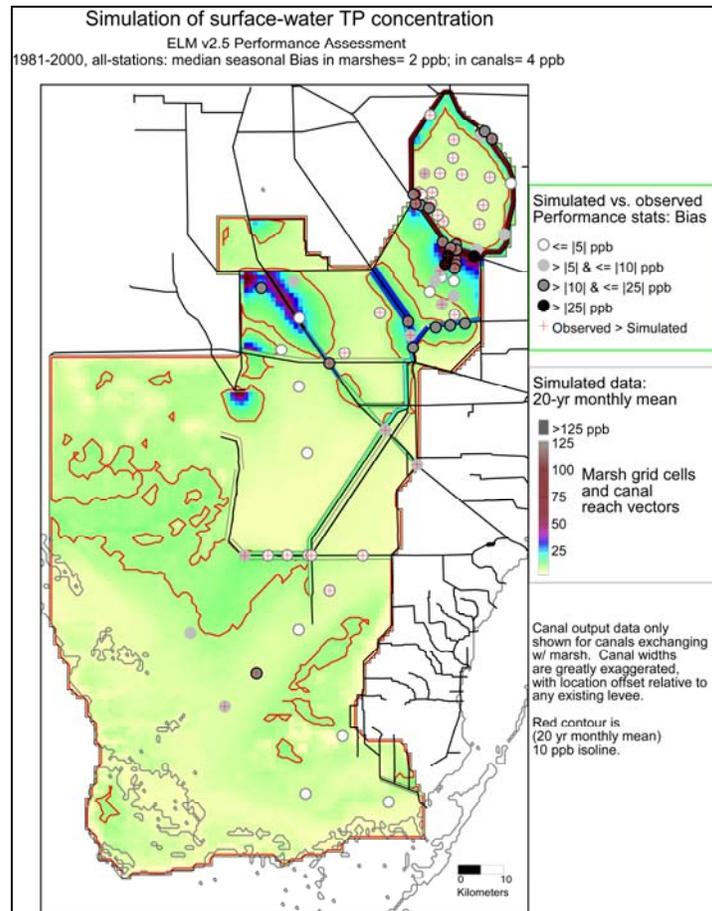


# Documentation of the Everglades Landscape Model: ELM v2.5

## Chapter 6: Model Performance – Appendices B, C, & E



<http://my.sfwmd.gov/elm>

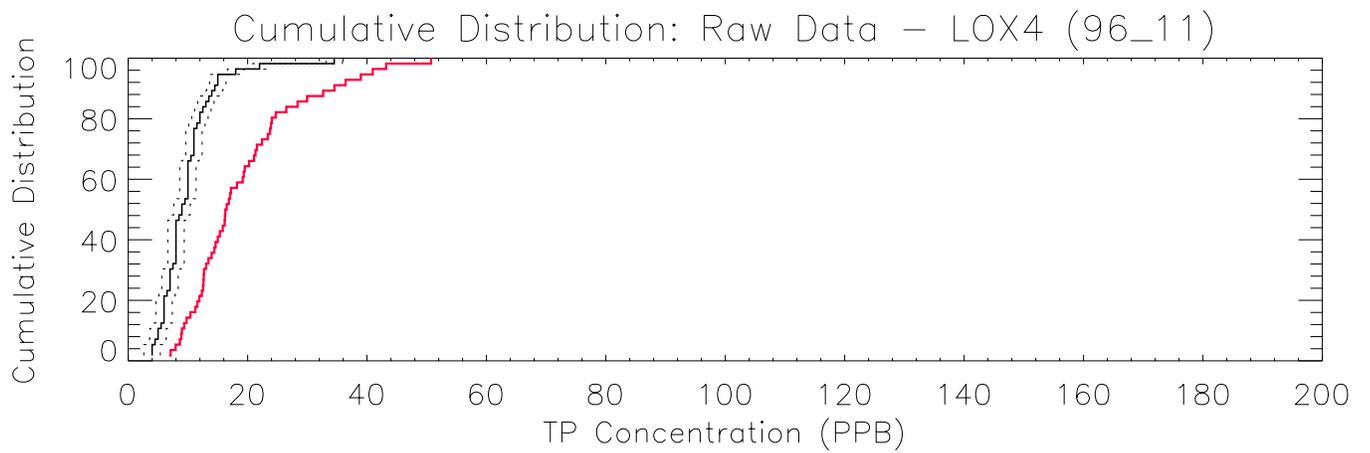
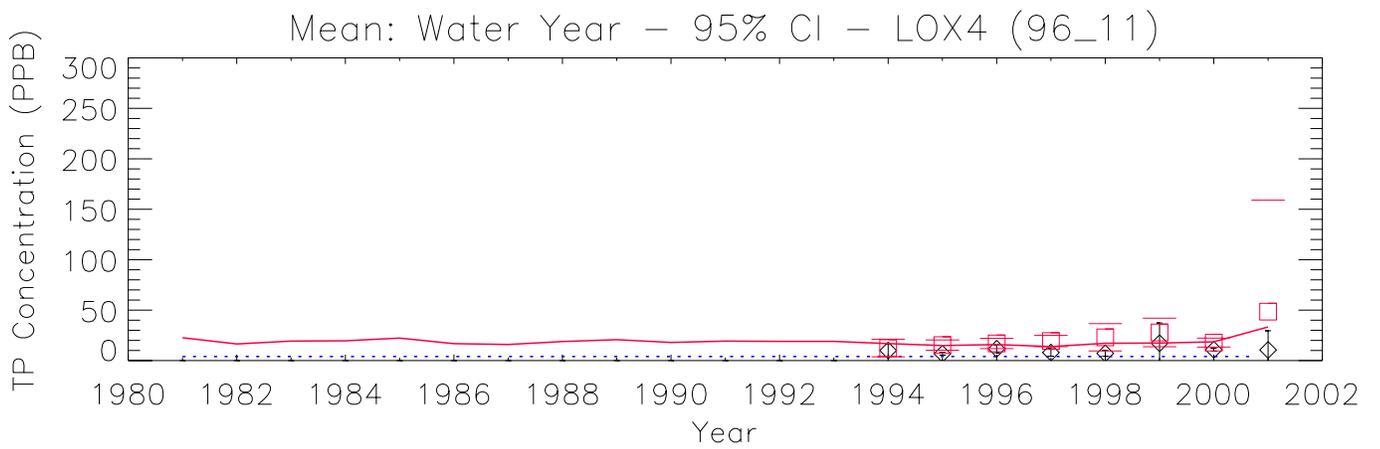
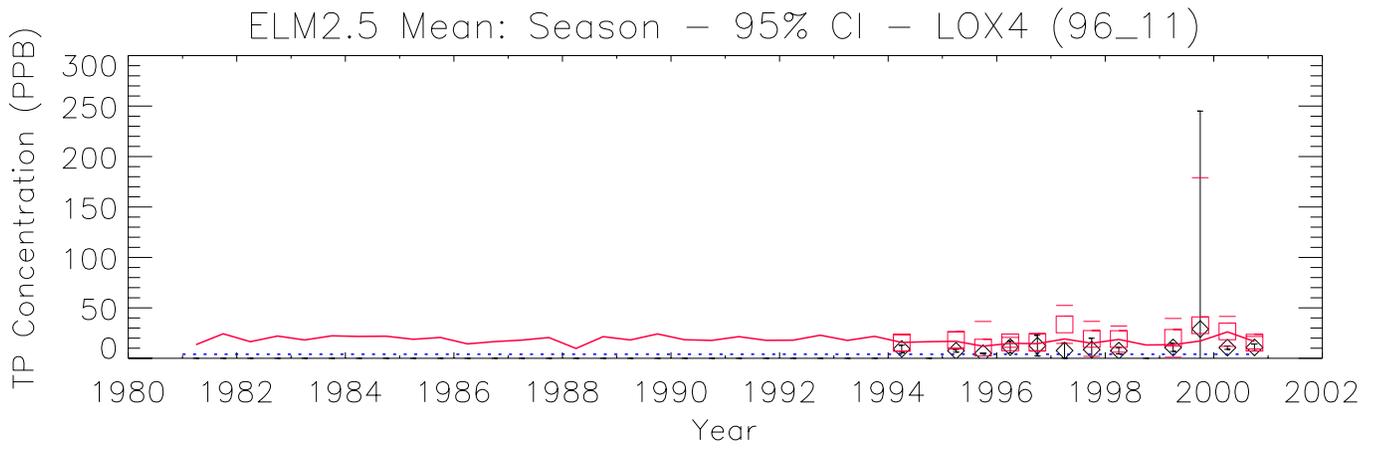
July 10, 2006

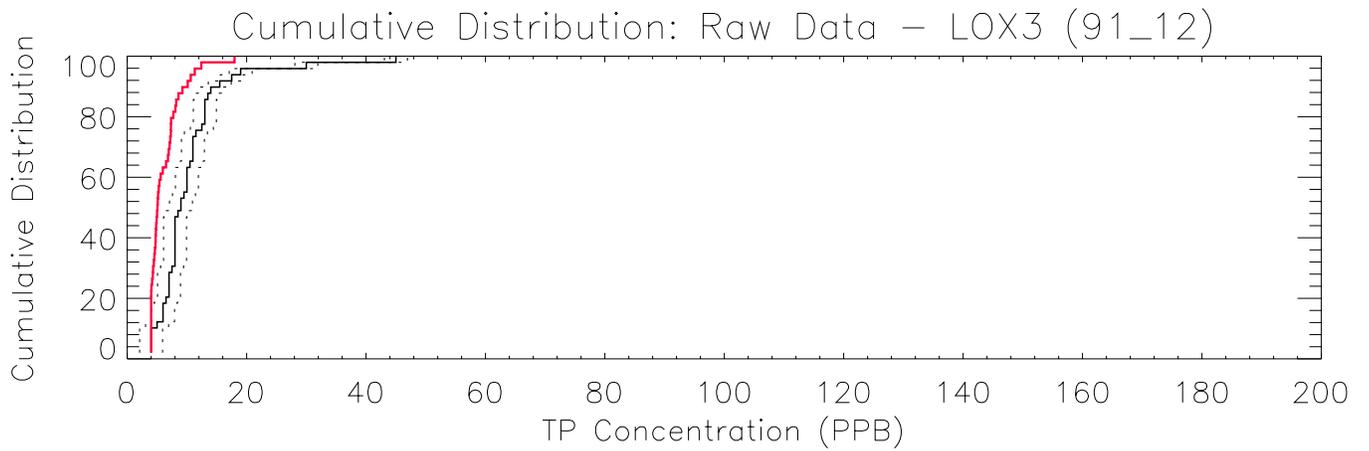
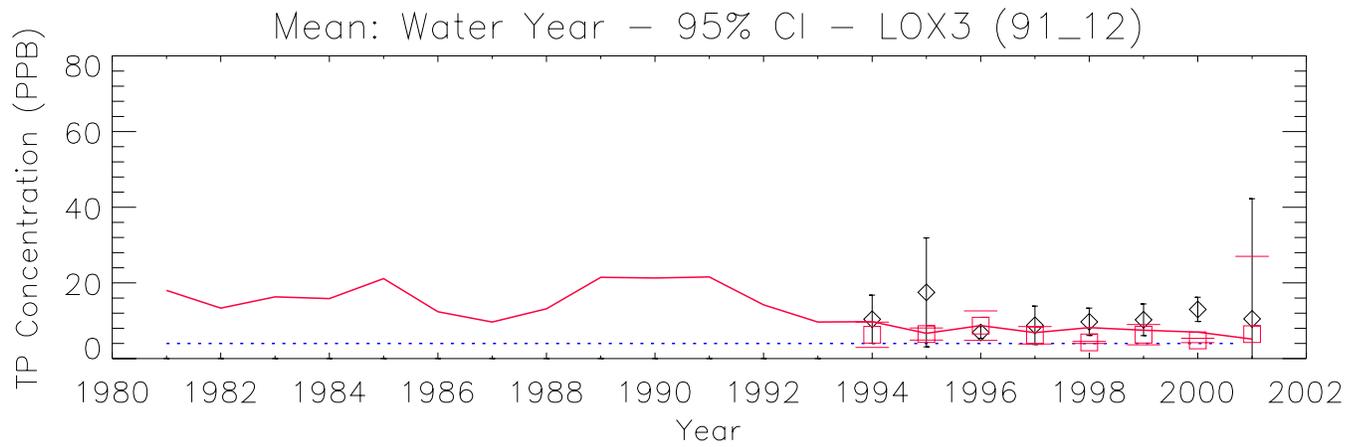
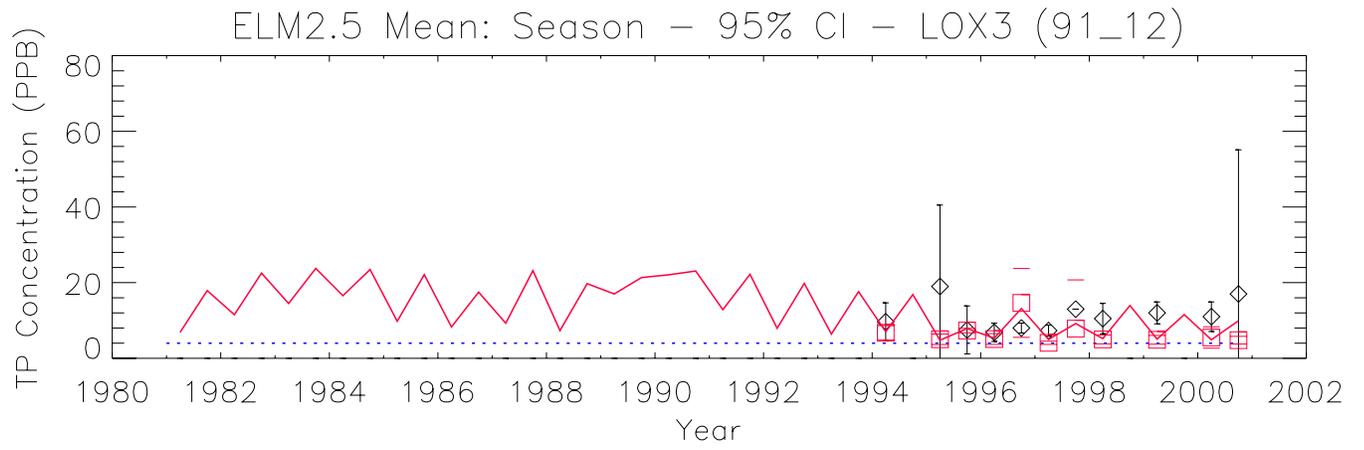
## 6.10 Appendix B: Time series & CFDs: TP

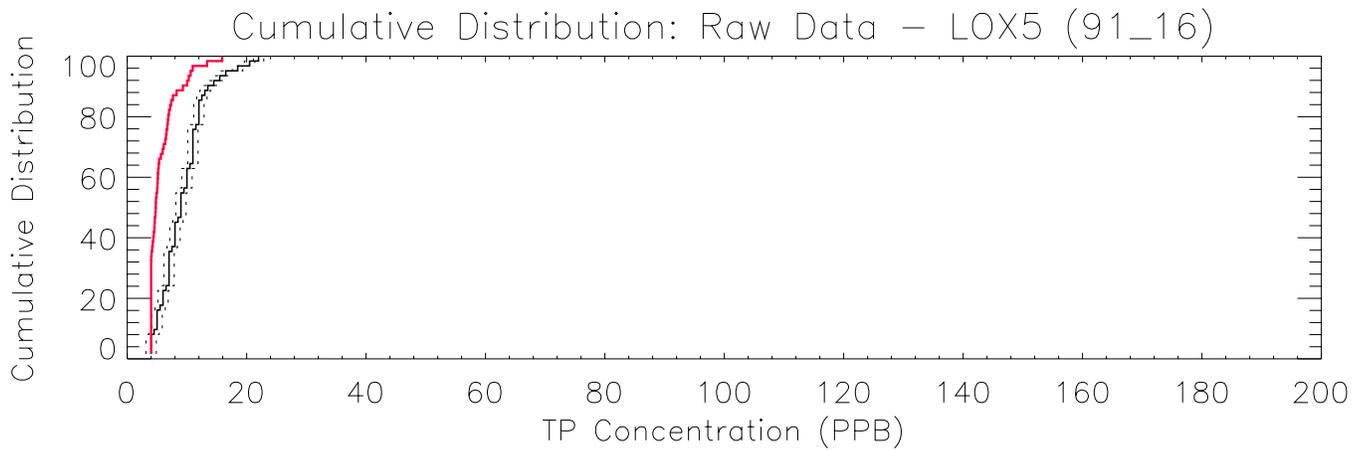
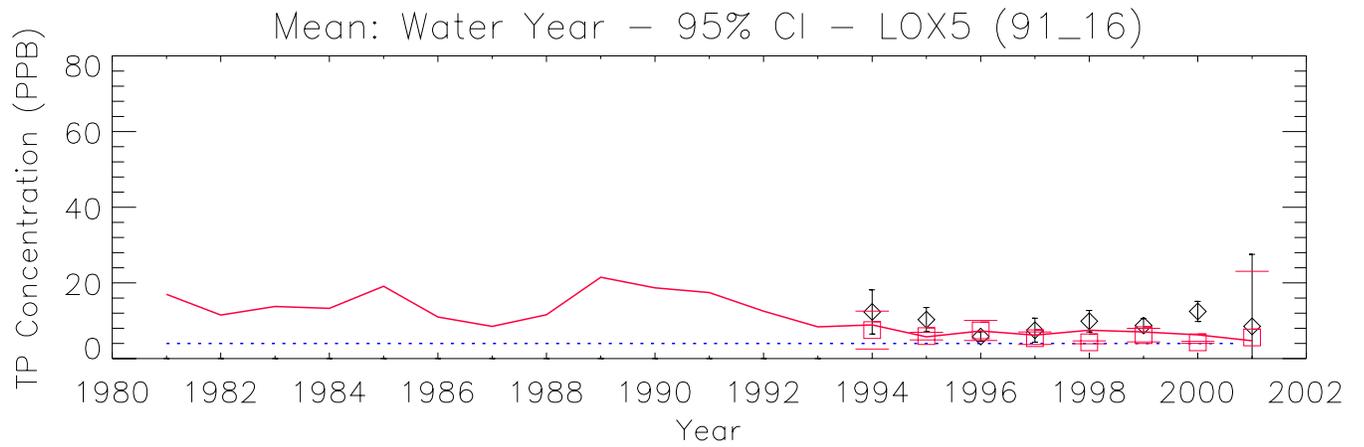
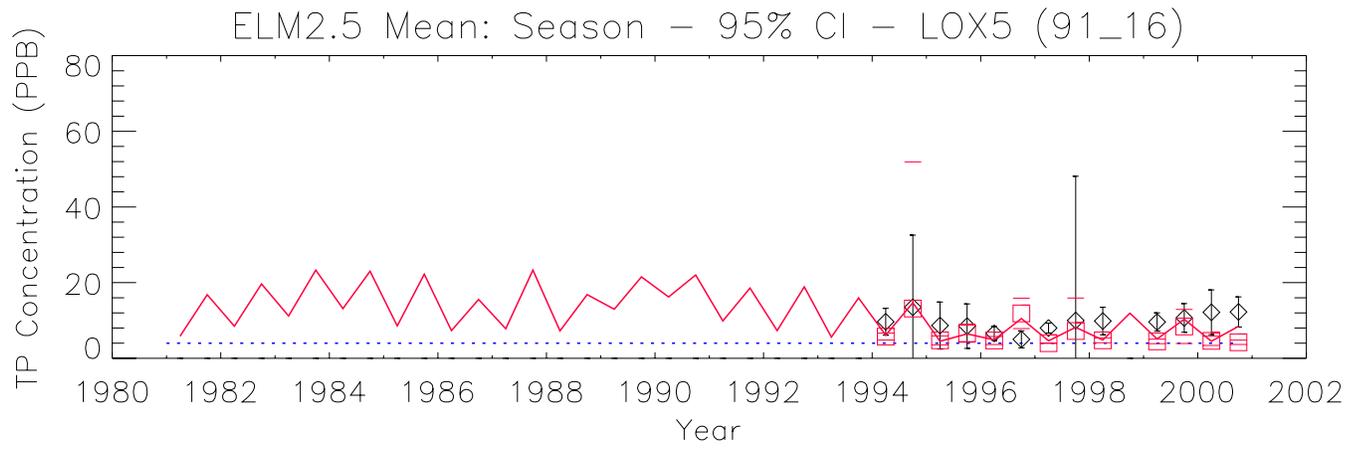
Figures B.1 – B.78. Time series plots of water column total phosphorus (TP) concentration and their associated Cumulative Frequency Distributions (CFD) for the period of record 1981-2000 at each monitoring location. The sequence of the figures is based on geographic location of marsh sites, starting in northwest, moving towards the southeast; following the set of plots of all marsh sites, the canal monitoring sites are similarly sequenced. A map of all sites is provided in the Model Performance Chapter.

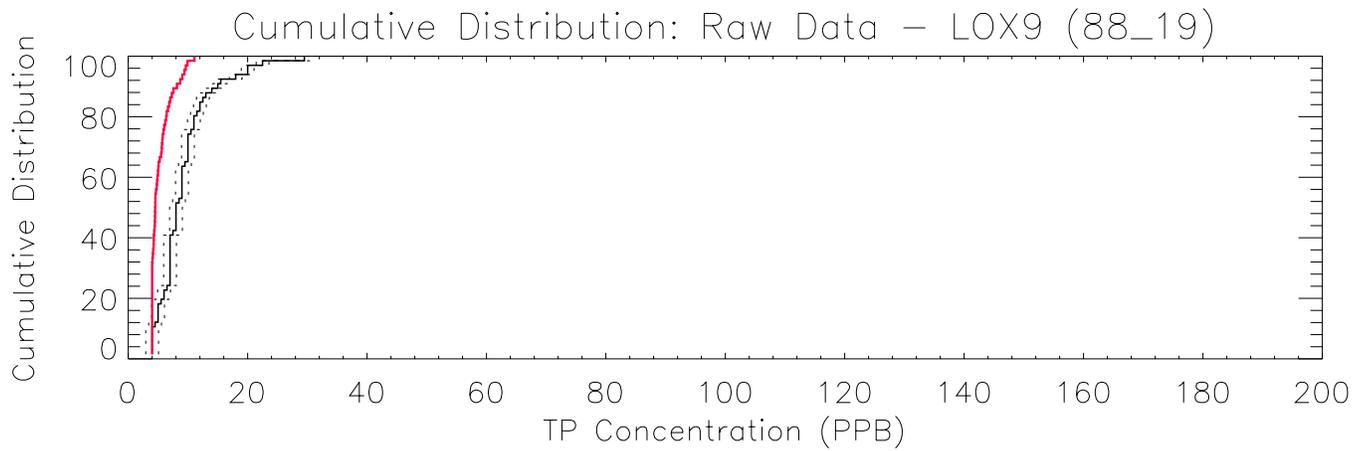
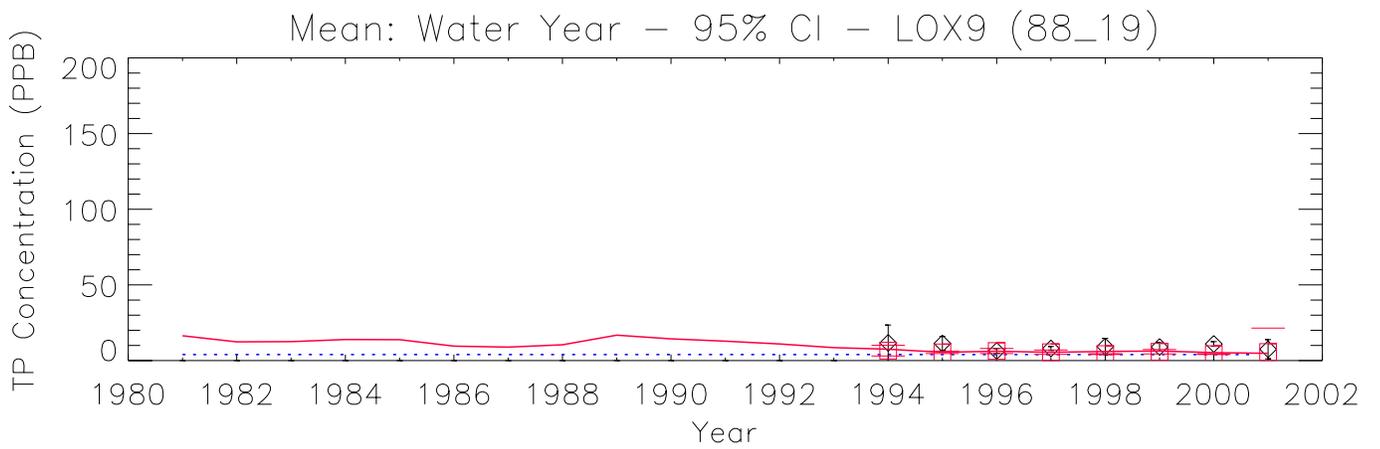
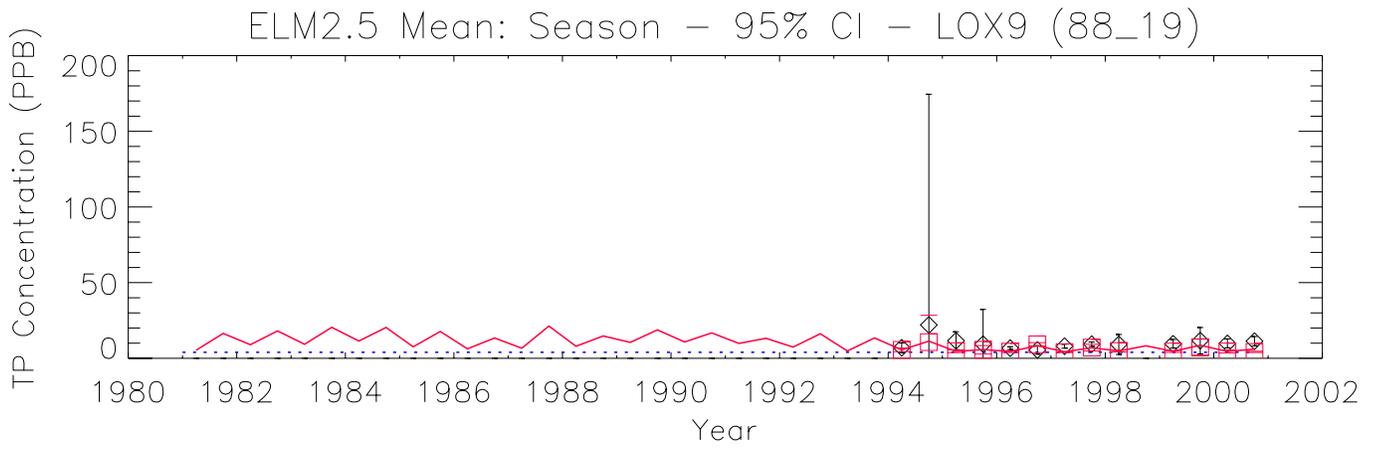
*The constant dashed line indicates the TP field sampling Detection Limit (DL =  $4 \mu\text{g l}^{-1}$  for the model period of record), which was the minimum value used for observed data in plots and statistics. To enable equivalent comparisons, any simulated value which was below the DL was set equal to the DL. The model grid cell column and row locations (col\_row) or canal reach identifier (single integer) are shown in parentheses of each plot's title.*

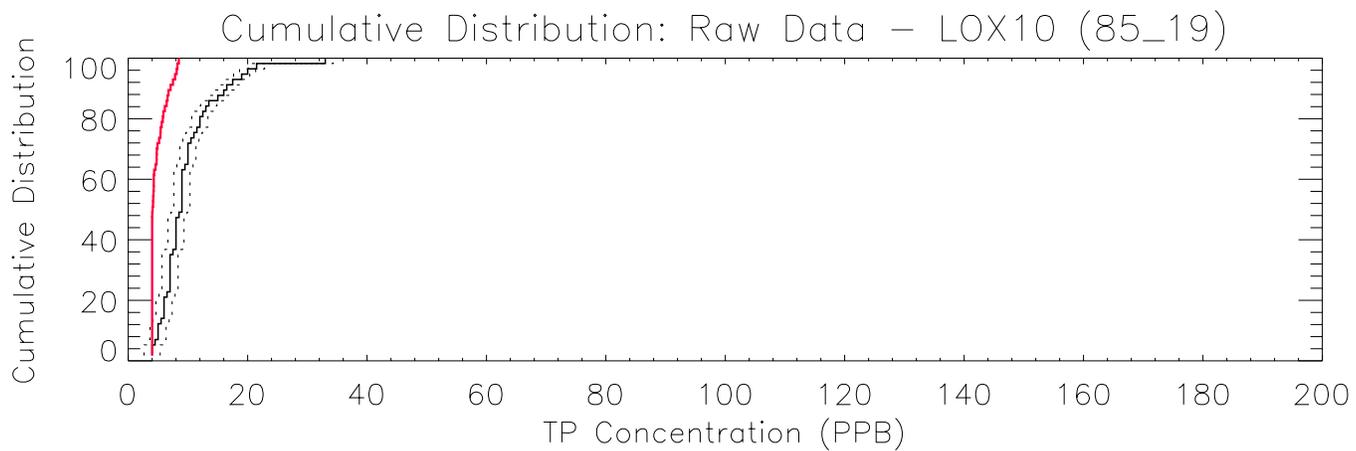
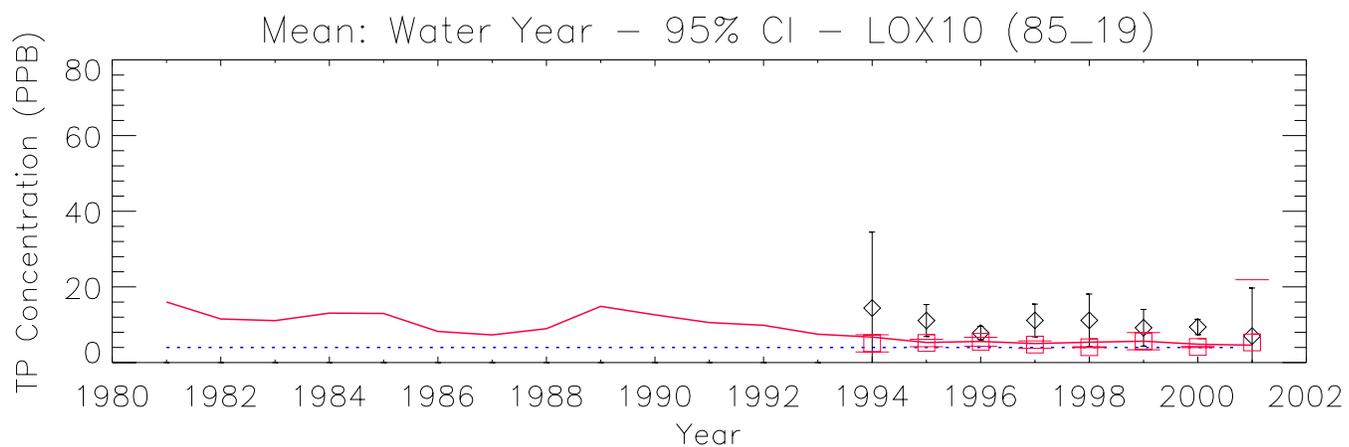
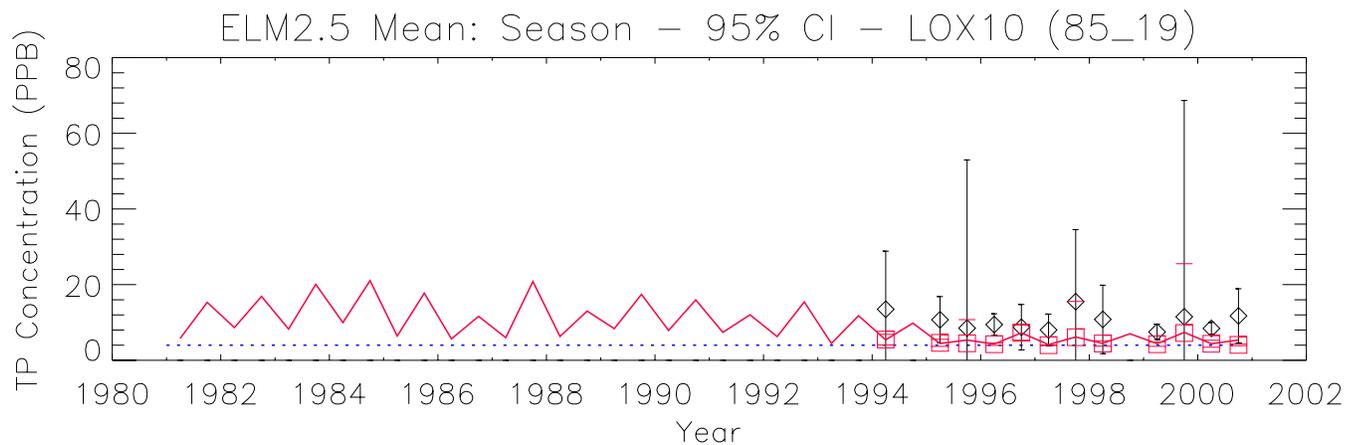
- a) All data were aggregated into arithmetic mean values by wet and dry seasons within water years; the continuous lines pass through mean of all daily data points for each season; the mean of paired simulated and observed values are shown in red boxes and black diamonds, respectively; the 95% Confidence Interval (CI) of the paired means are shown by the "—" symbols in the red for the model and black for the observed data.
- b) All data aggregated into arithmetic mean values by water year, with the same treatment as in plot a).
- c) The CFDs of the simulated and observed (raw, un-aggregated) data; the 95% confidence interval for observed data is shown in the dashed black lines. Note that only paired simulated and observed data points are used.

