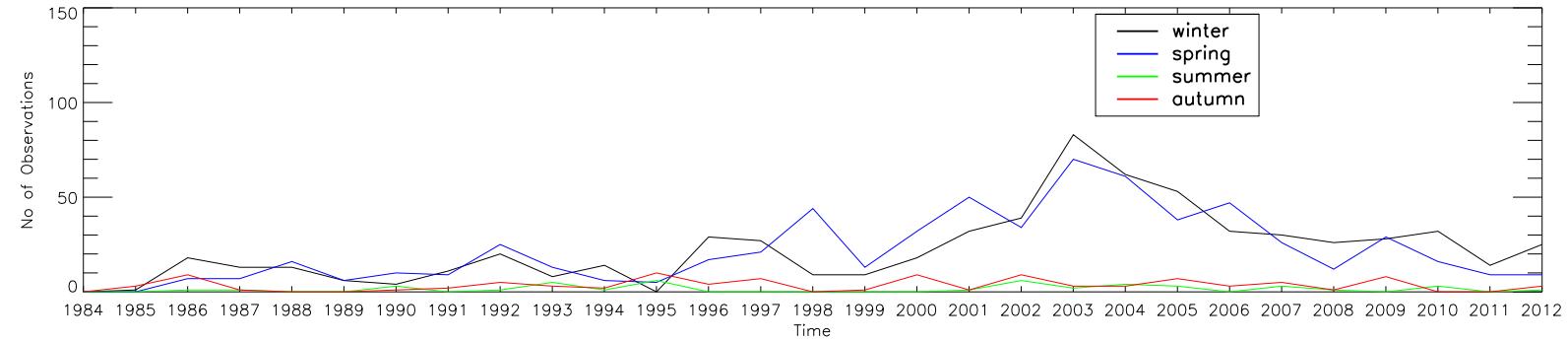
Time Series of All Observations at 62337ElArish



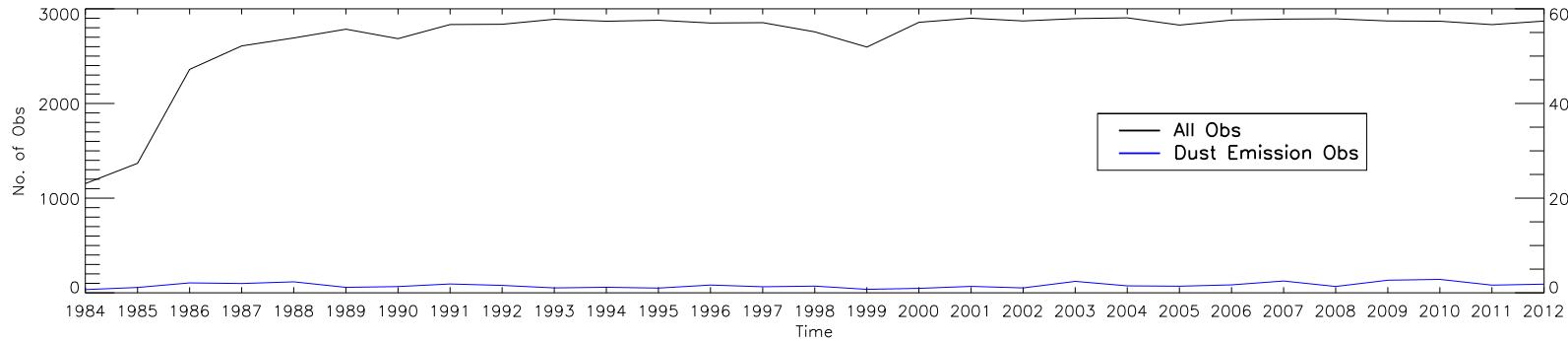
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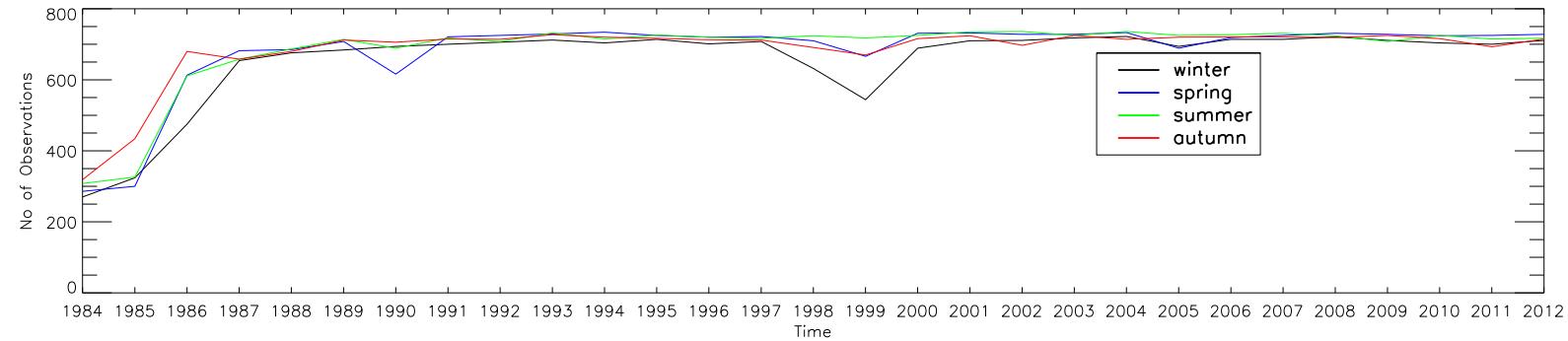
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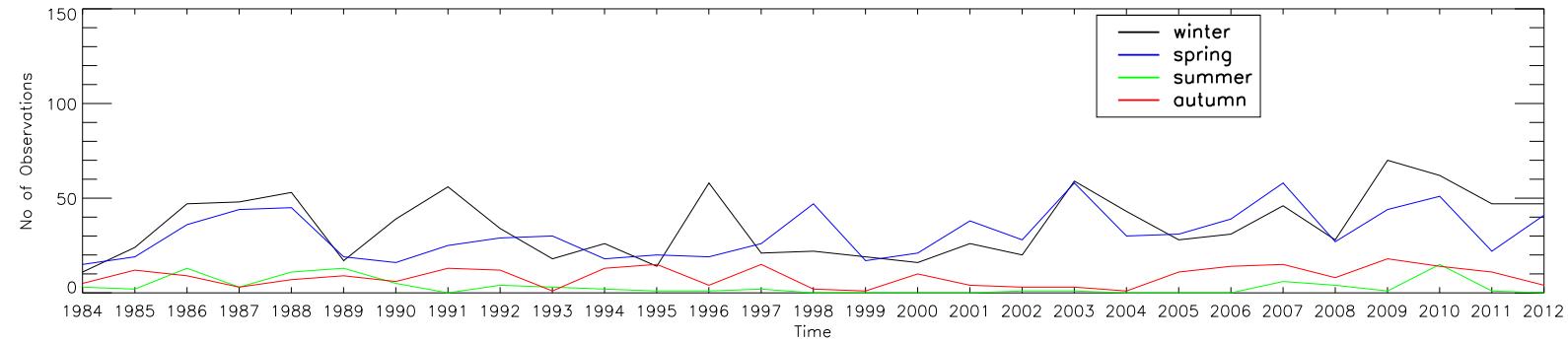
Time Series of All Observations at 62366Cairo



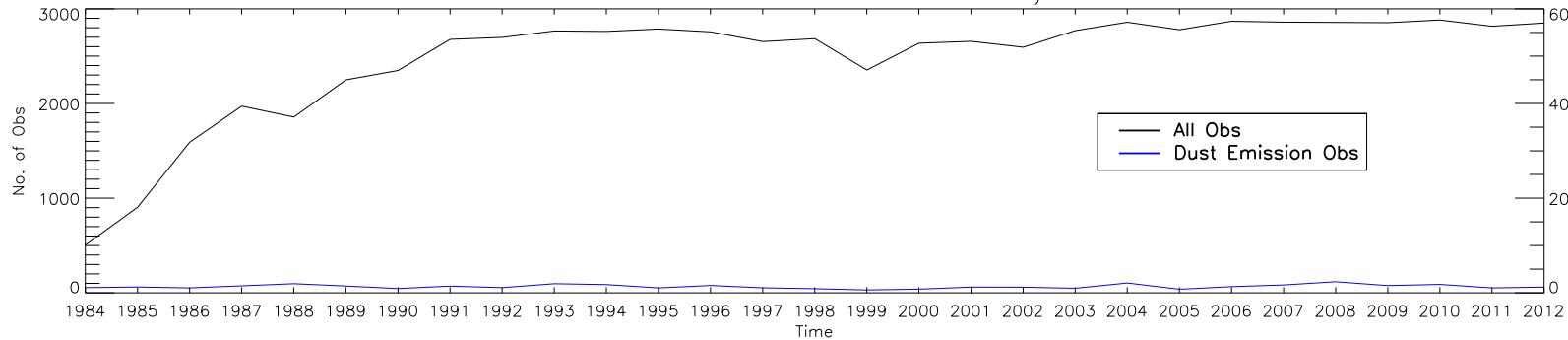
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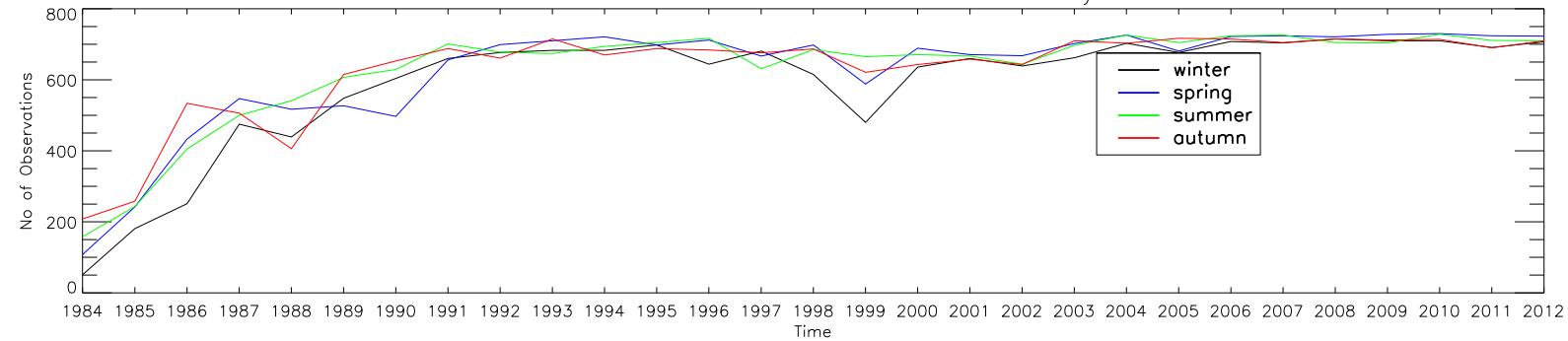
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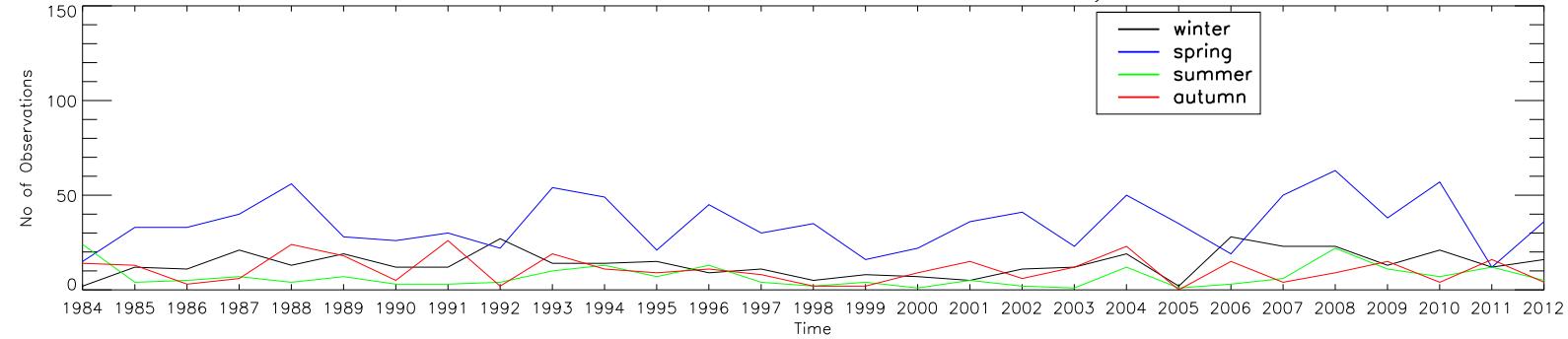
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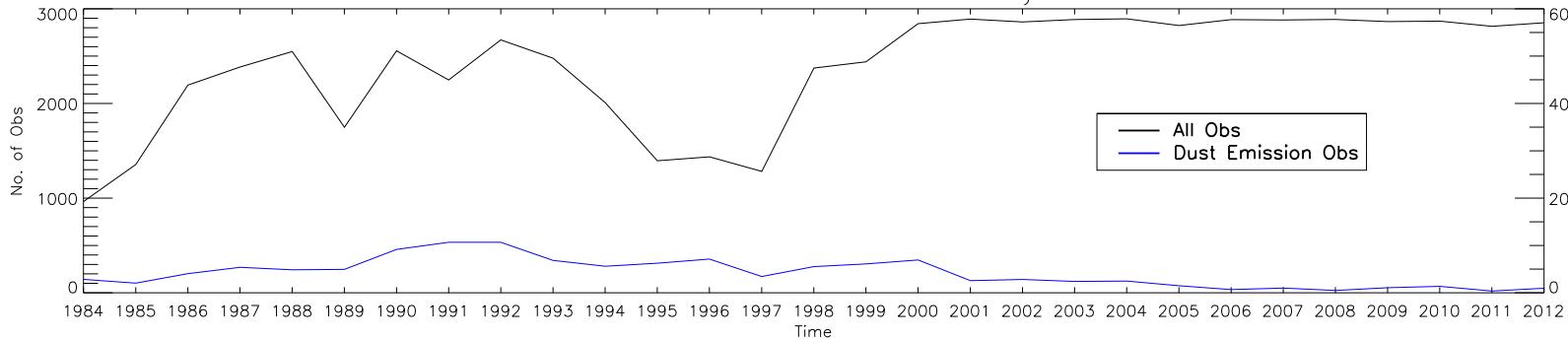
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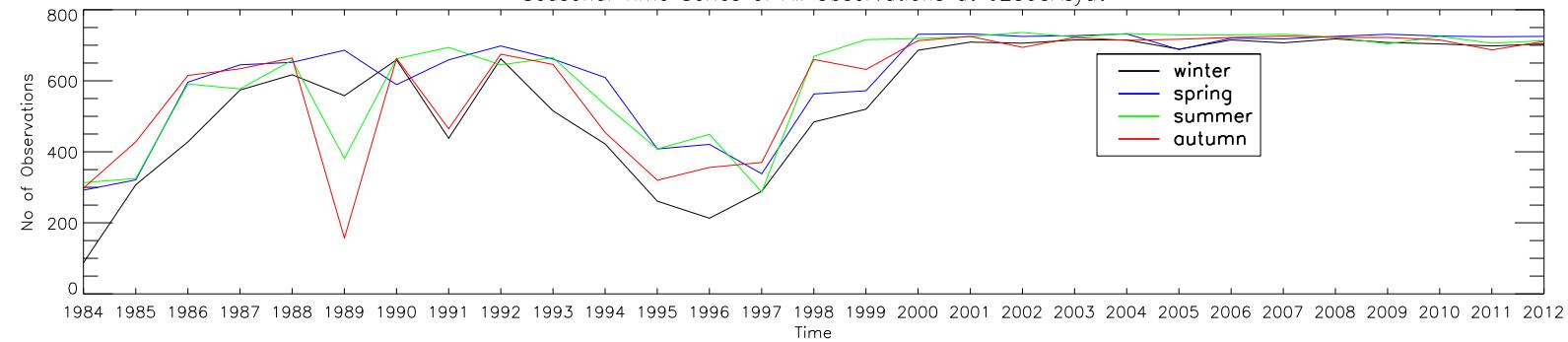
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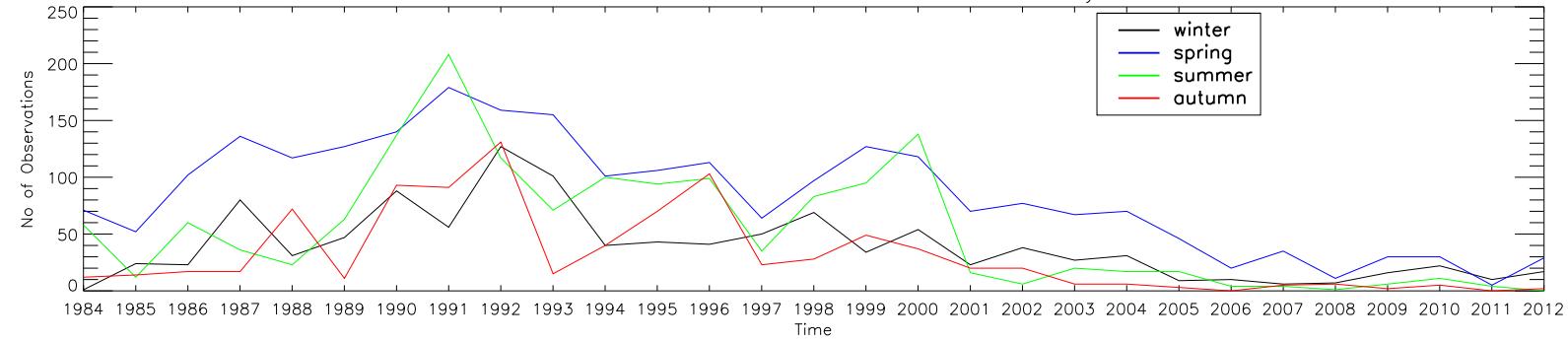
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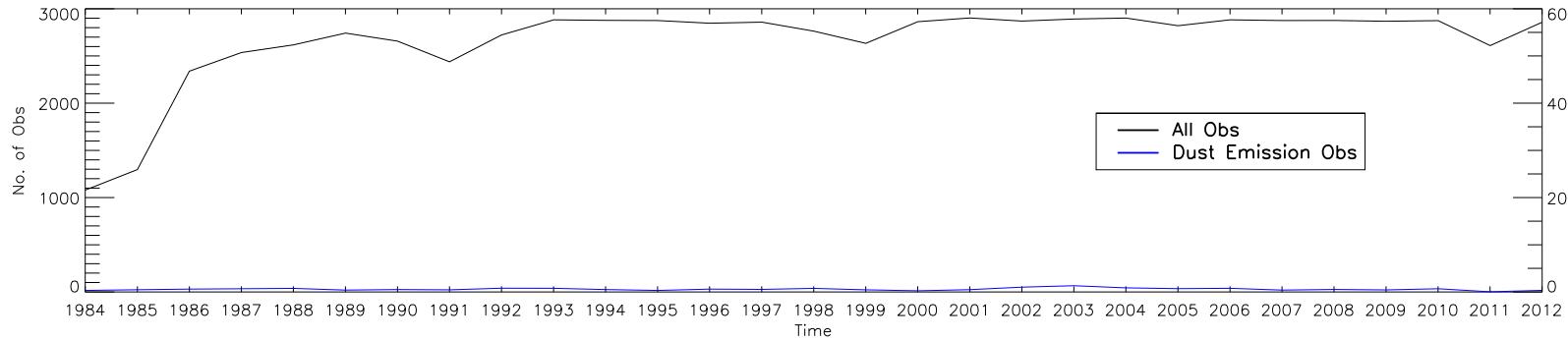
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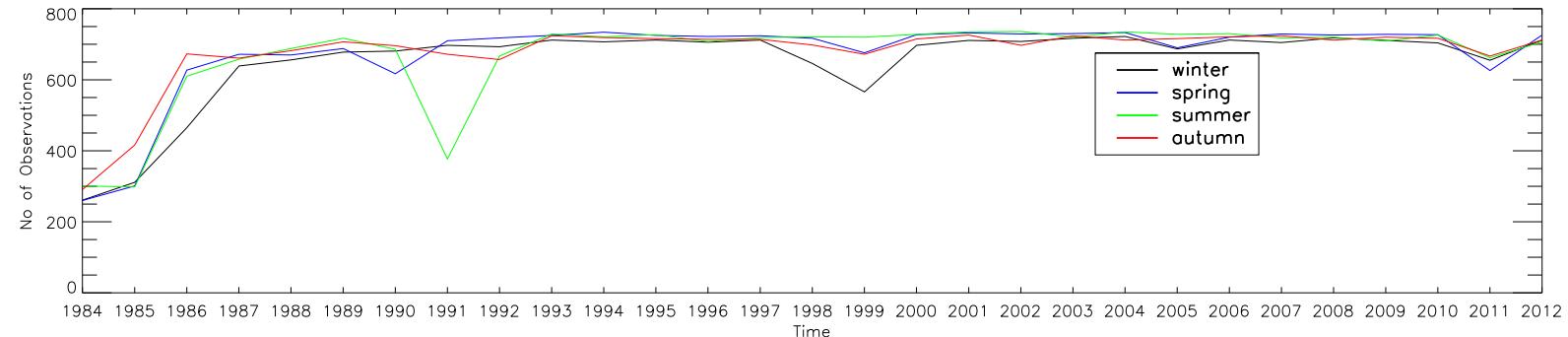
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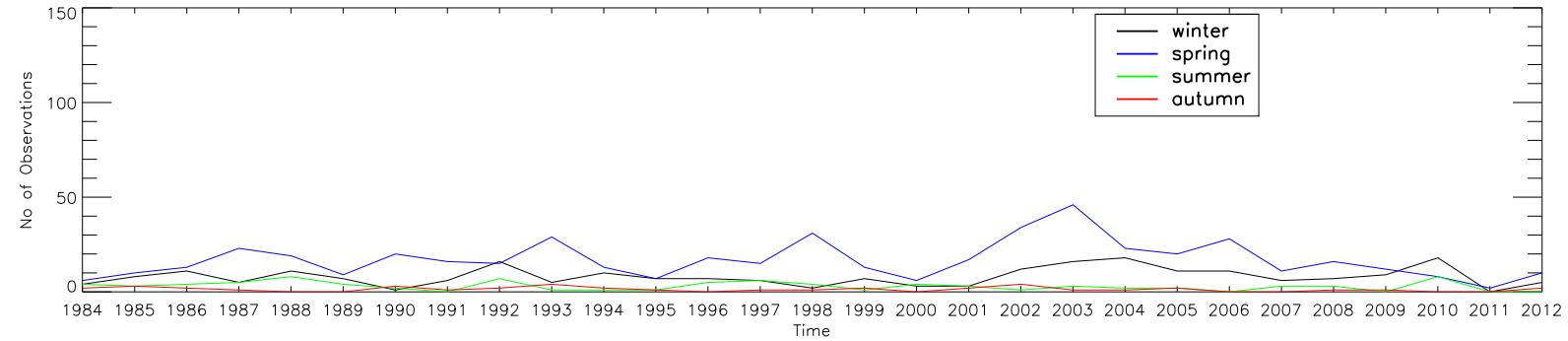
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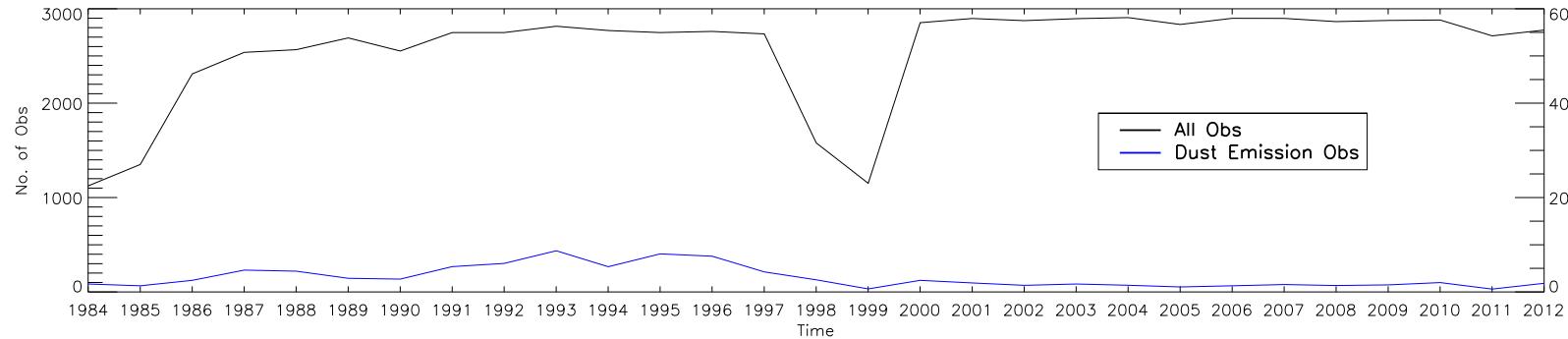
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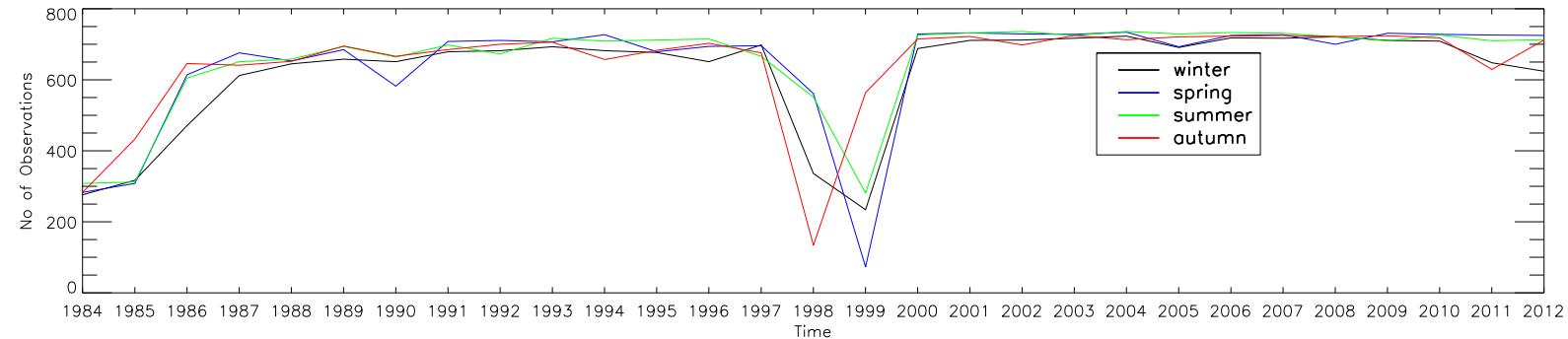
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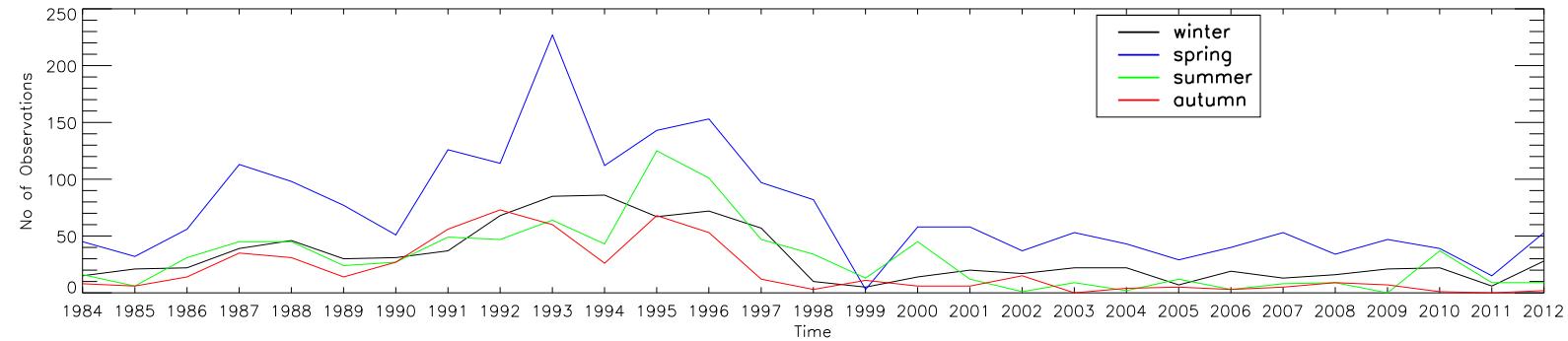
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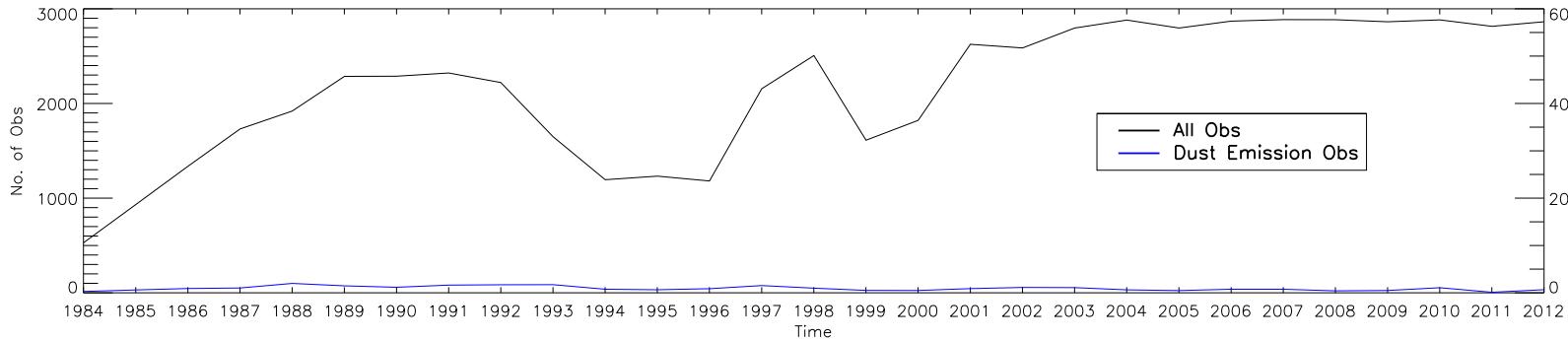
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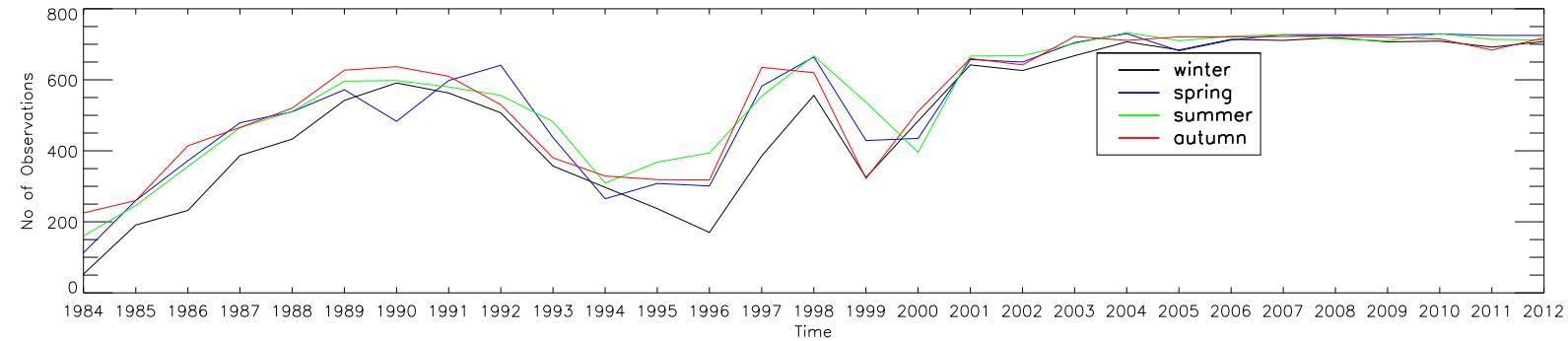
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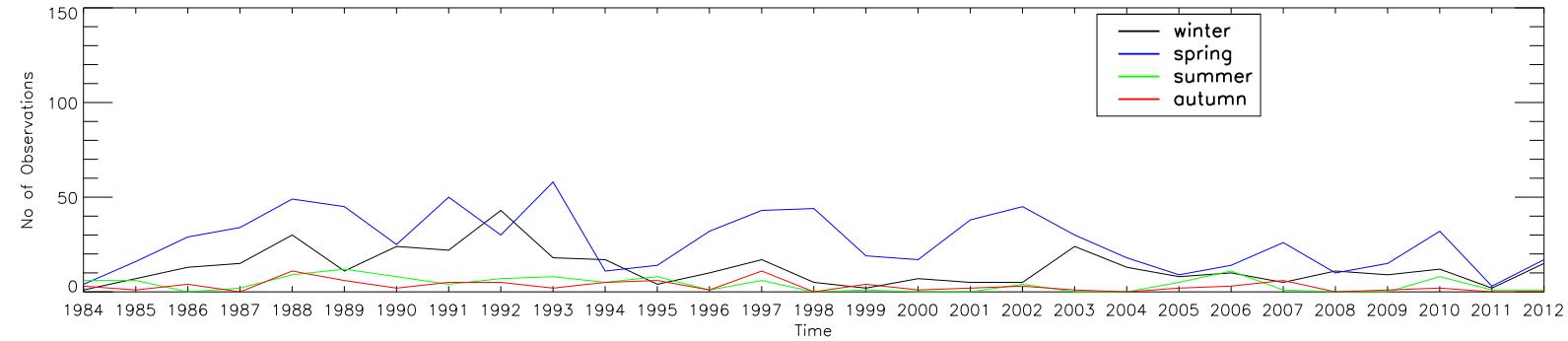
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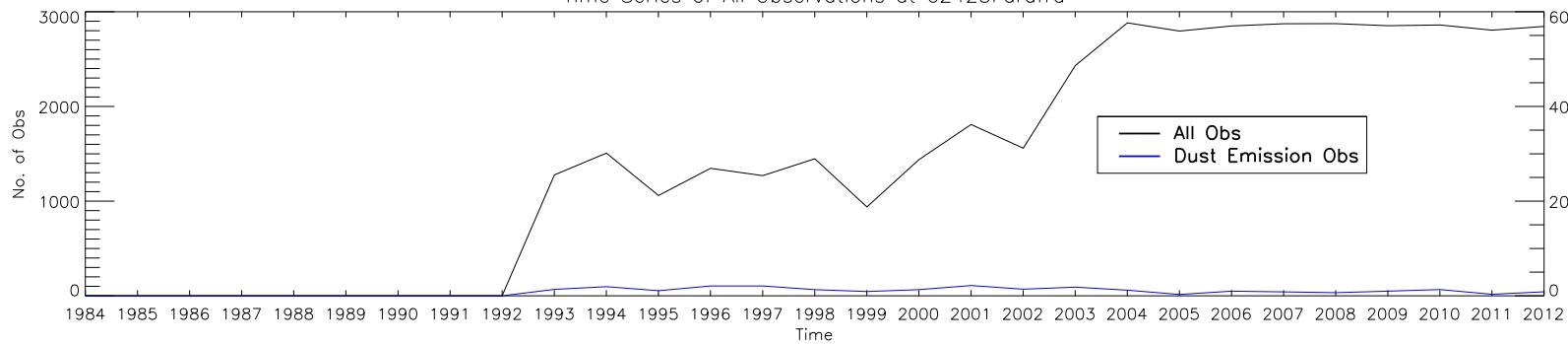
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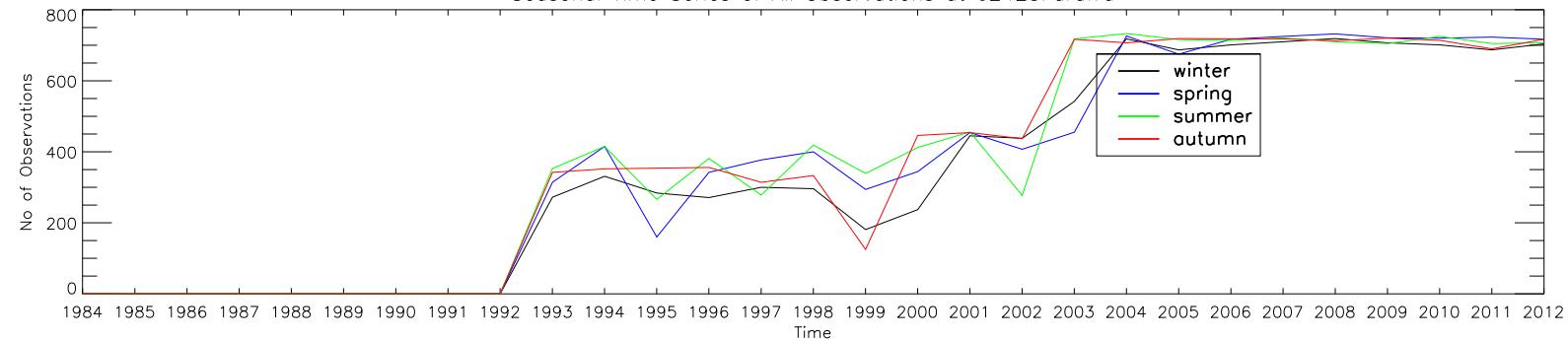
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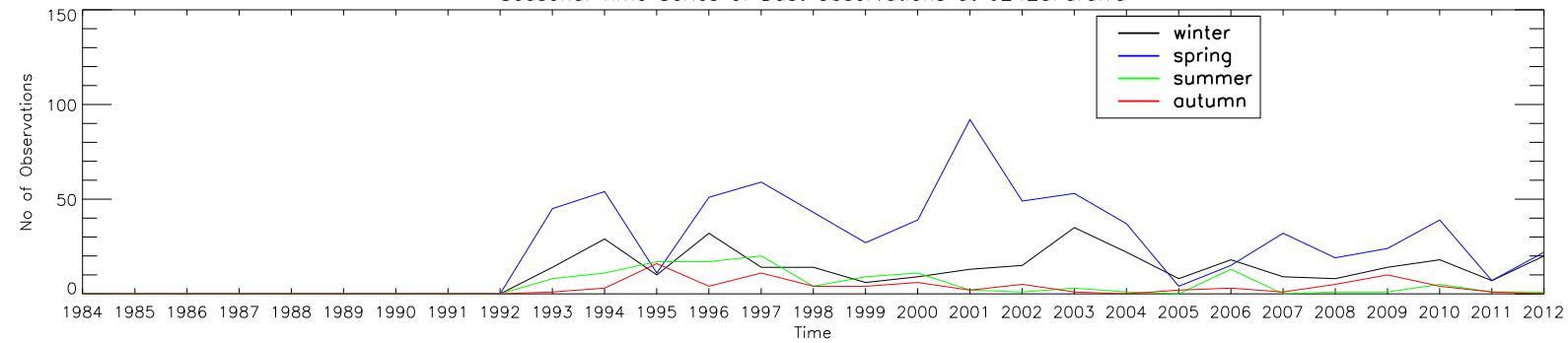
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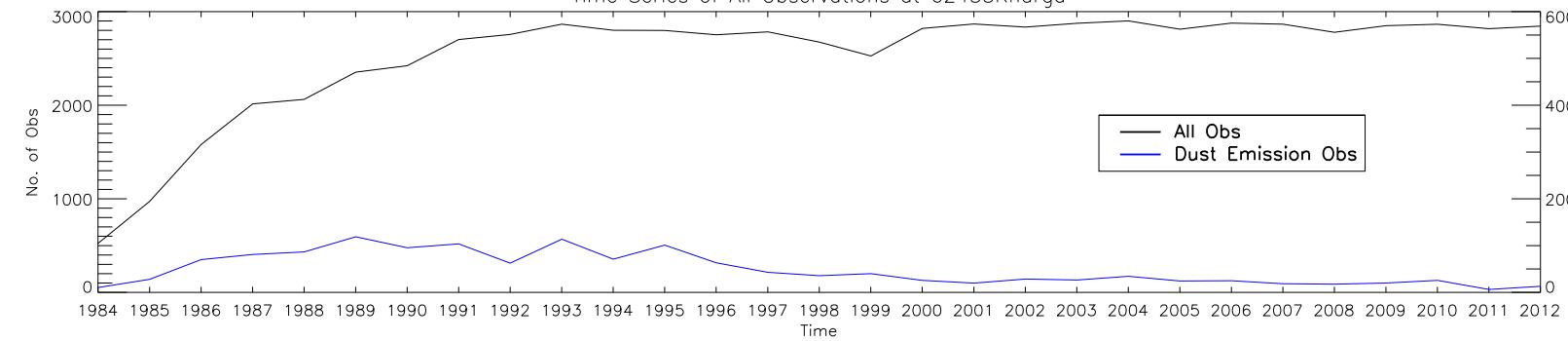
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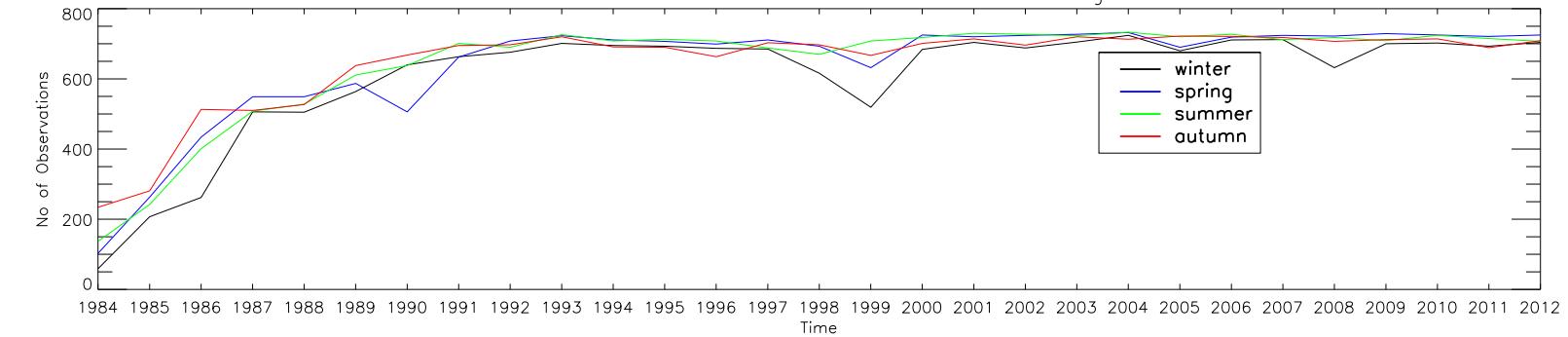
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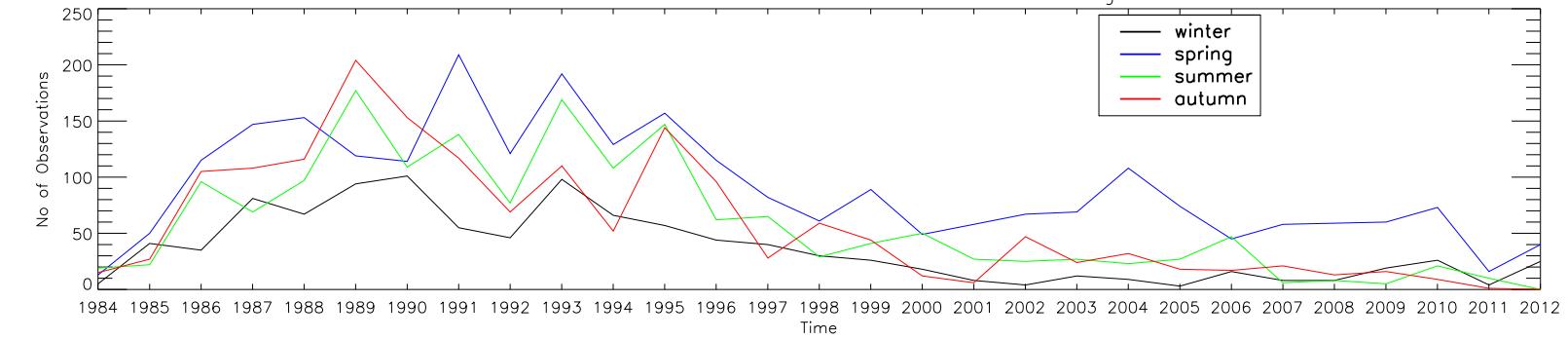
Time Series of All Observations at 62435Kharga