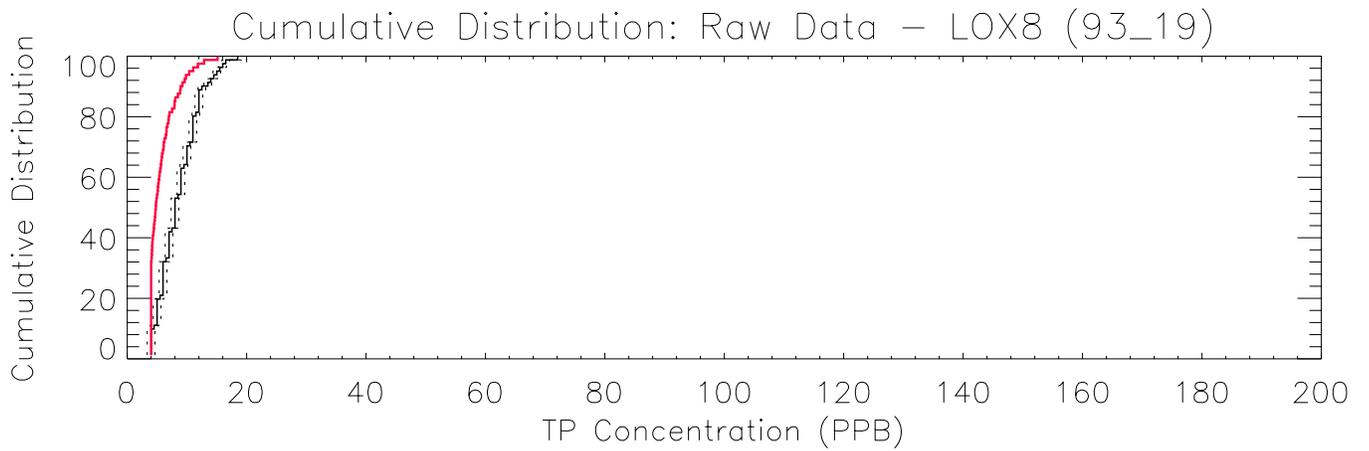
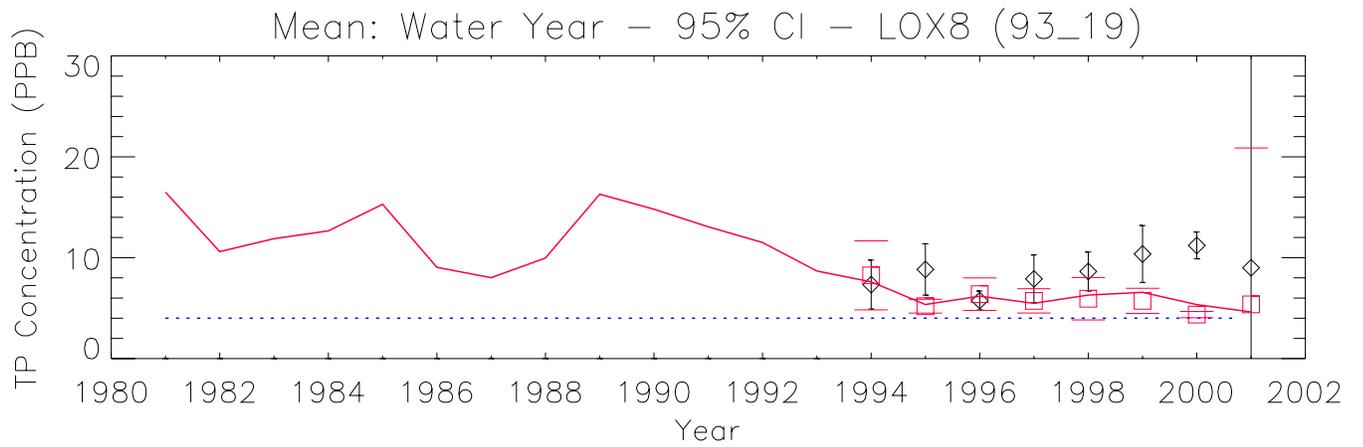
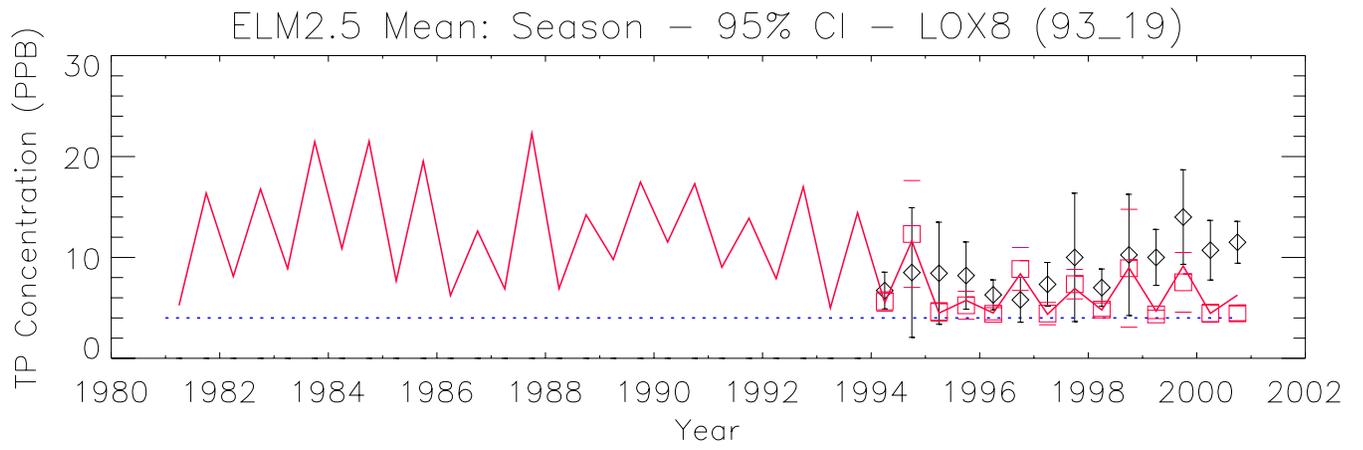


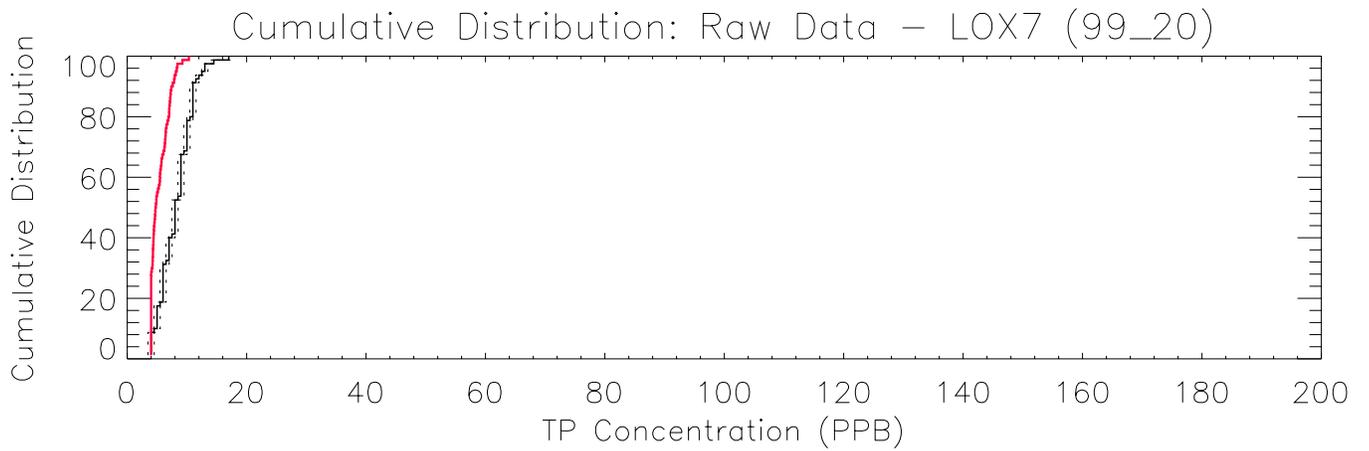
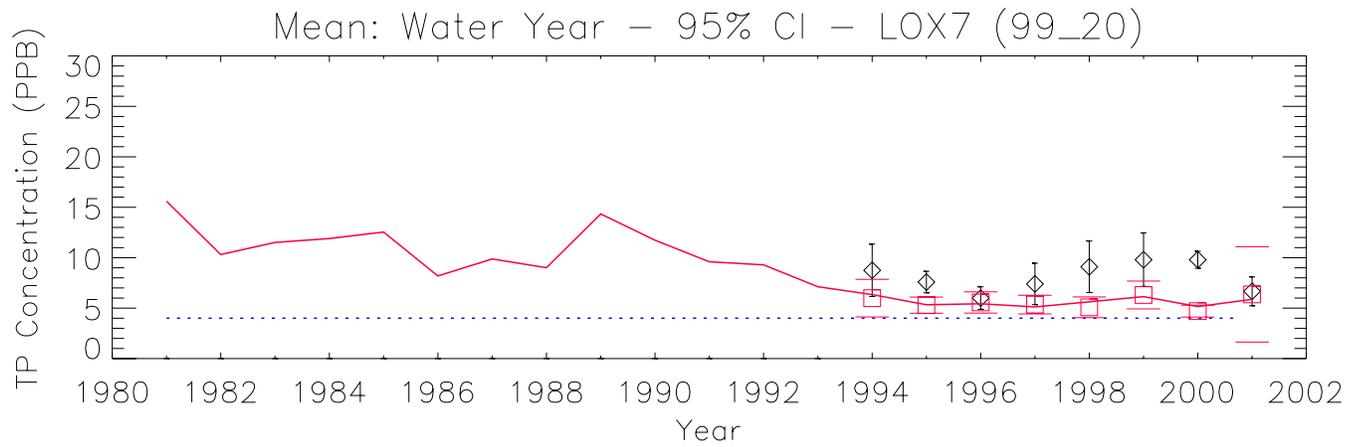
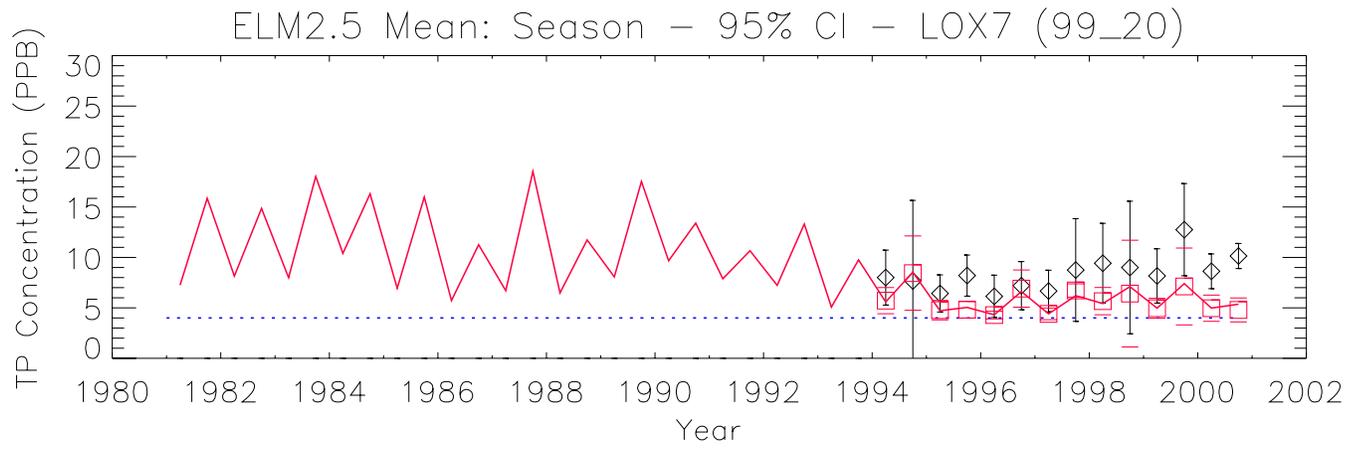


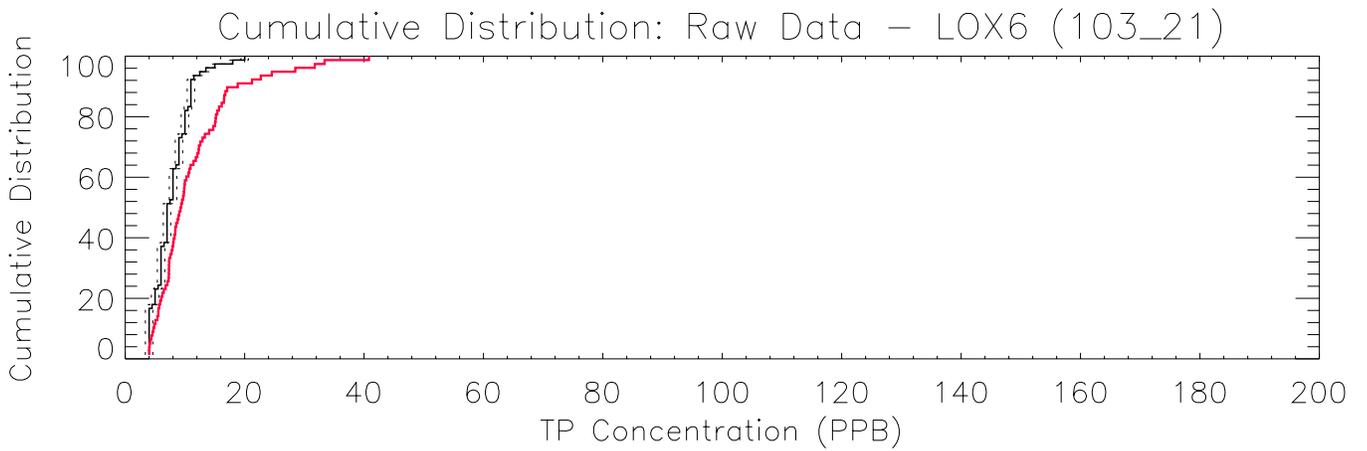
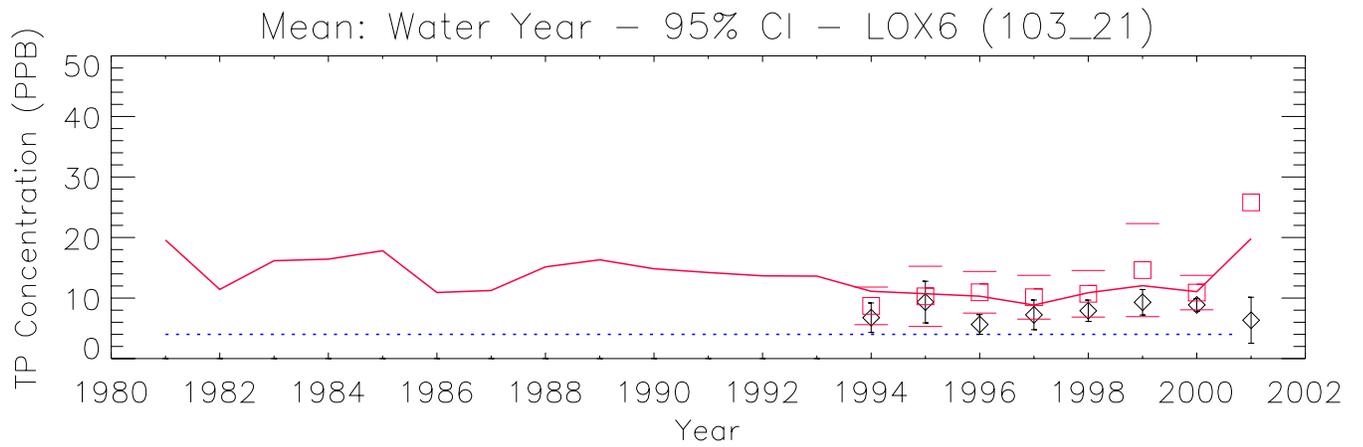
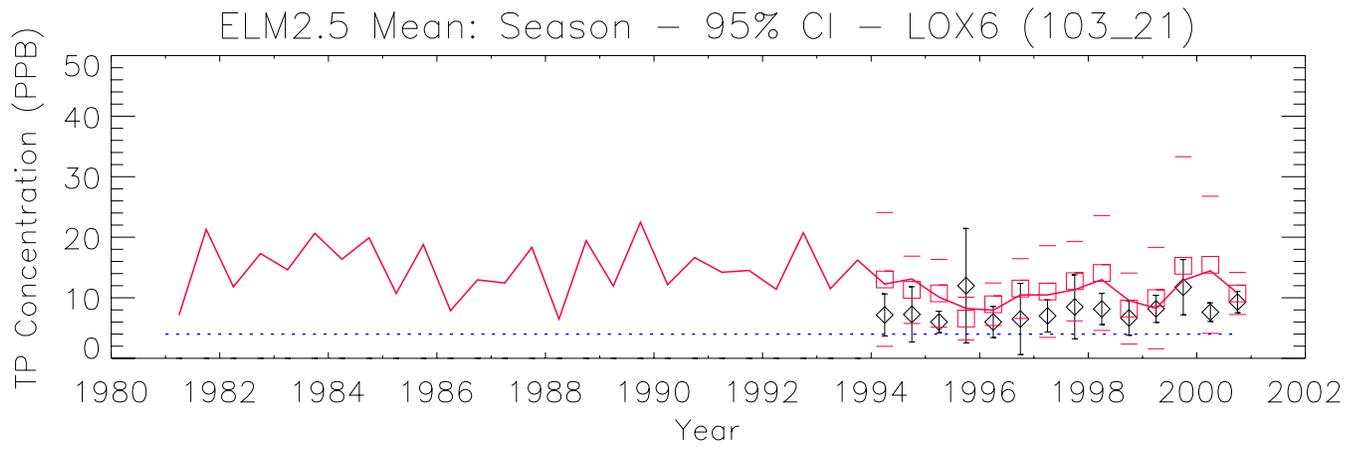


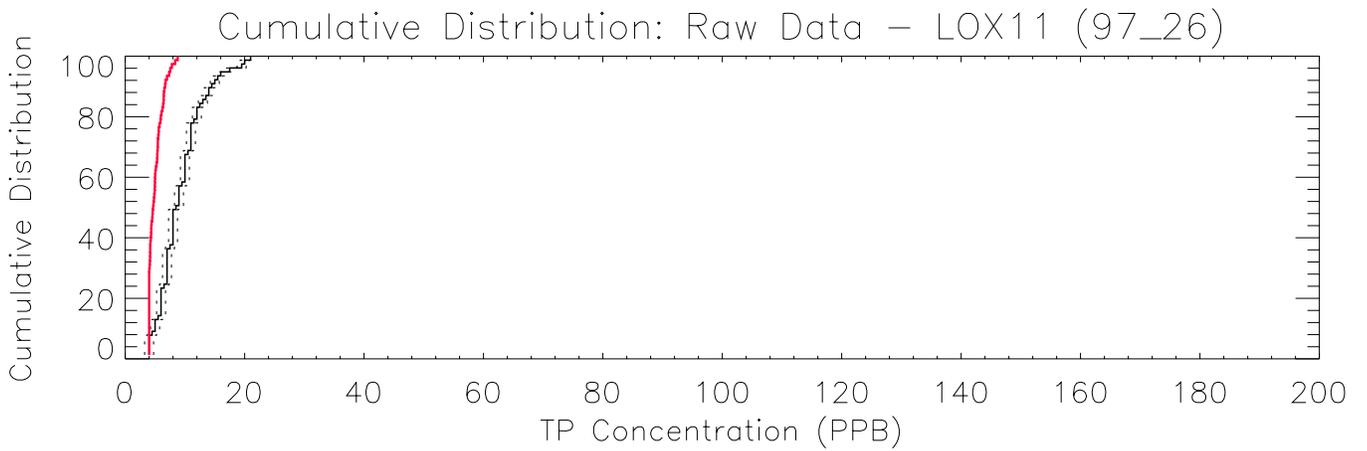
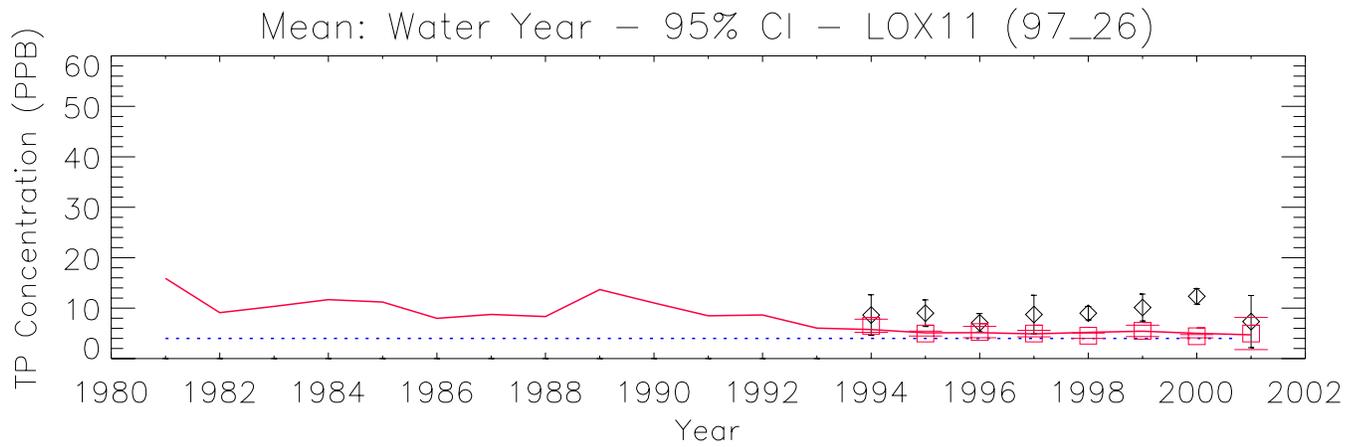
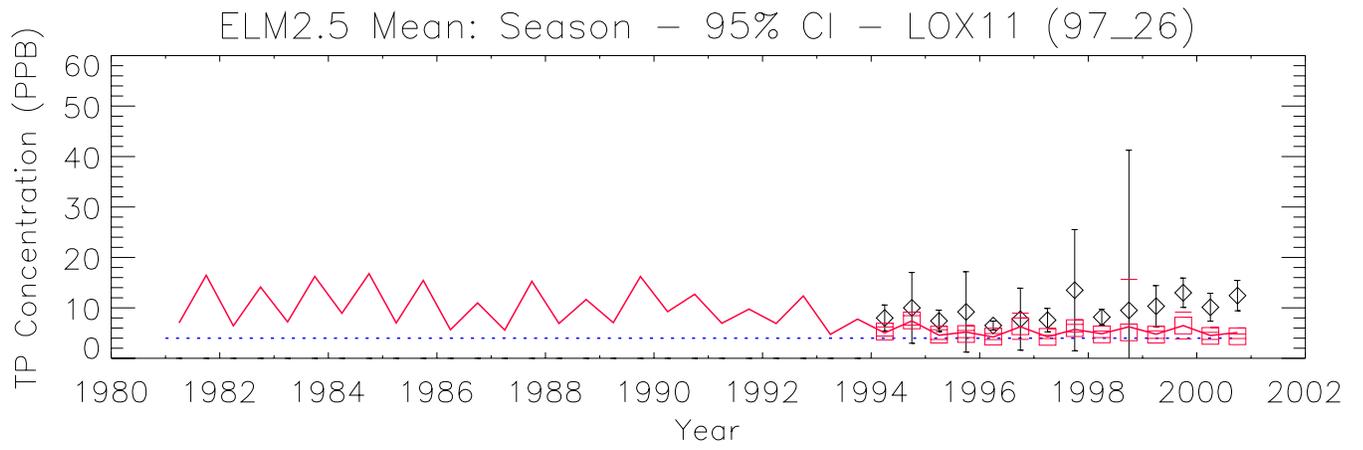


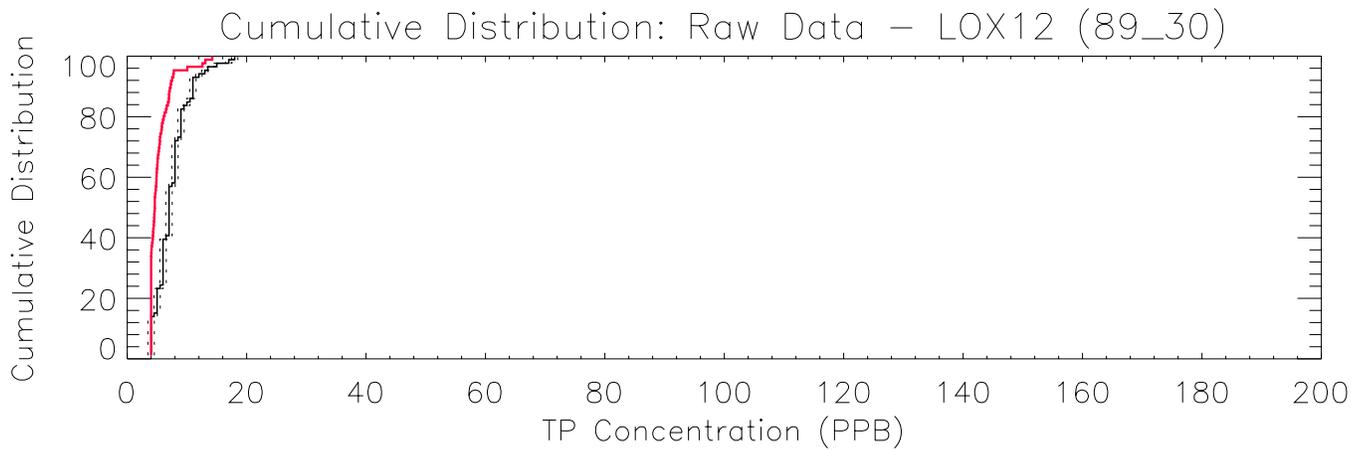
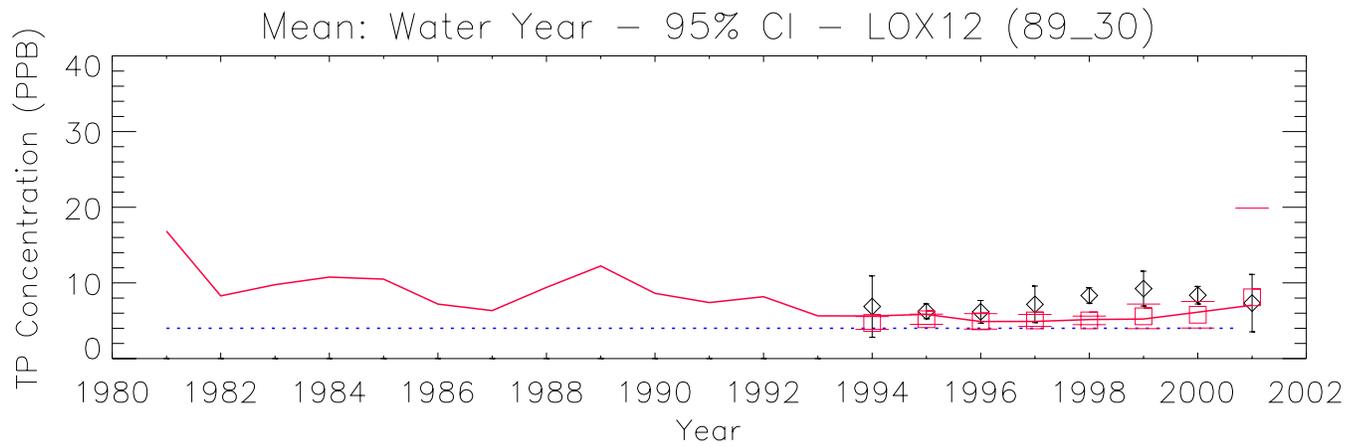
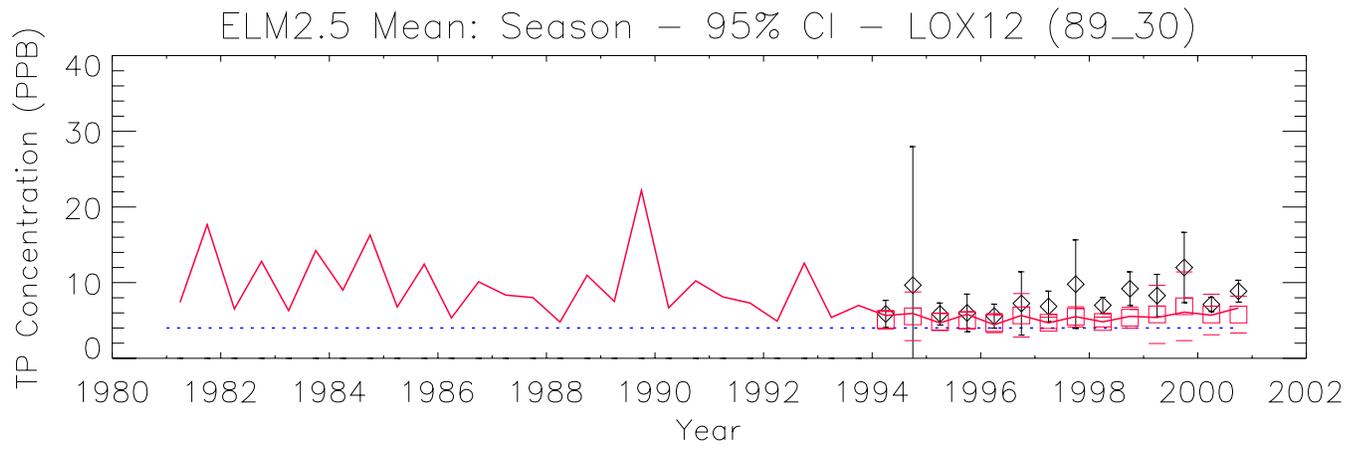


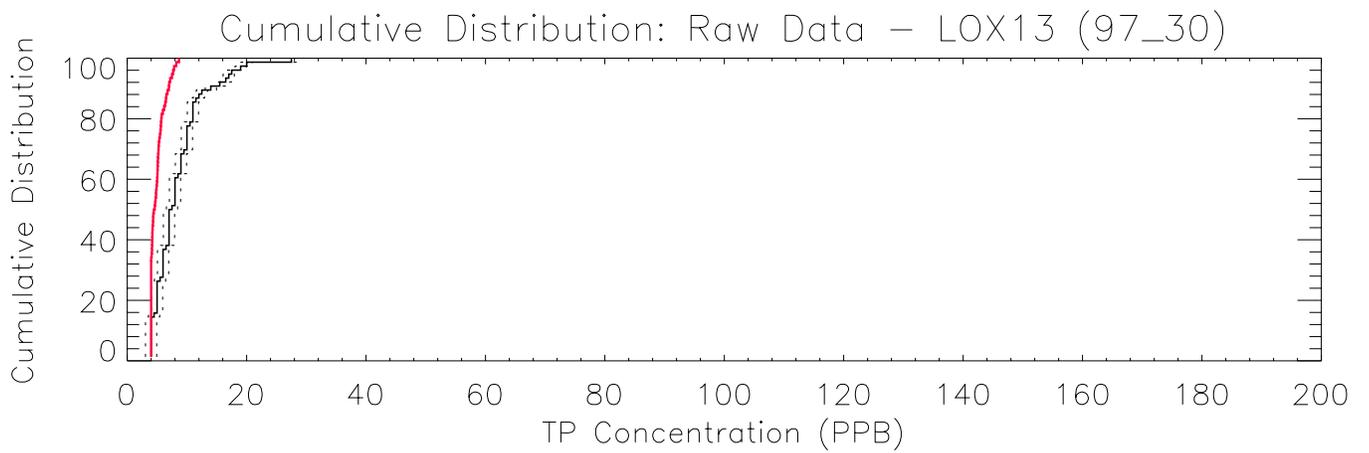
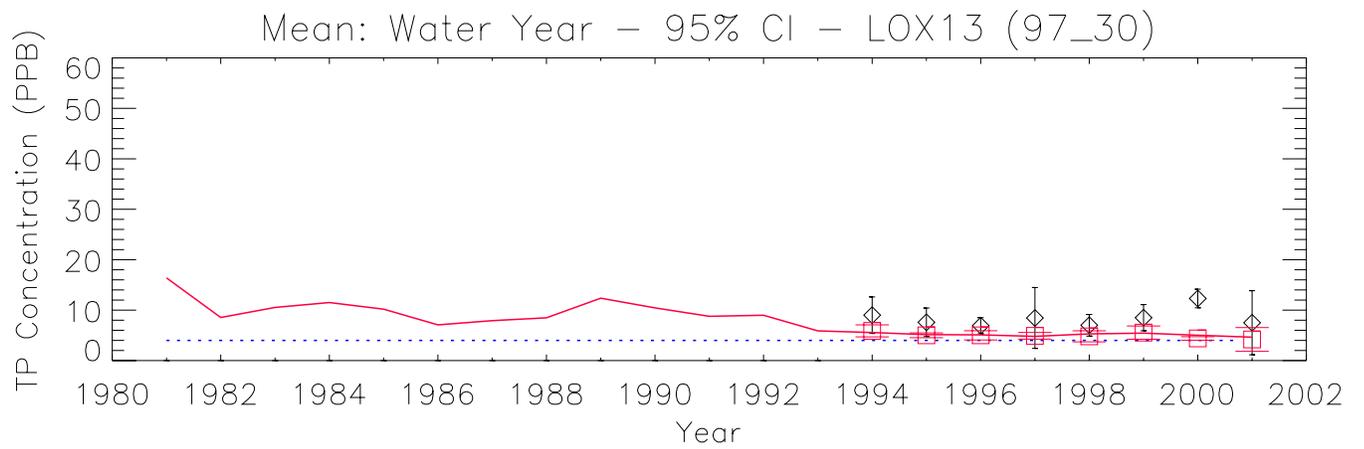
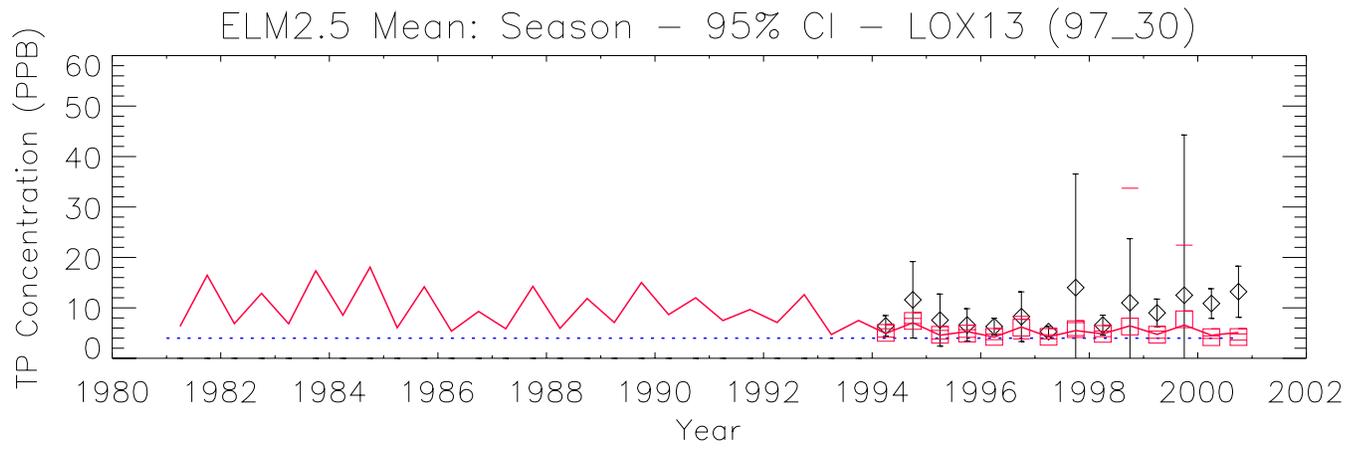


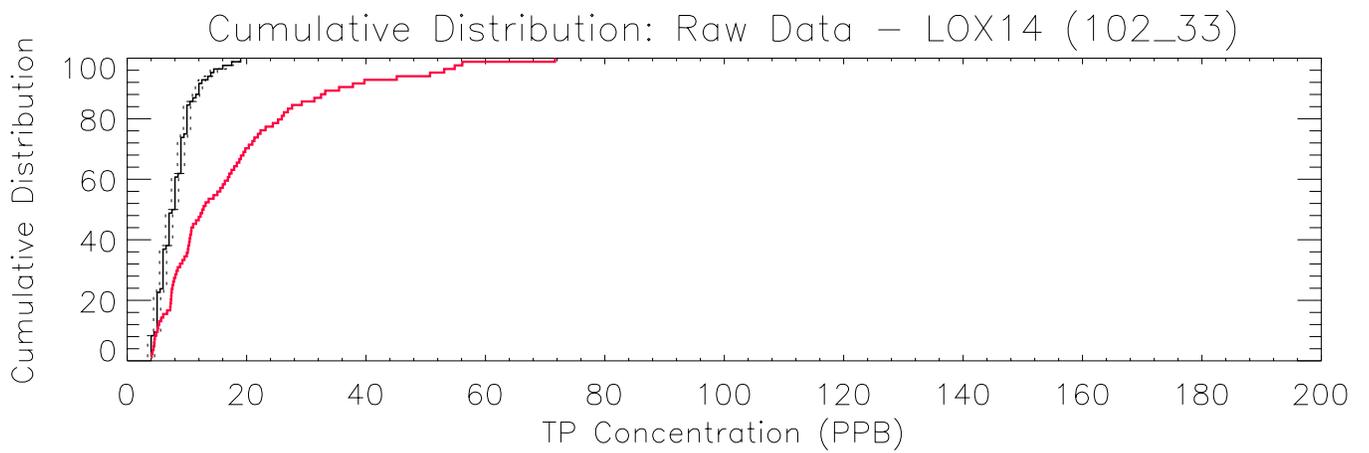
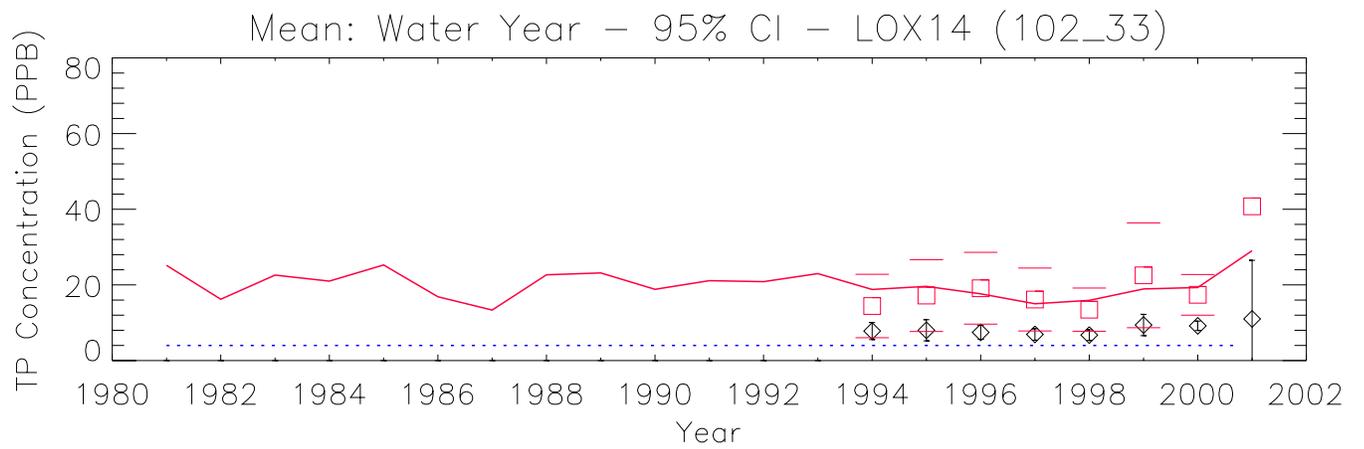
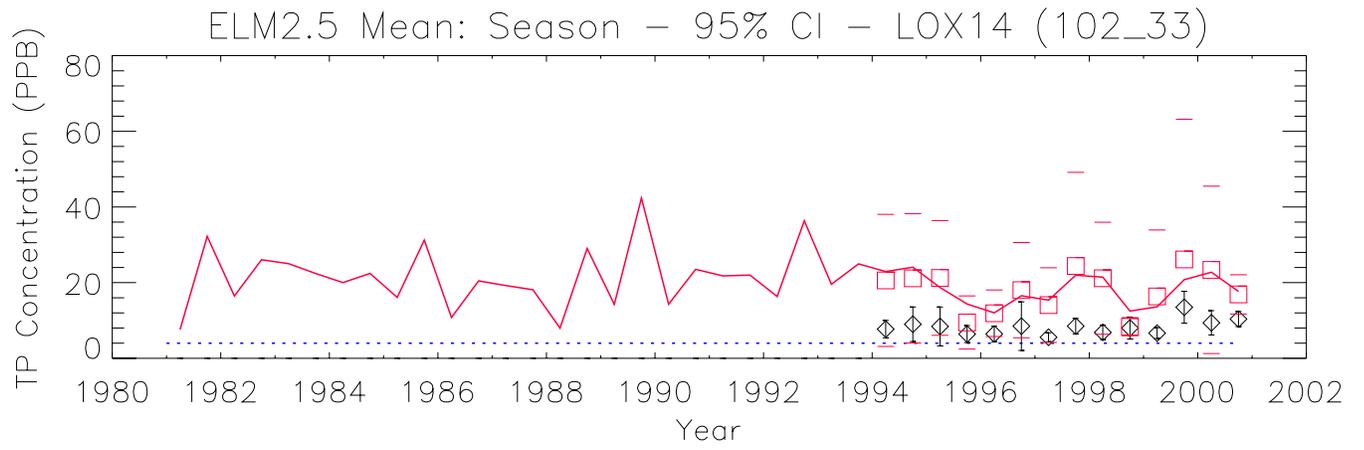


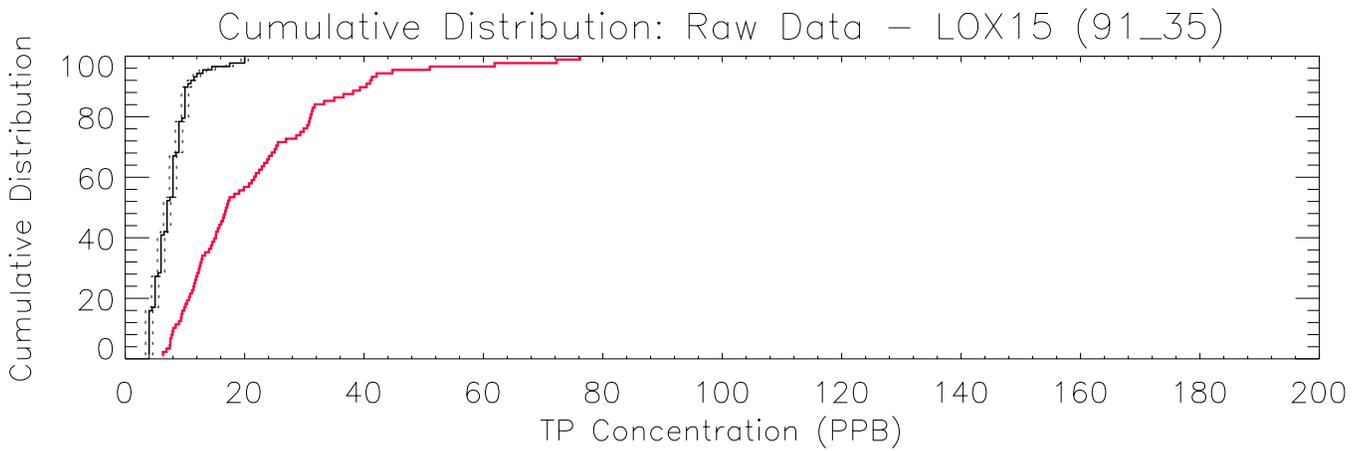
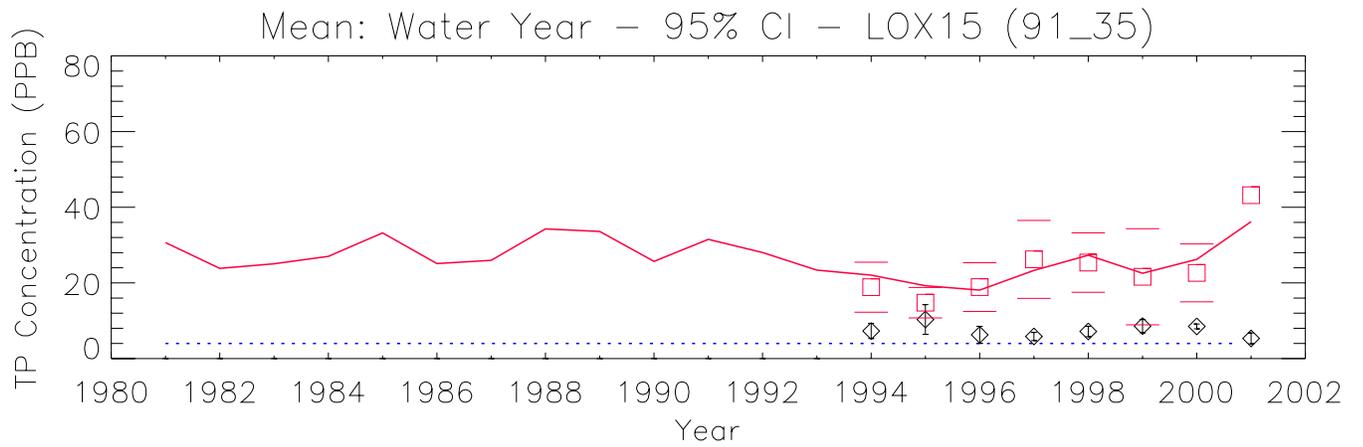
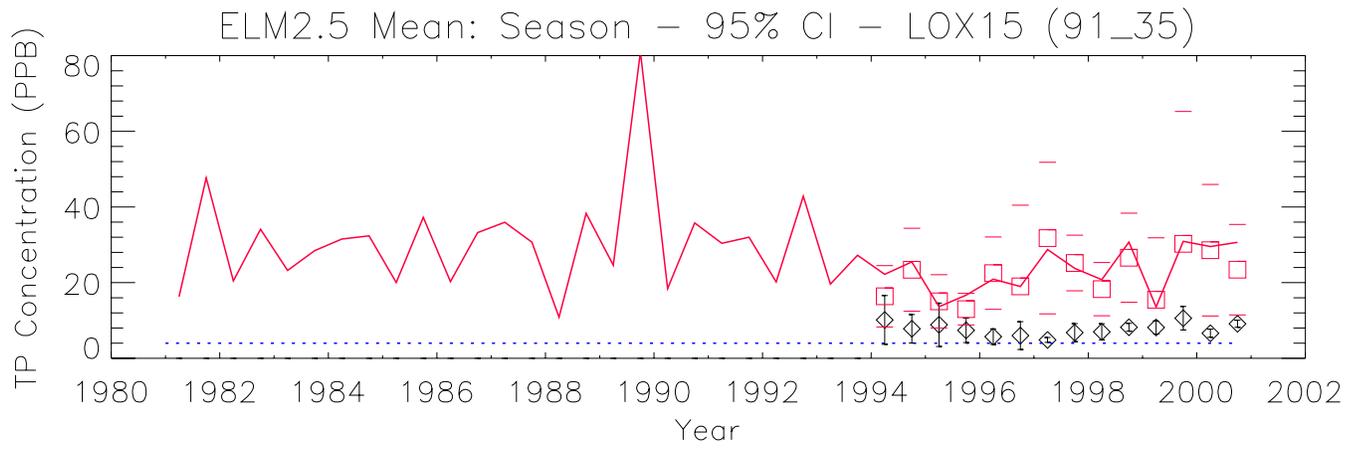


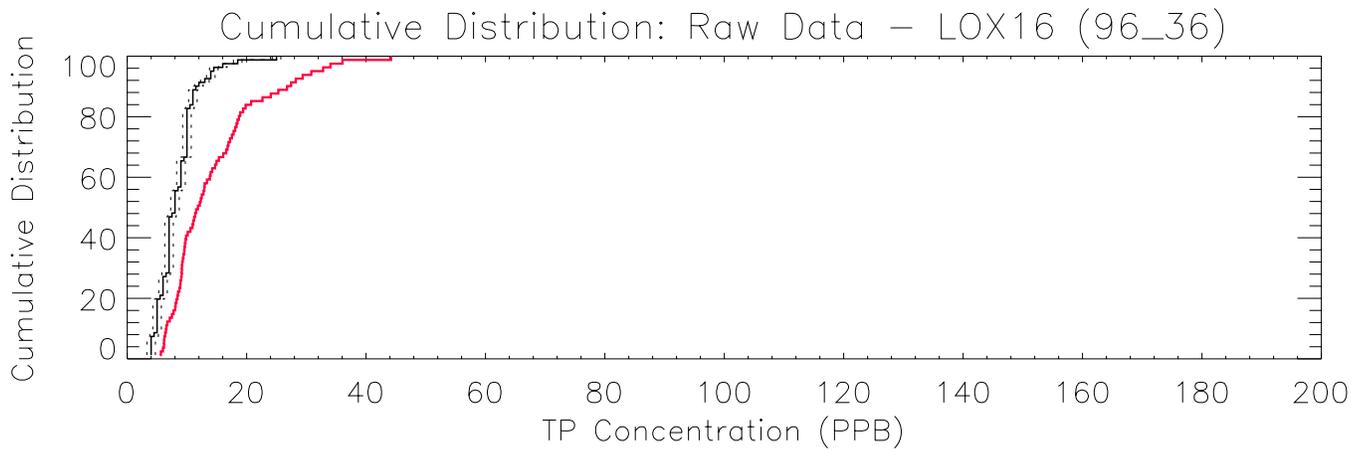
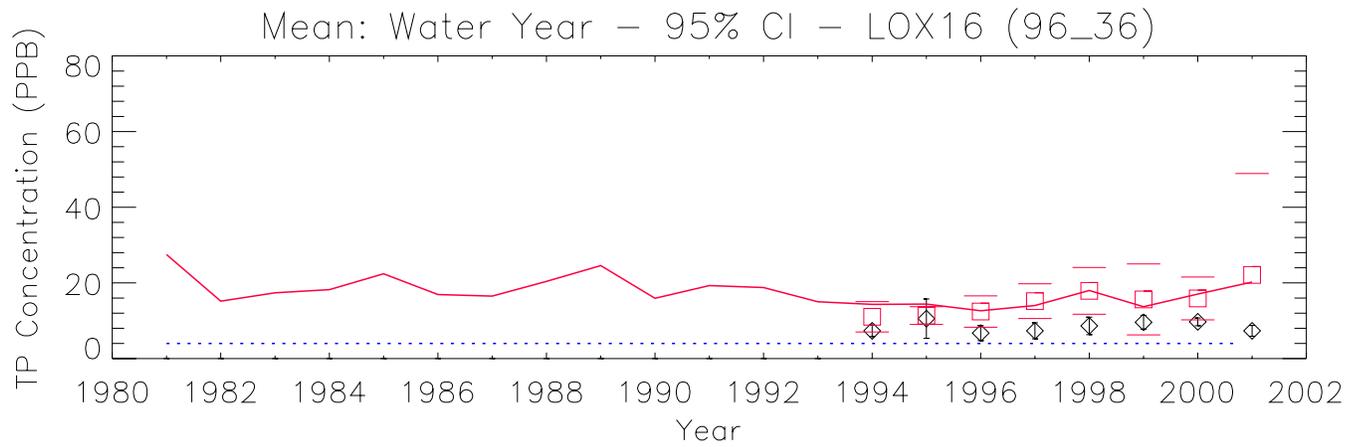
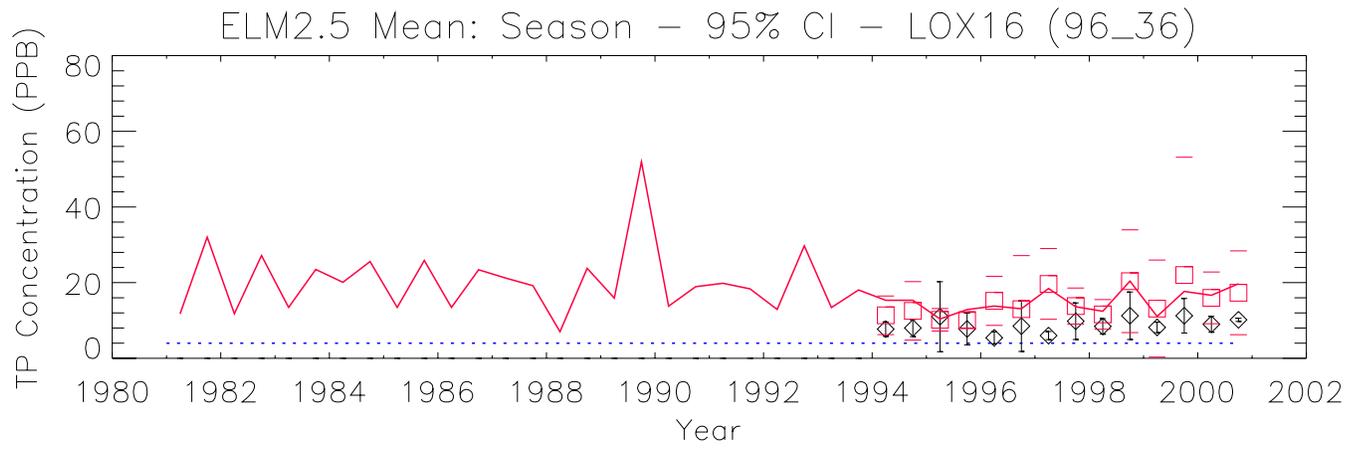


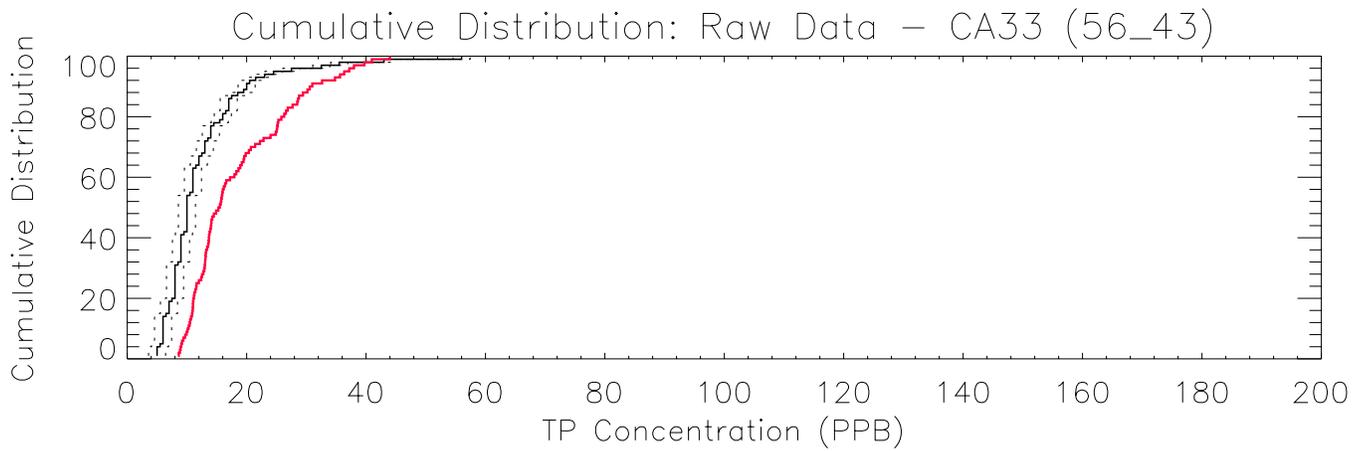
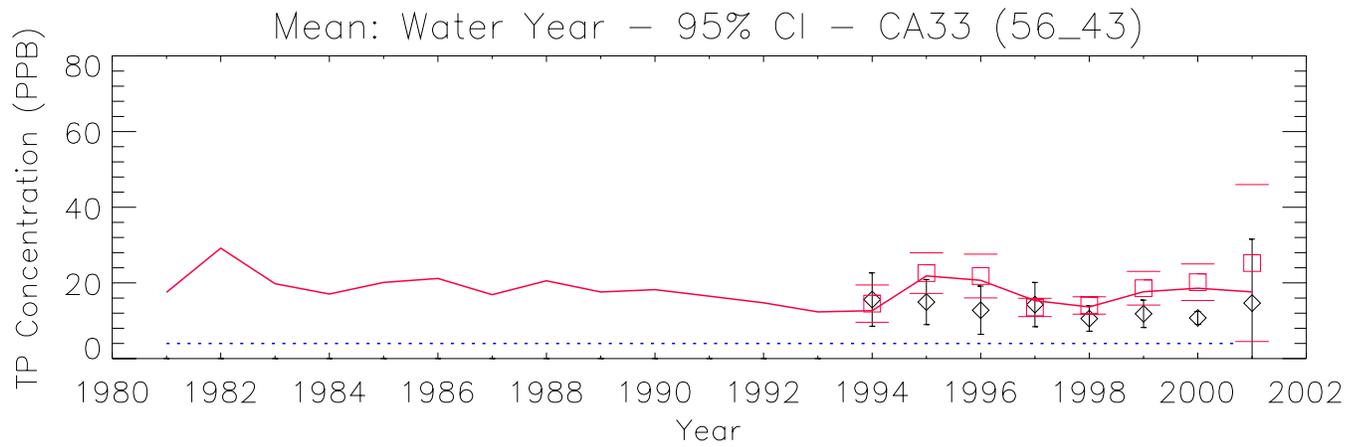
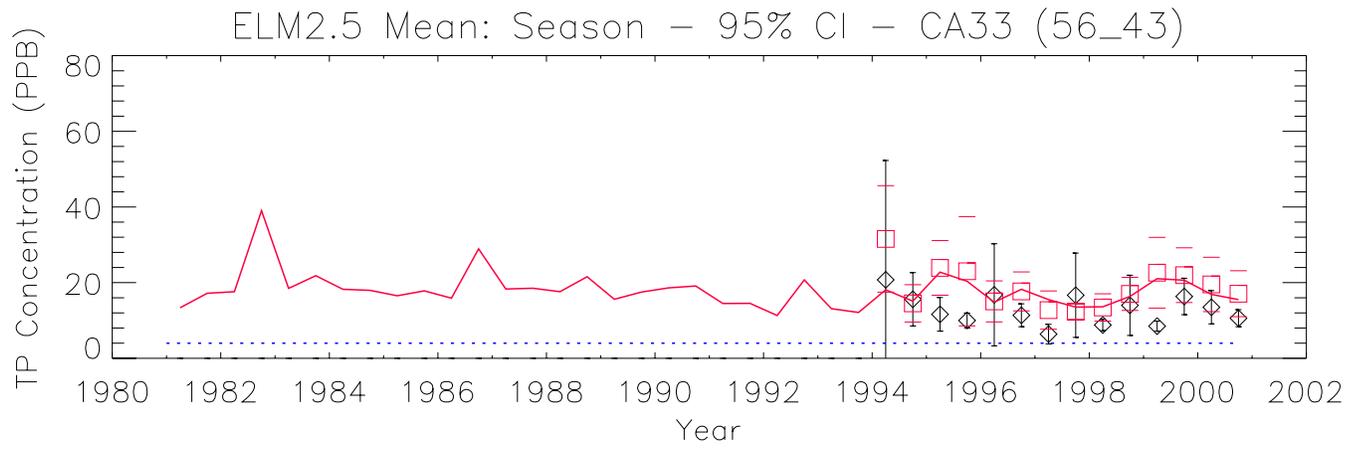