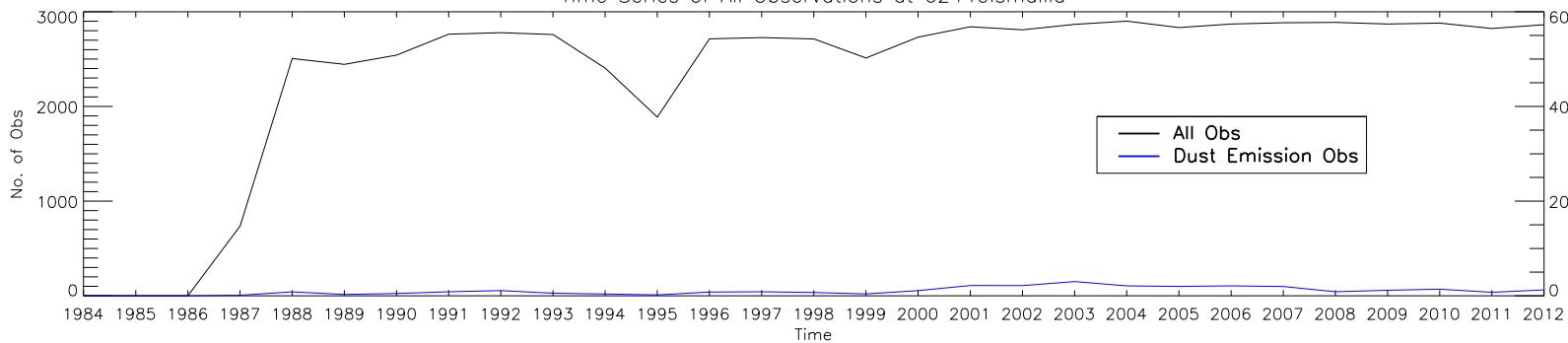
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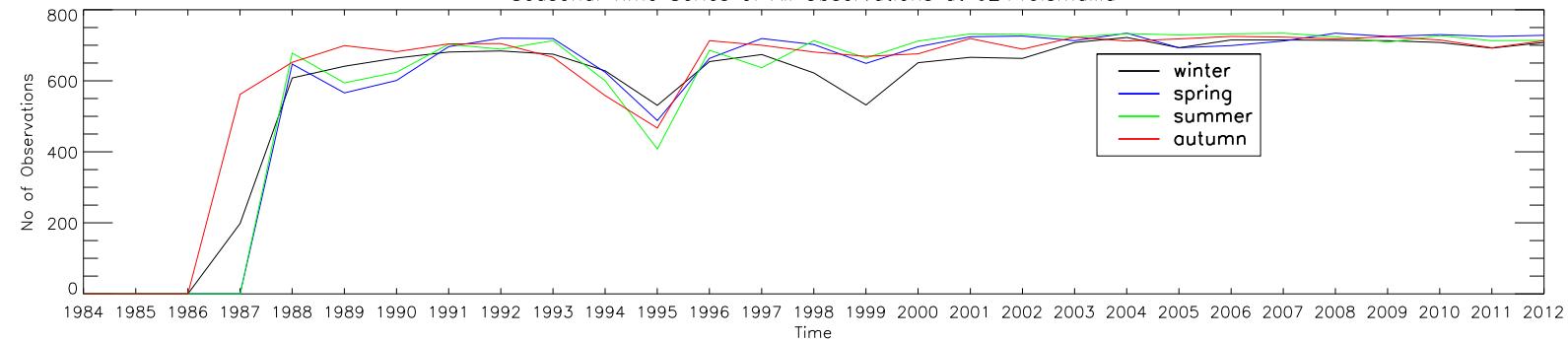
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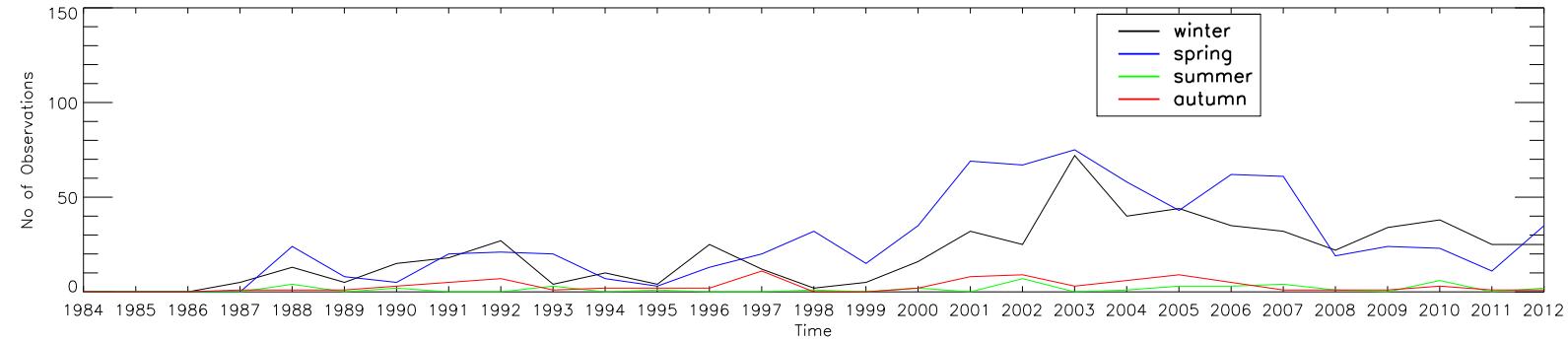
Time Series of All Observations at 62440Ismailia



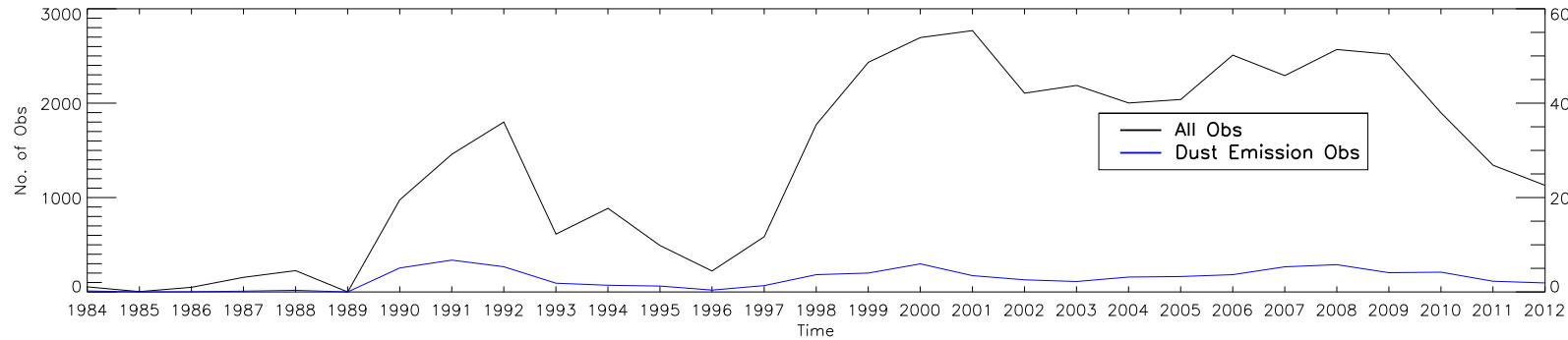
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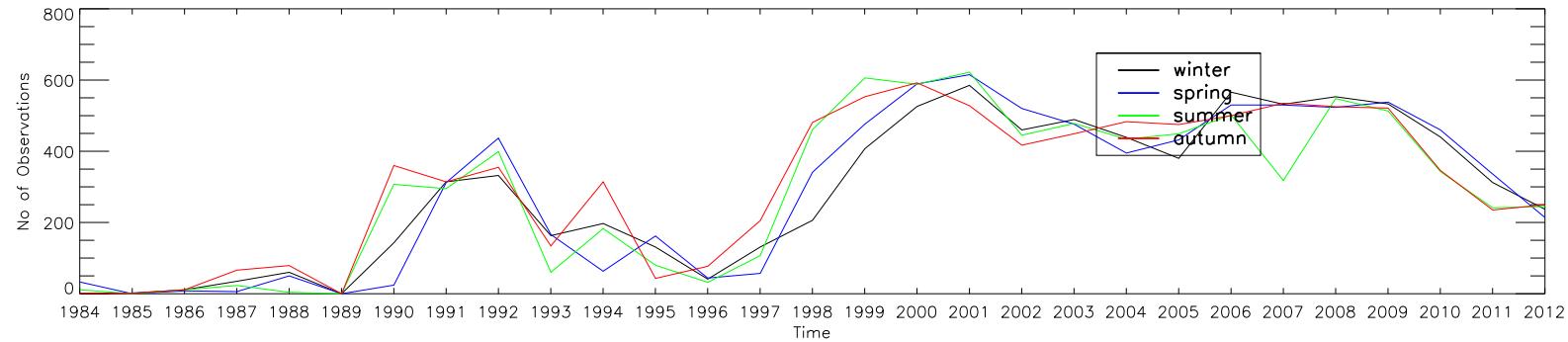
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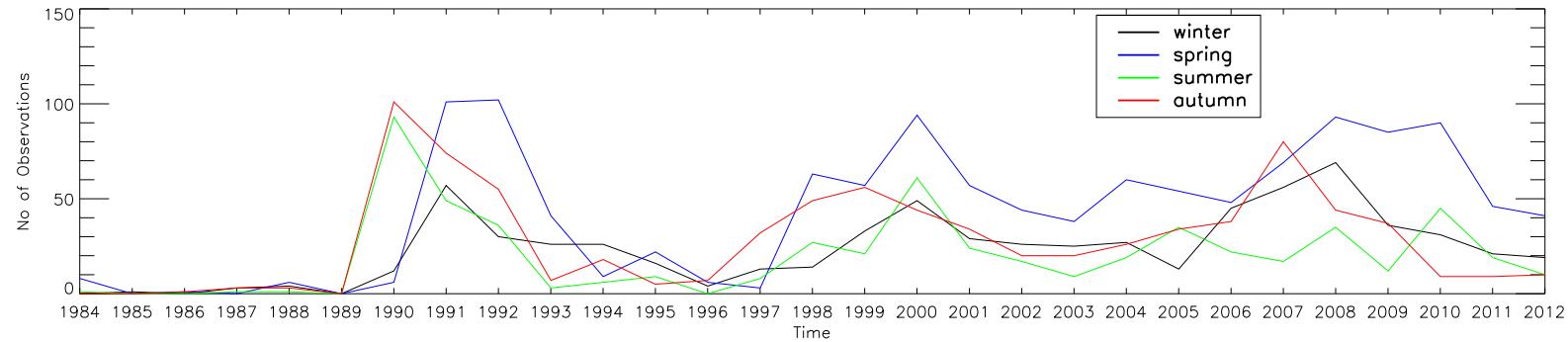
Time Series of All Observations at 62600WadiHalfa



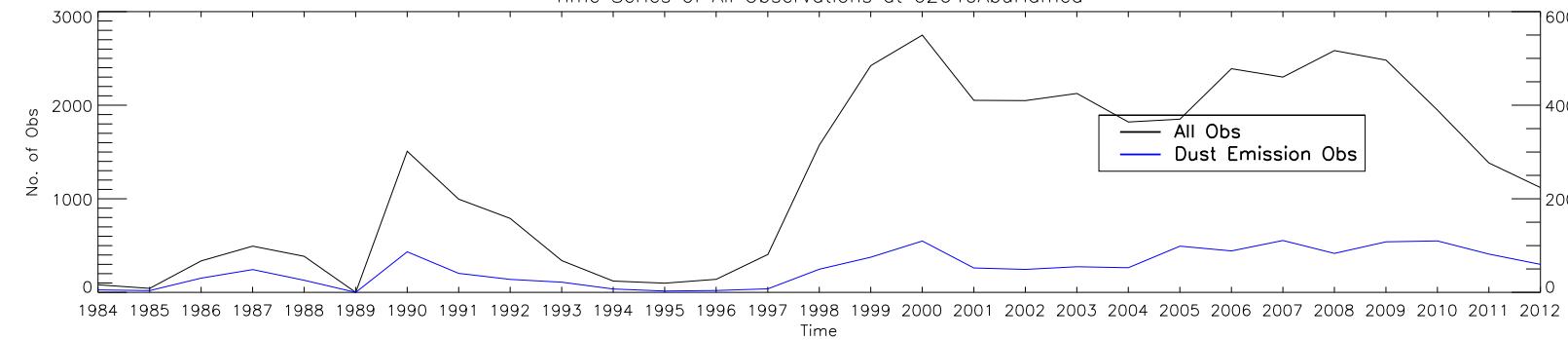
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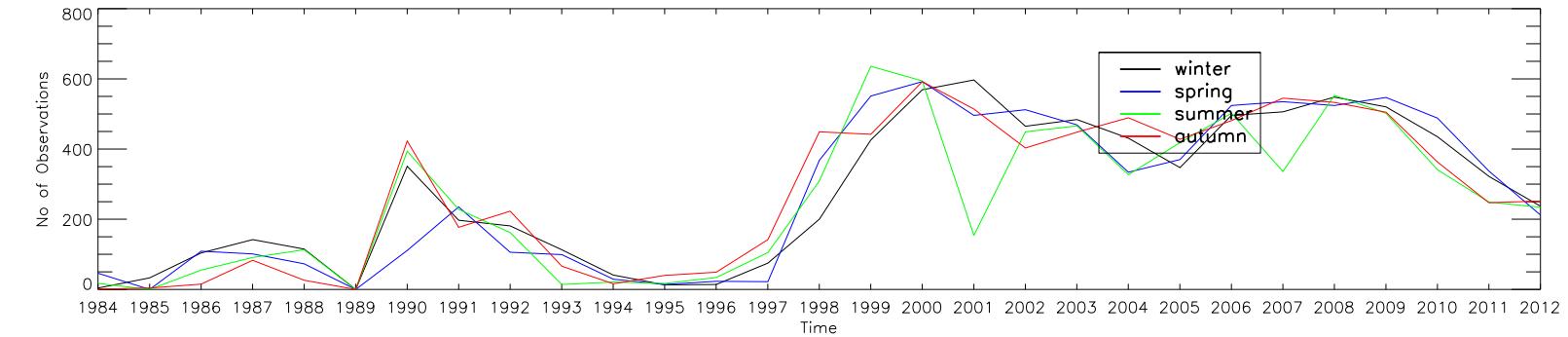
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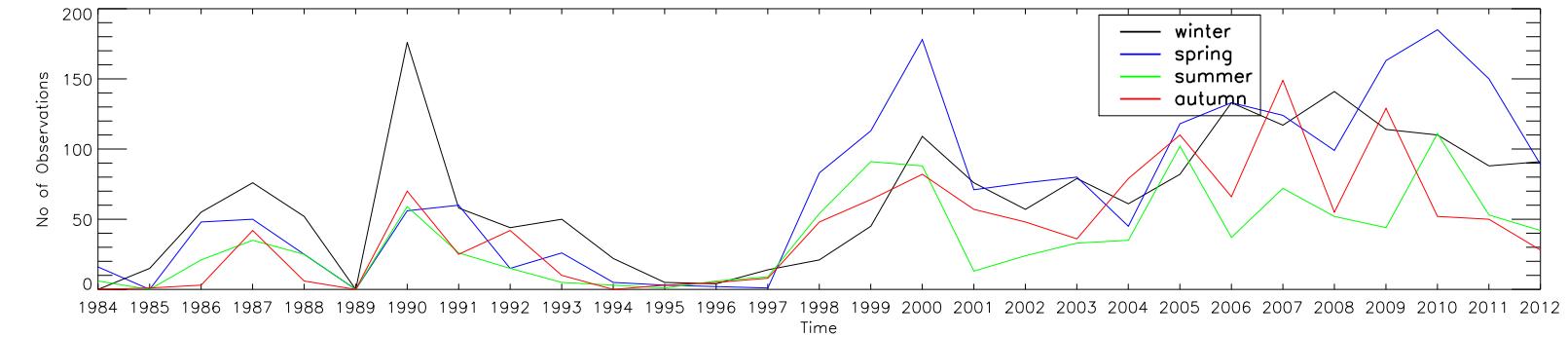
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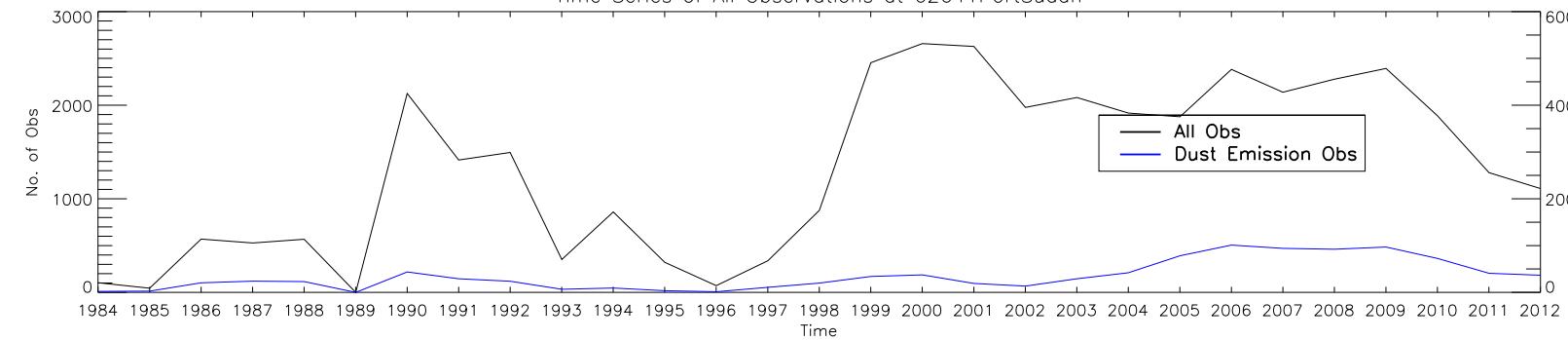
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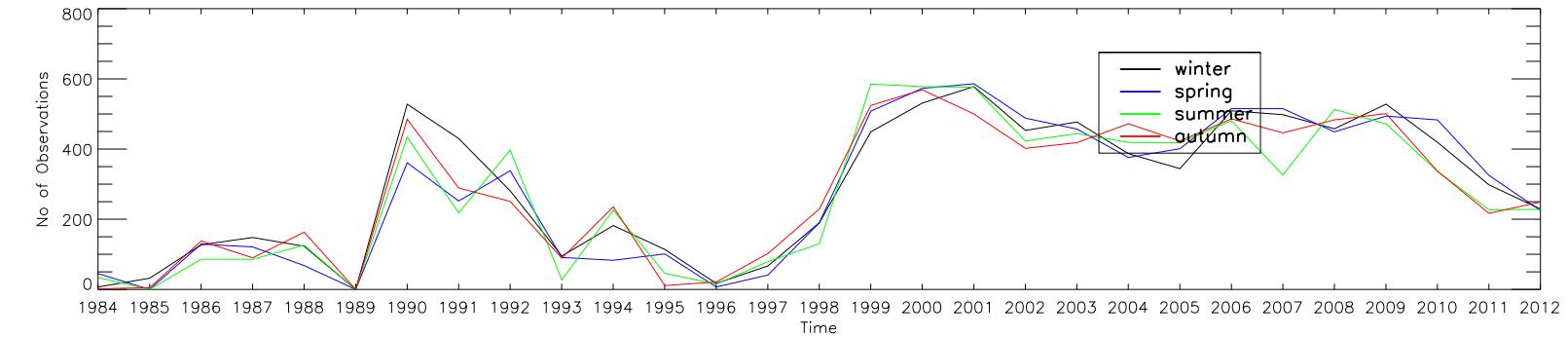
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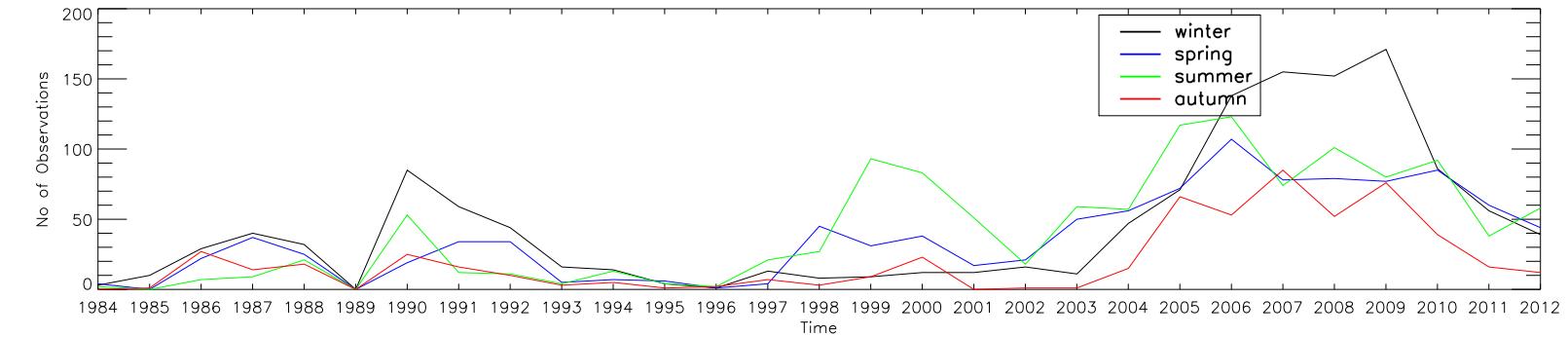
Time Series of All Observations at 62641PortSudan



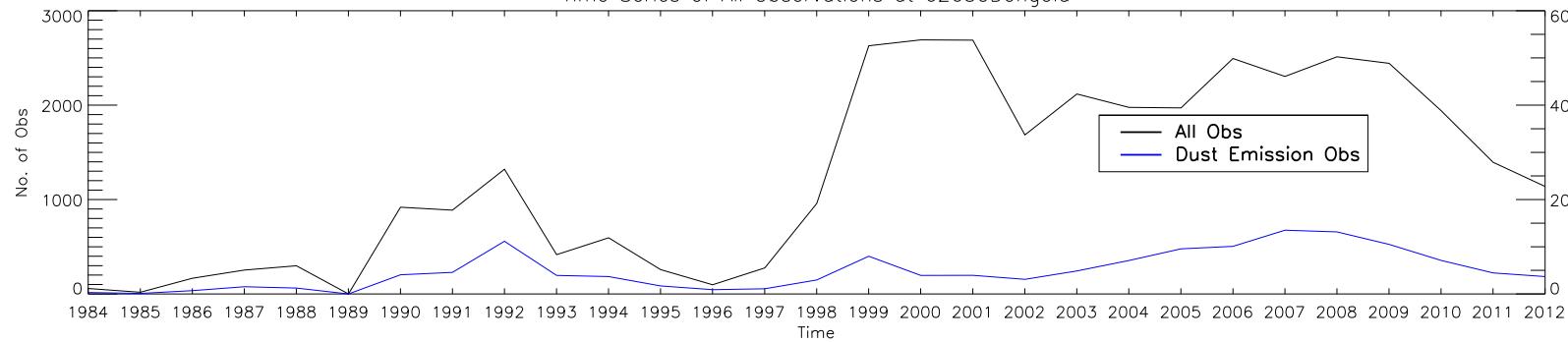
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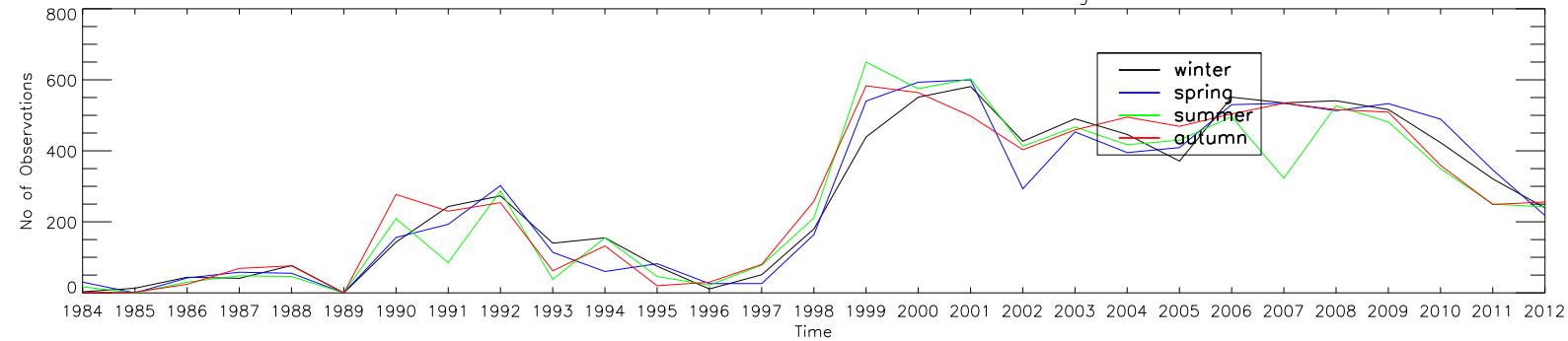
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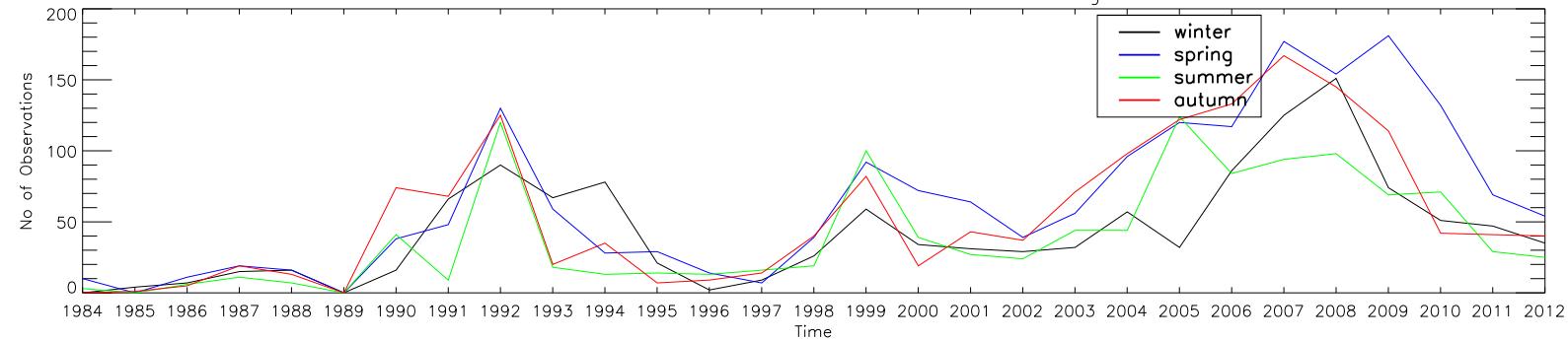
Time Series of All Observations at 62650Dongola



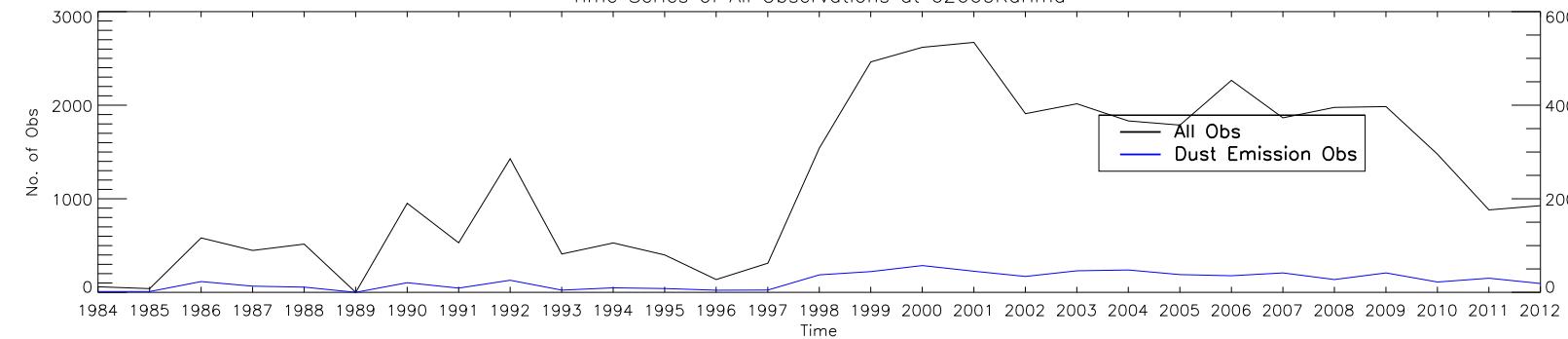
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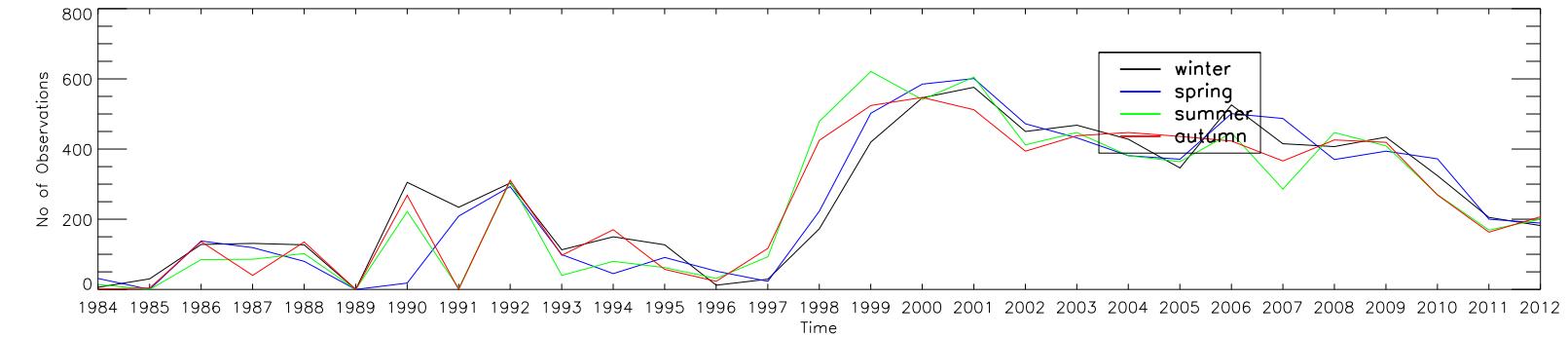
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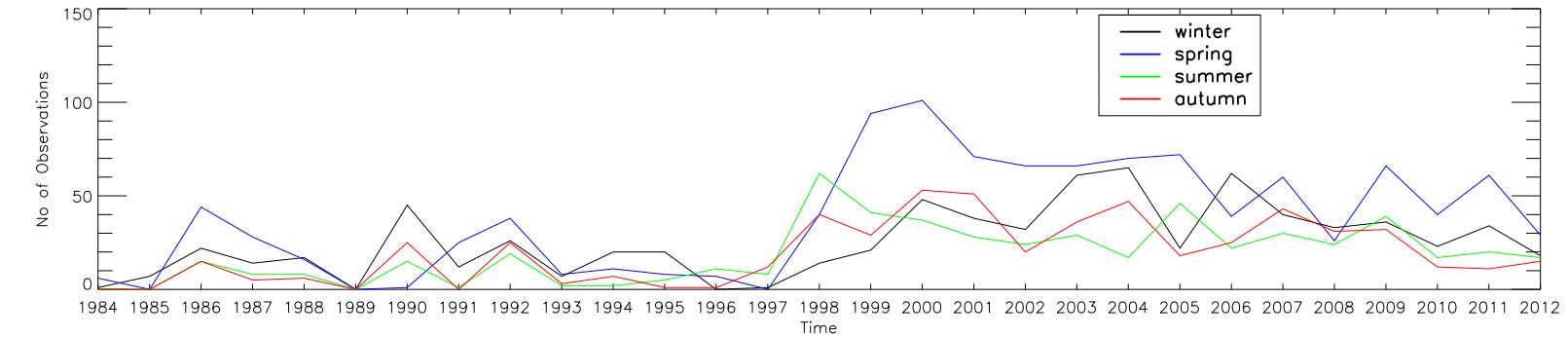
Time Series of All Observations at 62660Karima



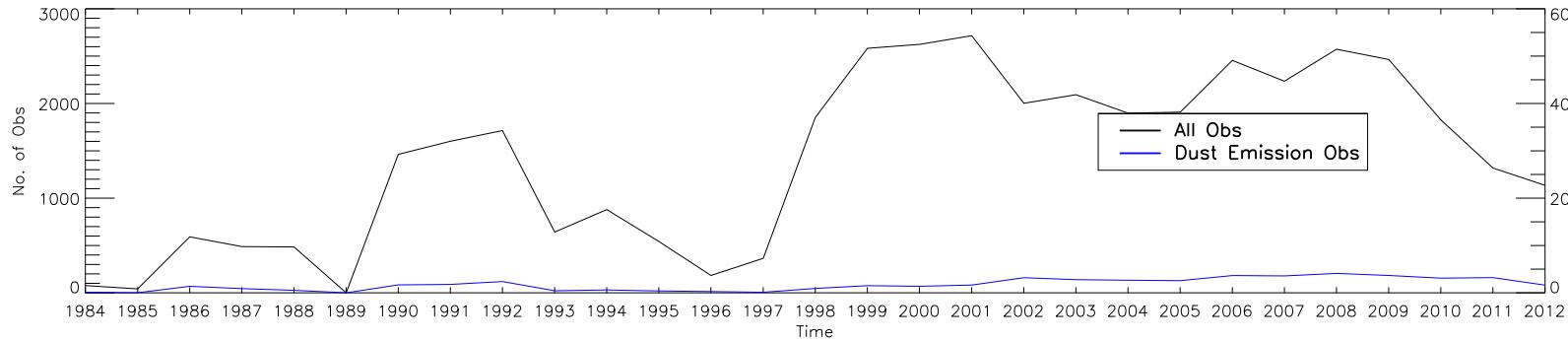
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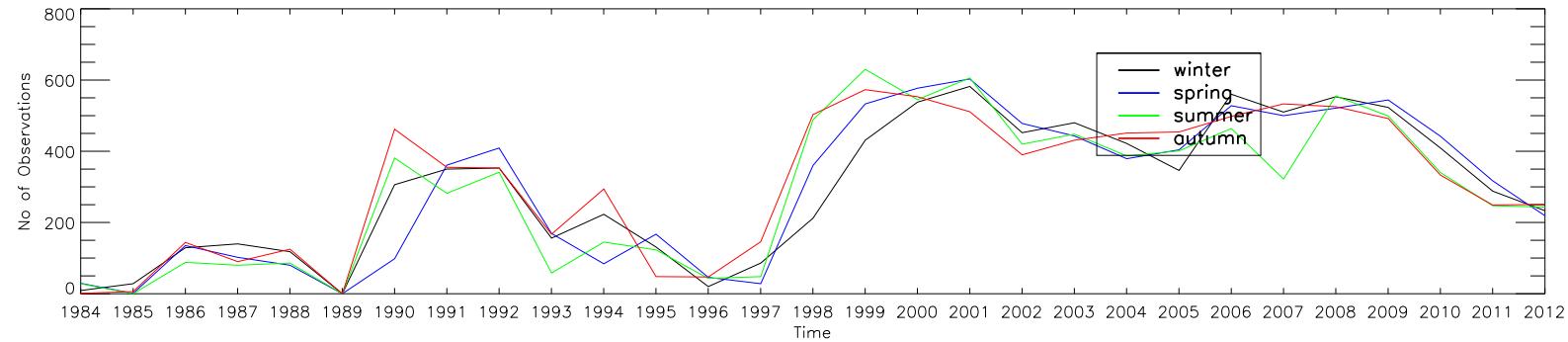
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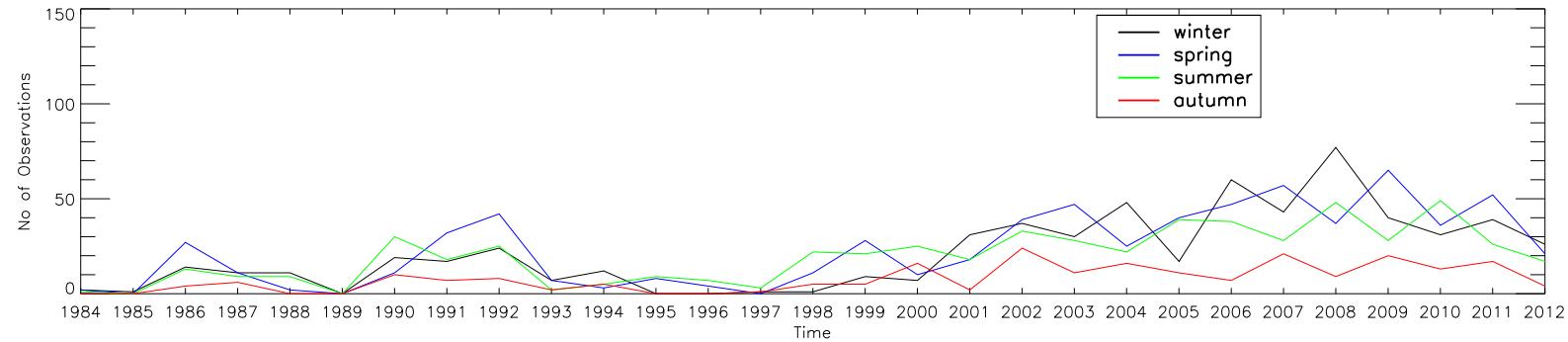
Time Series of All Observations at 62680Atbara