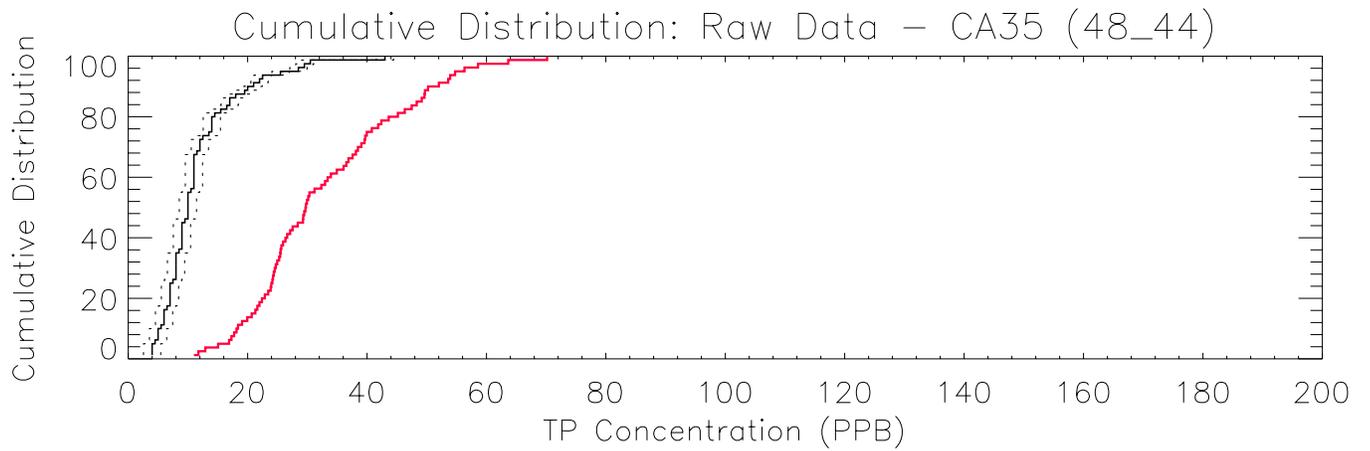
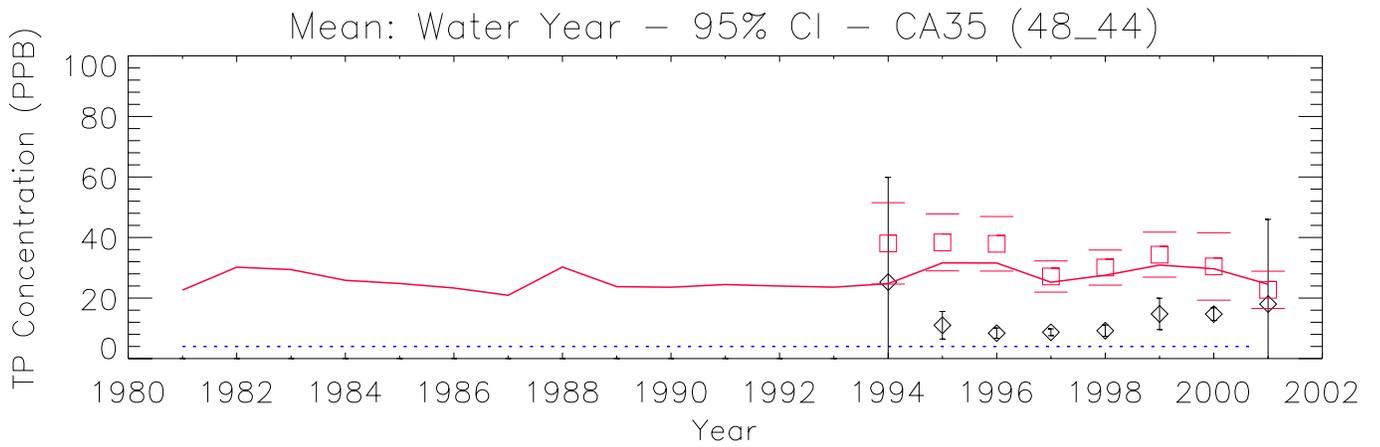
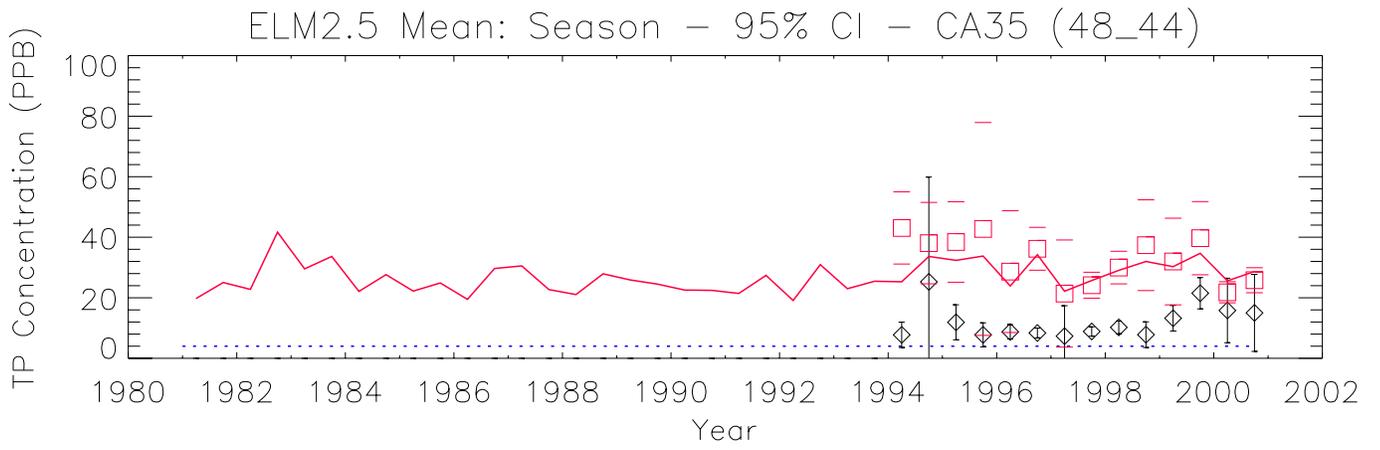


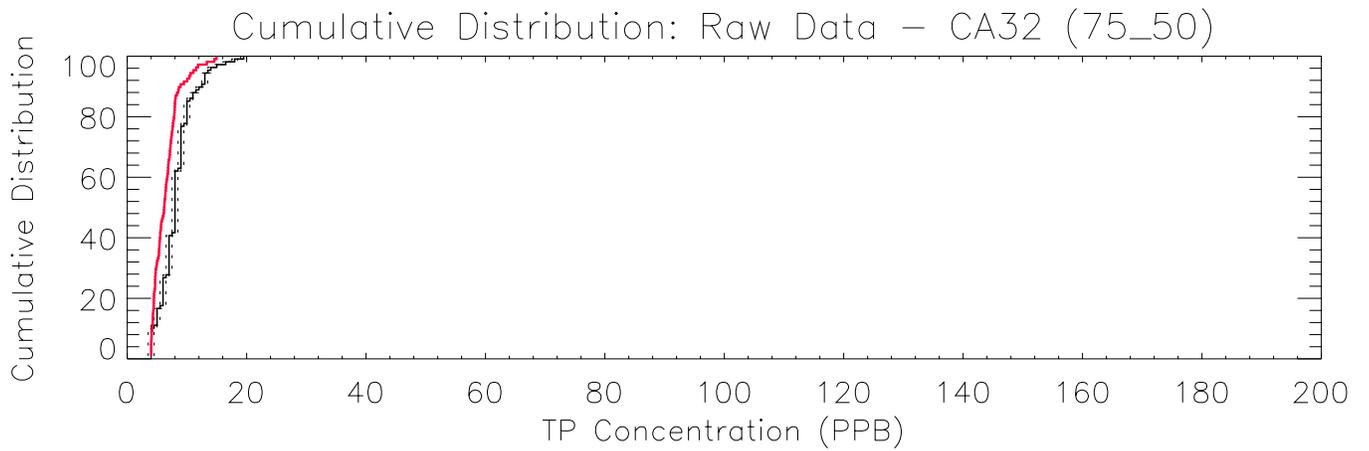
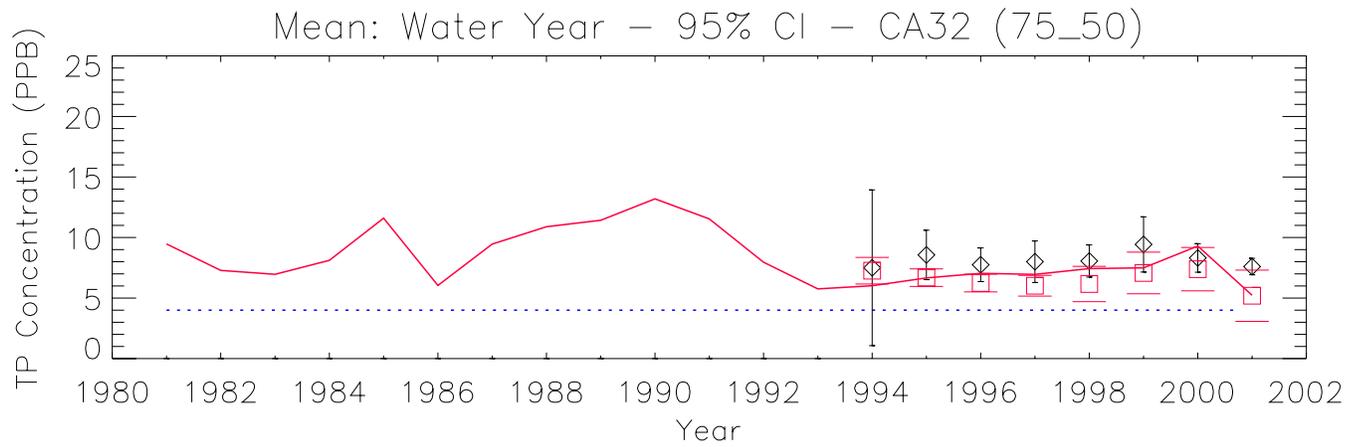
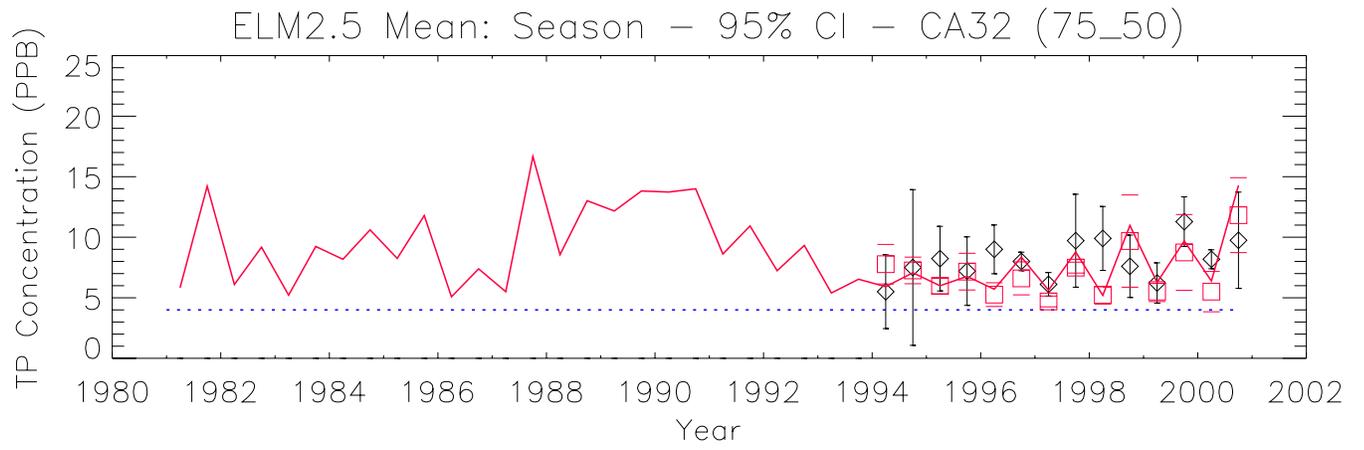


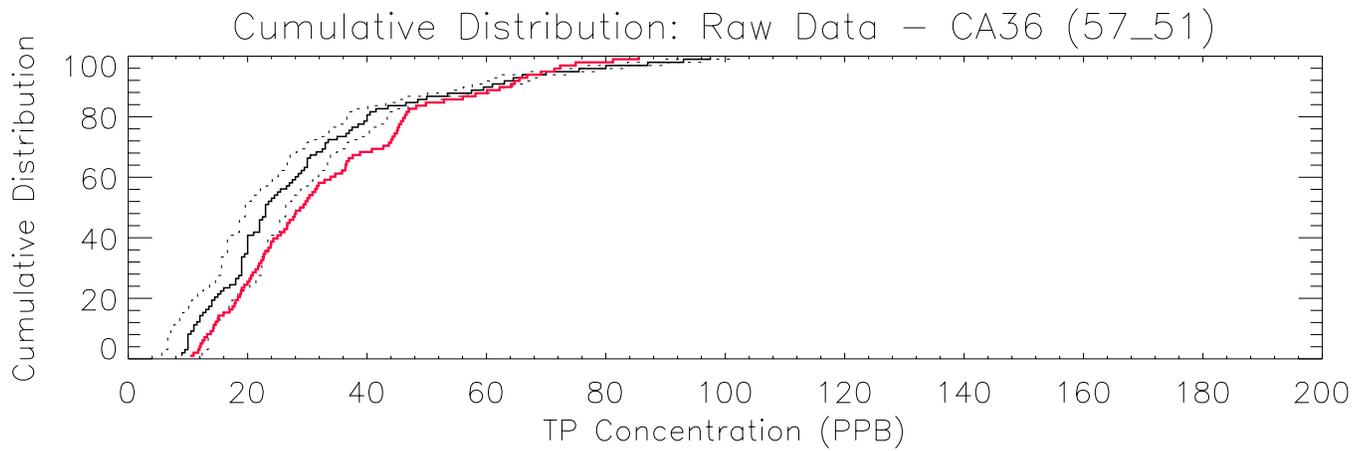
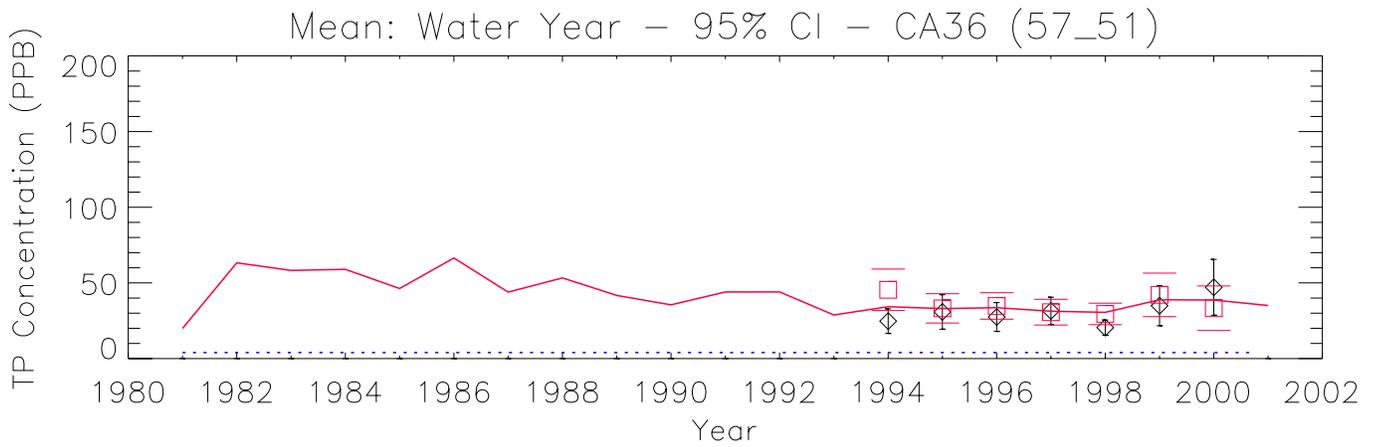
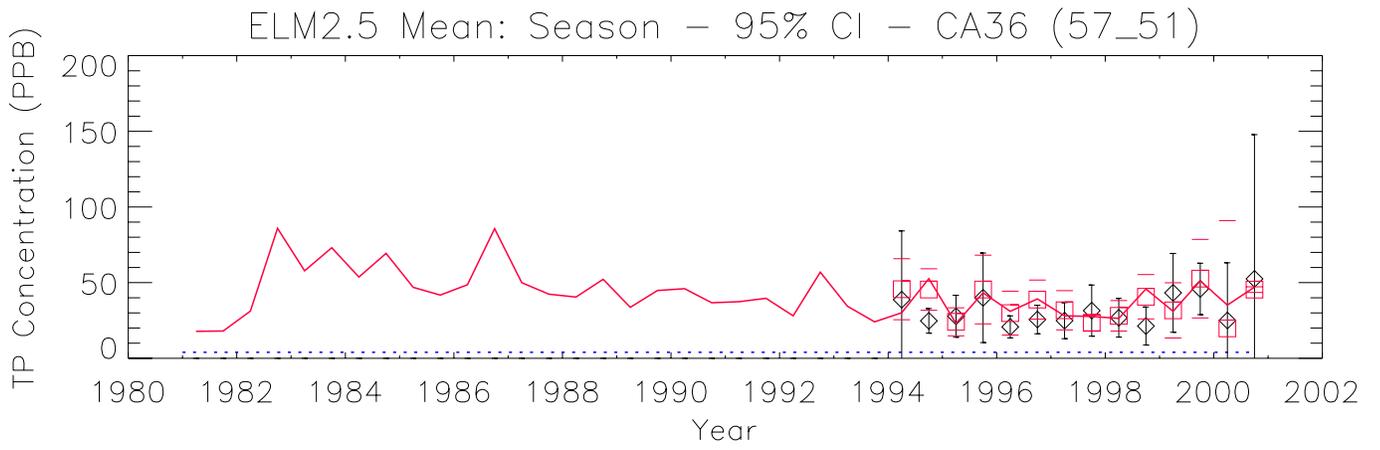


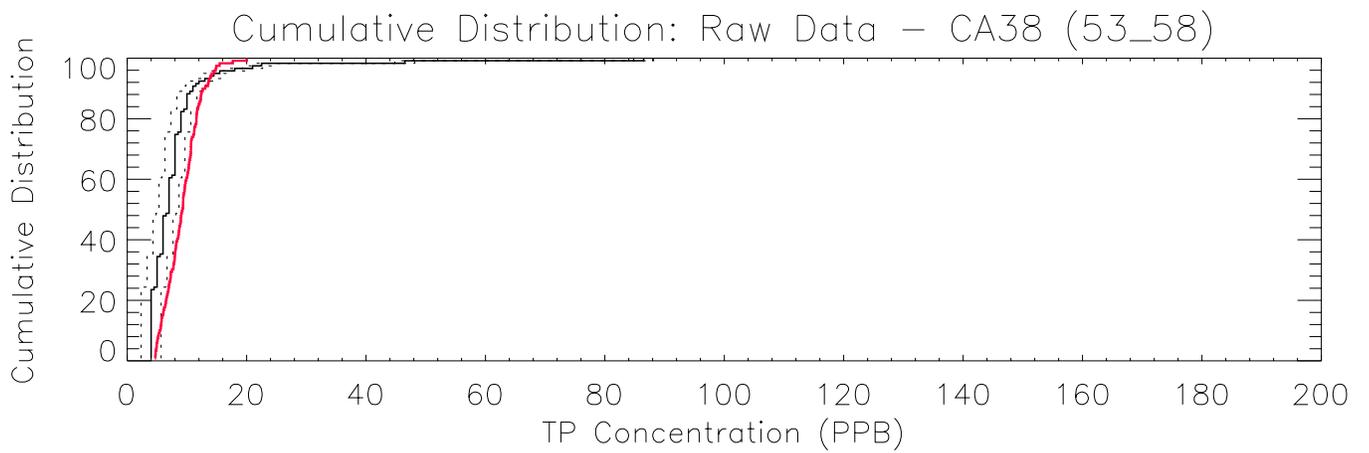
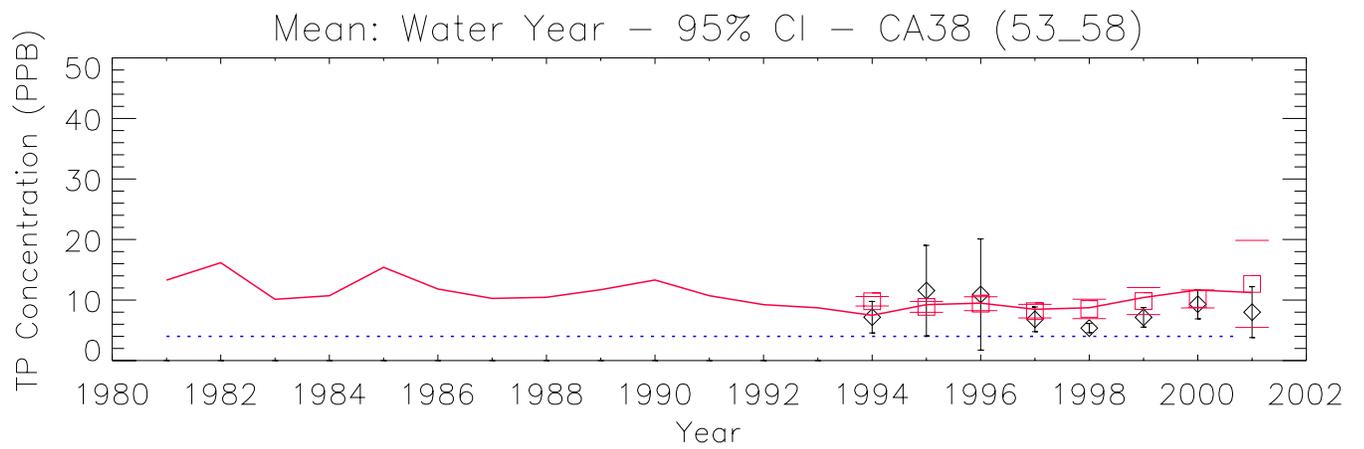
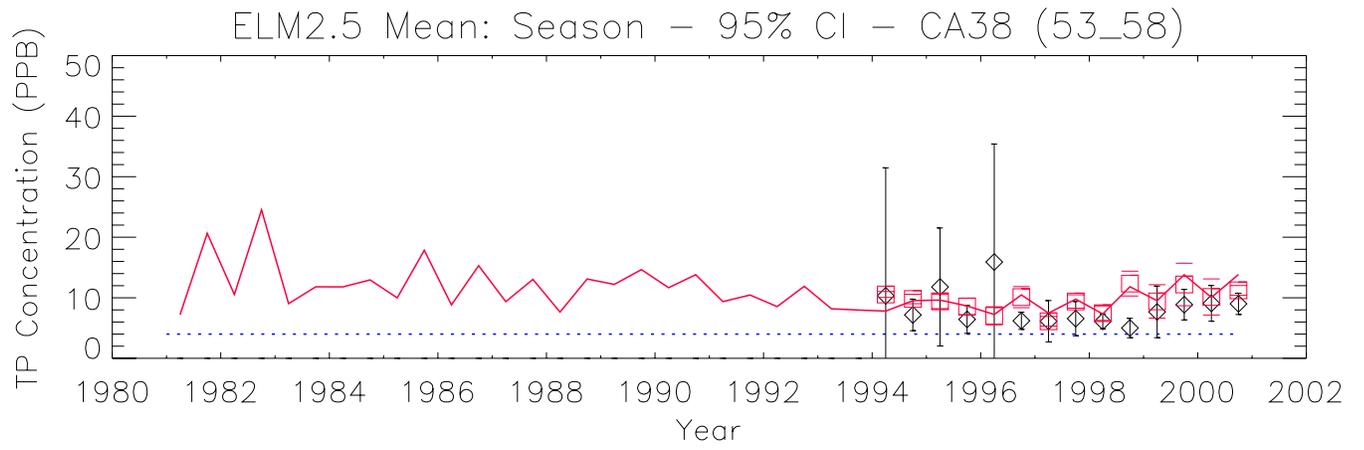


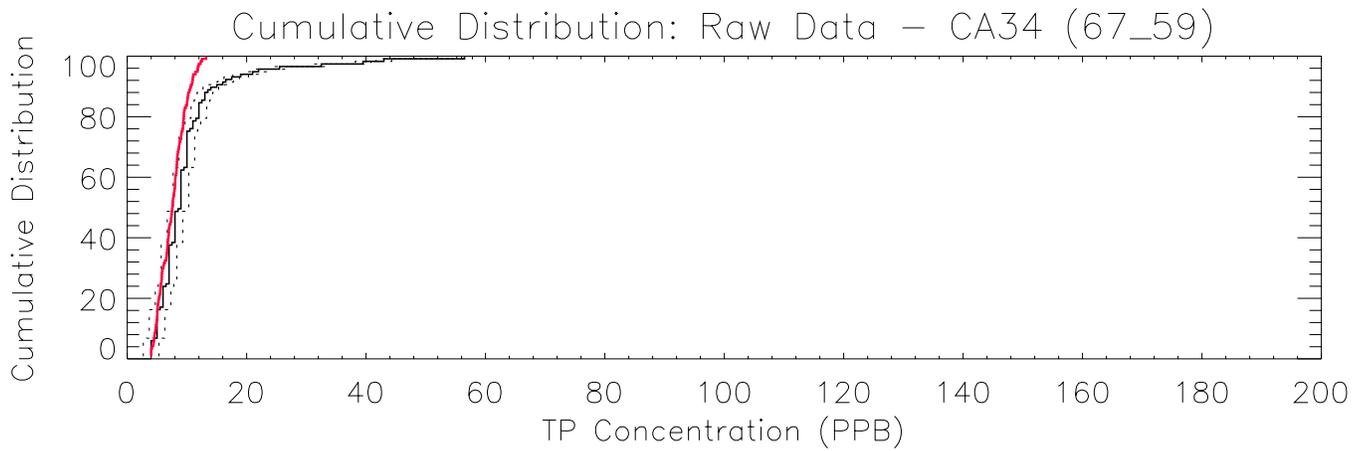
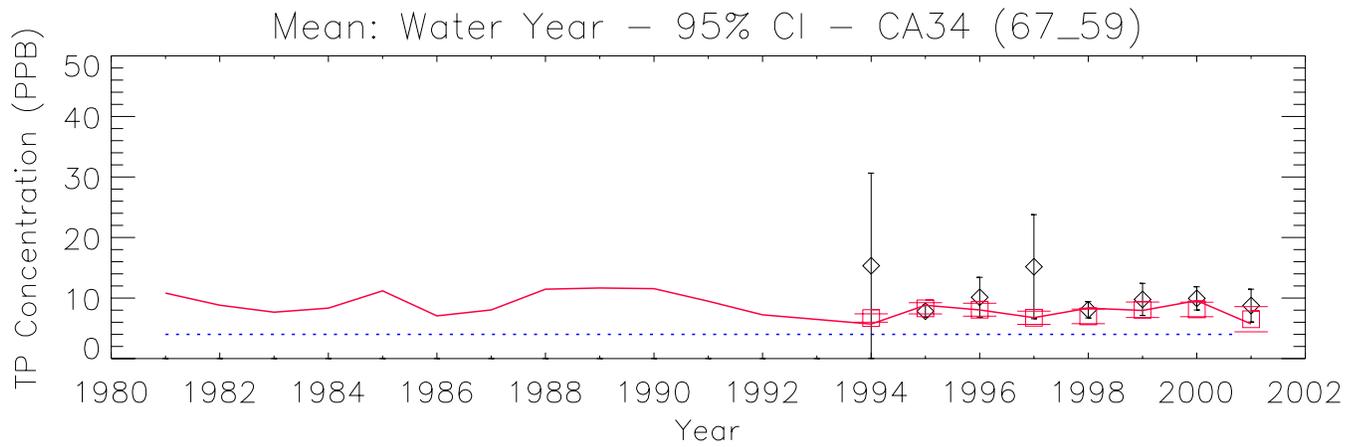
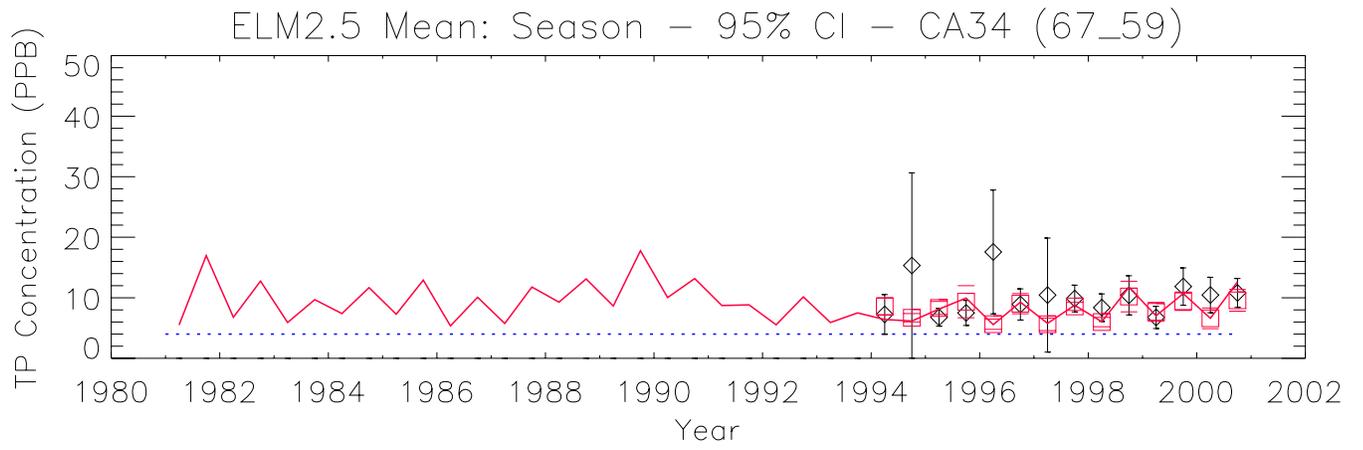


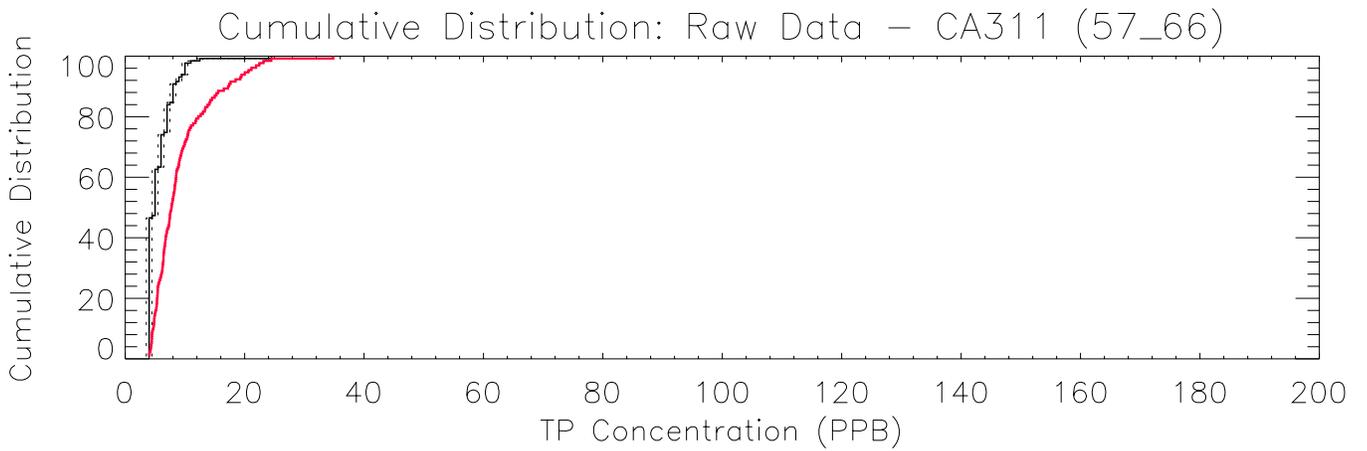
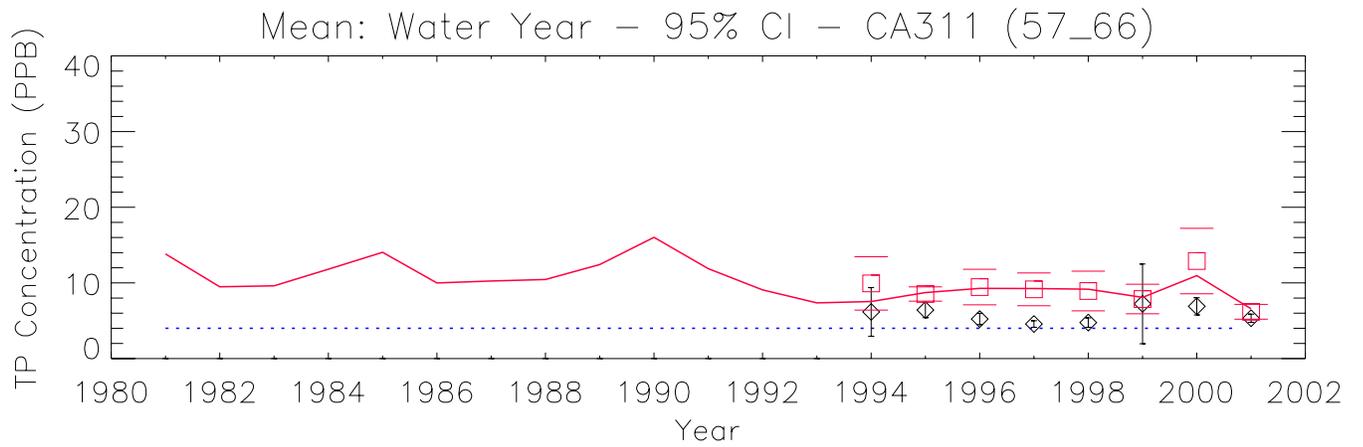
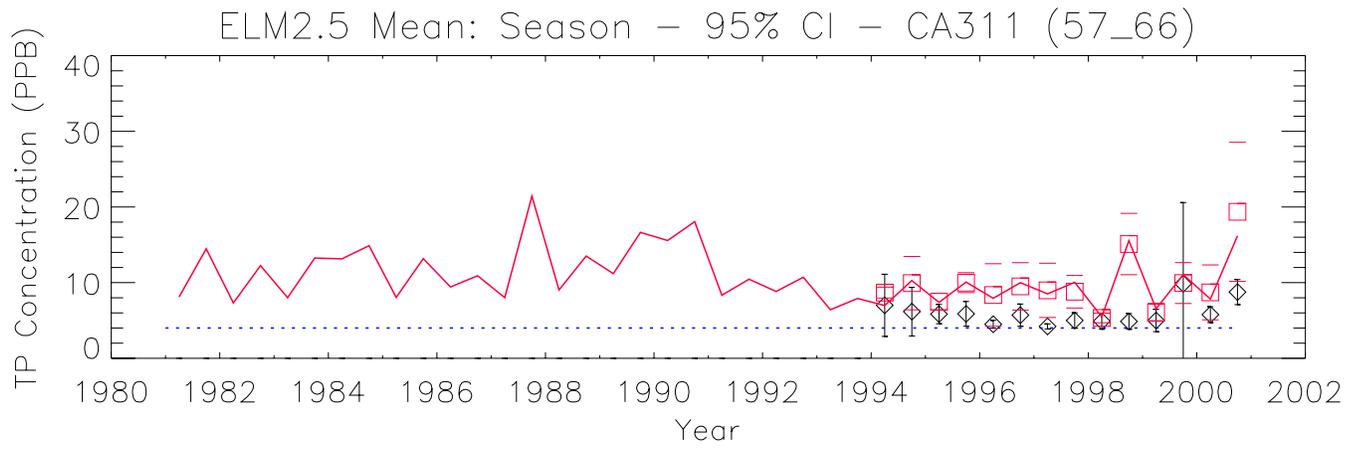