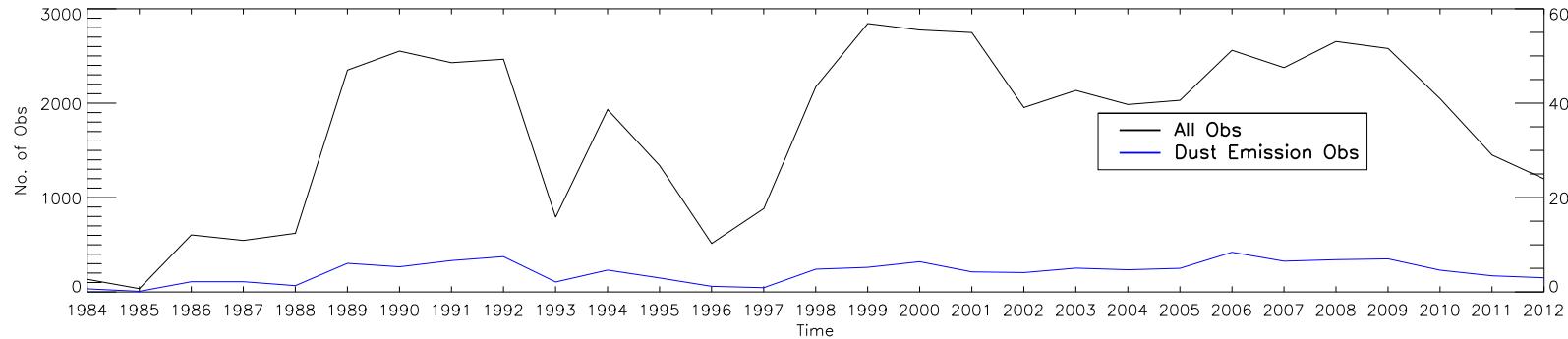
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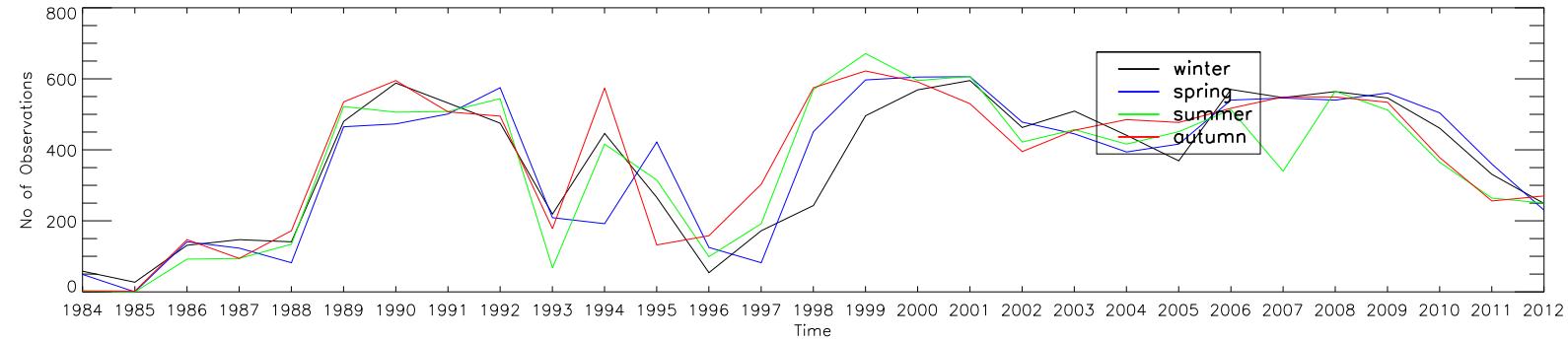
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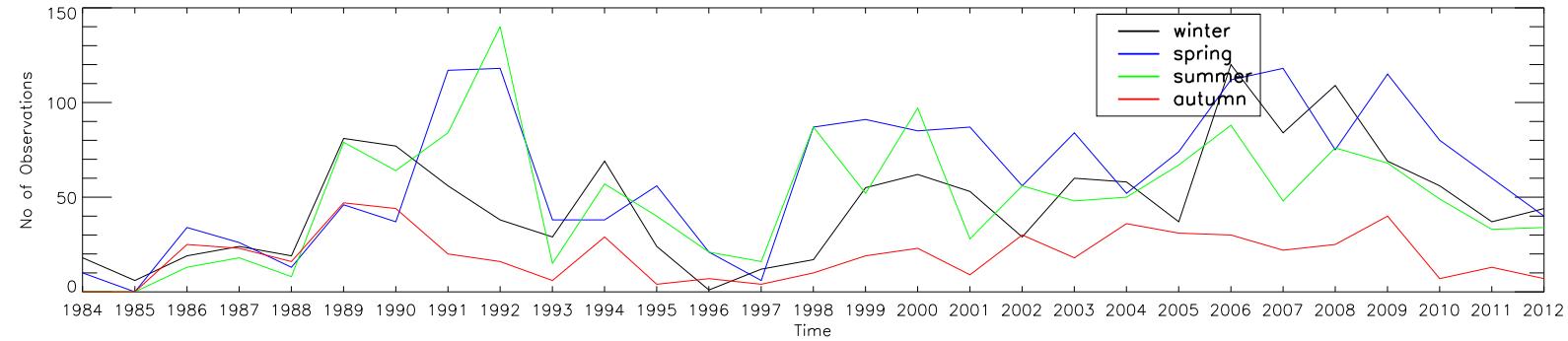
Time Series of All Observations at 62721Khartoum



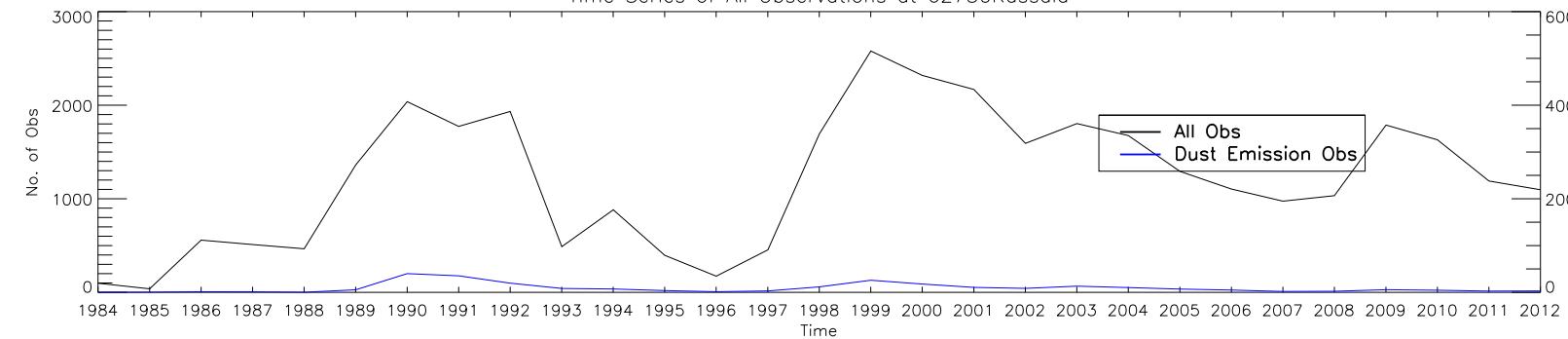
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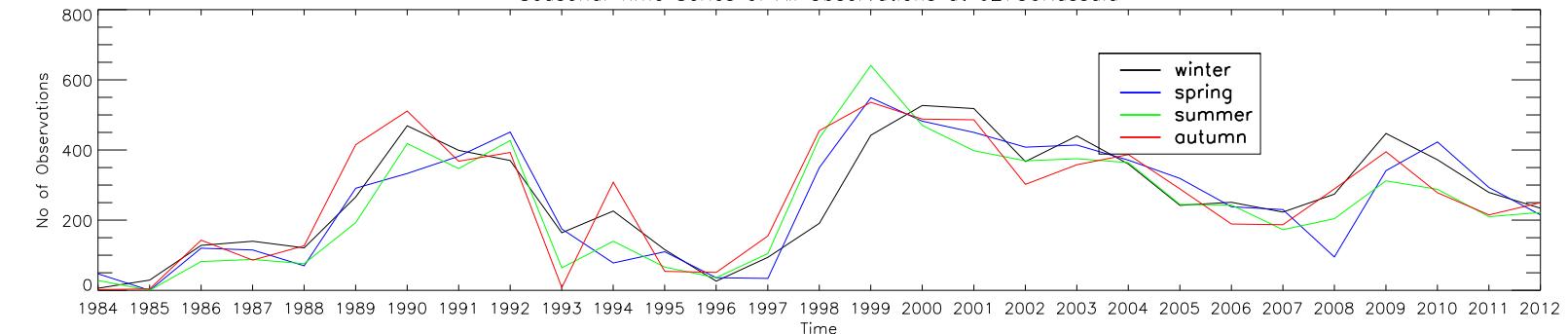
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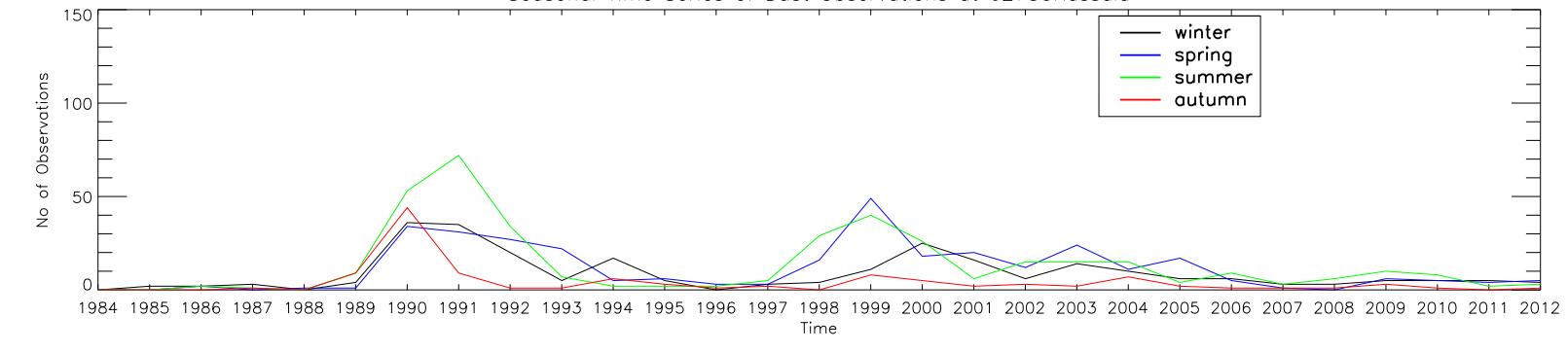
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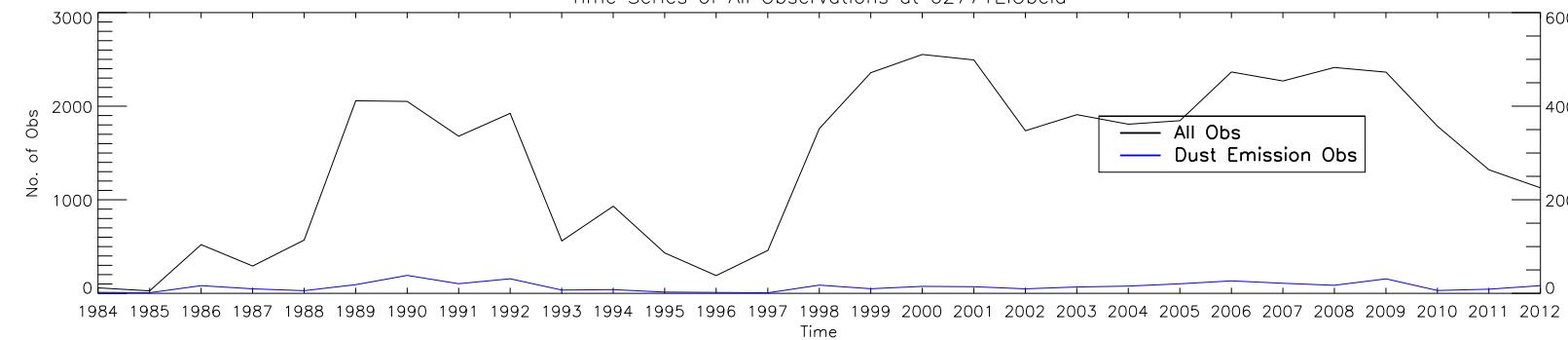
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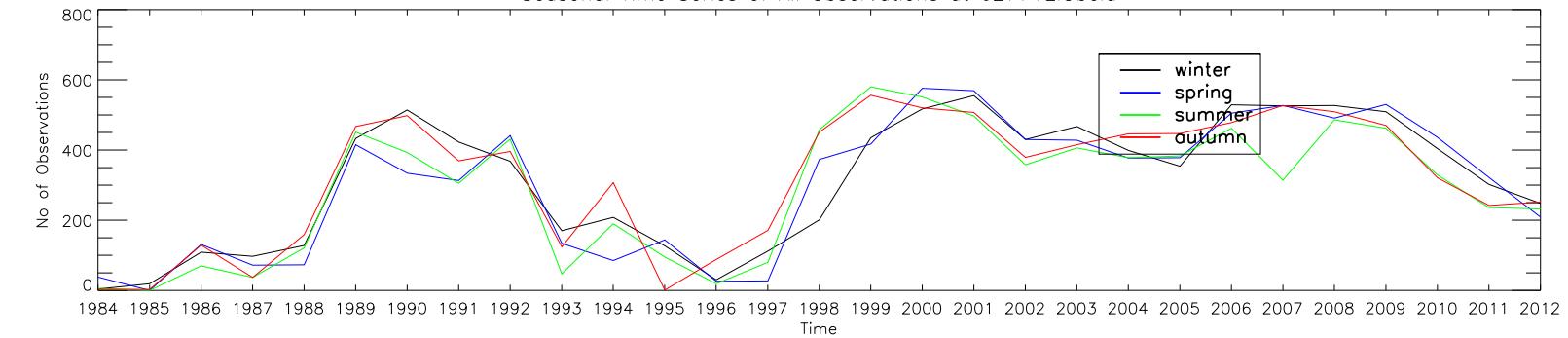
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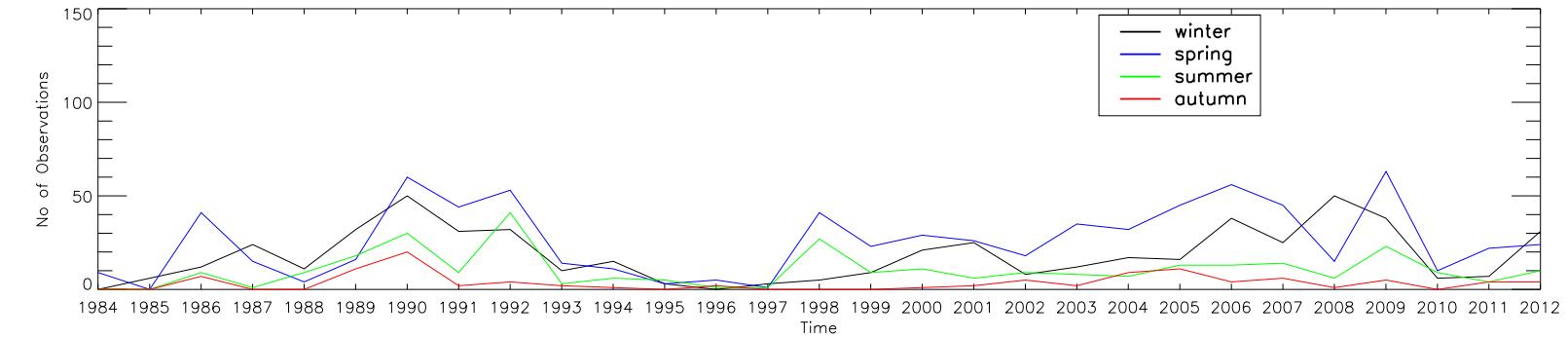
Time Series of All Observations at 62771ElObeid



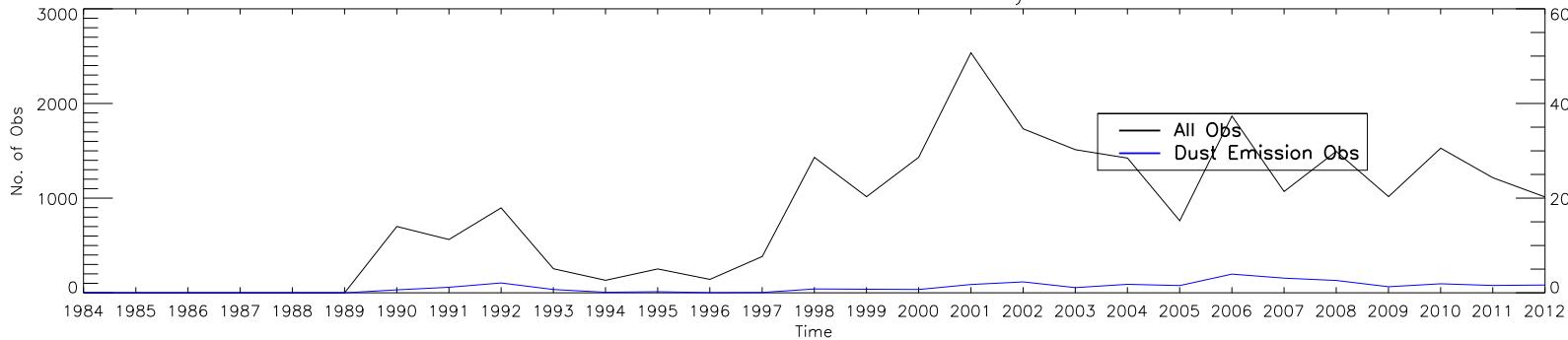
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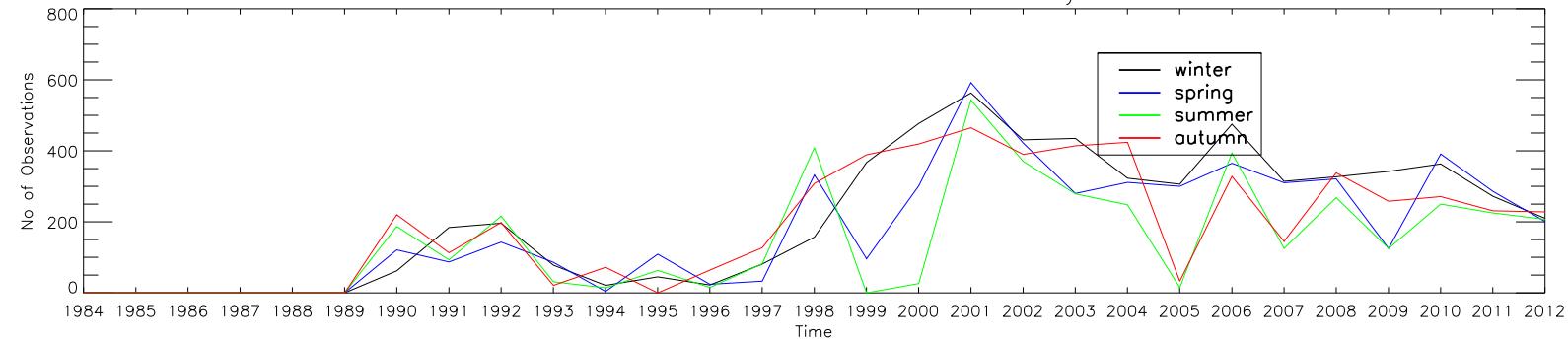
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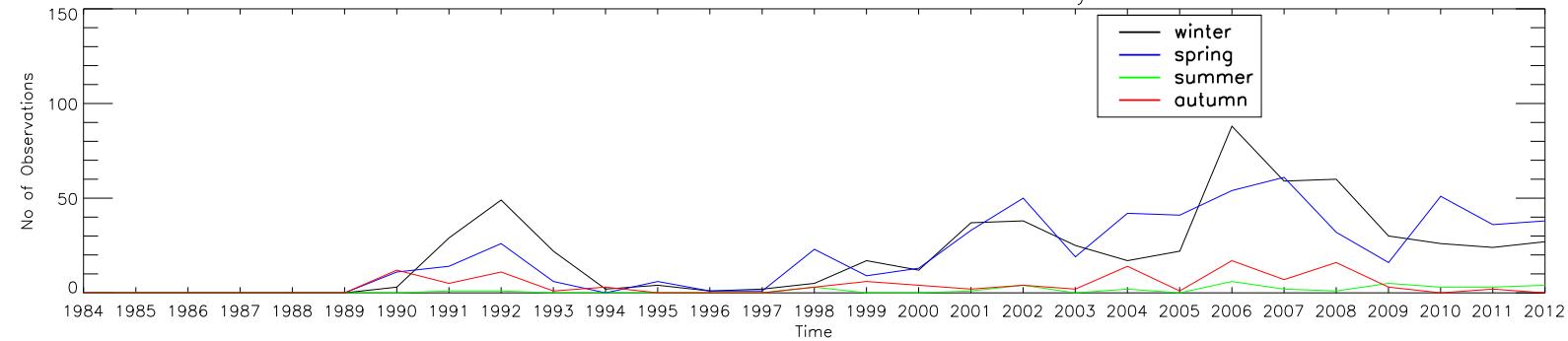
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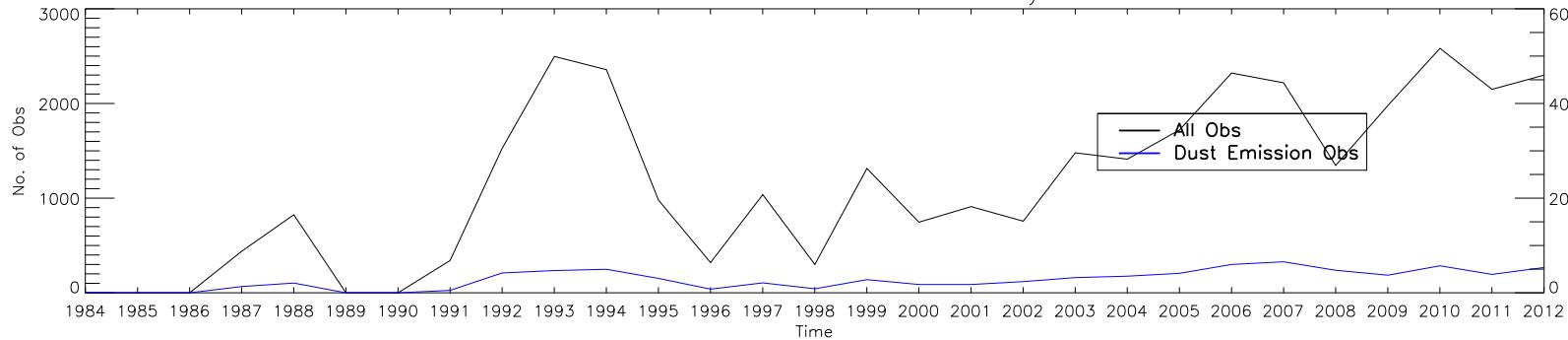
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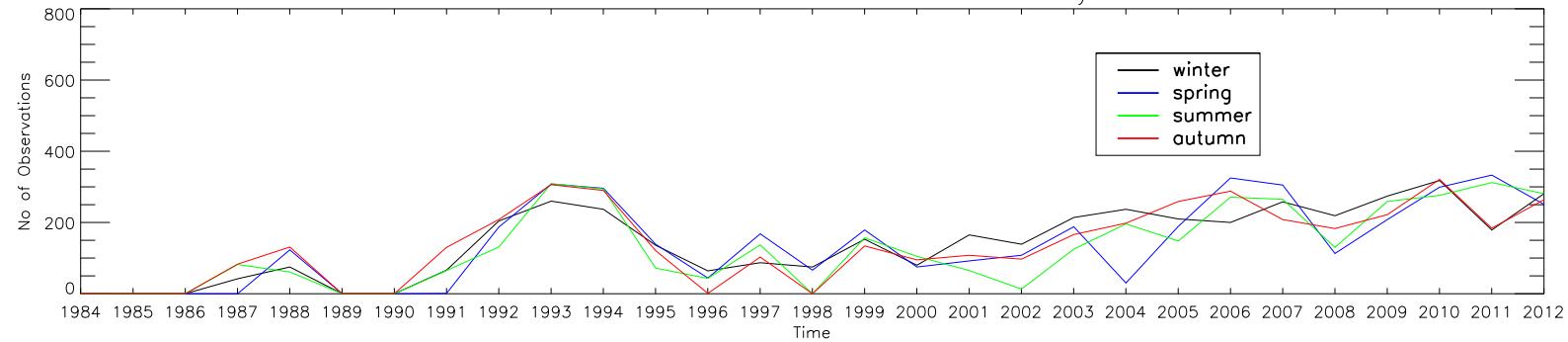
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Time Series of All Observations at 64753Faya



Seasonal Time Series of All Observations at 64753Faya



Seasonal Time Series of Dust Observations at 64753Faya

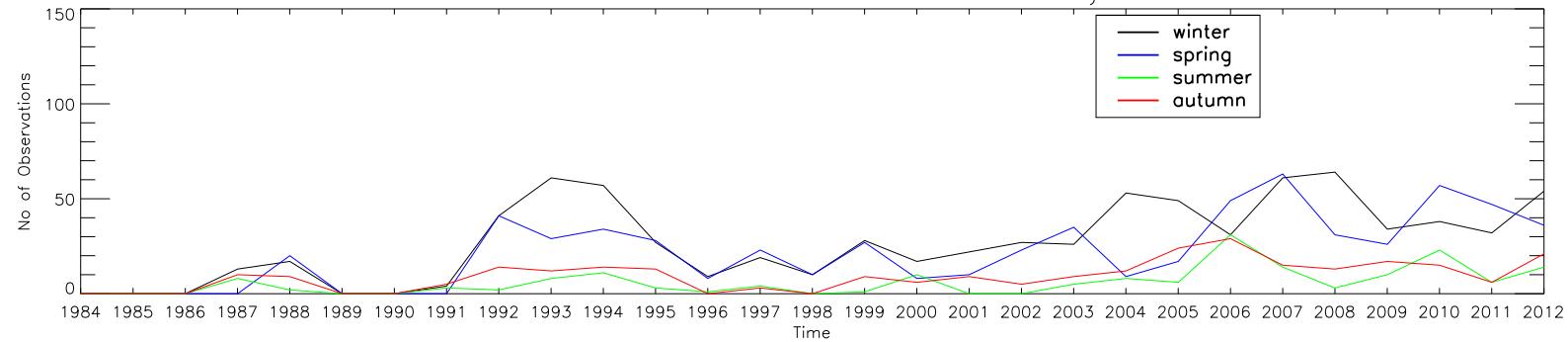
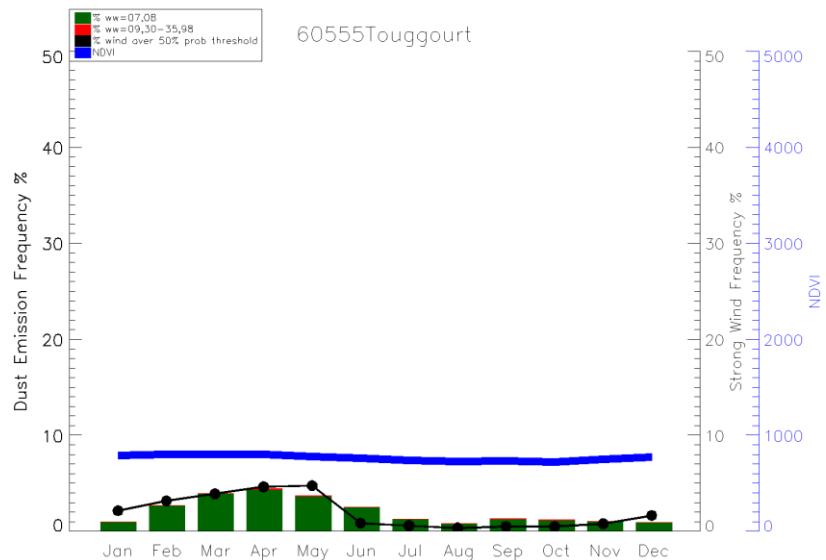
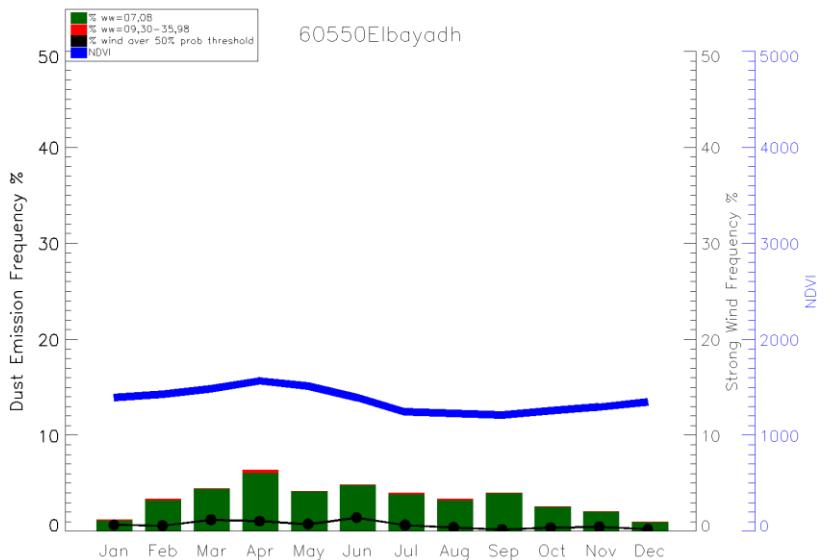
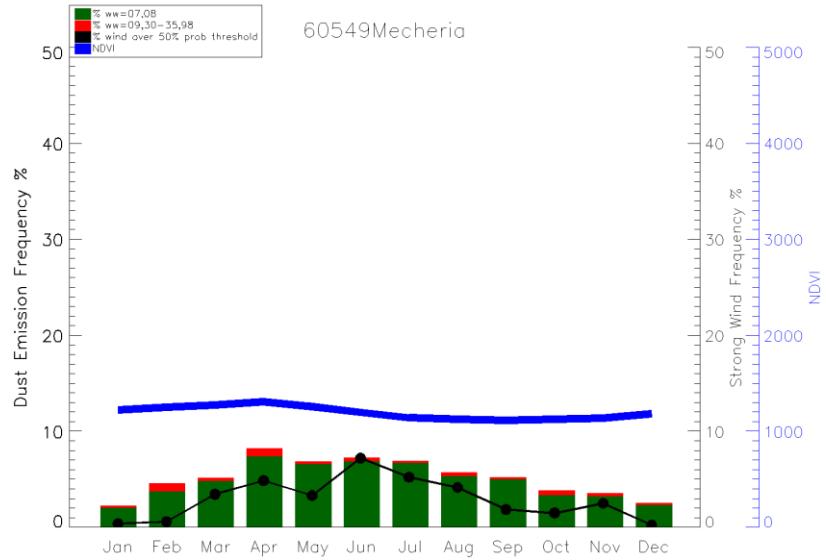
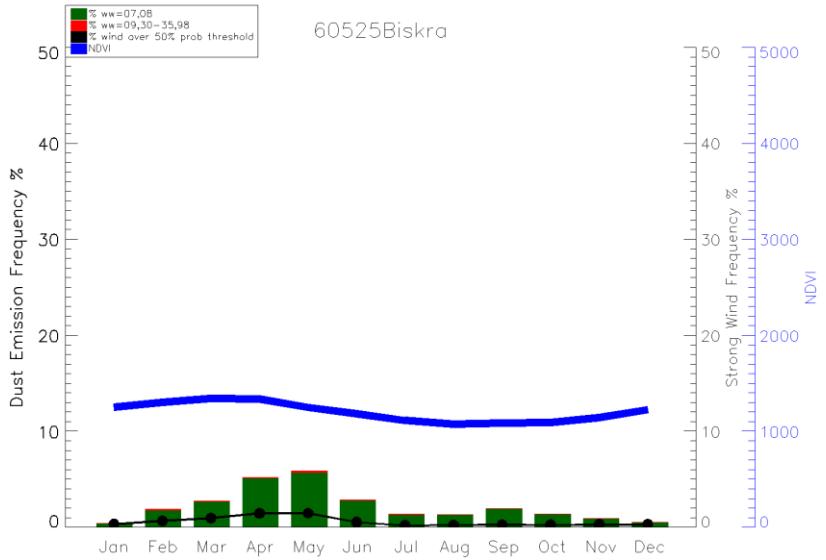
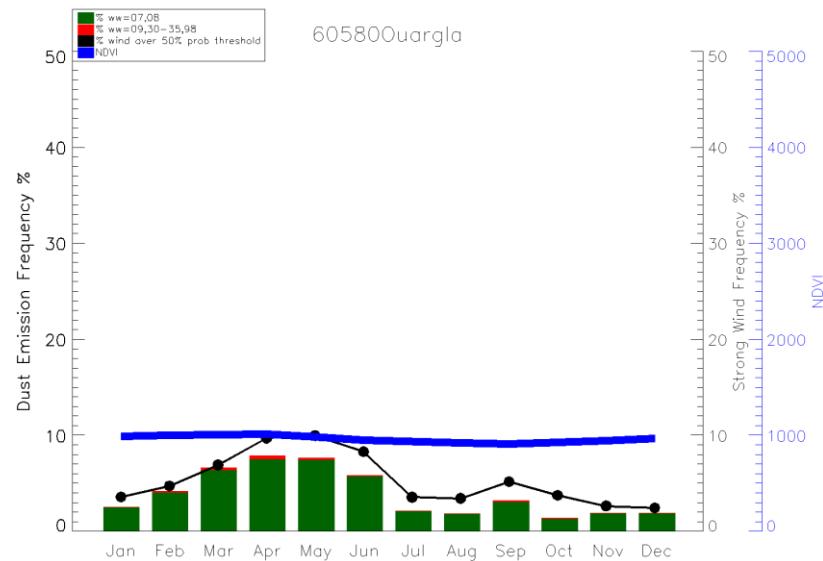
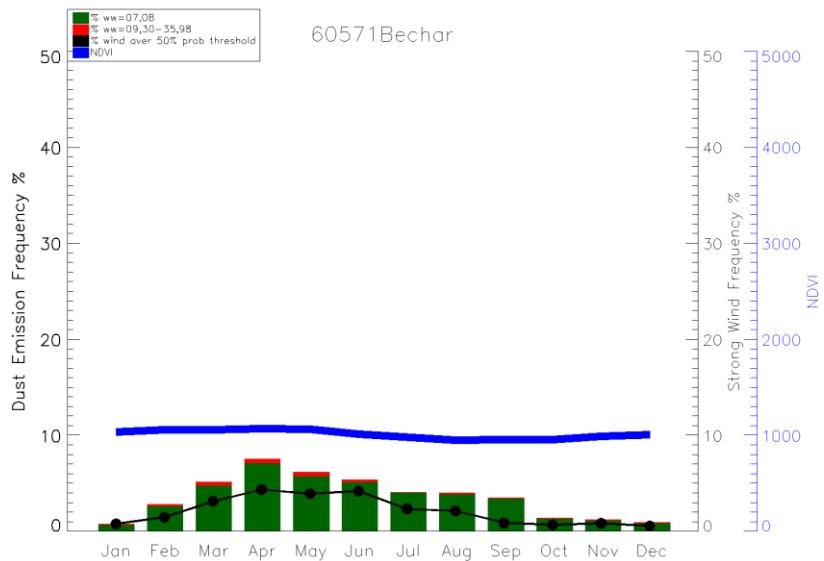
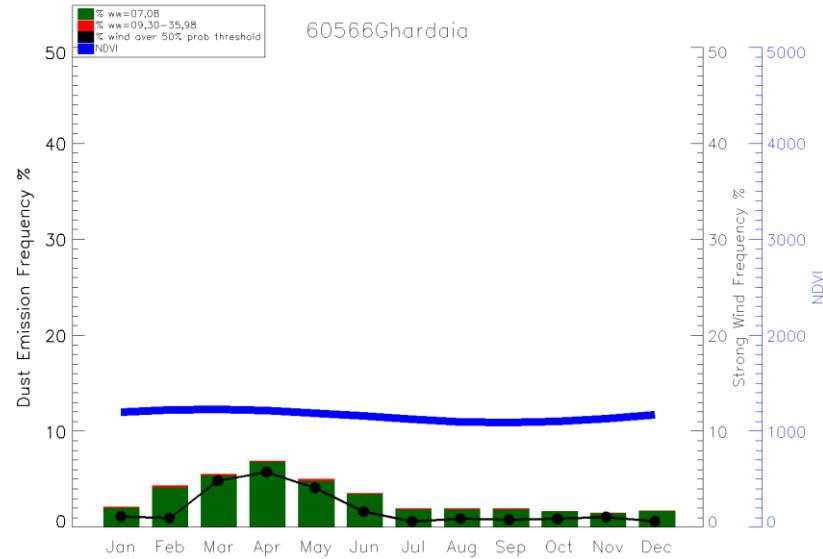
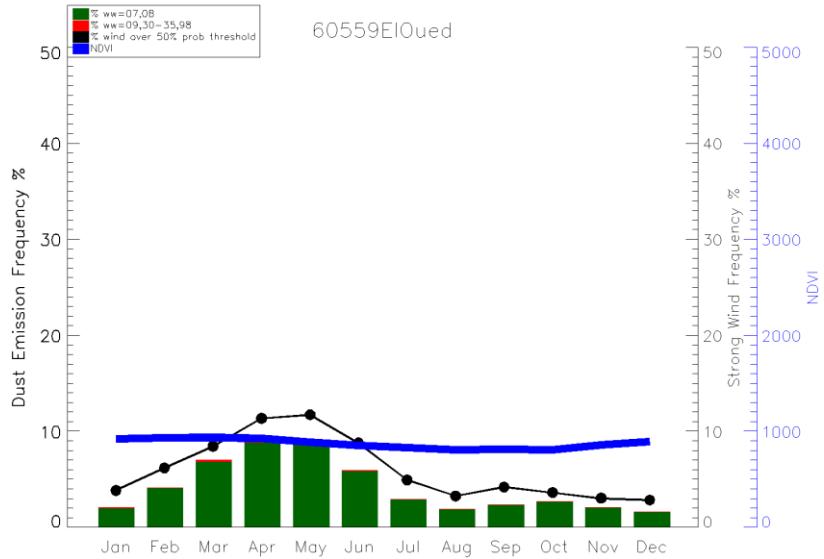
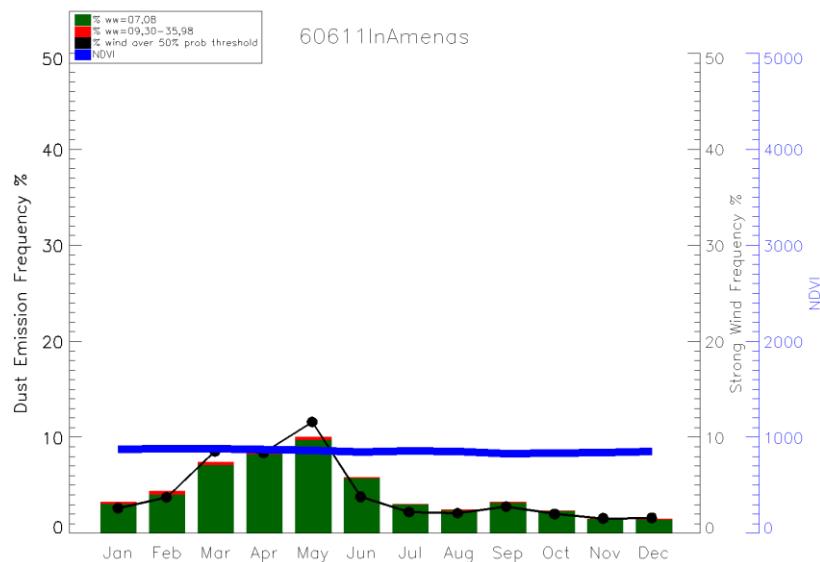
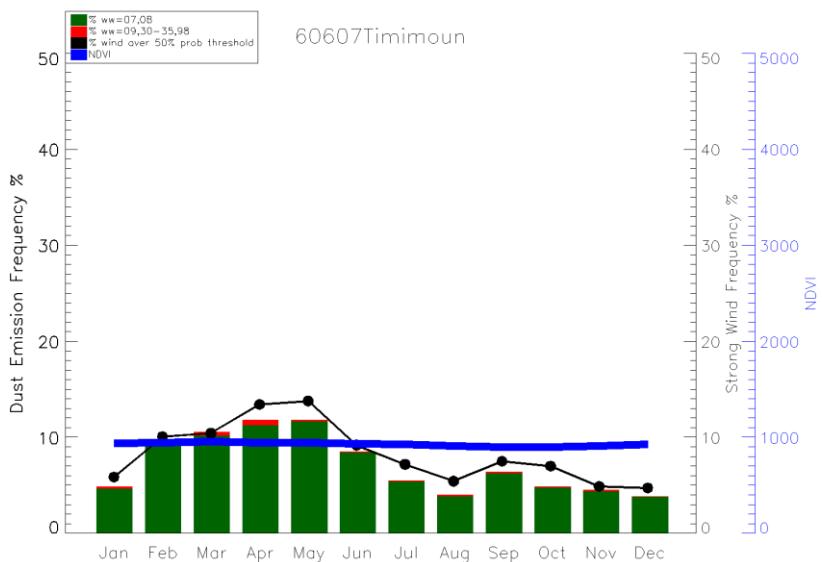
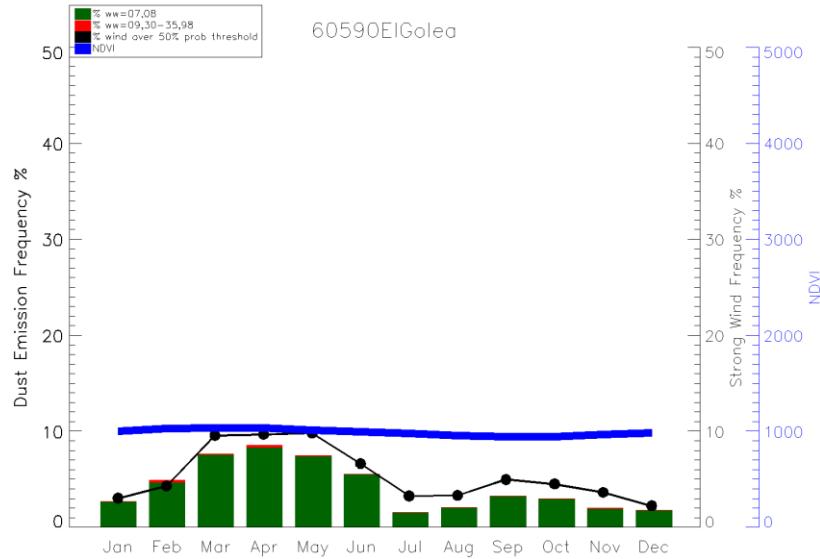
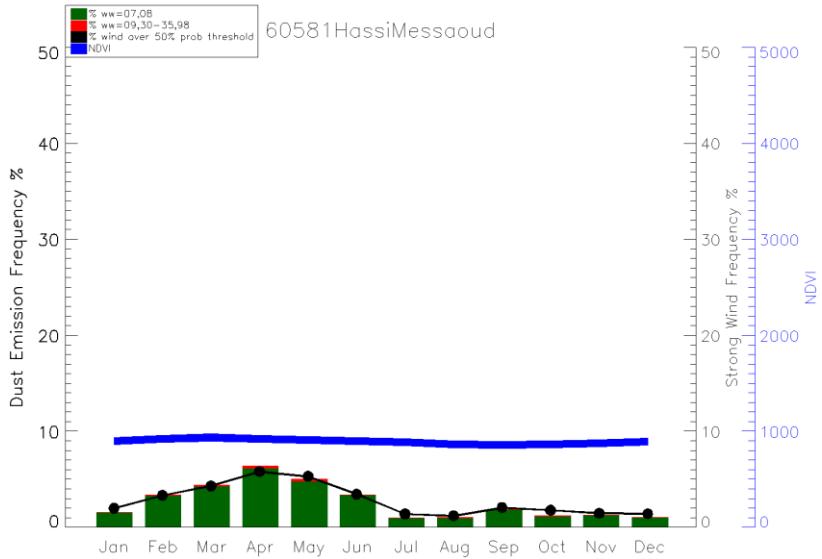
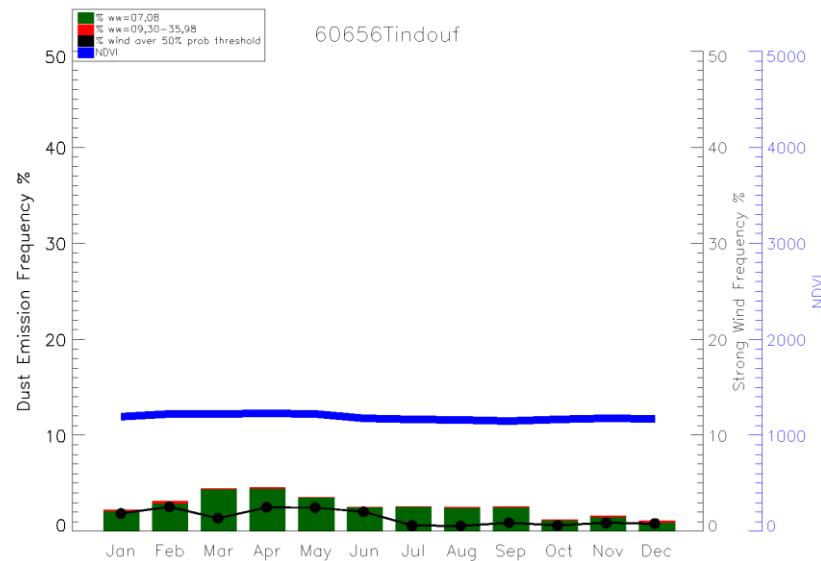
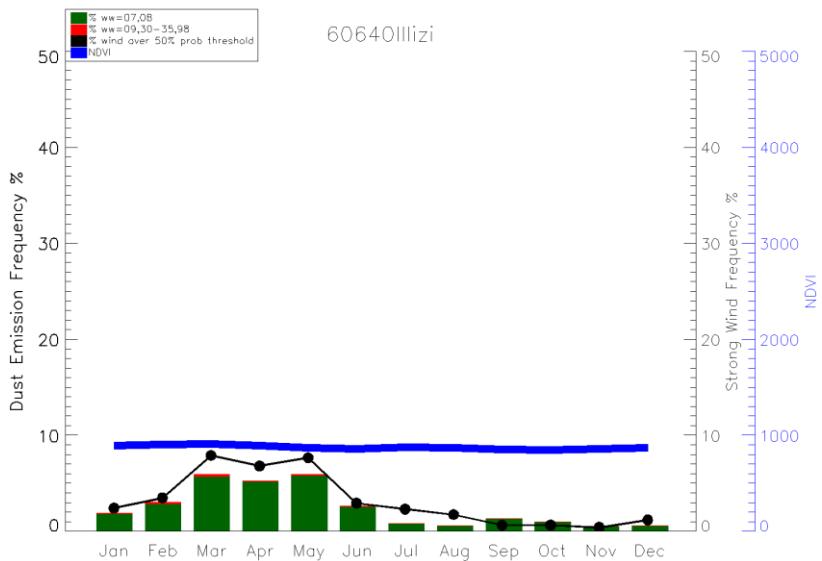
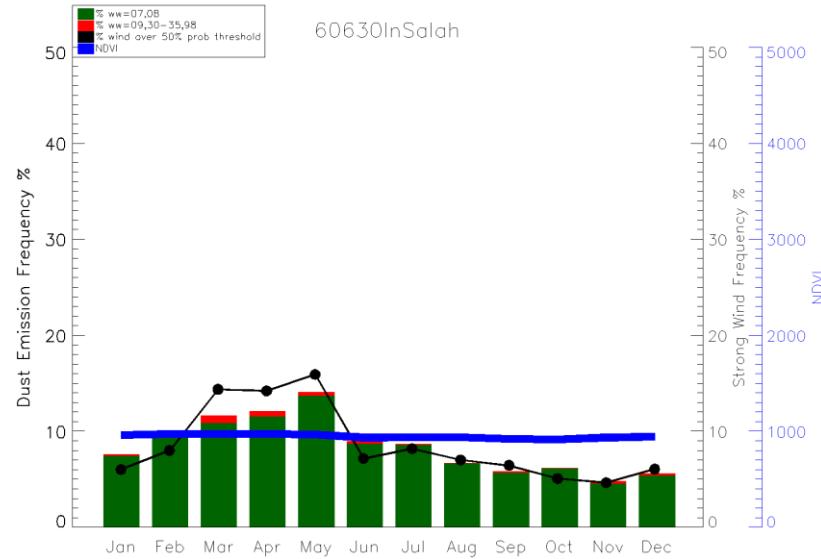
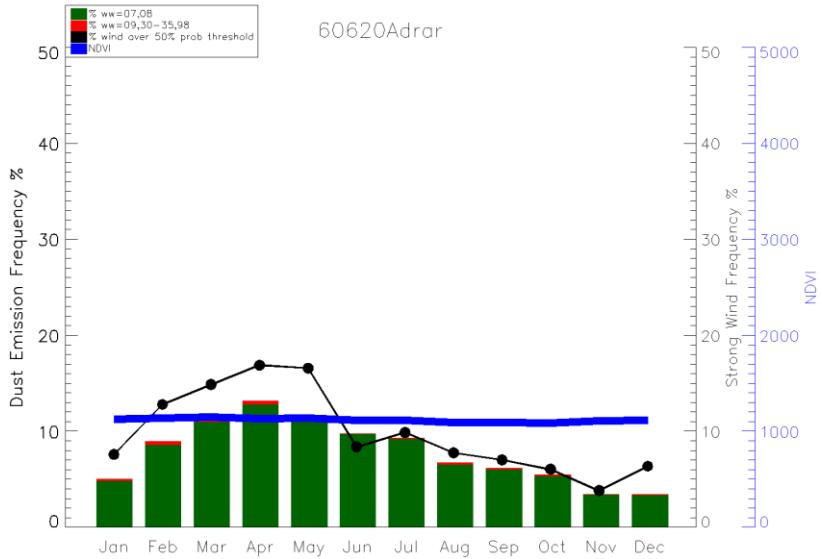