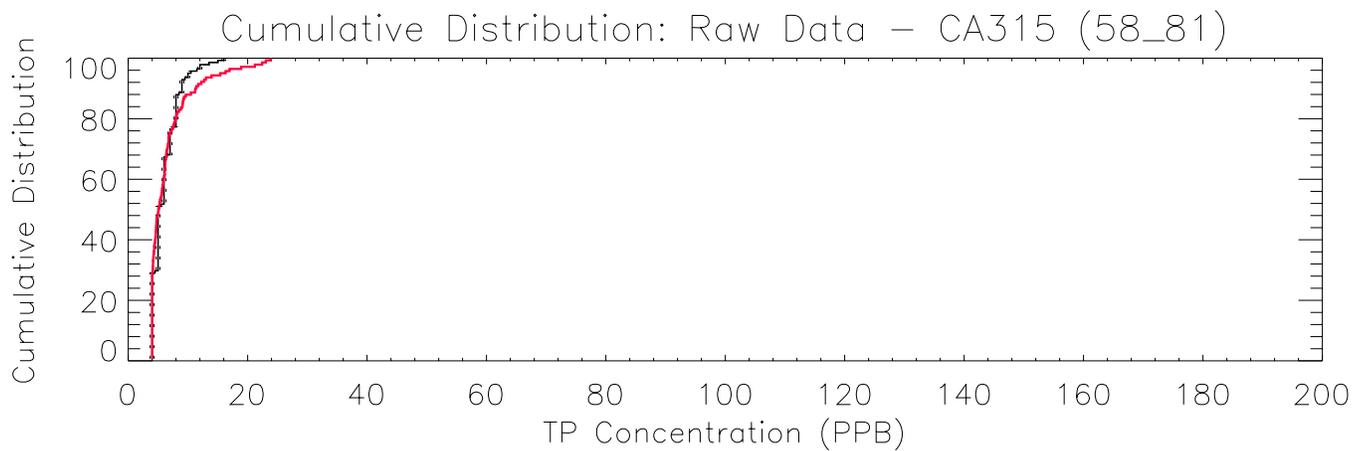
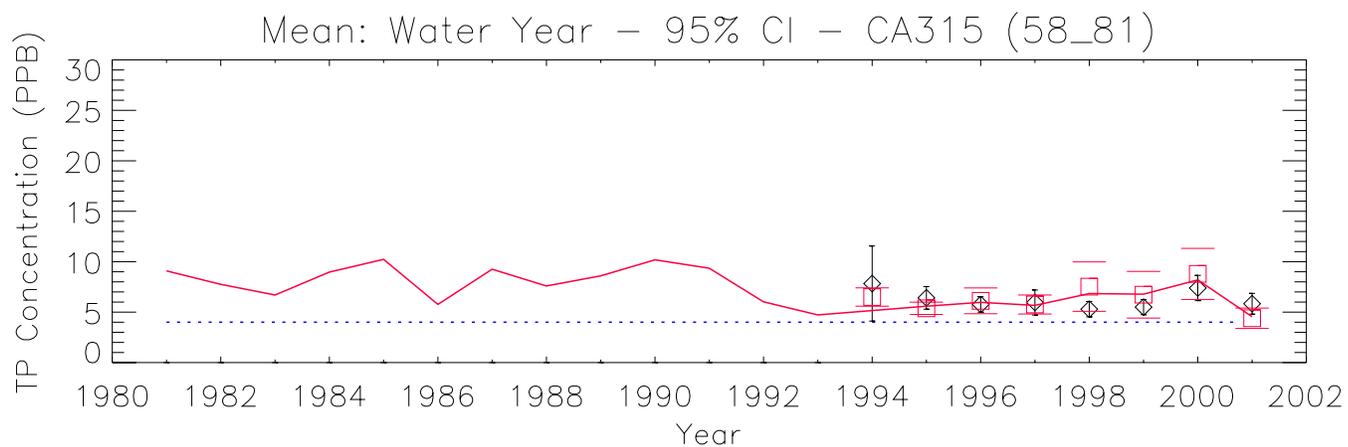
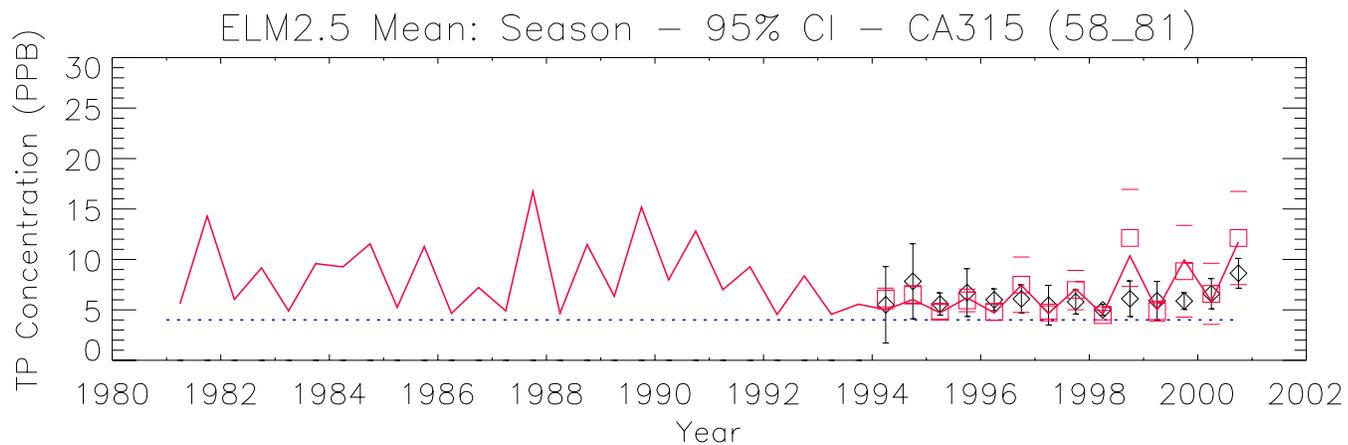


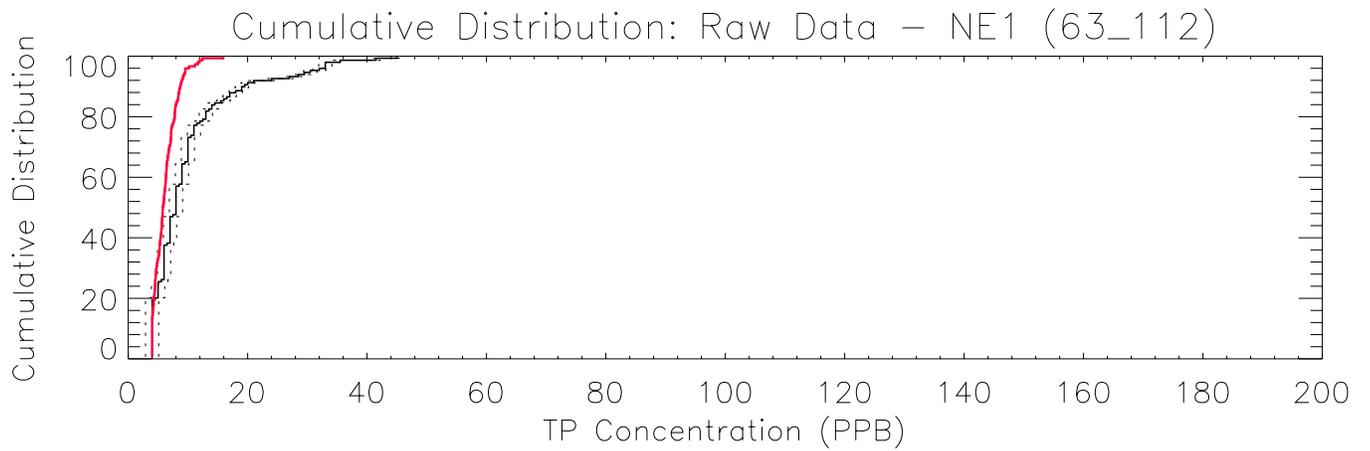
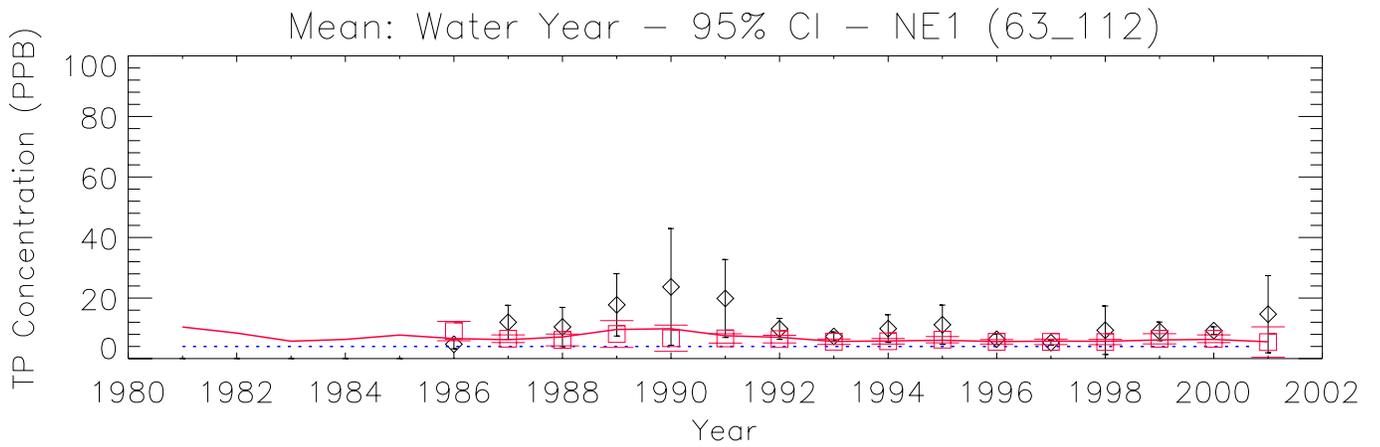
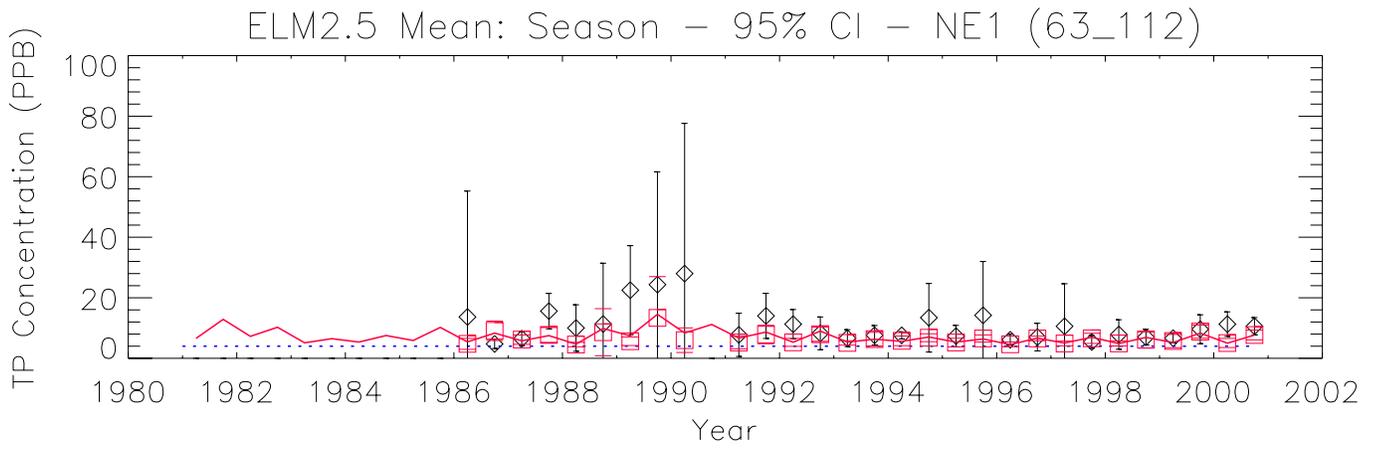


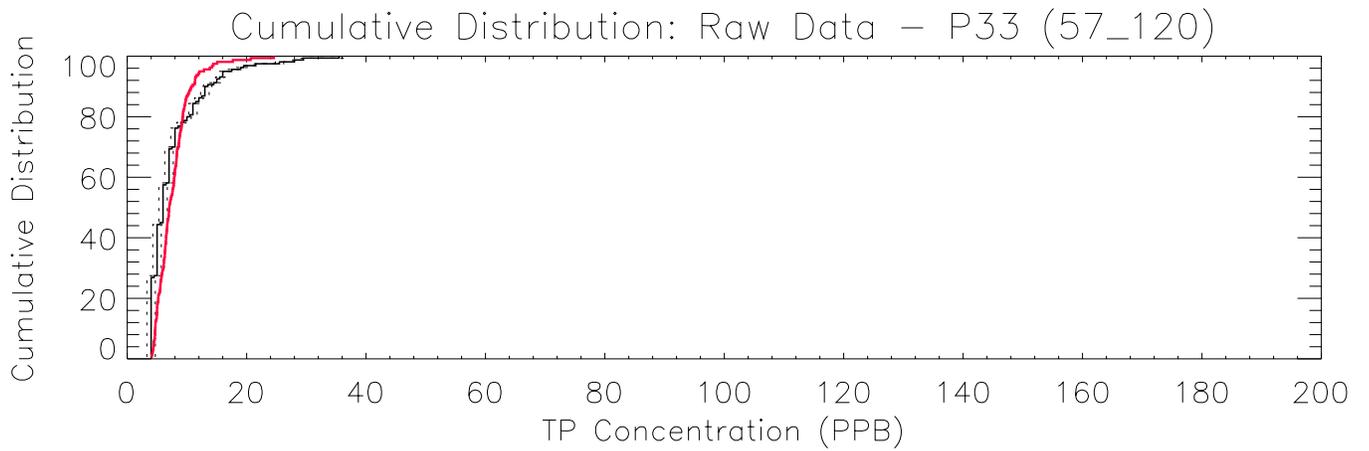
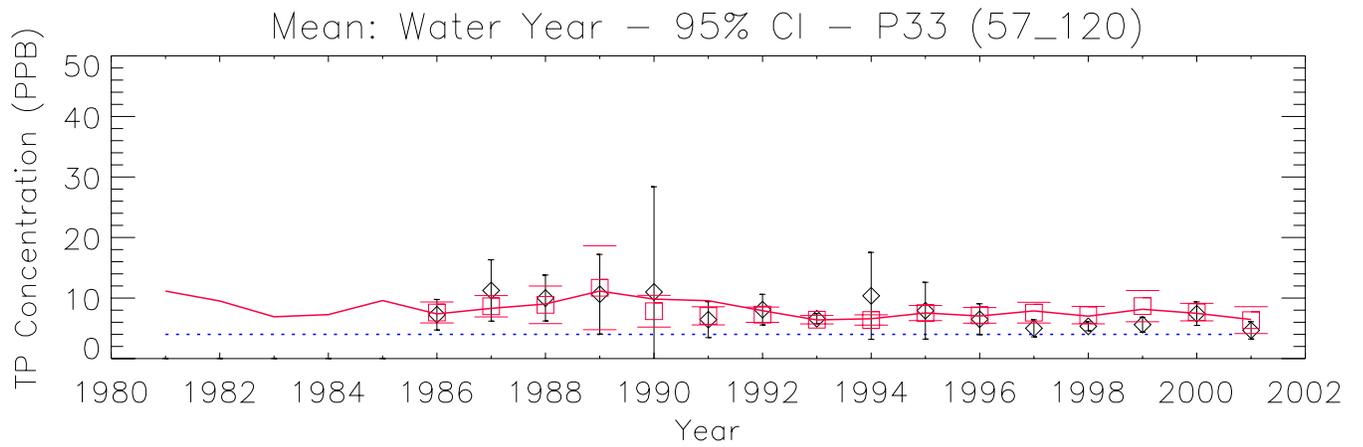
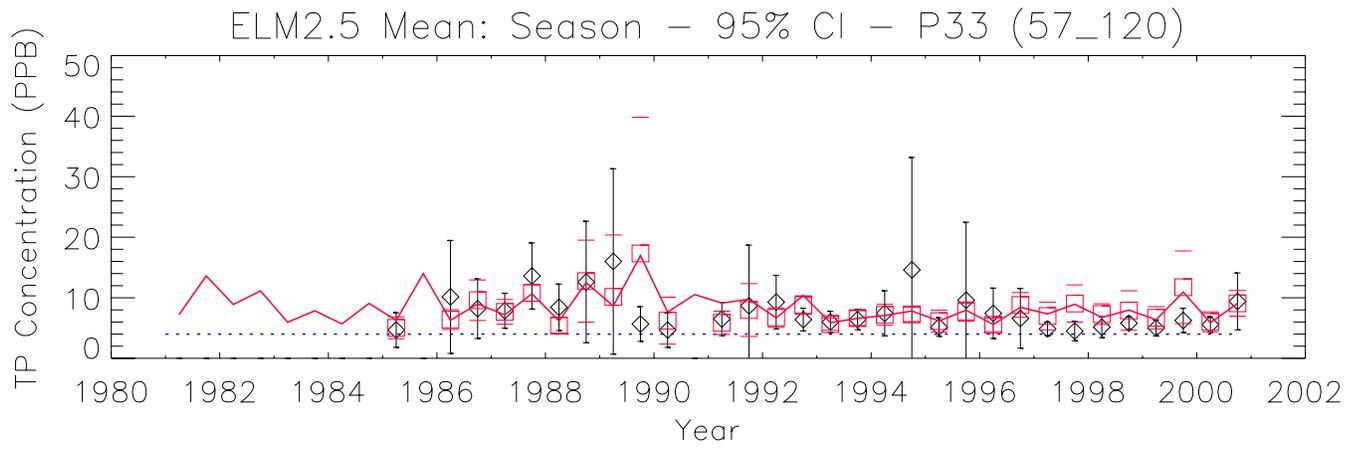


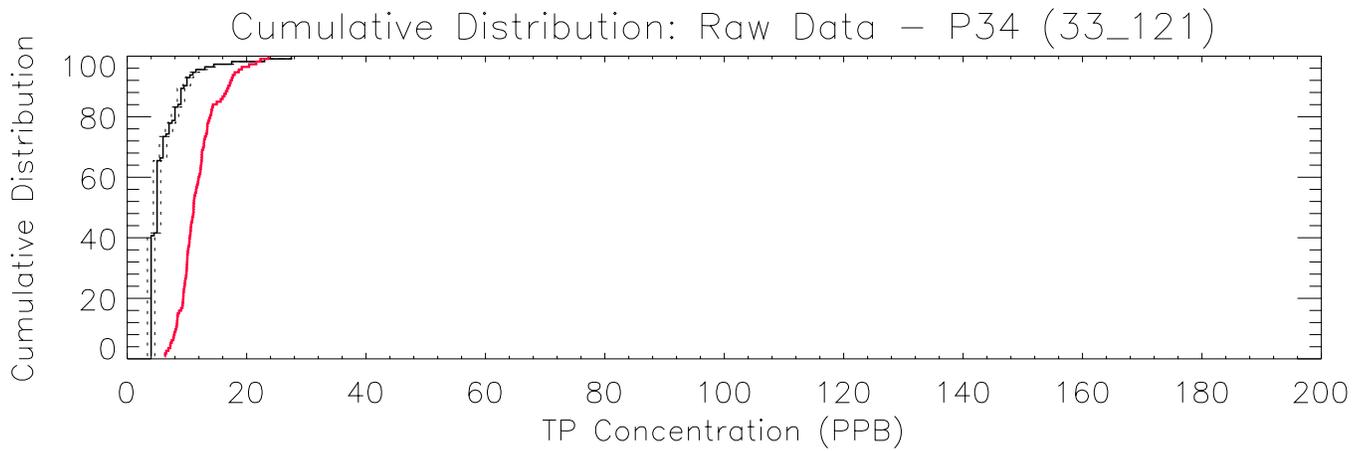
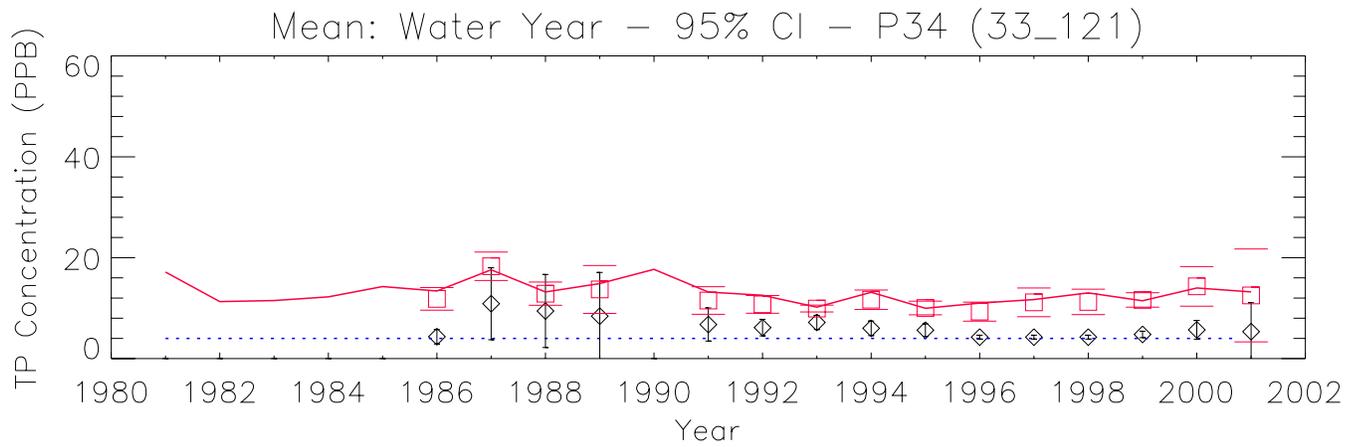
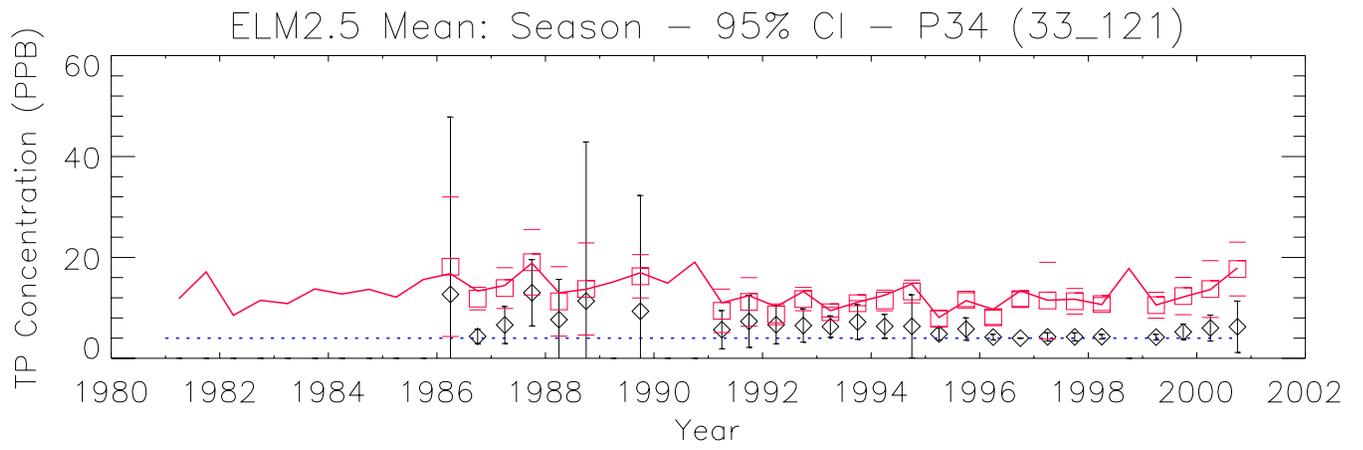


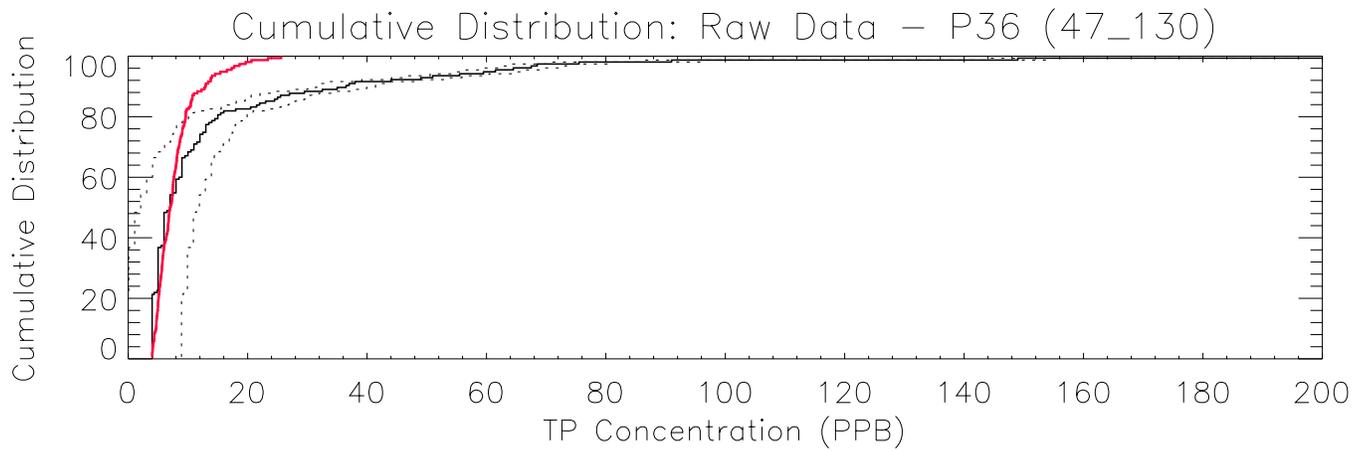
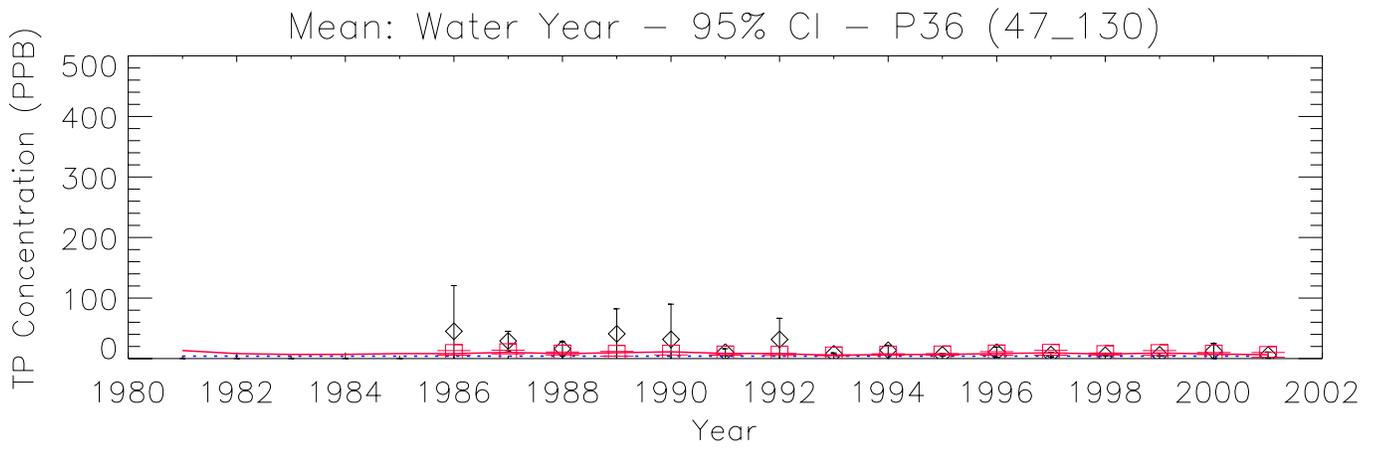
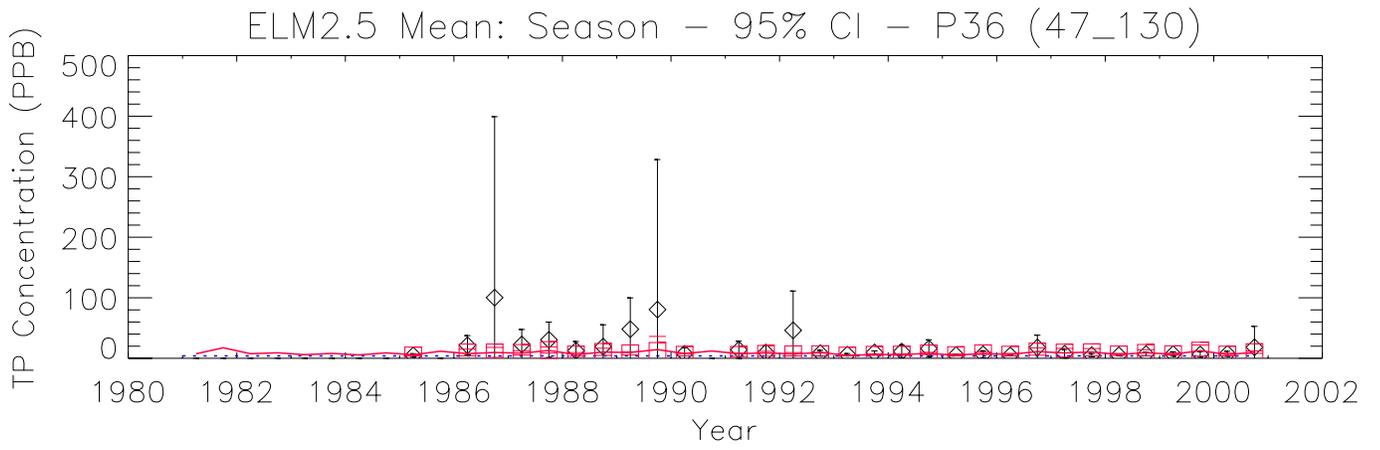