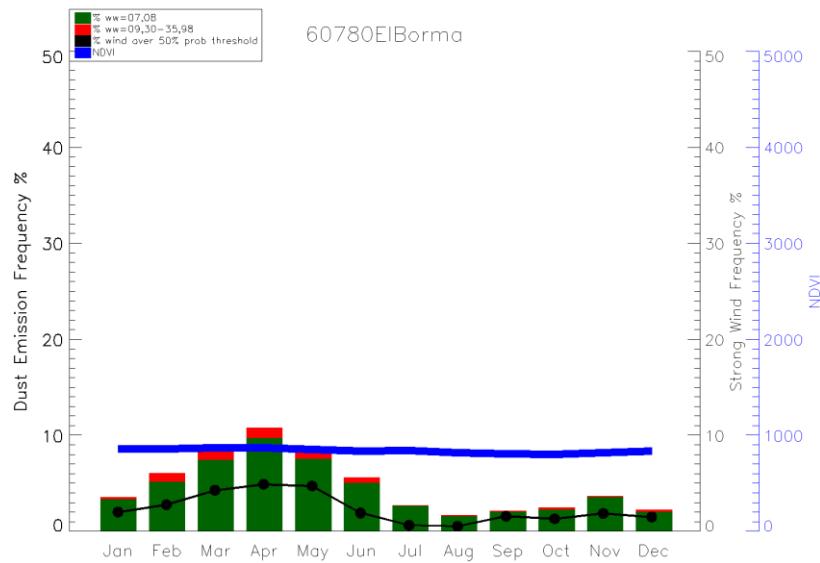
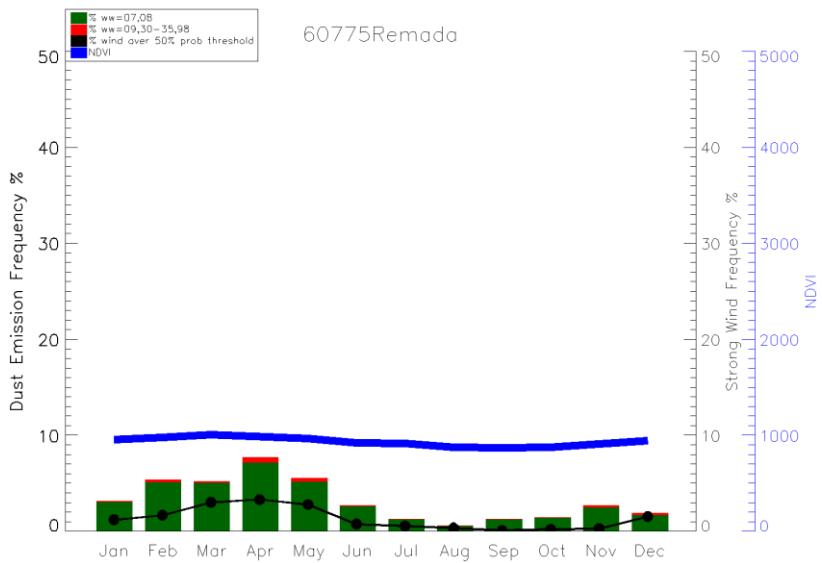
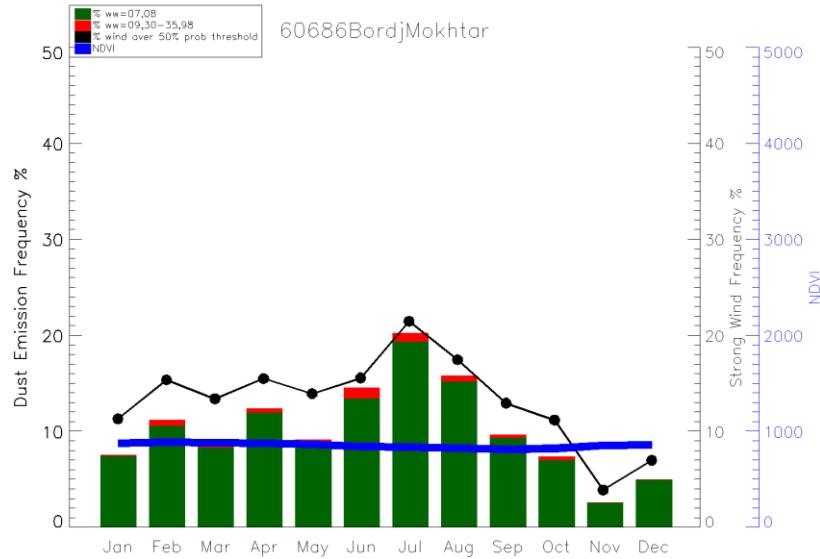
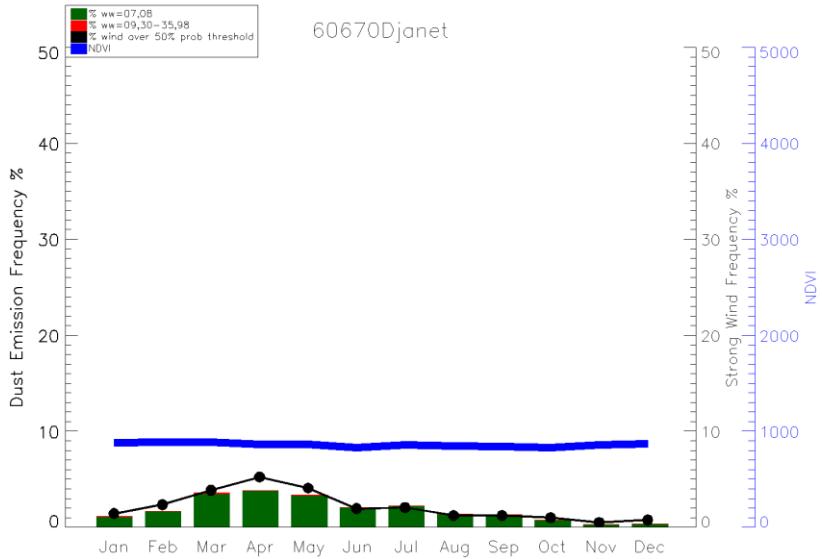
Figure S3. Annual time series of all observations (black line) and dust observations only (blue line; top plot). Seasonal time series of all observations (middle plot) where DJF=winter(black), MAM=spring(blue), JJA=summer(green), SON=(autumn). The bottom panel is the same as the middle, but for dust observations only.

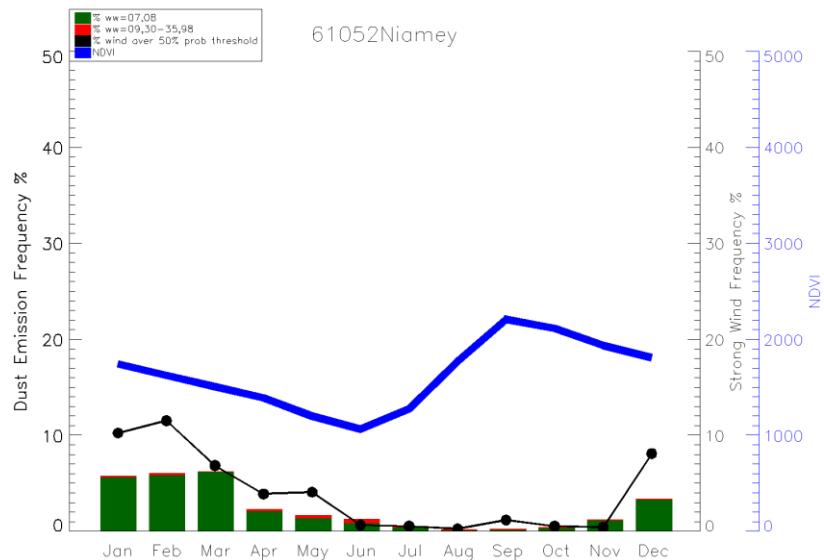
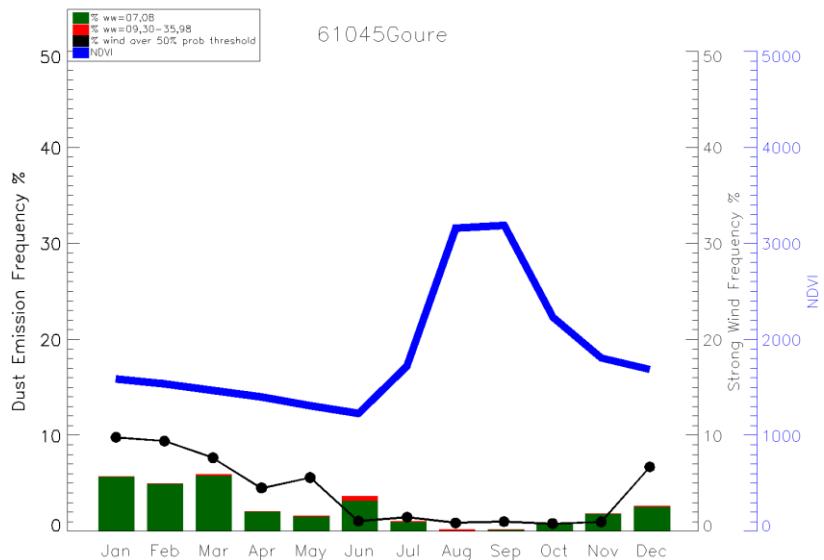
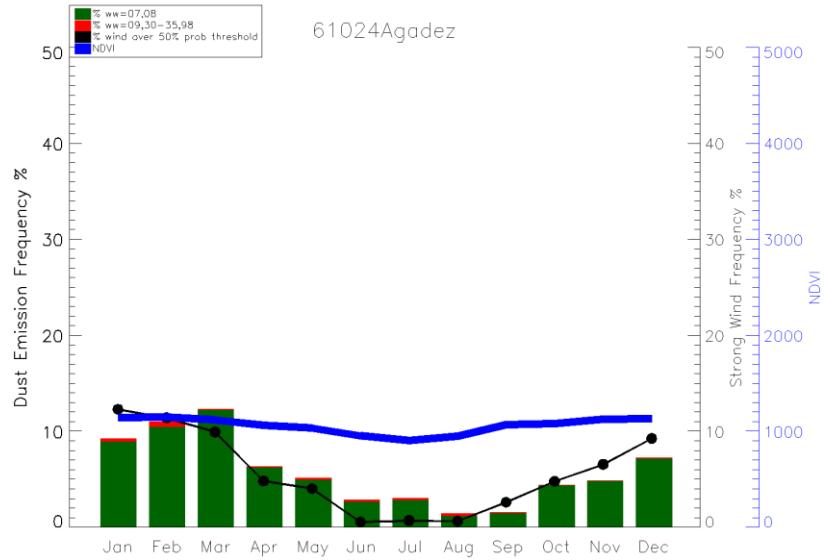
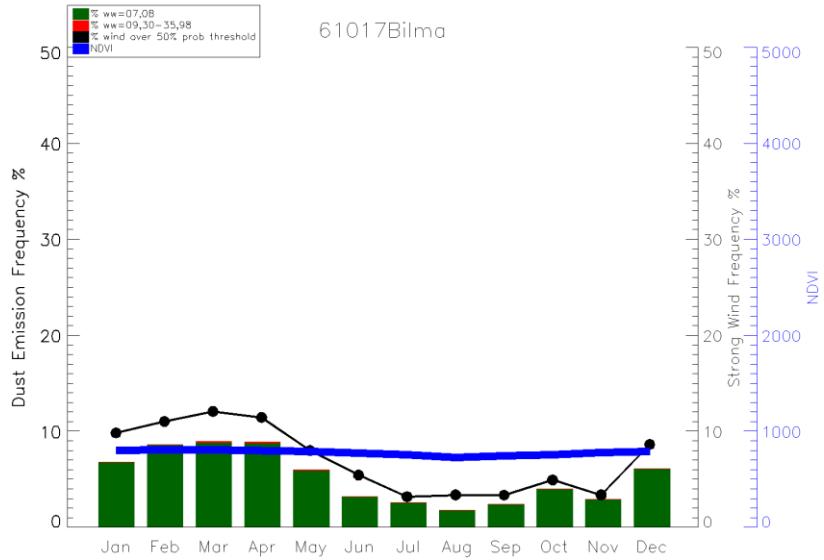


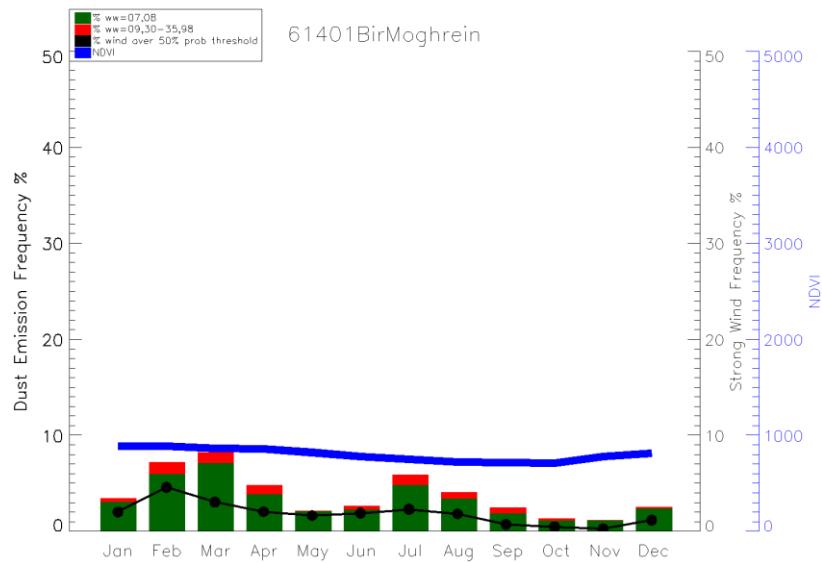
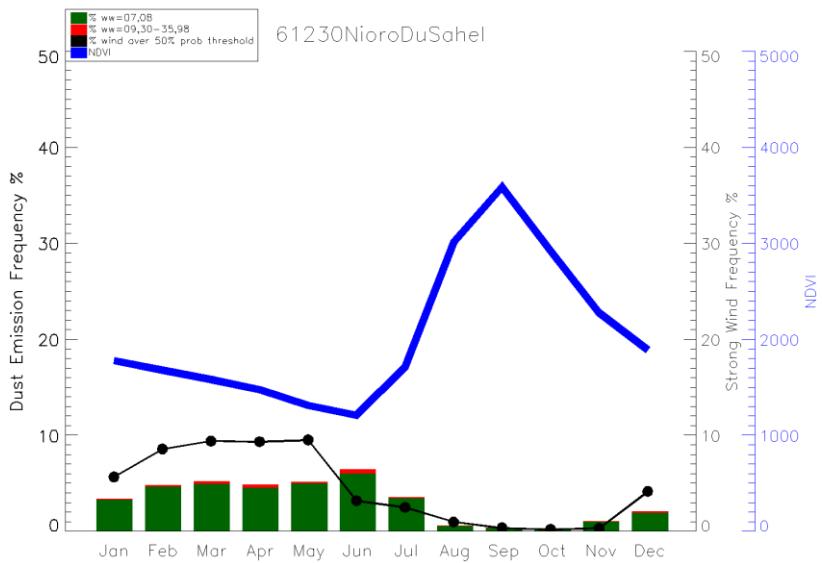
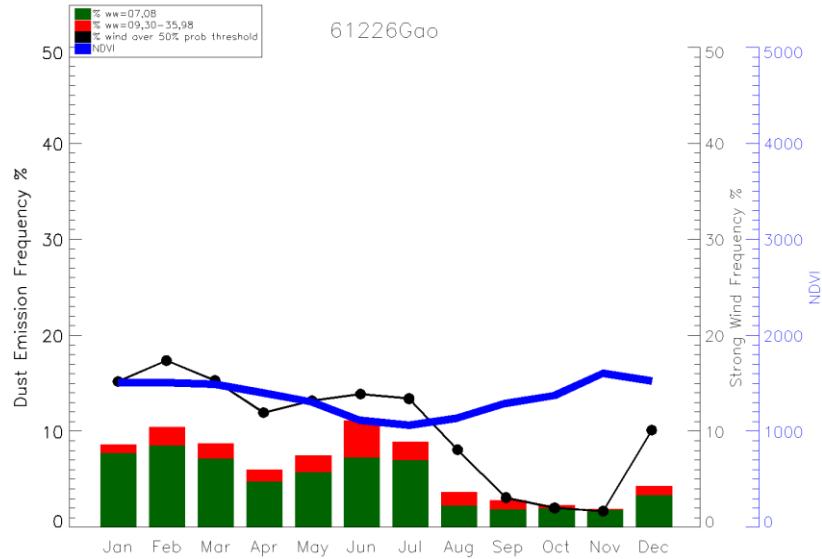
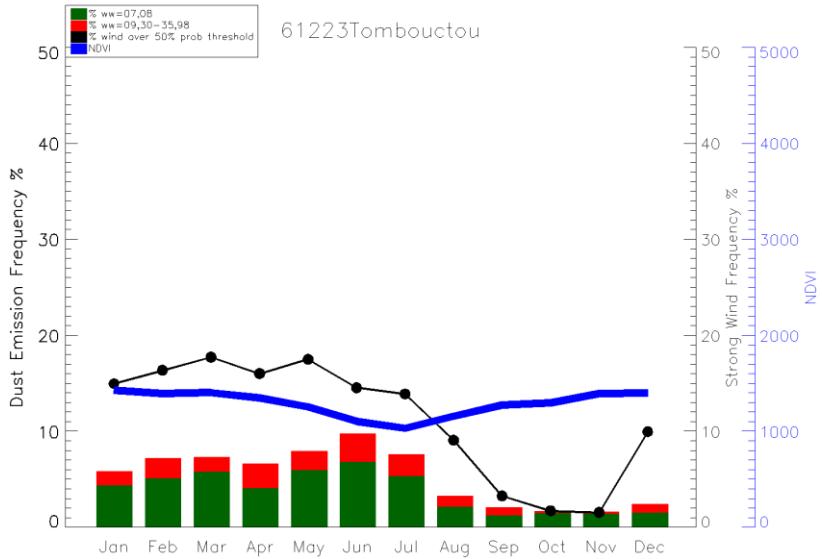


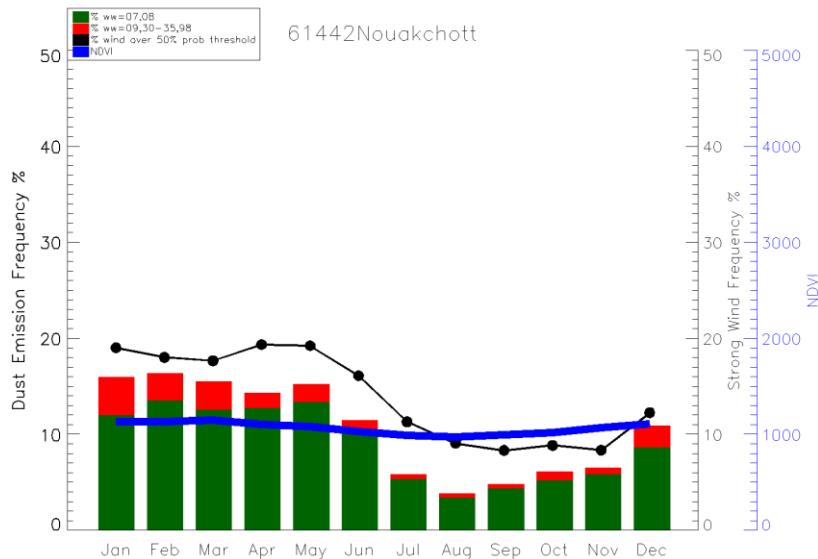
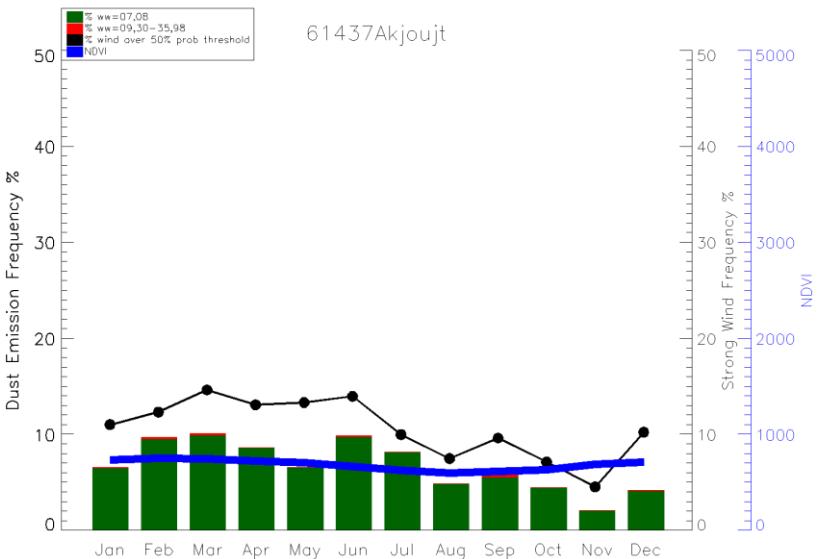
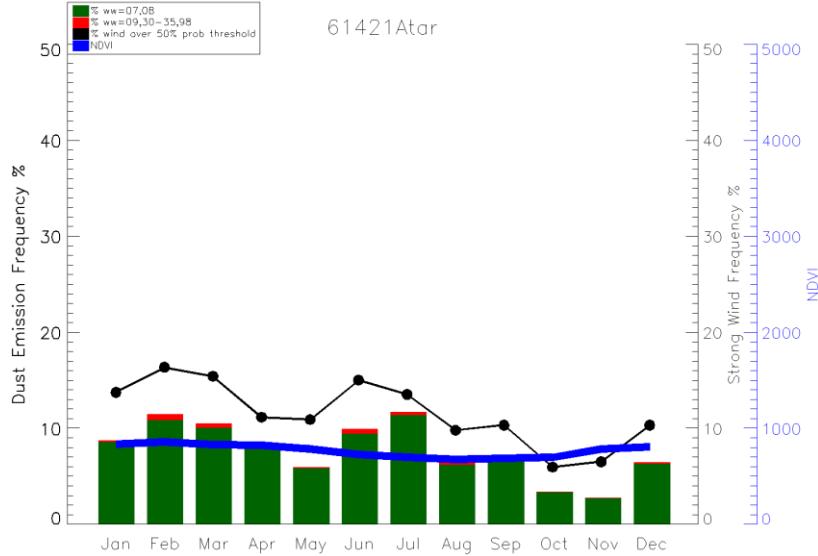
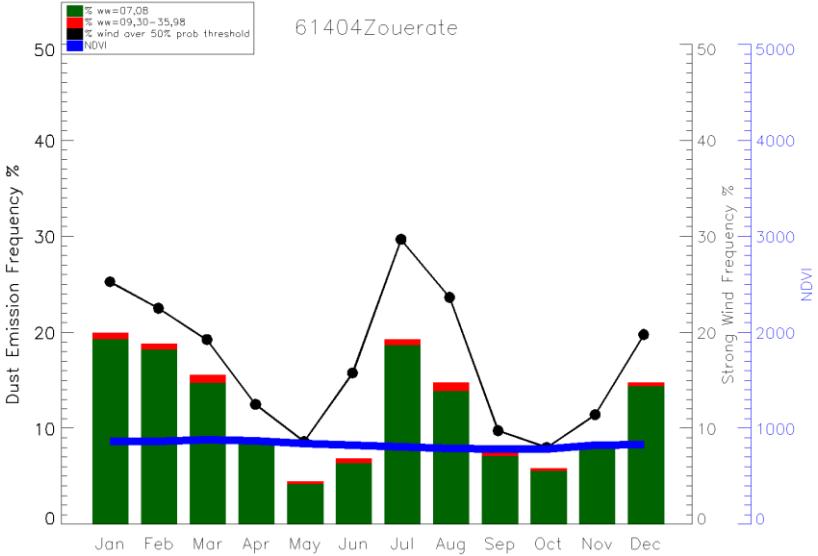


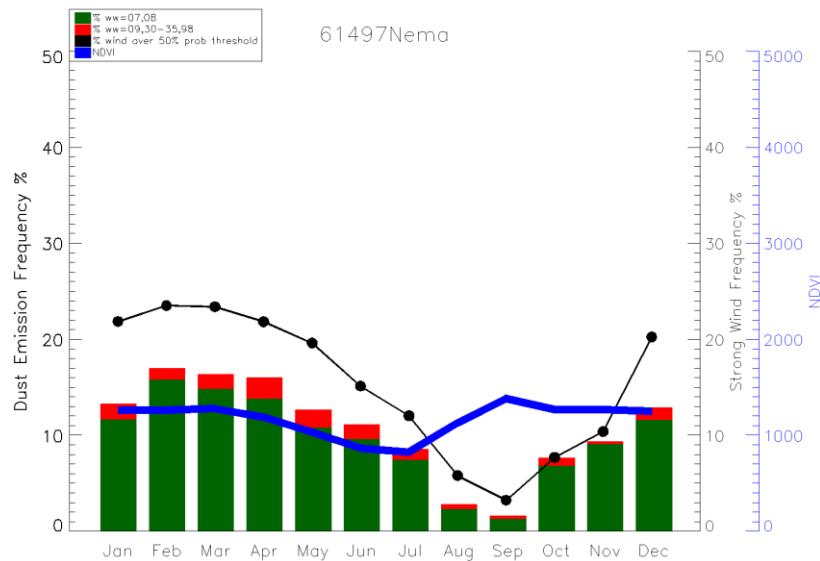
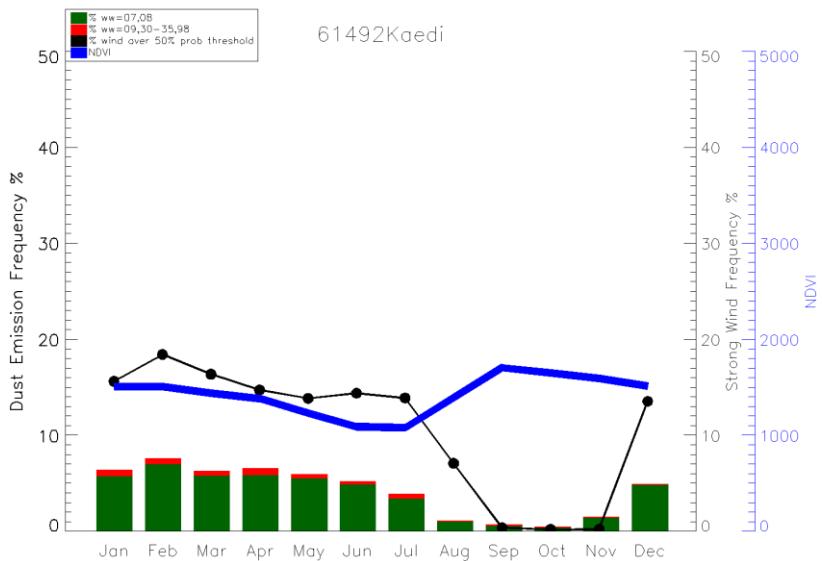
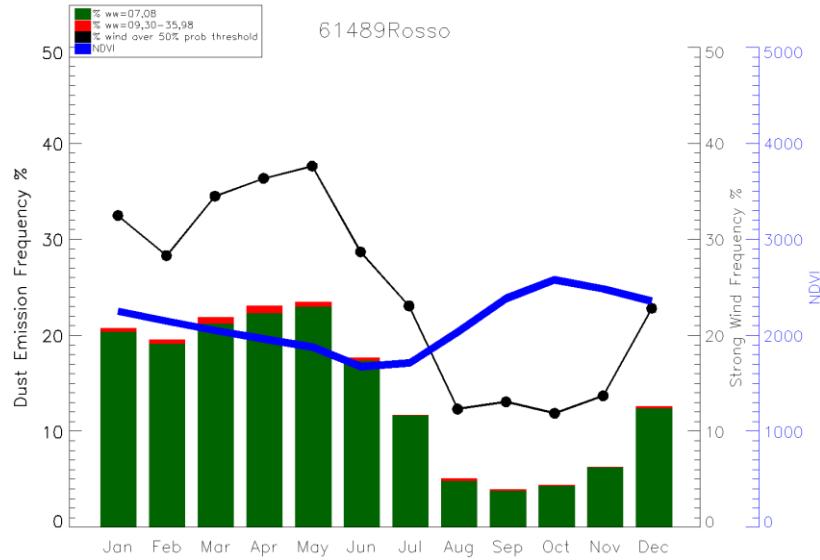
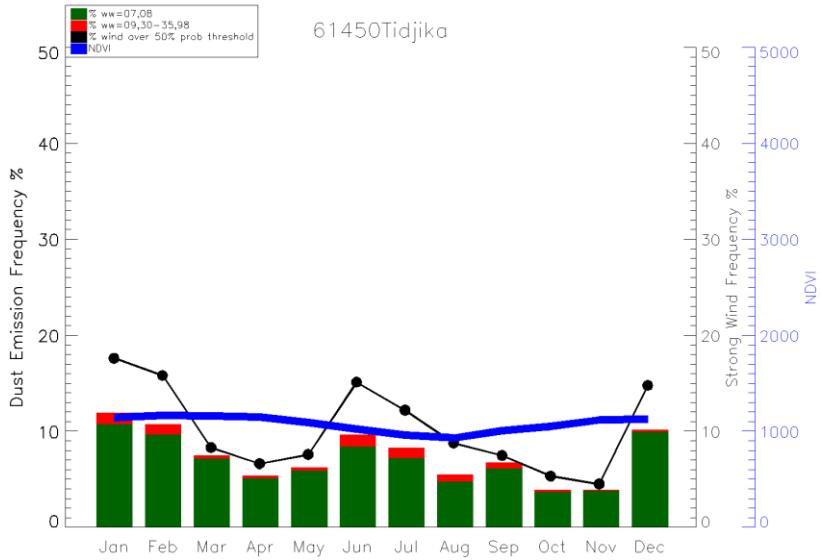


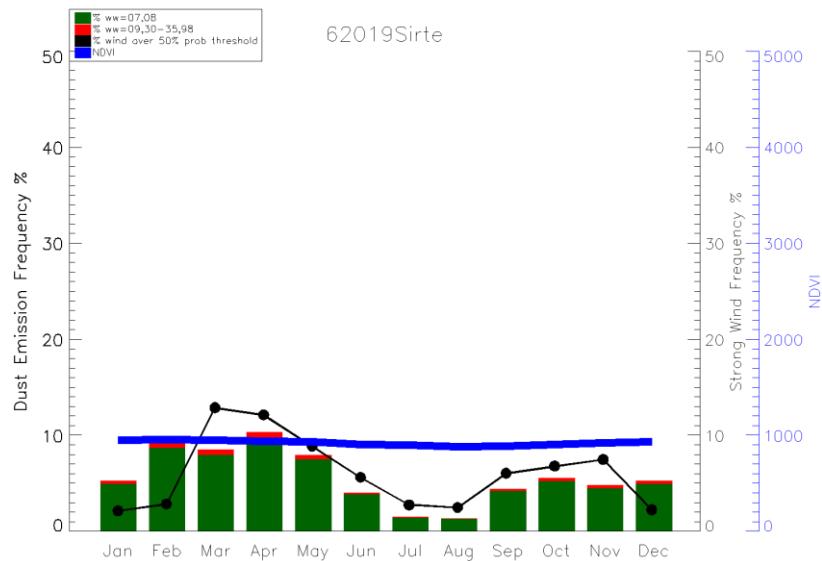
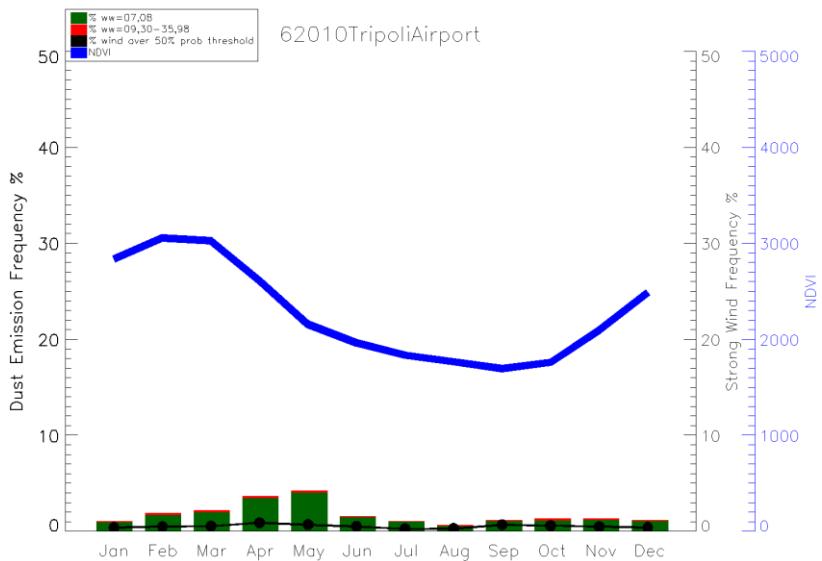
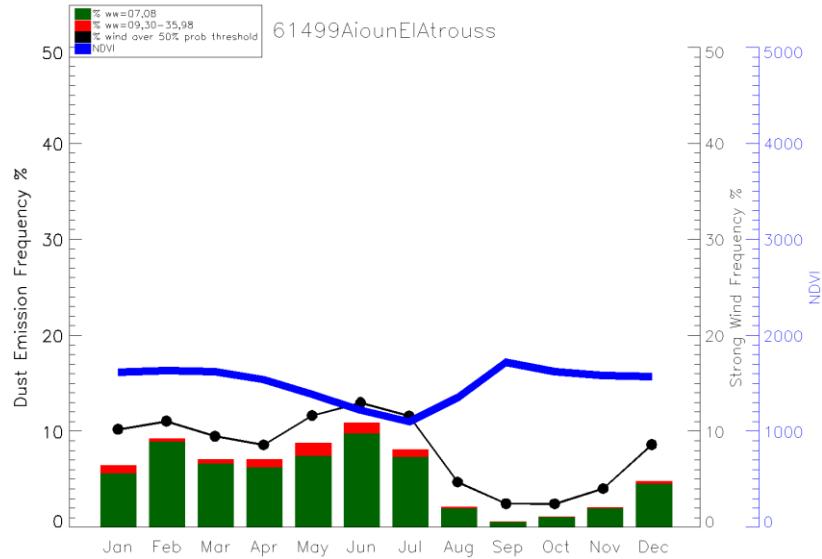
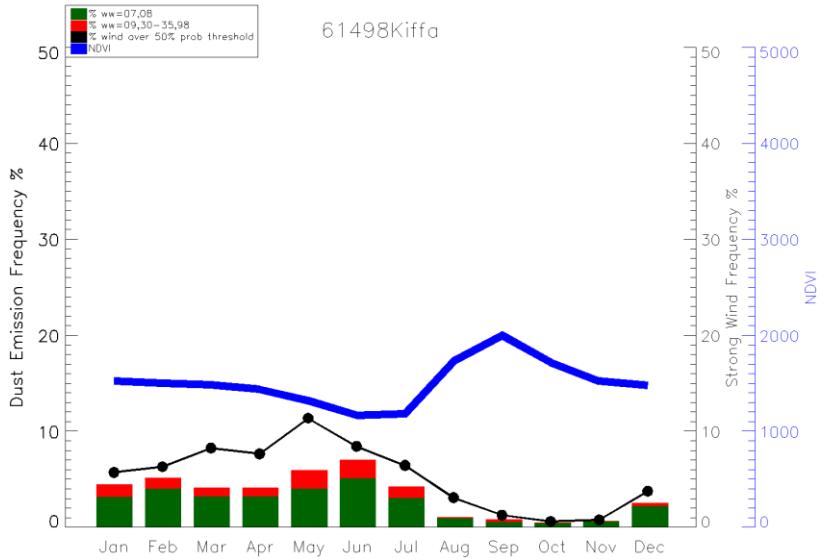


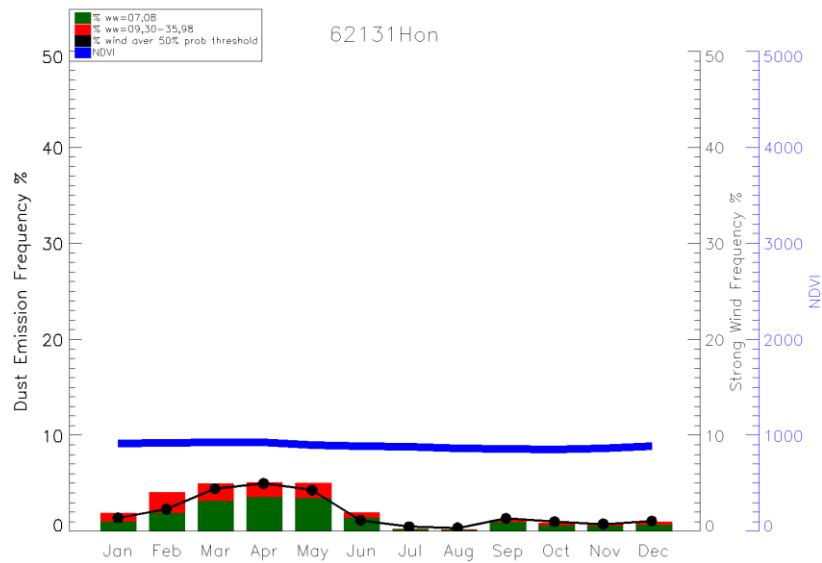
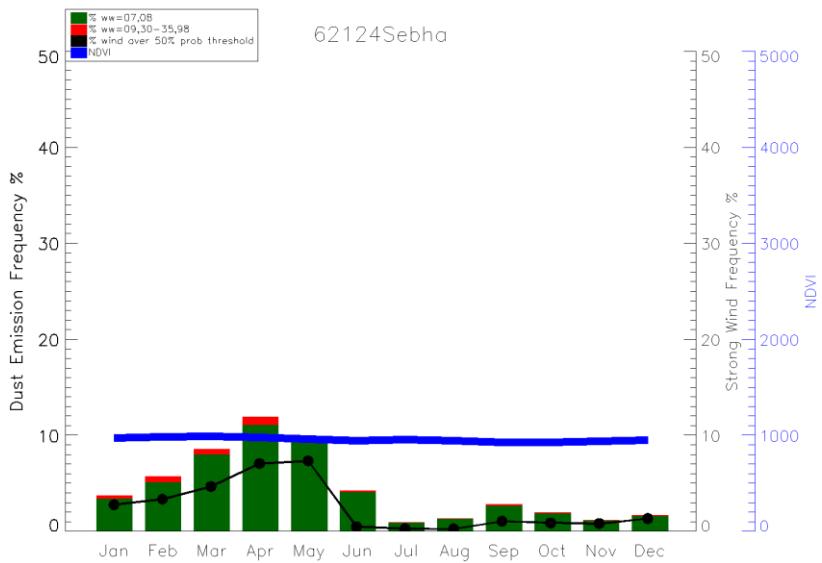
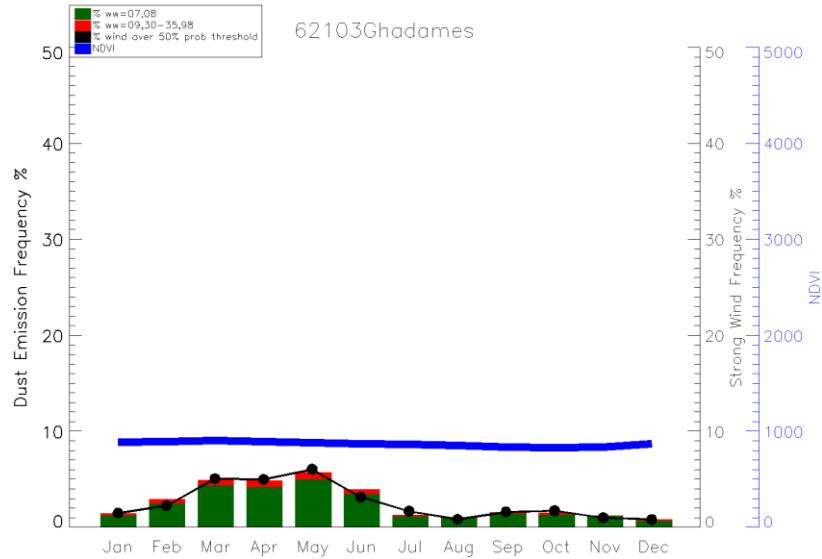
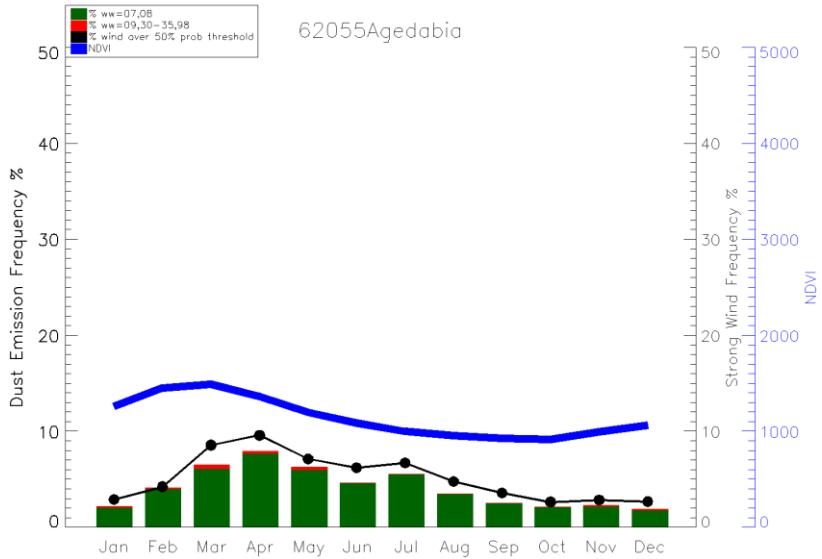


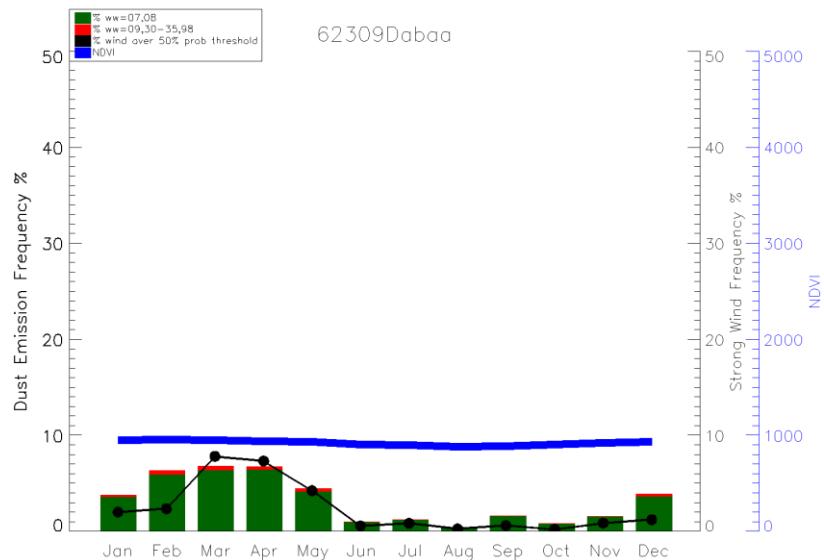
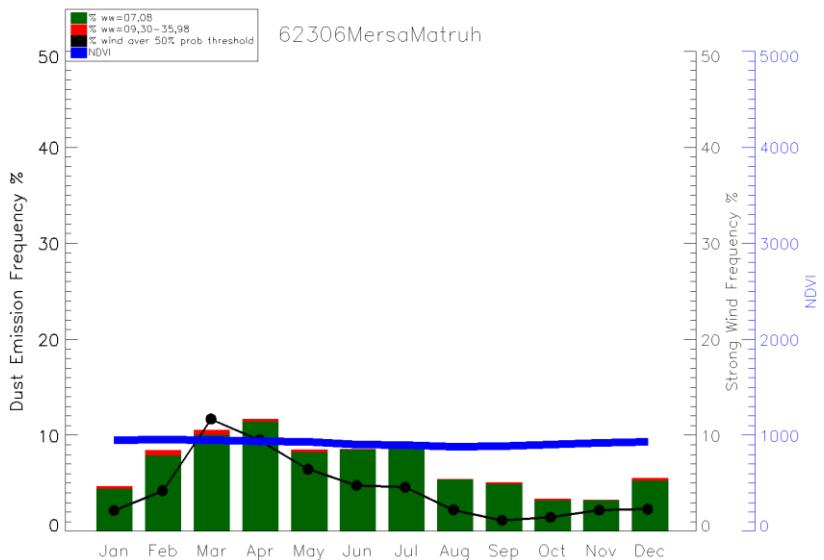
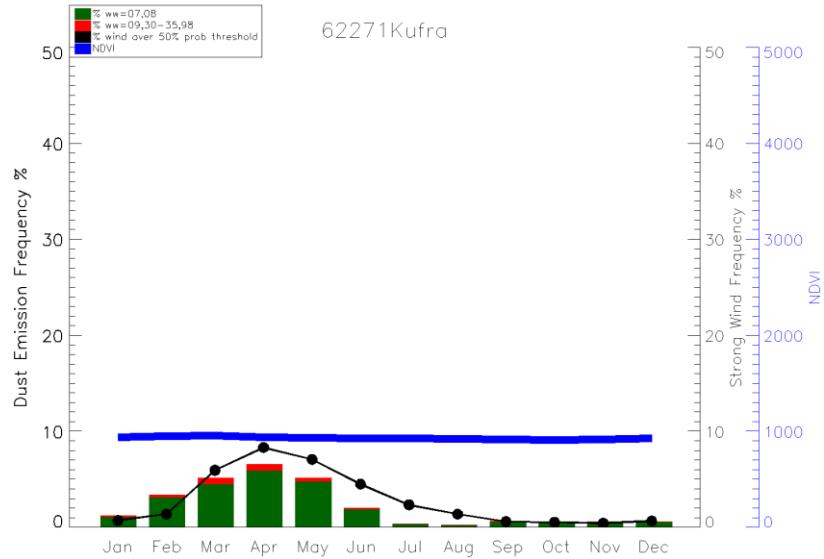
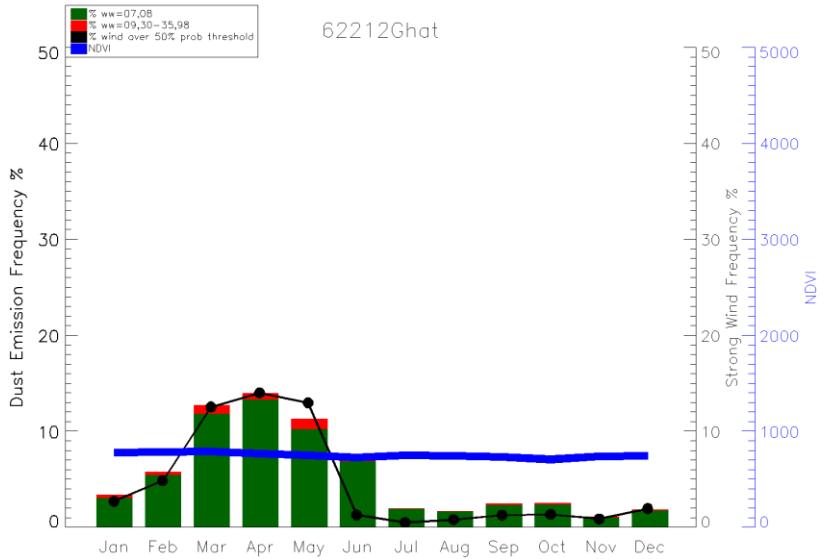


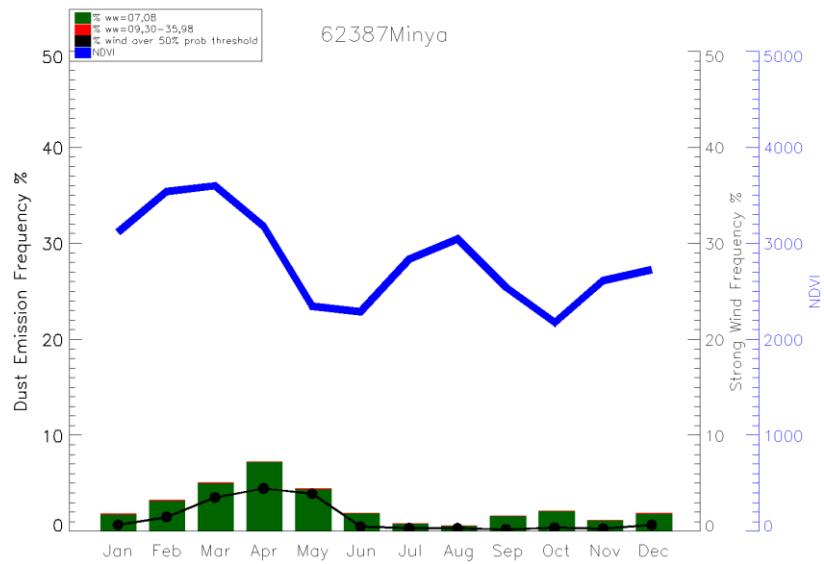
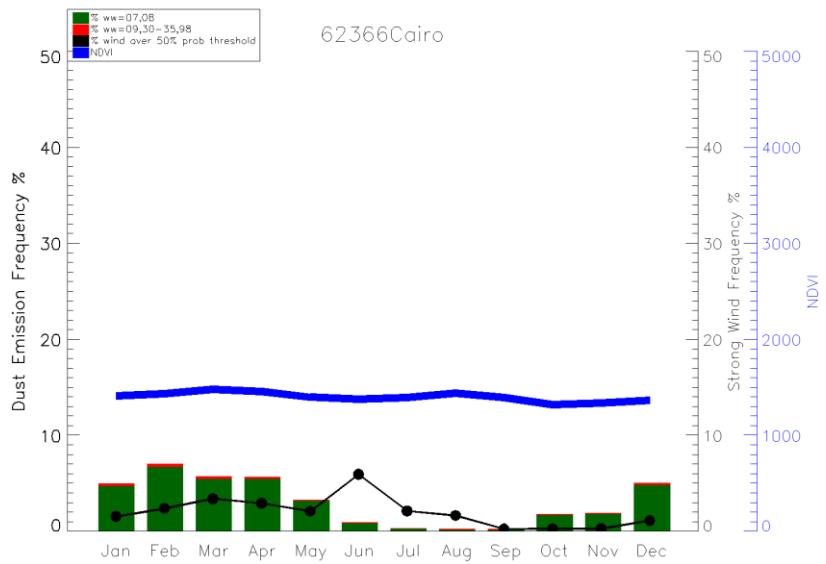
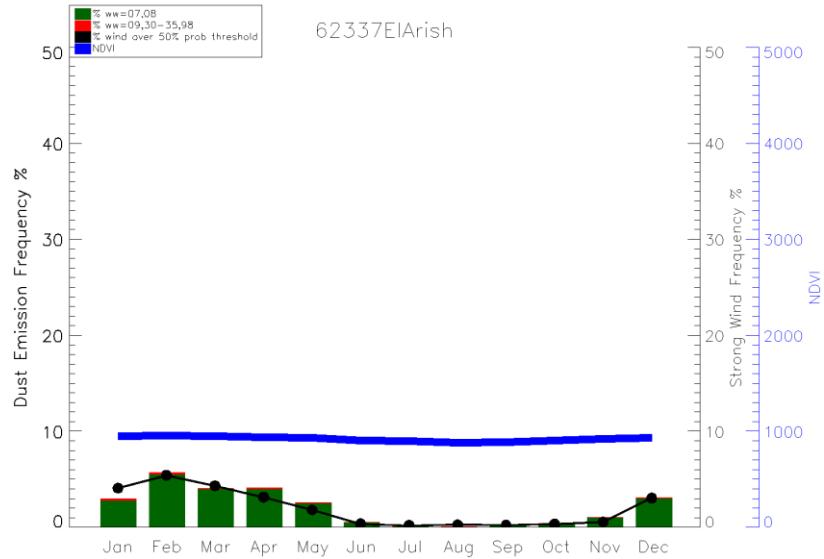
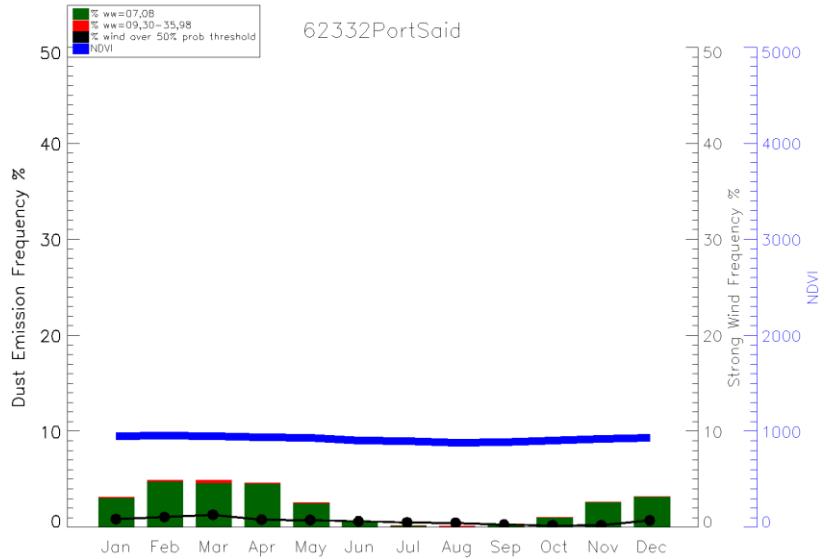