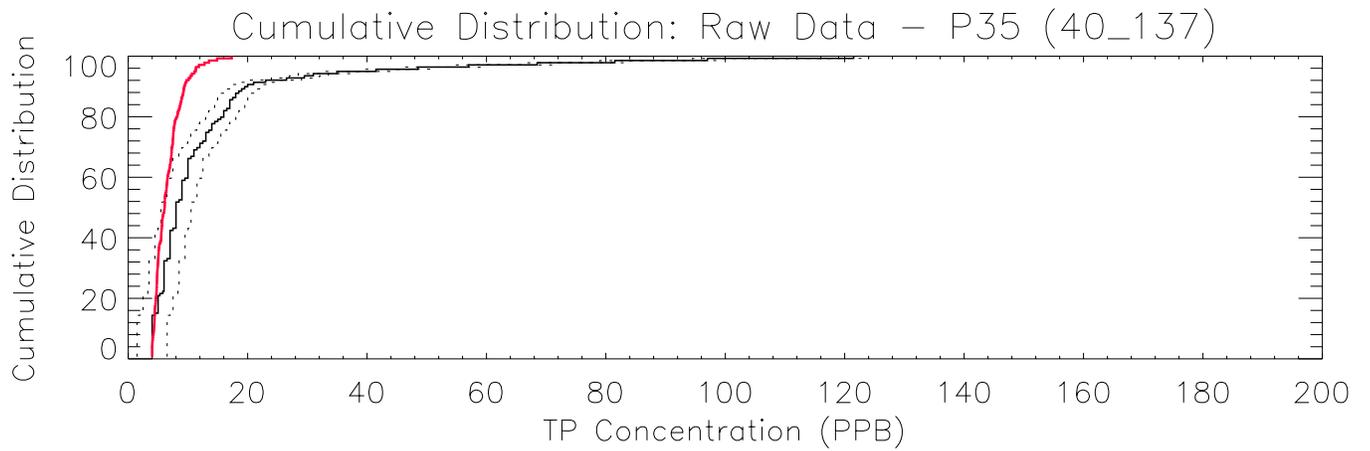
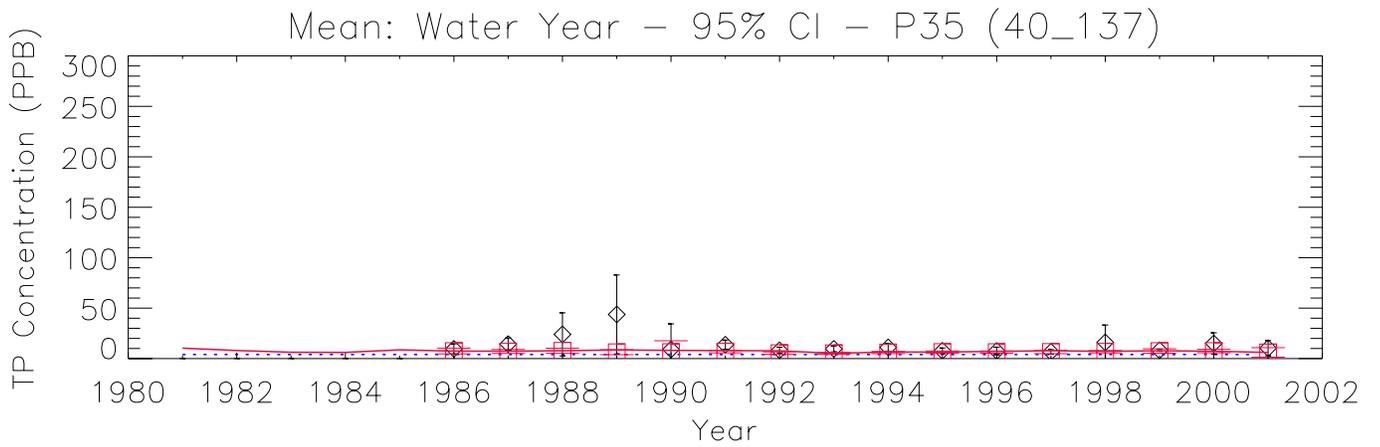
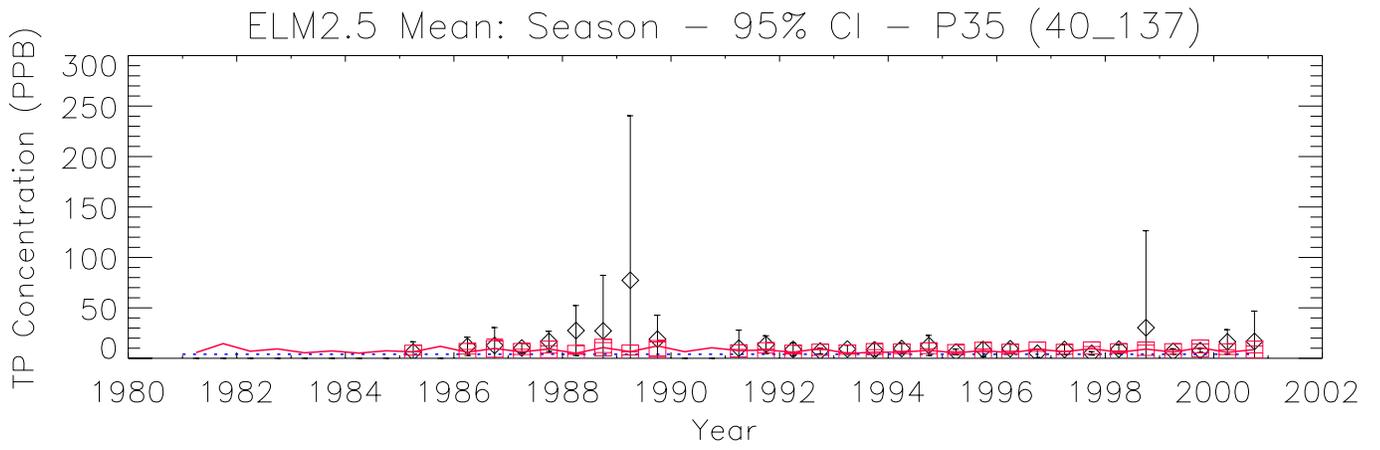


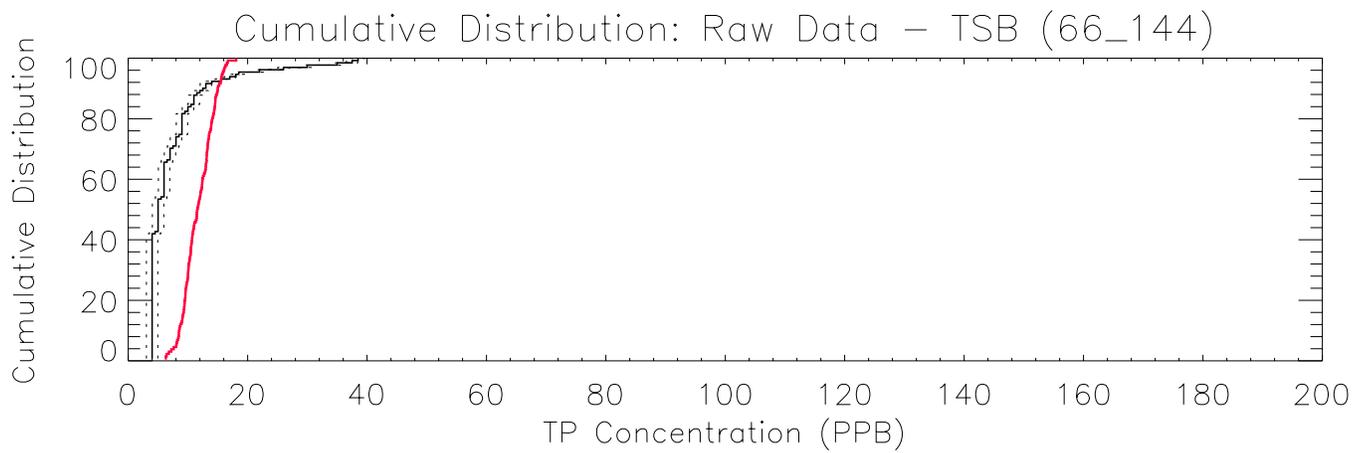
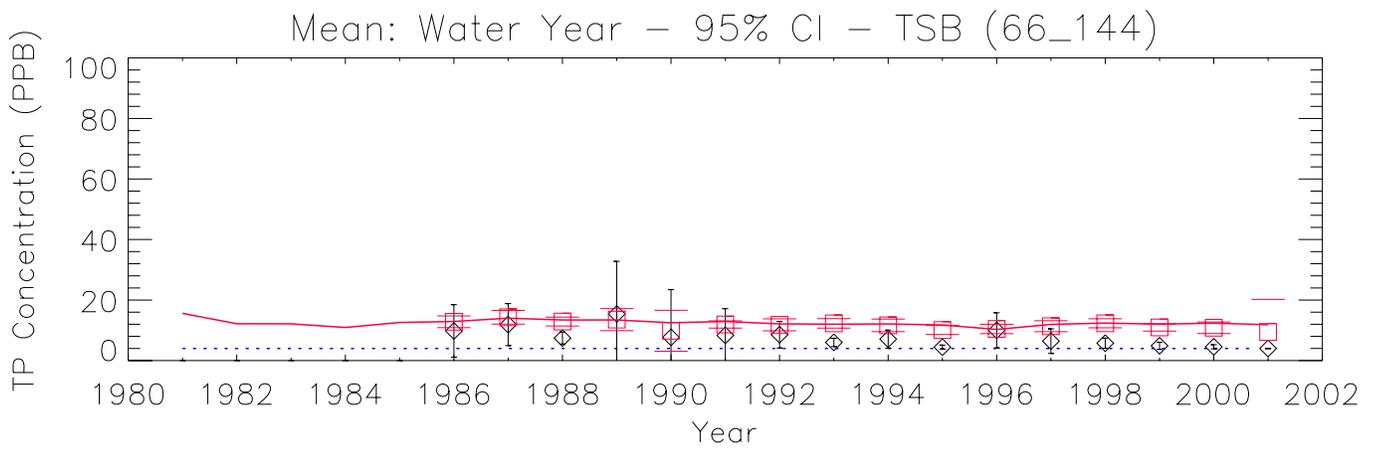
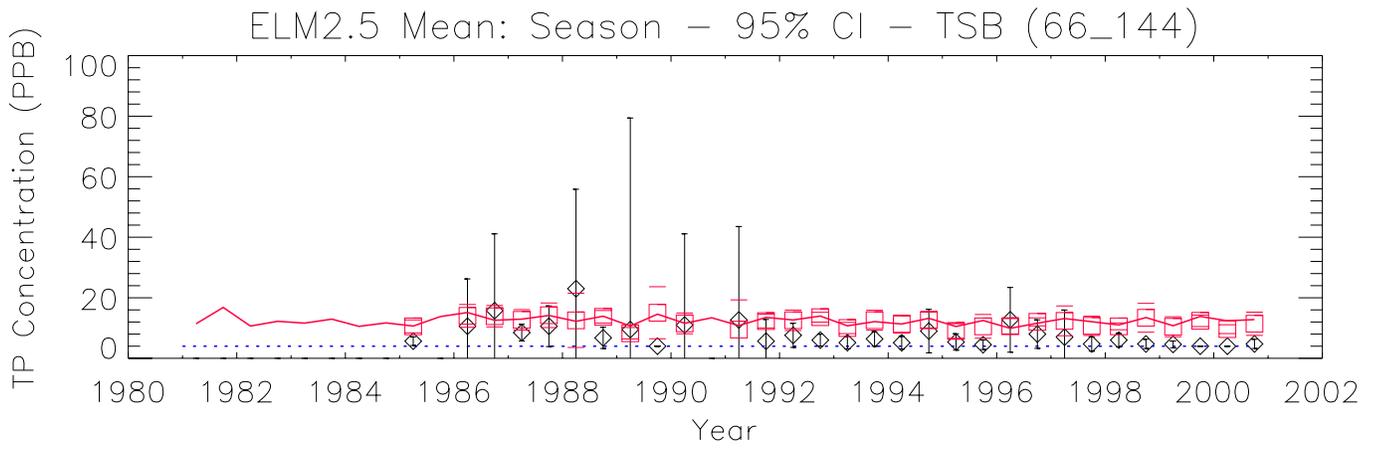


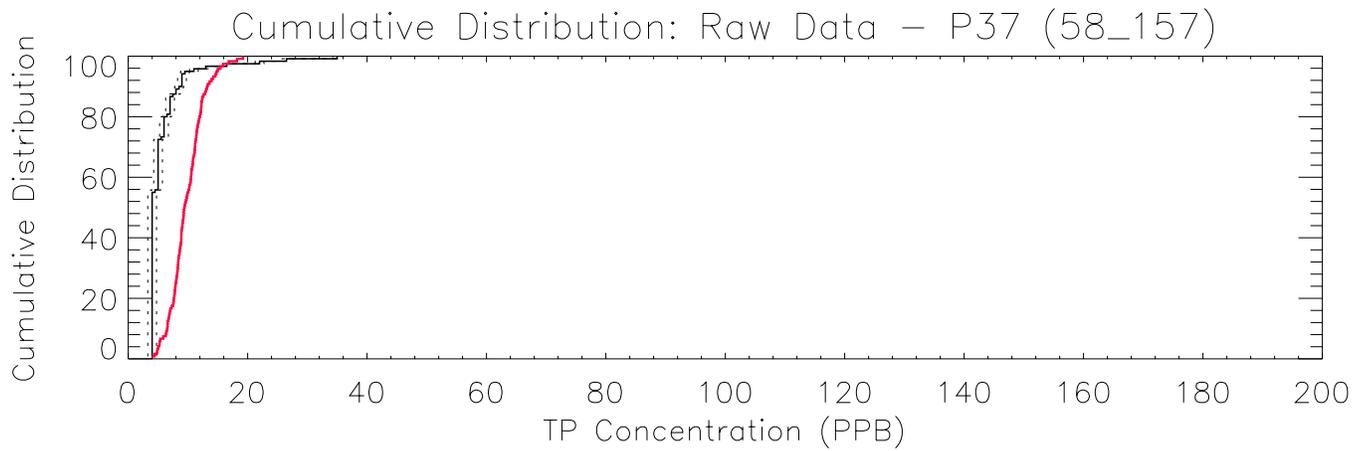
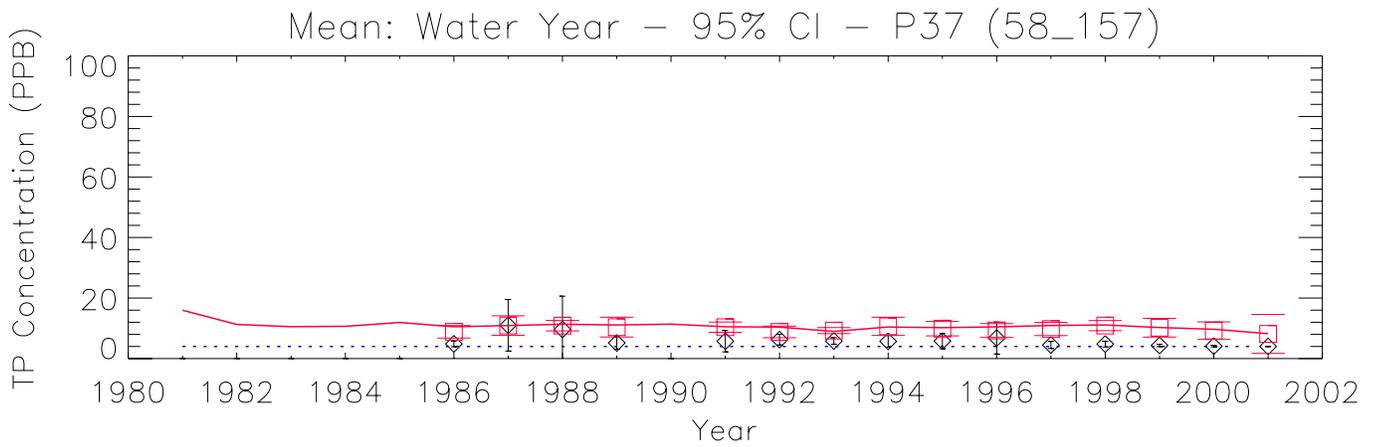
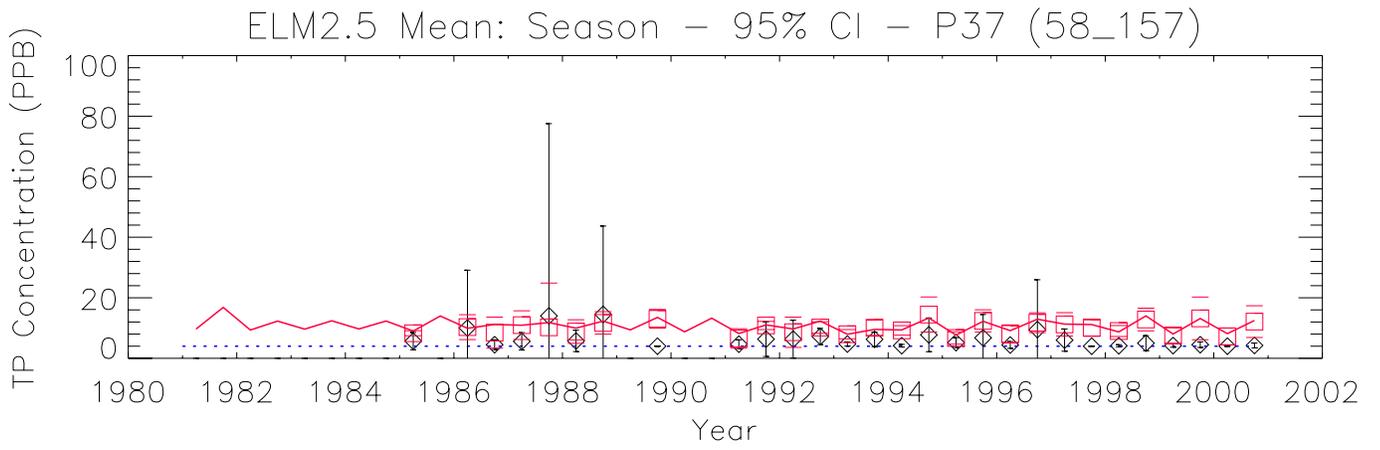


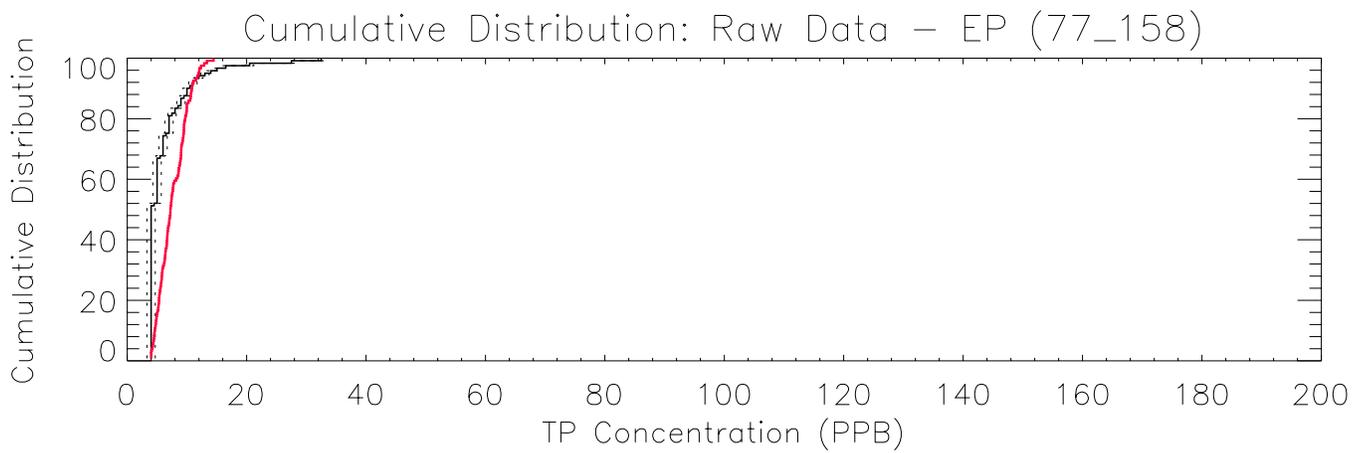
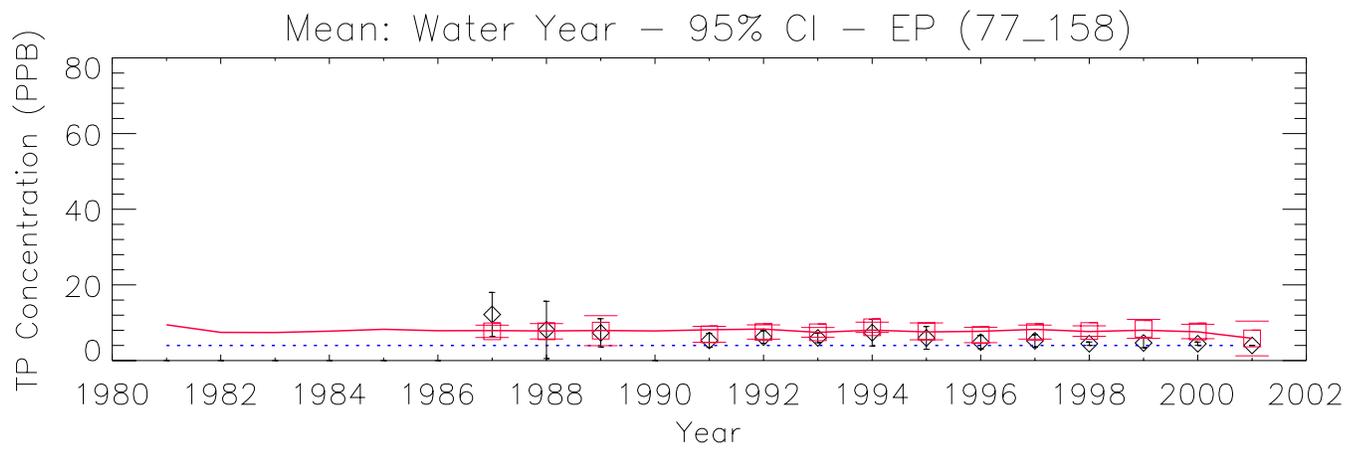
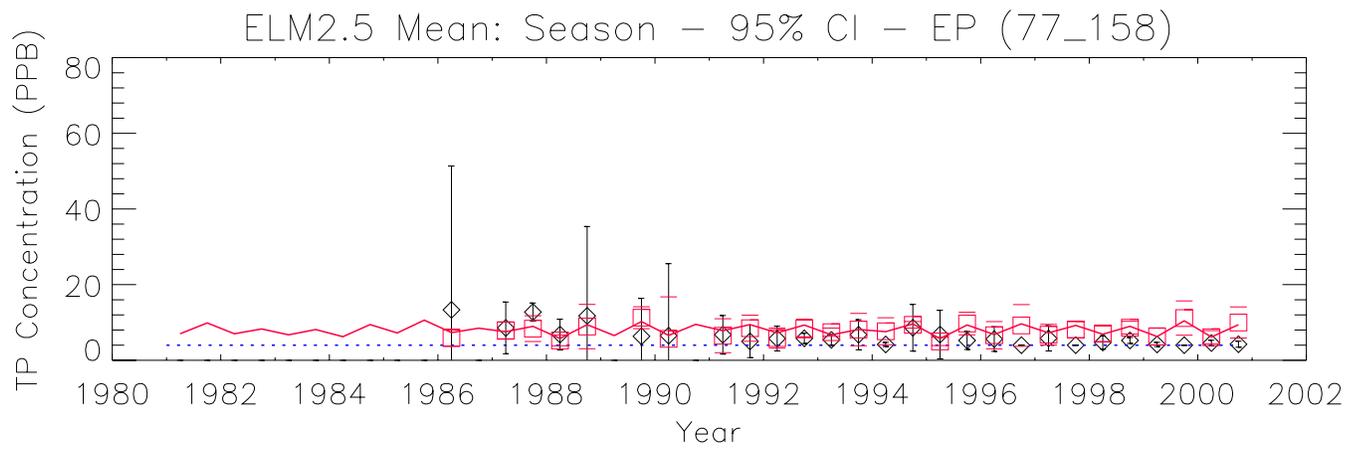


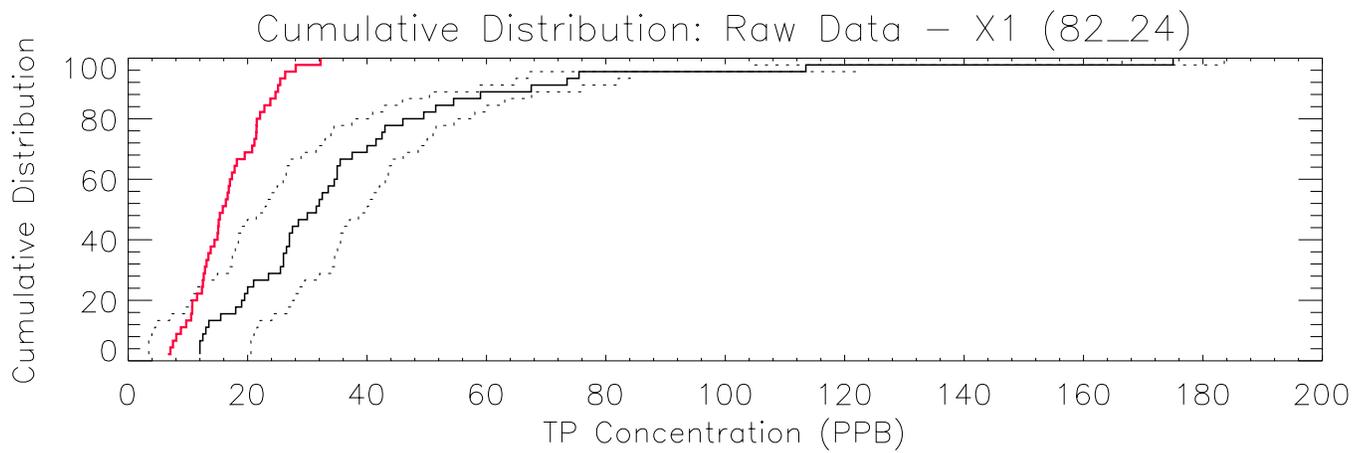
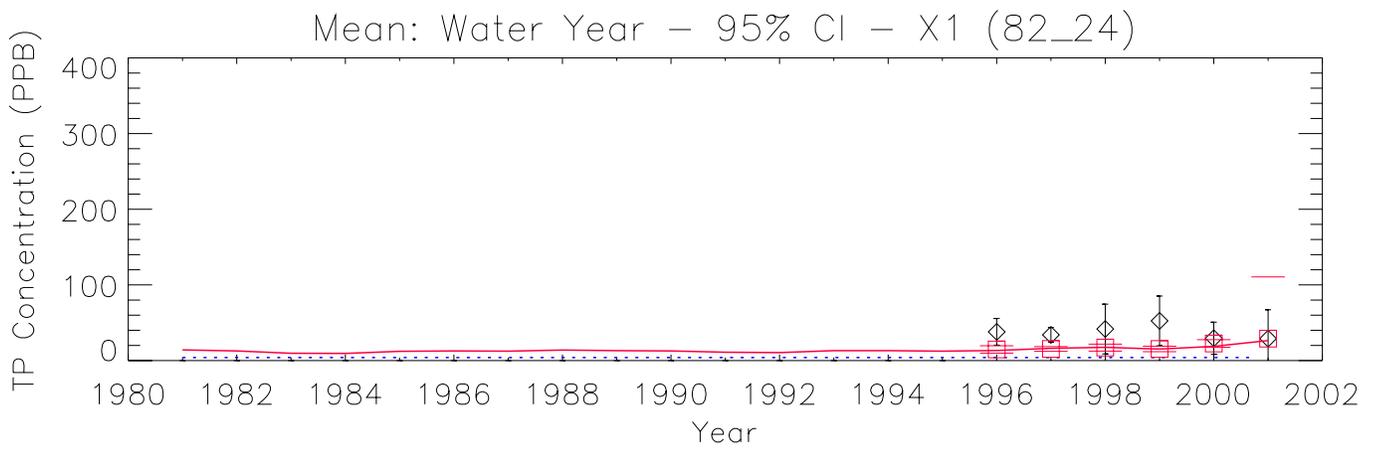
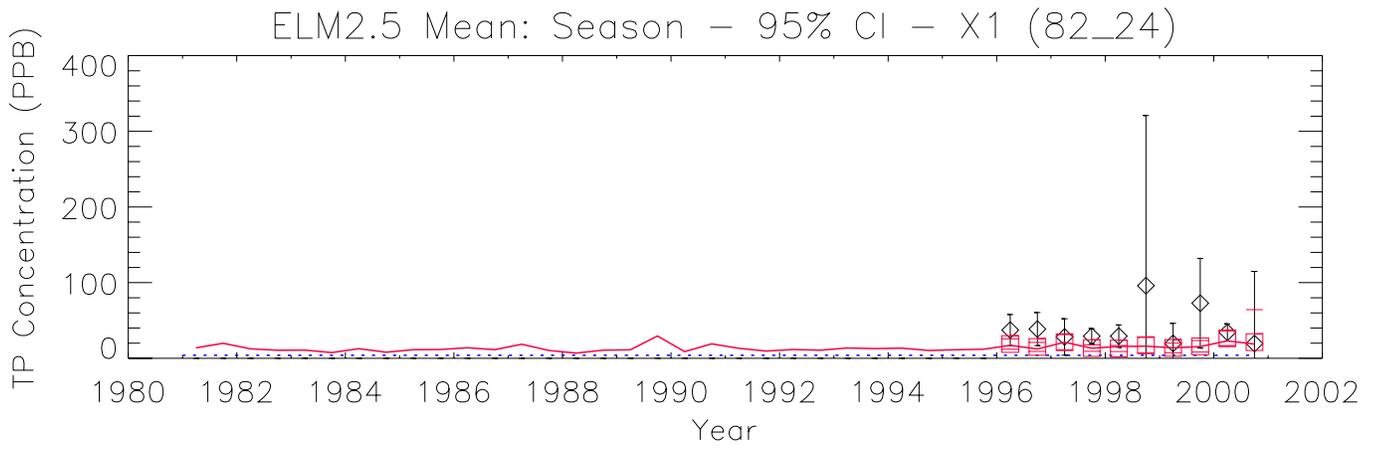


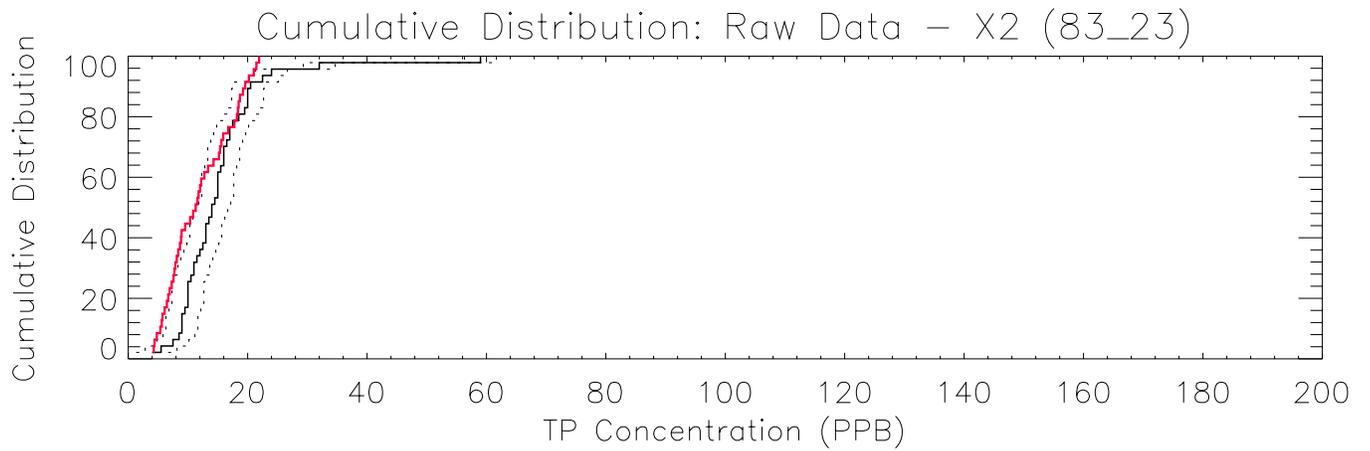
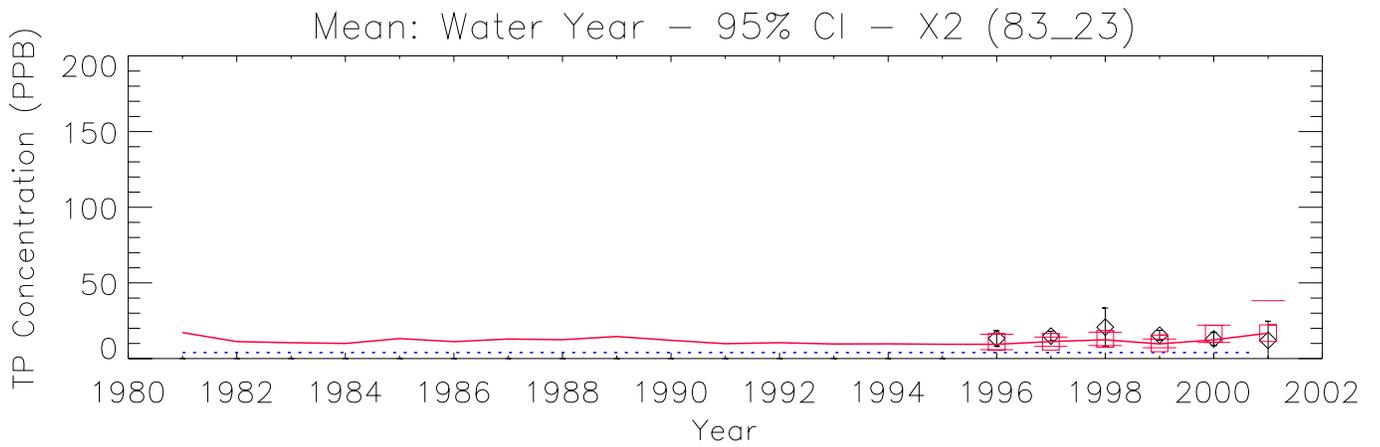
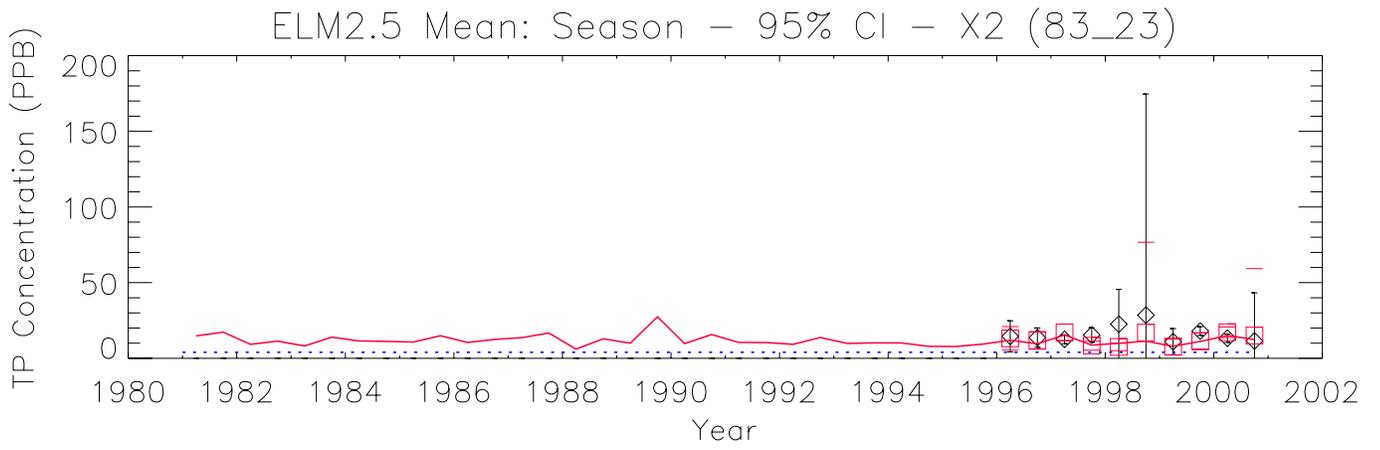


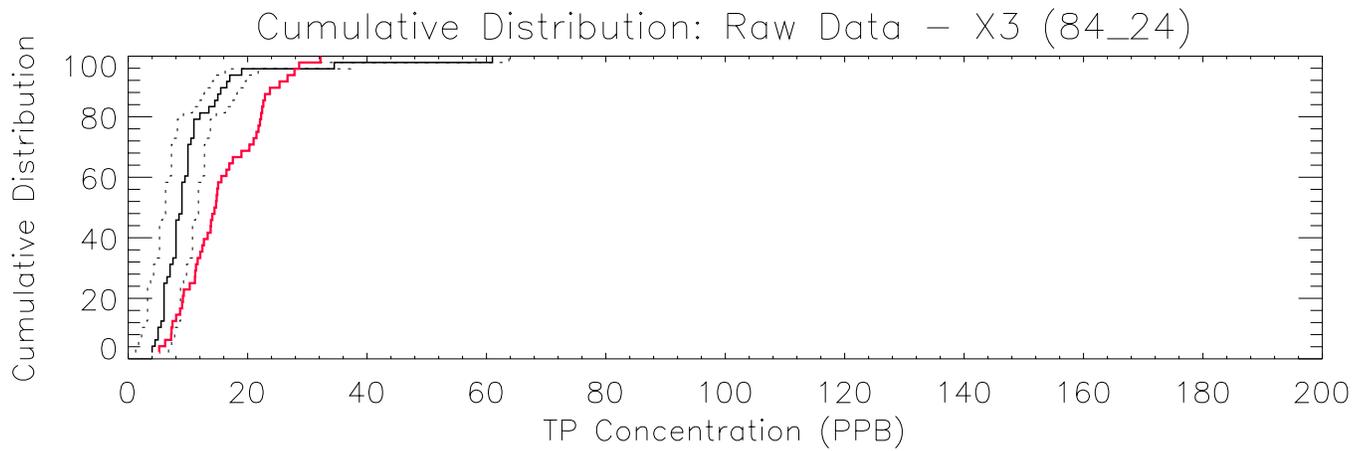
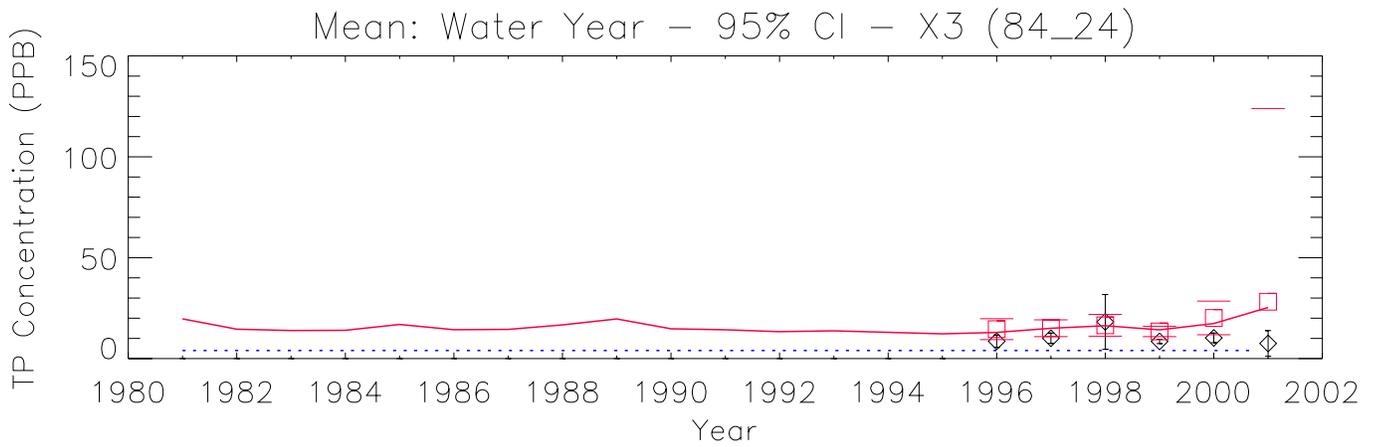
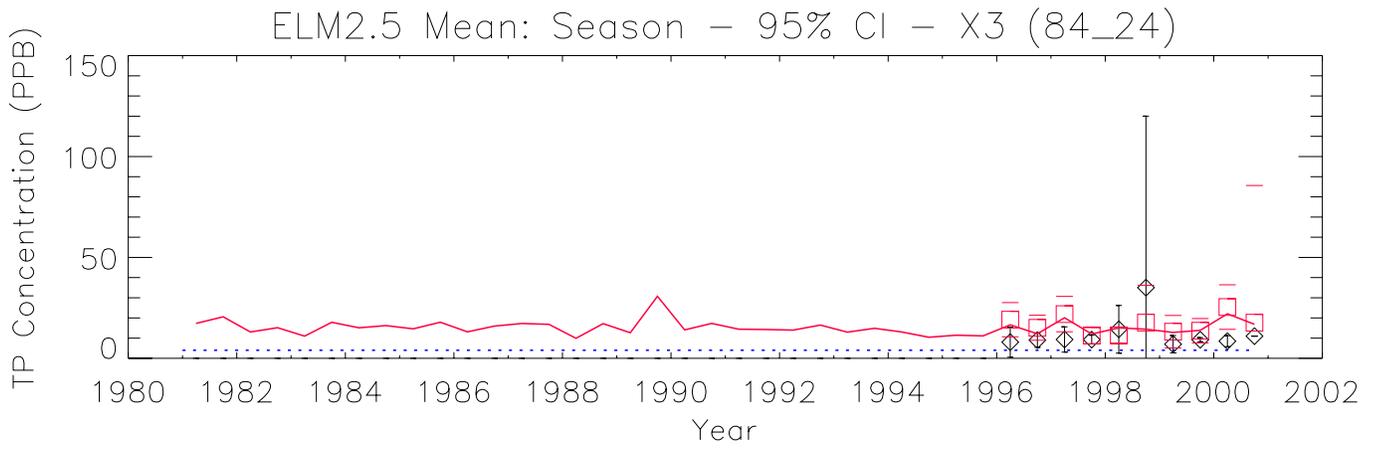


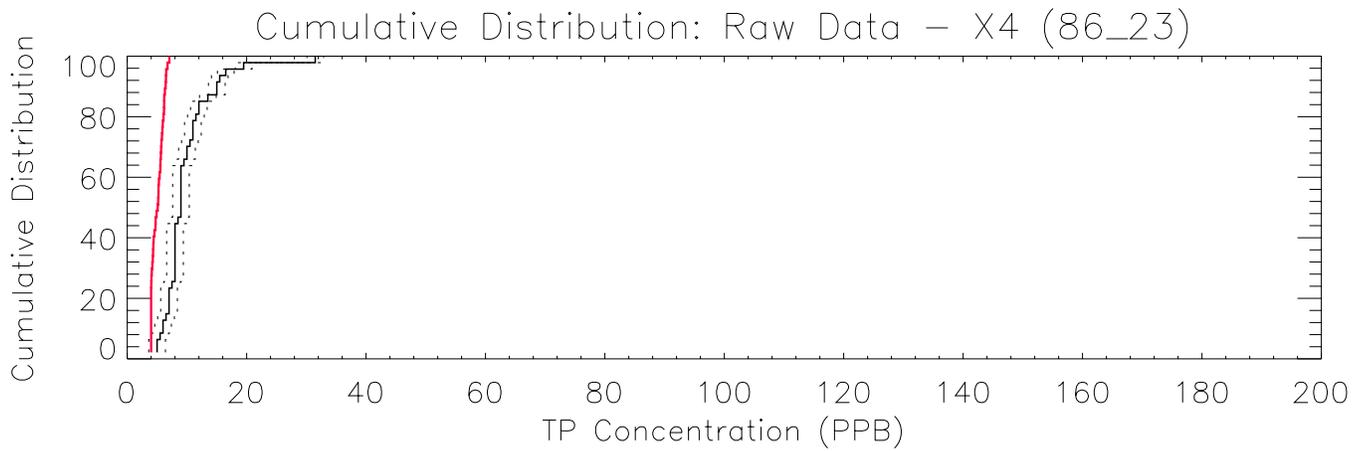
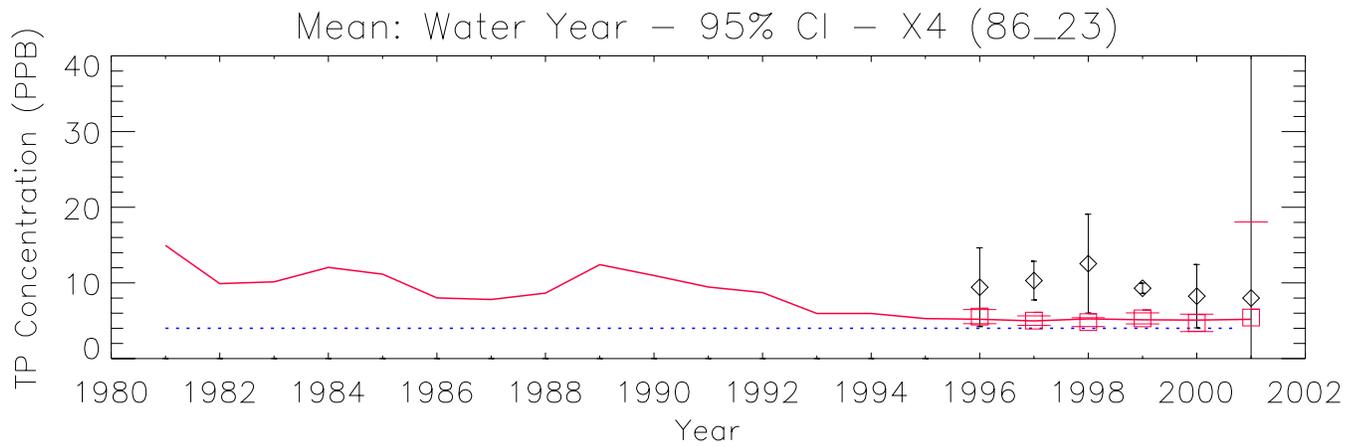
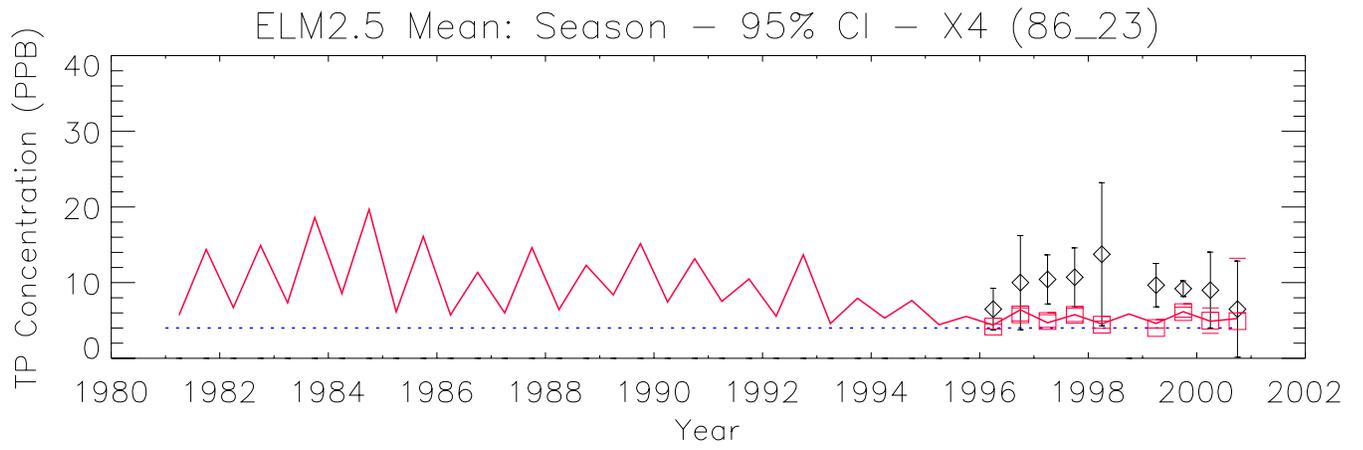


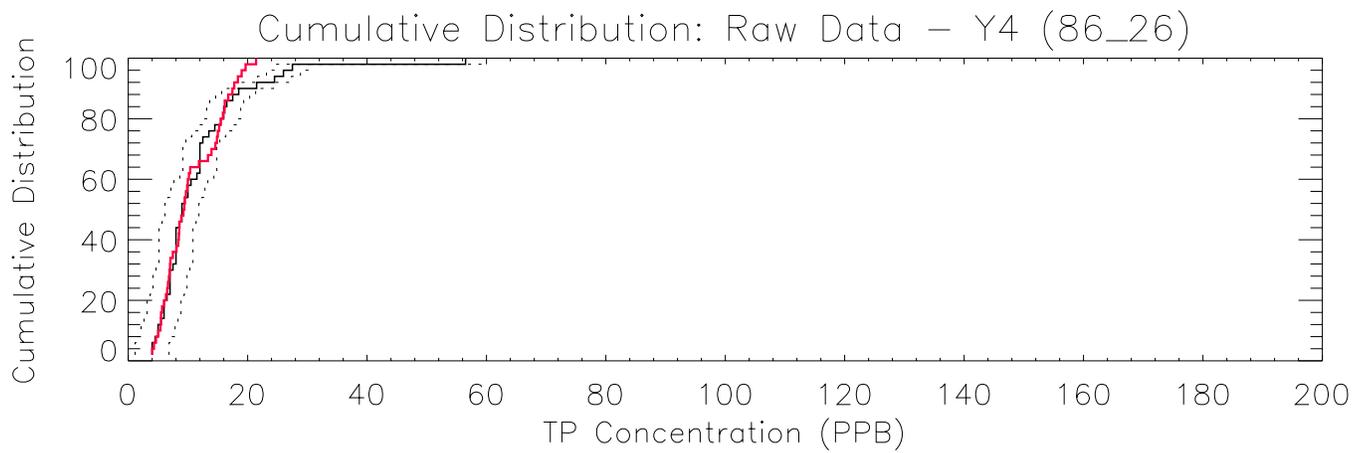
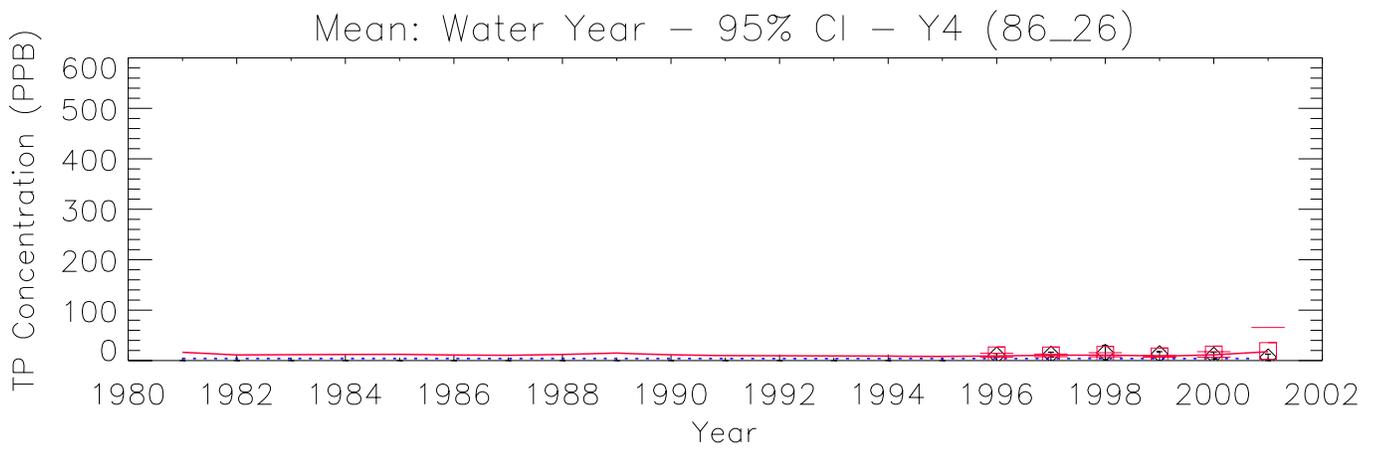
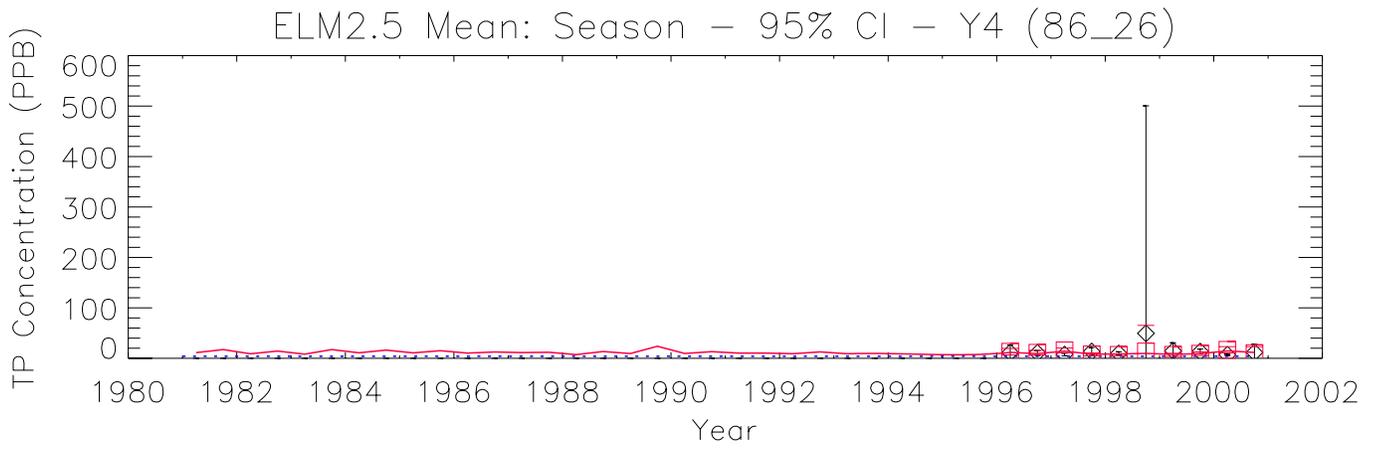


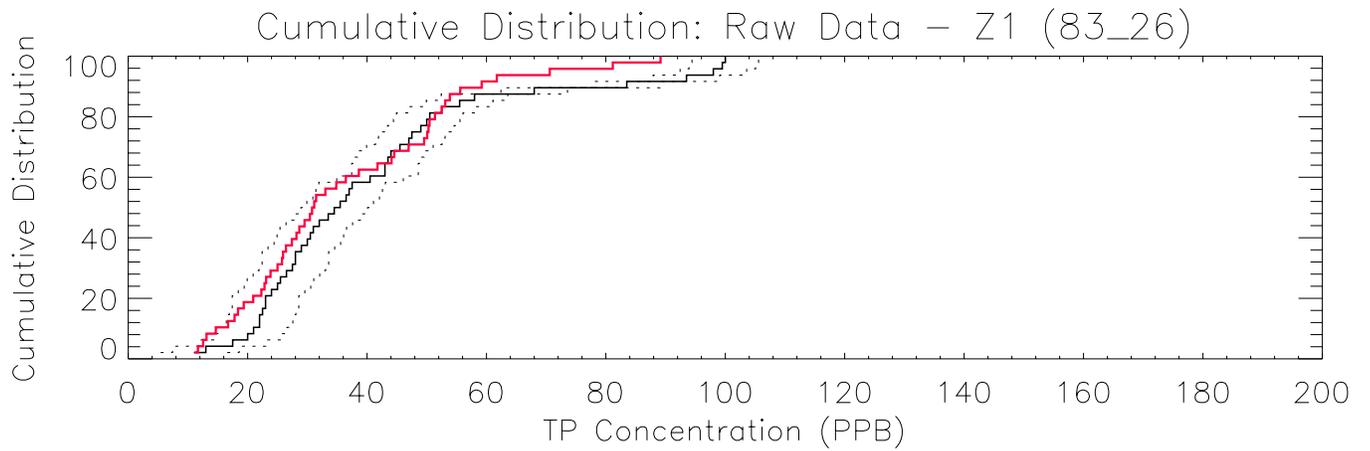
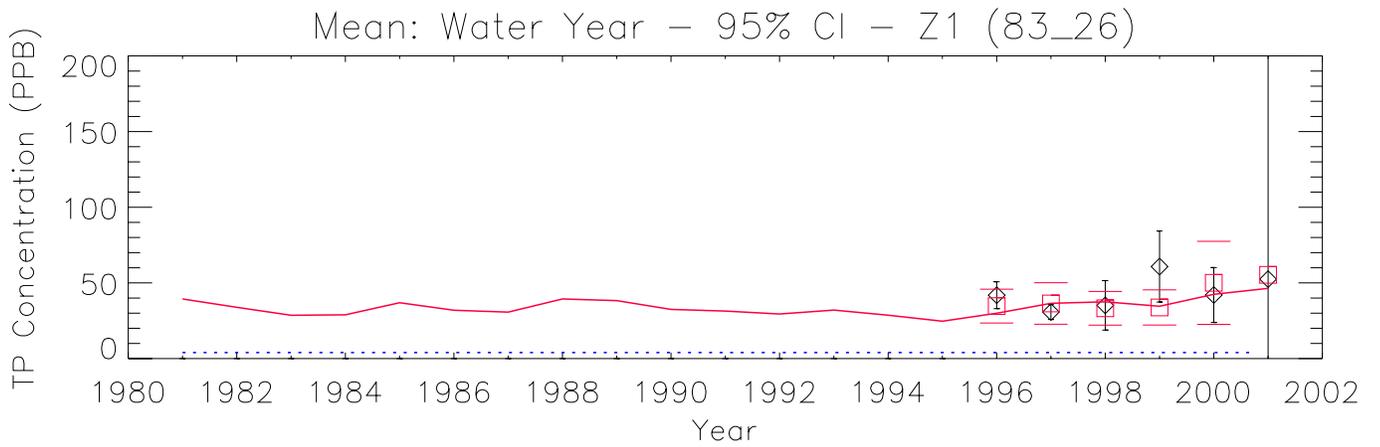
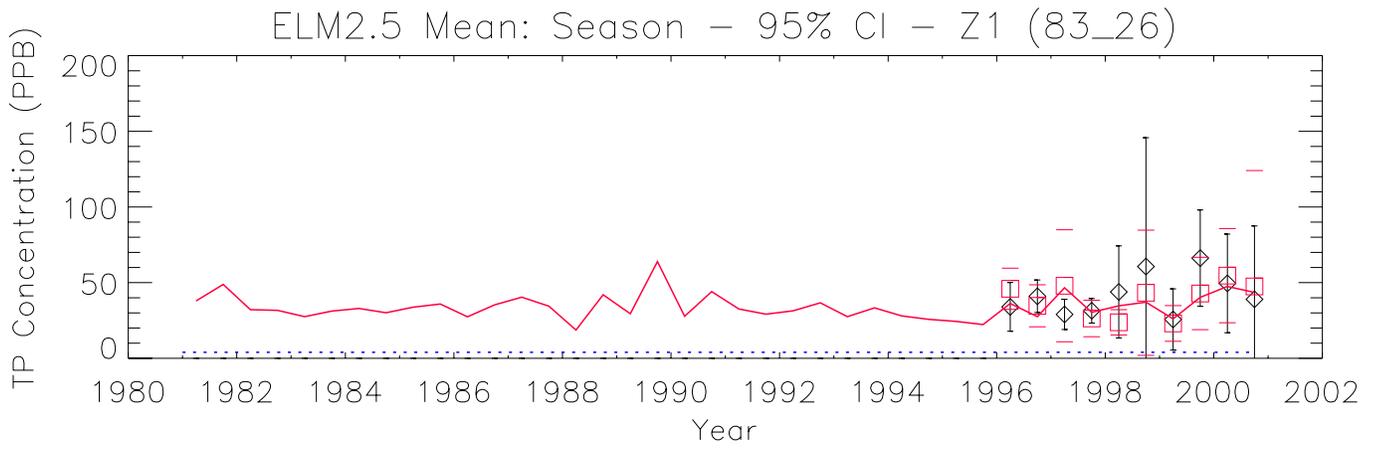


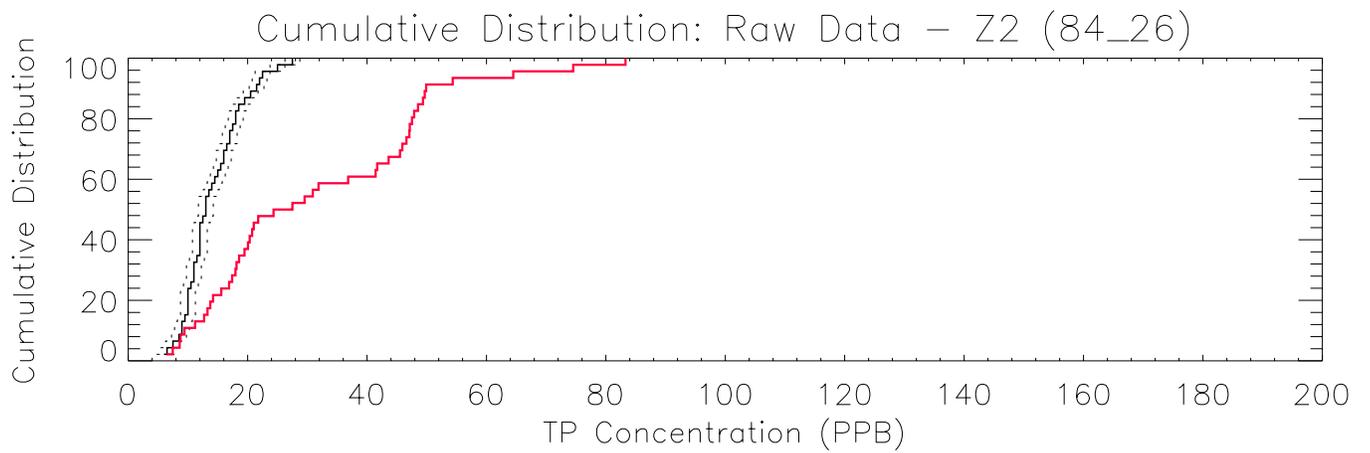
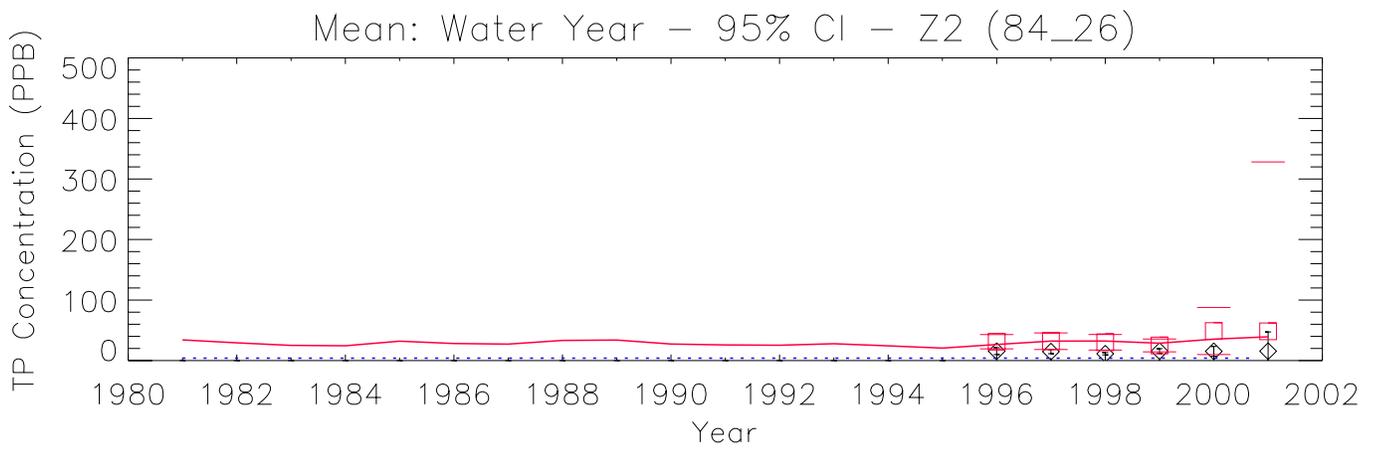
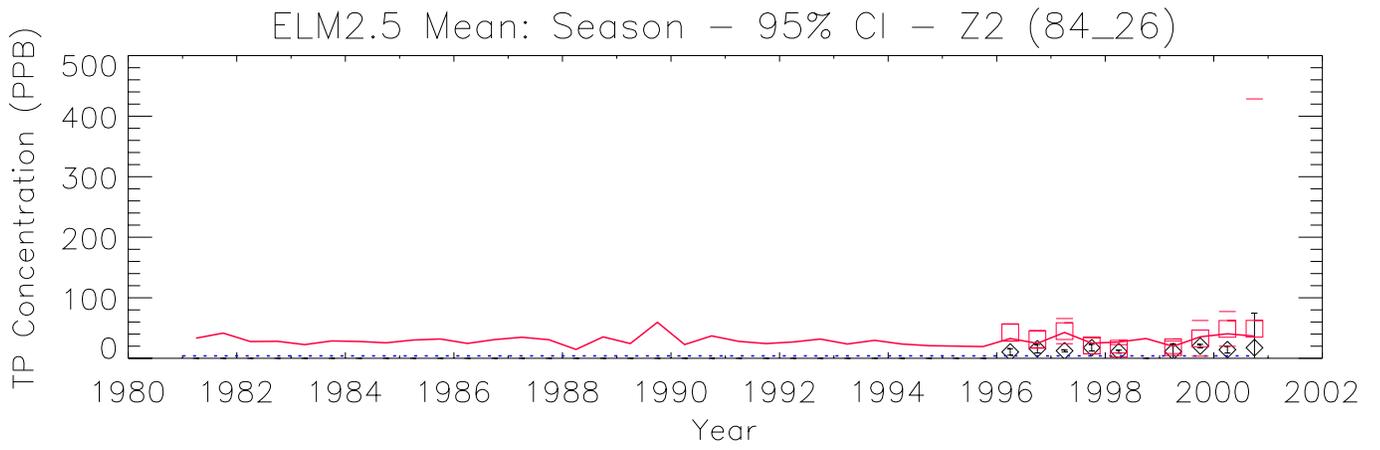