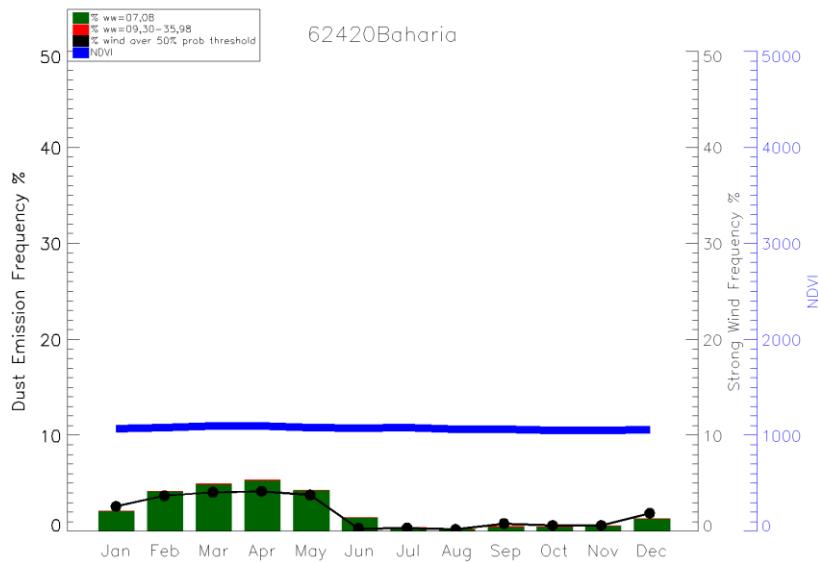
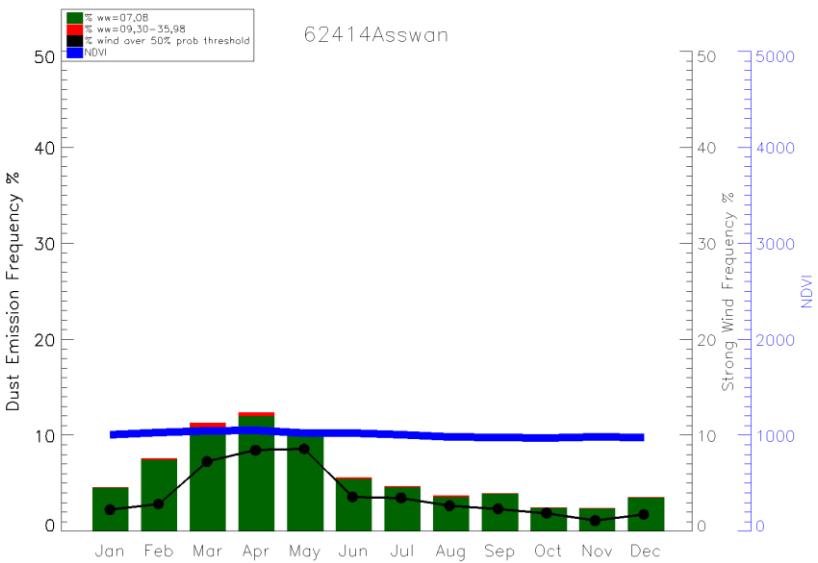
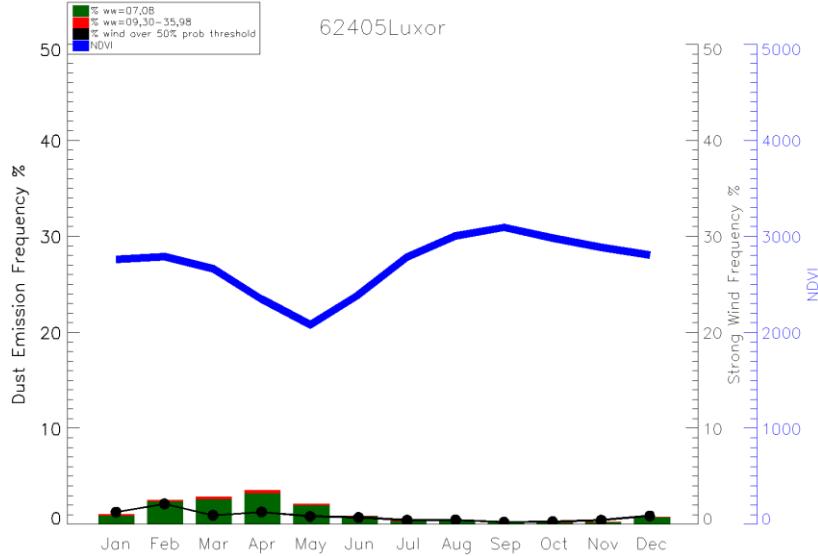
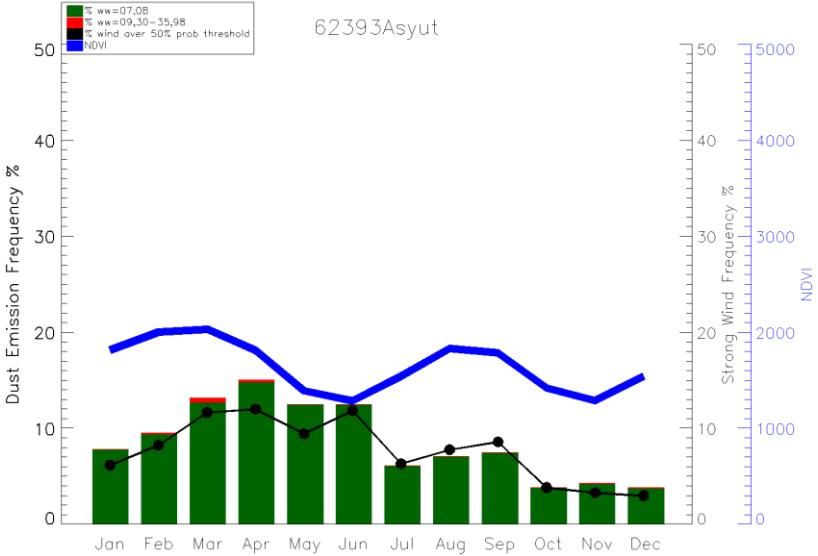


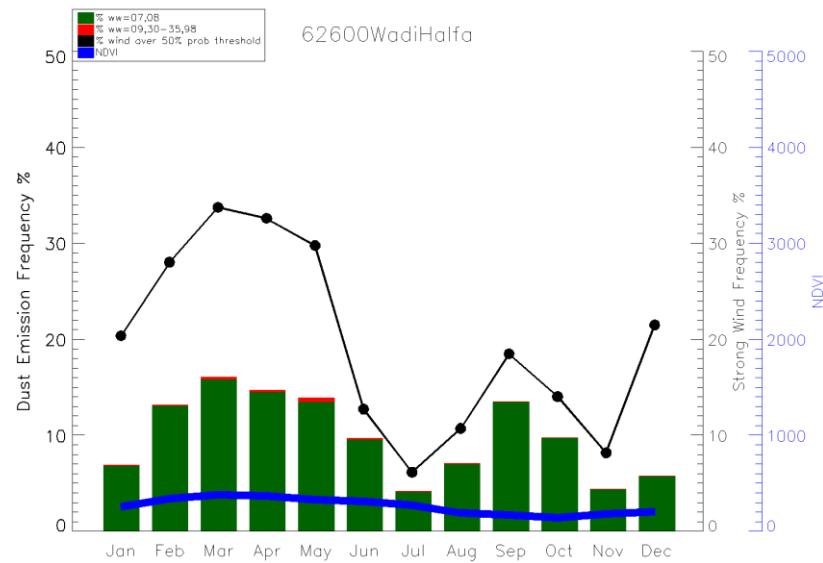
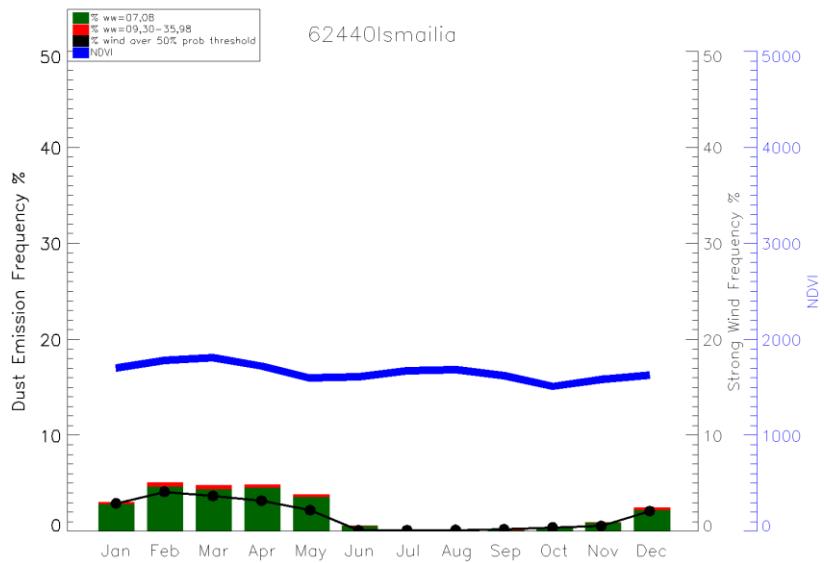
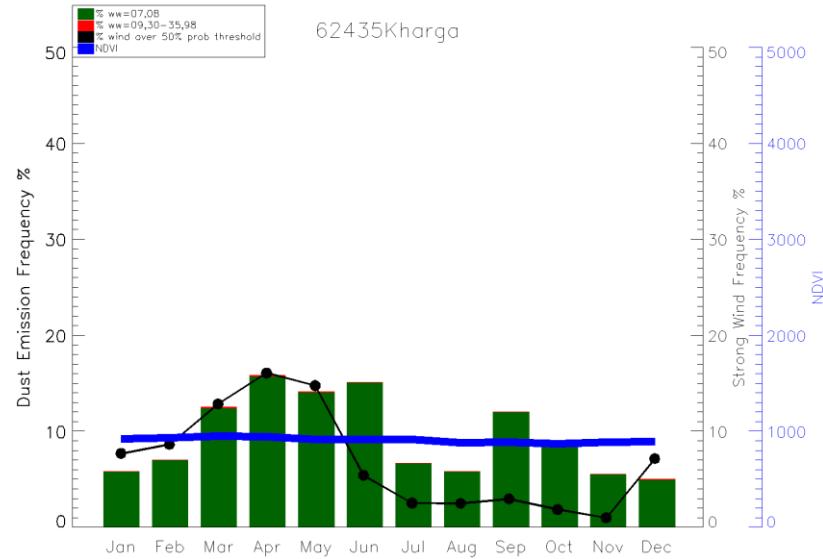
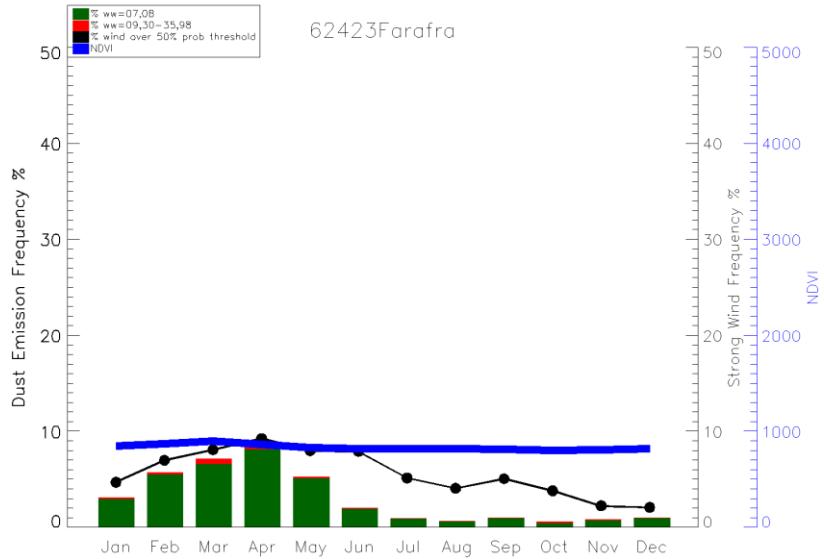


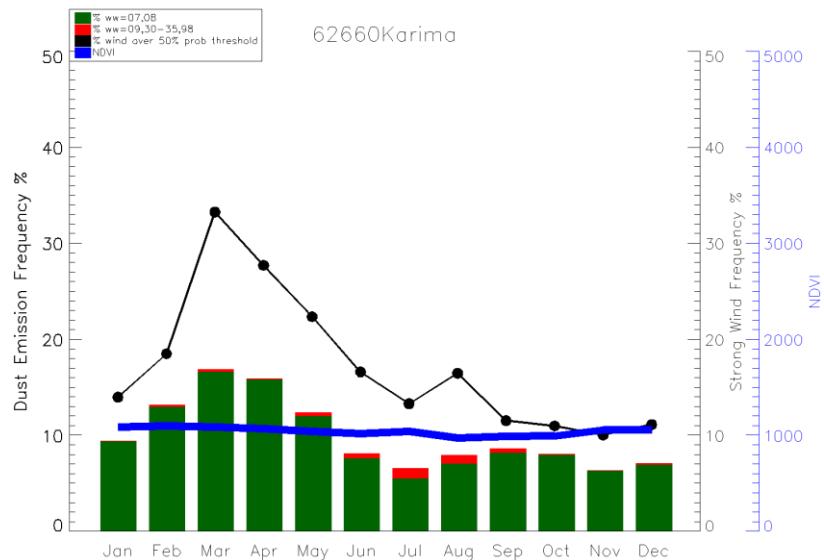
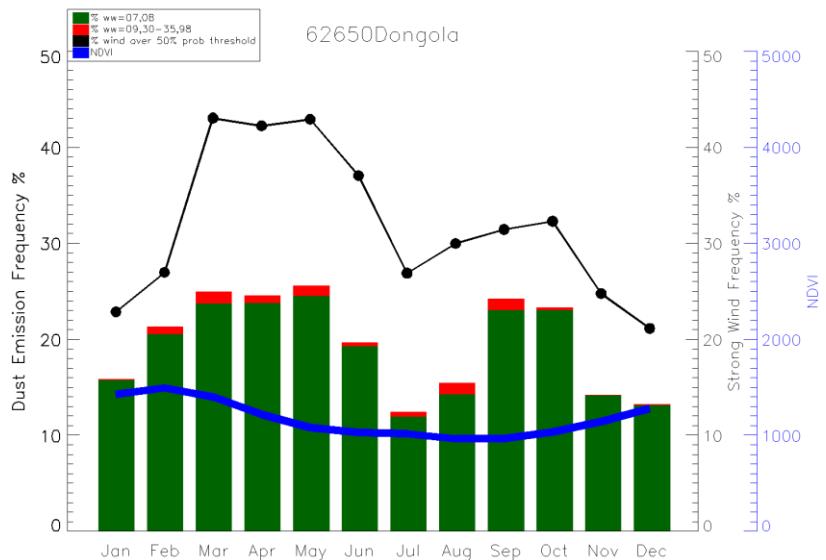
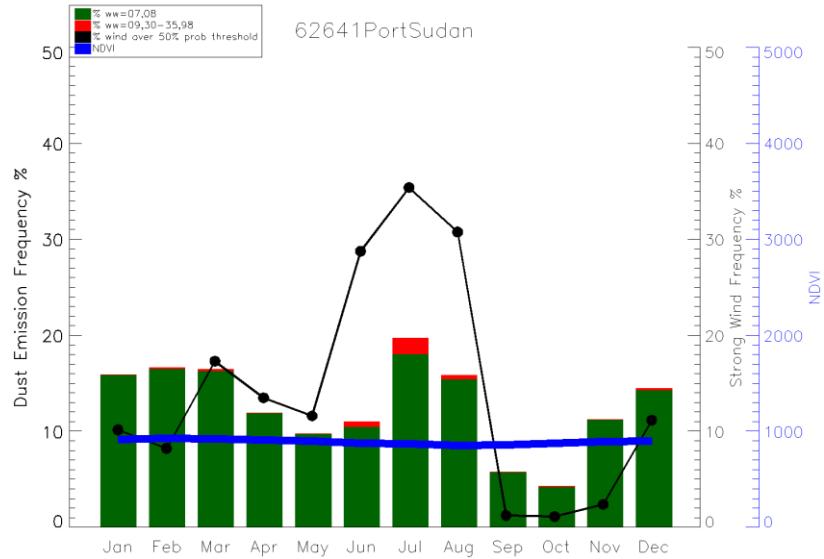
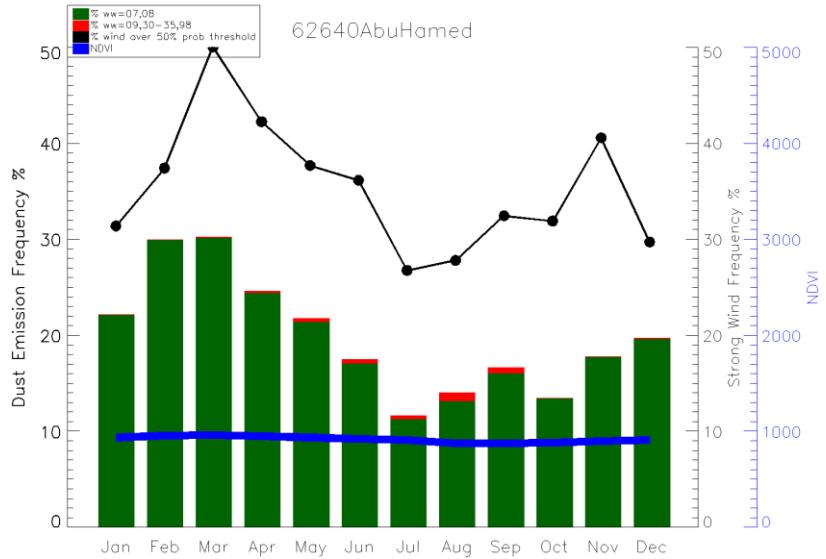


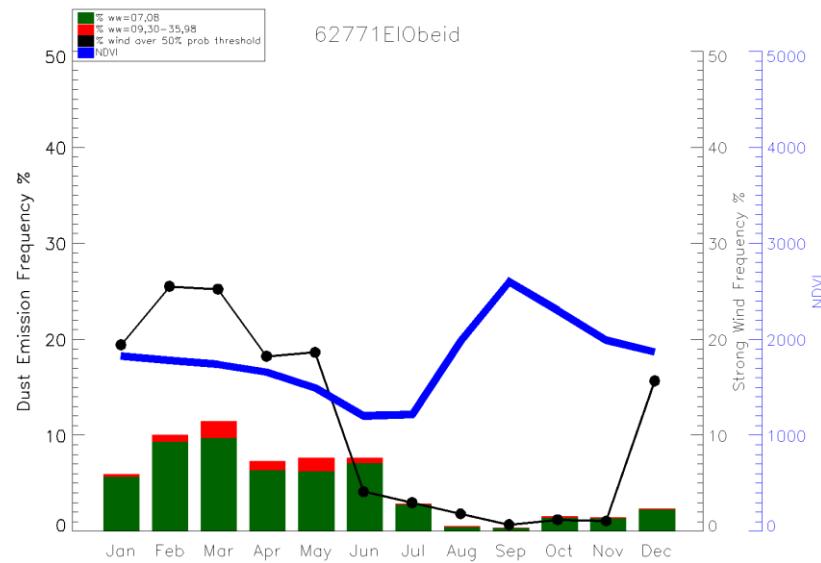
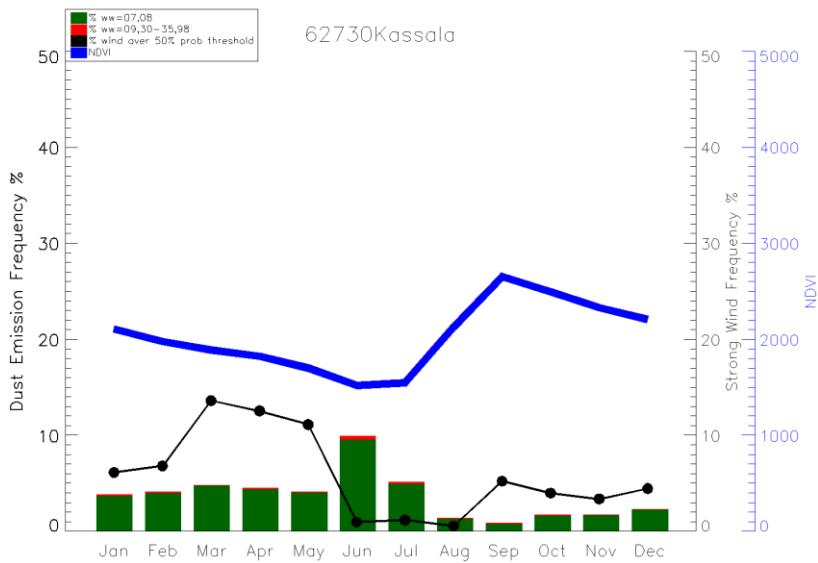
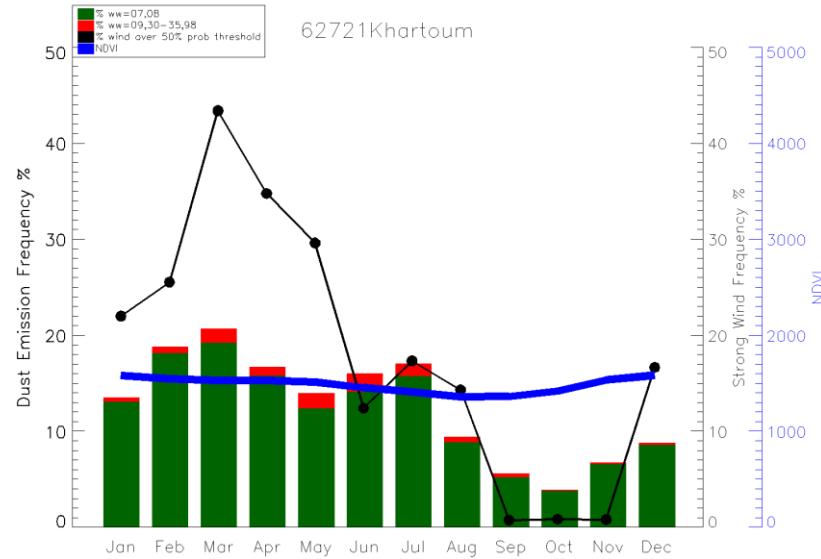
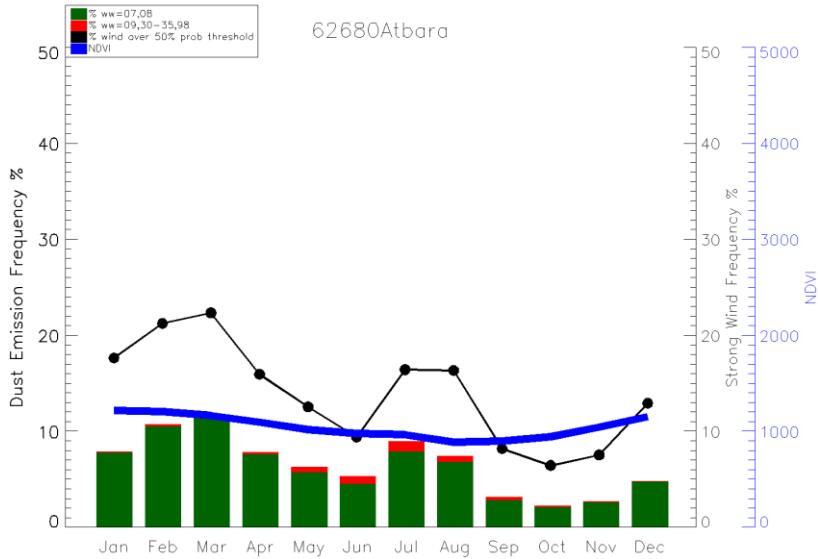












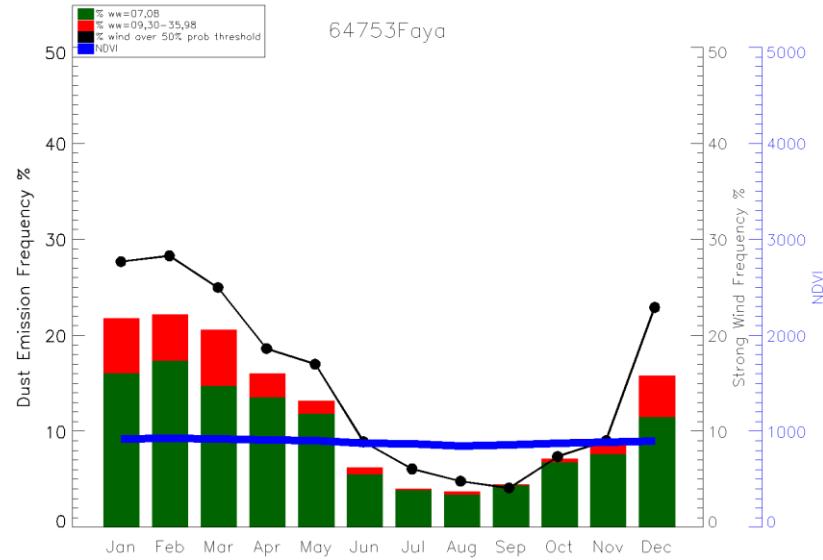
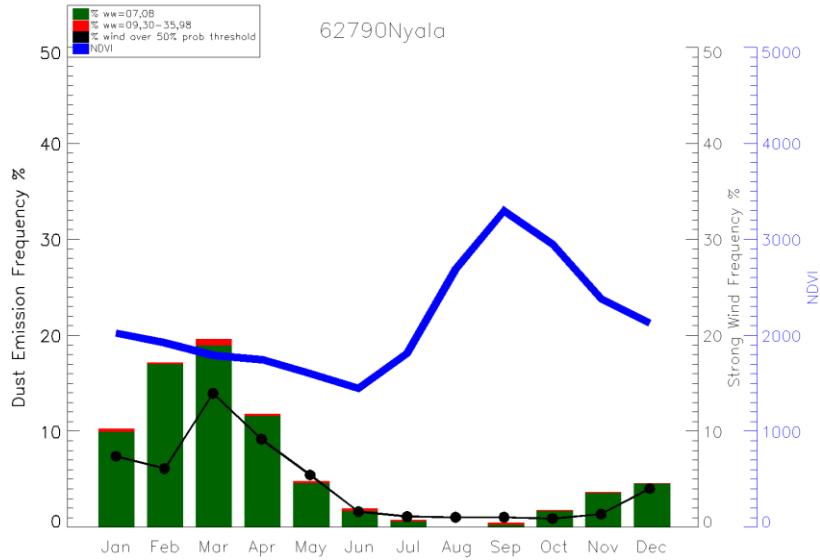


Figure S4. Mean seasonal cycle of frequency of dust emission (FDE) and strong wind frequency (SWF) for each of the 70 stations. Monthly mean FDE is split into BDF (green bars) and DSF (red bars) (for definitions, see main paper section 2.1.1), as well as monthly mean NDVI (blue lines) calculated for a 24km×24km box centred on each station. Strong wind frequency (SWF; black dotted line) is calculated for winds over T50 (see main paper, section 2.2.1) at each station.