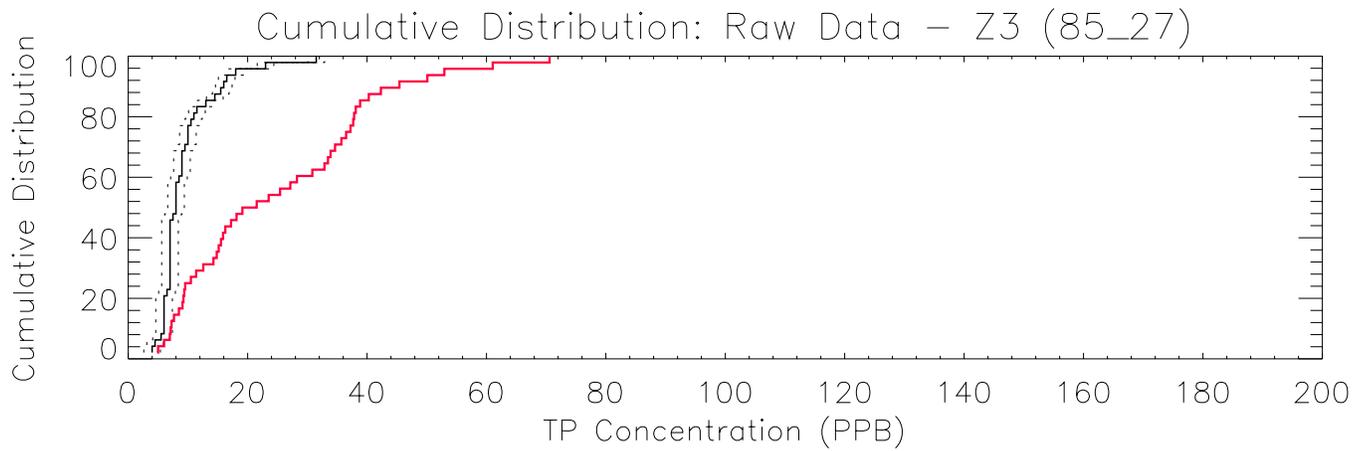
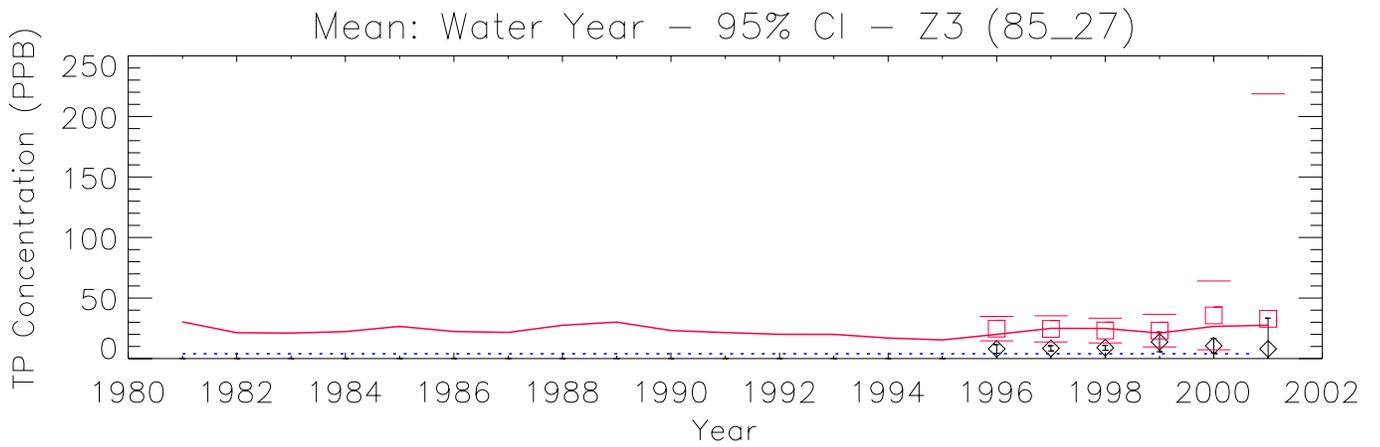
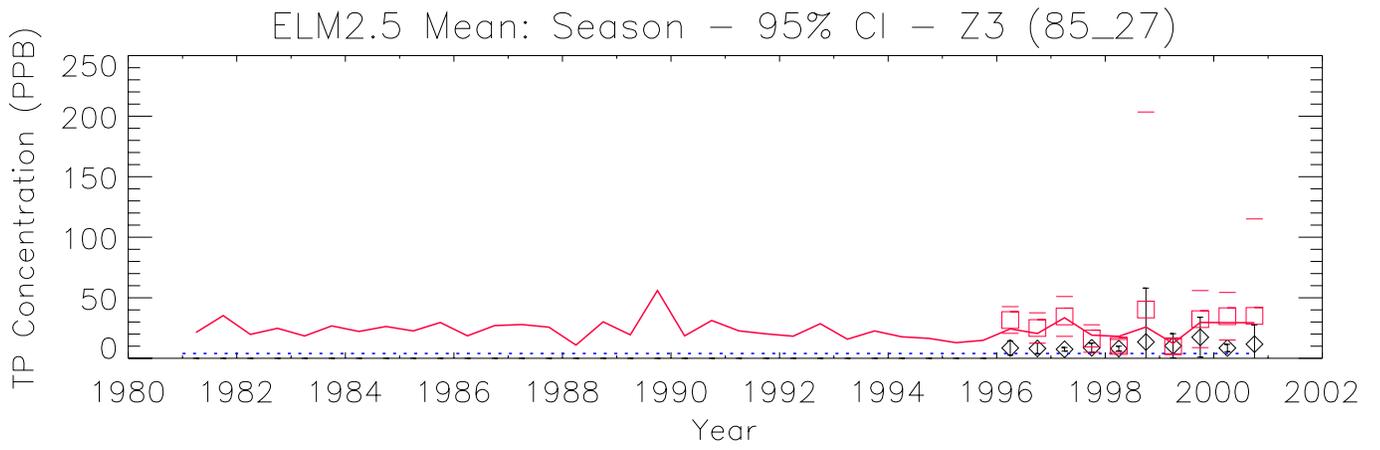


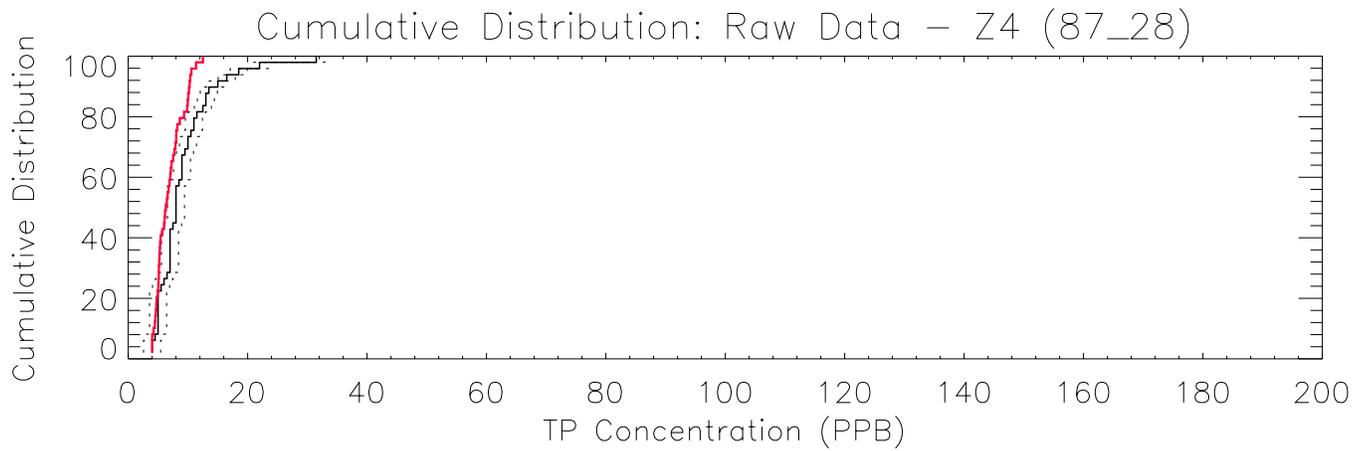
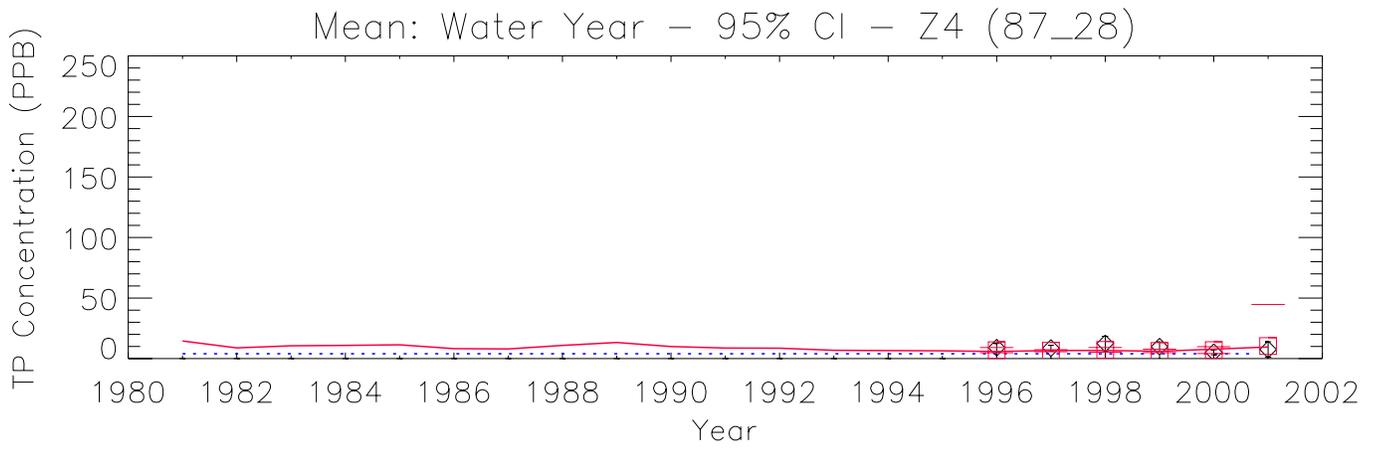
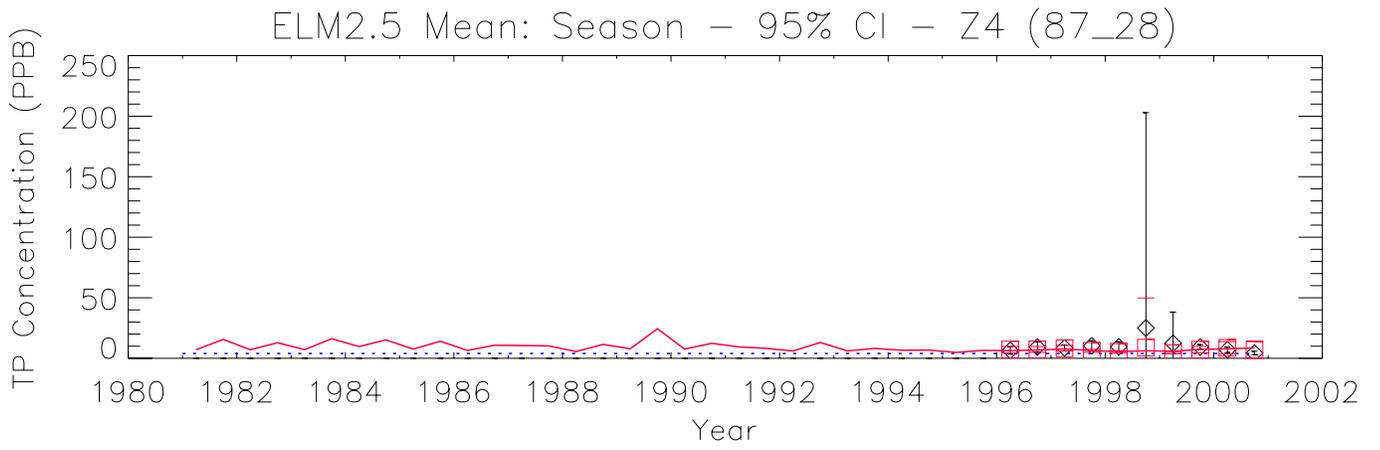


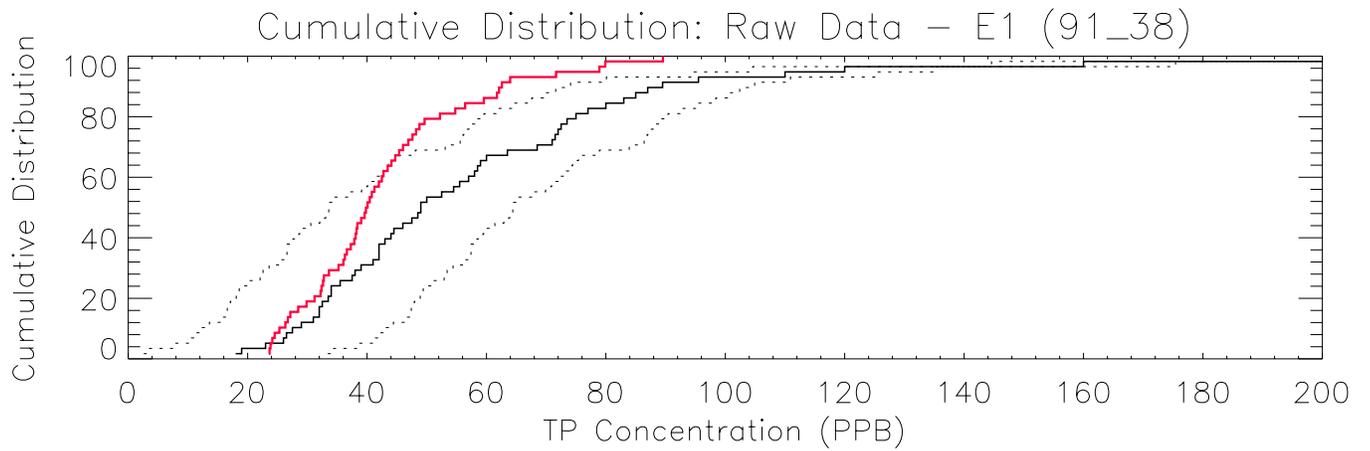
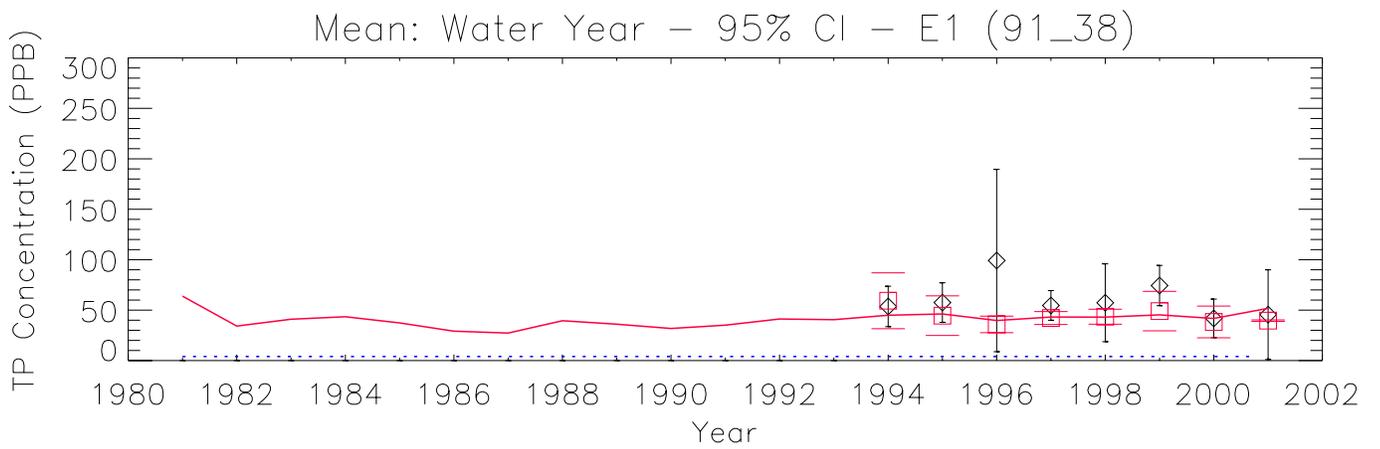
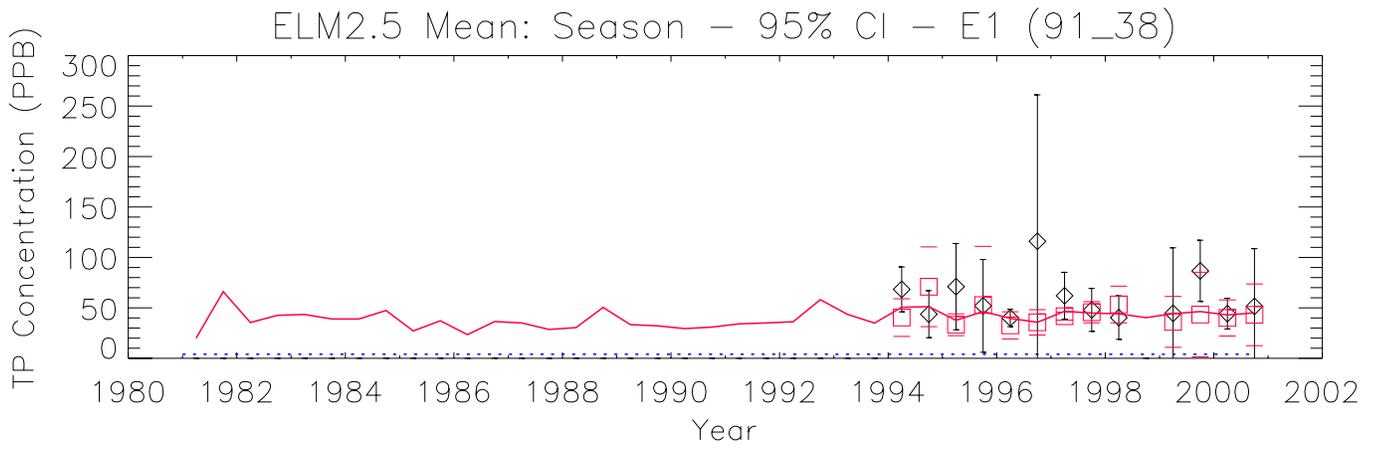


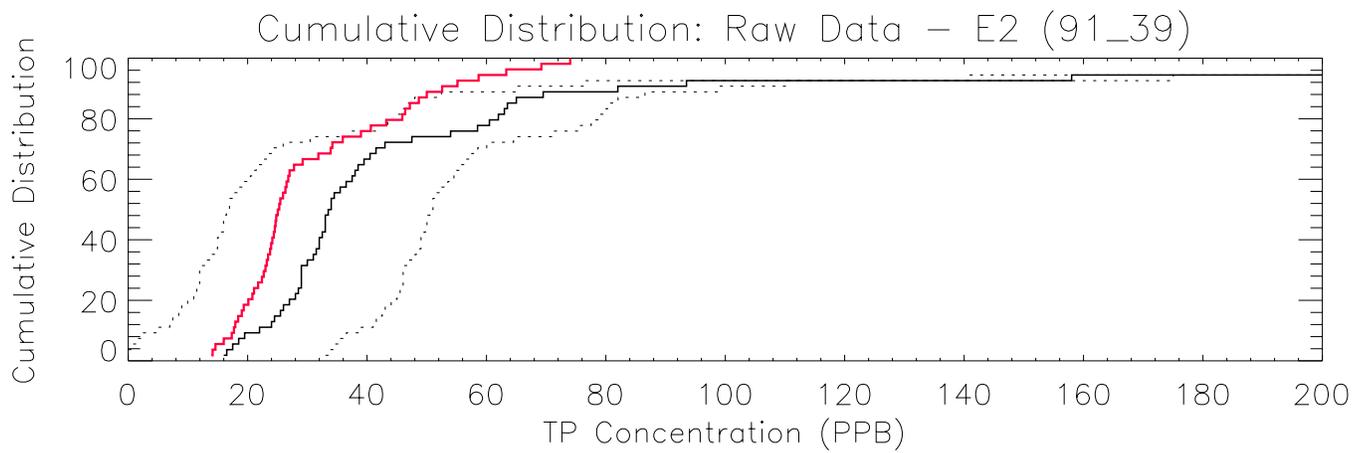
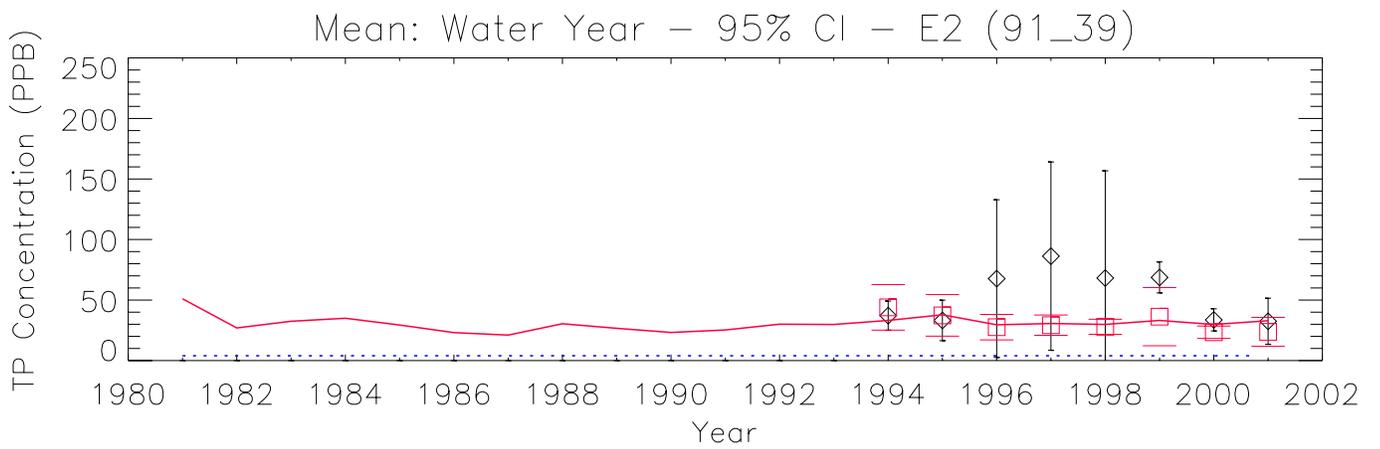
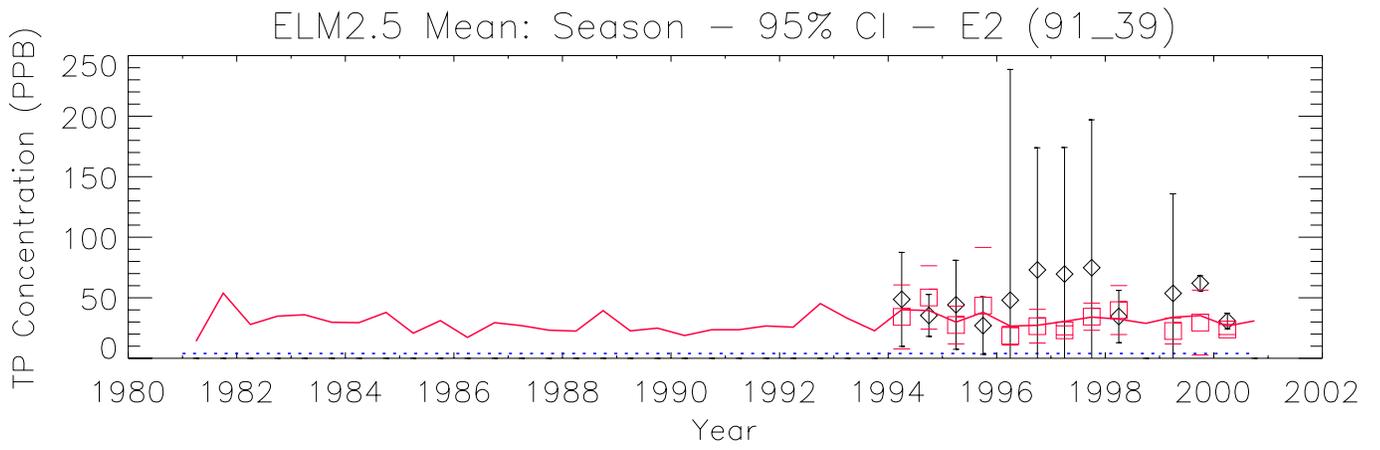


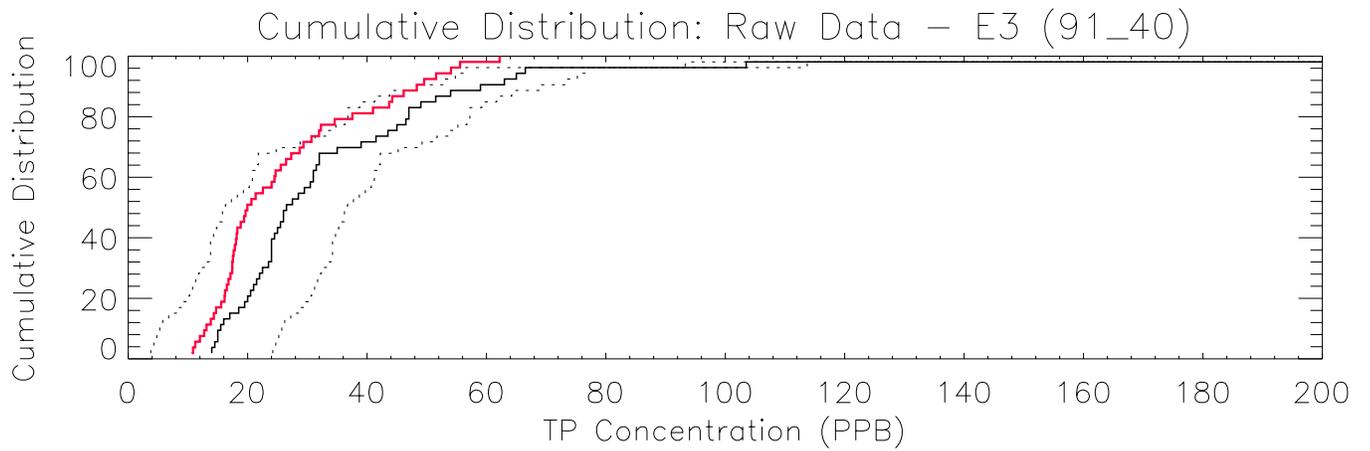
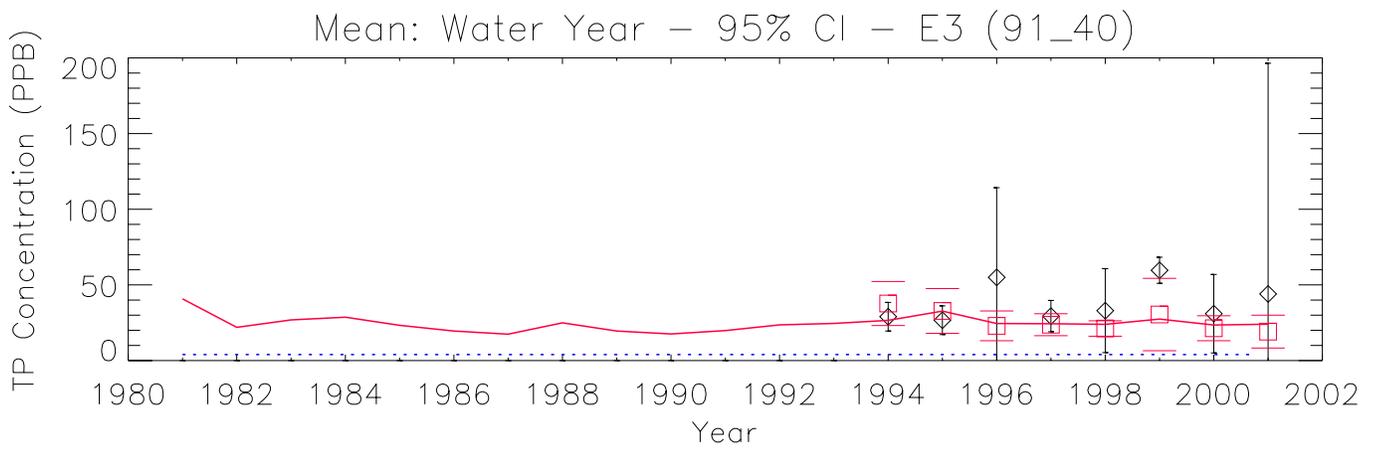
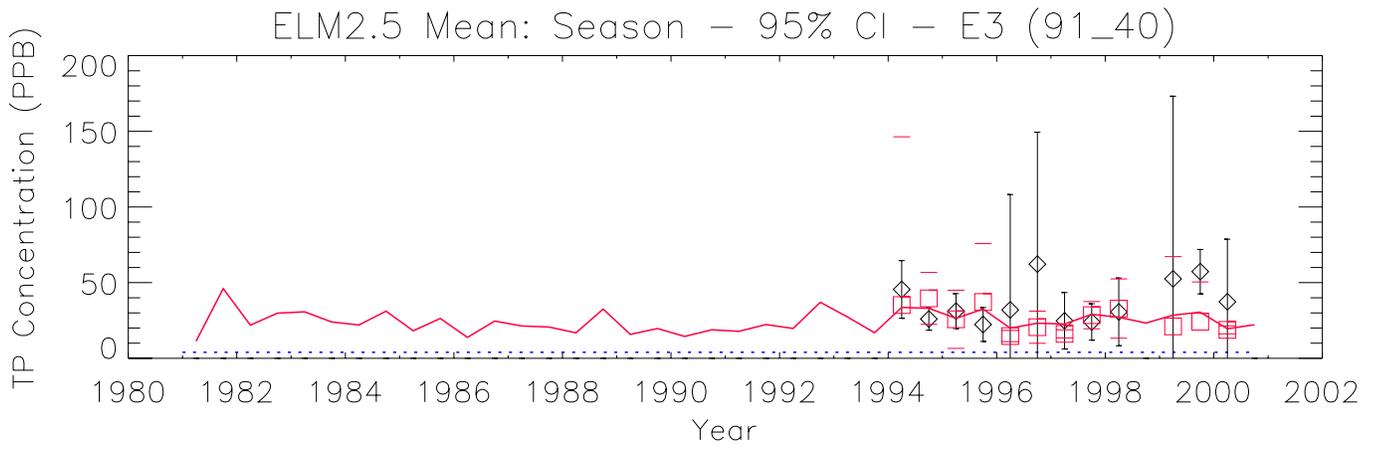


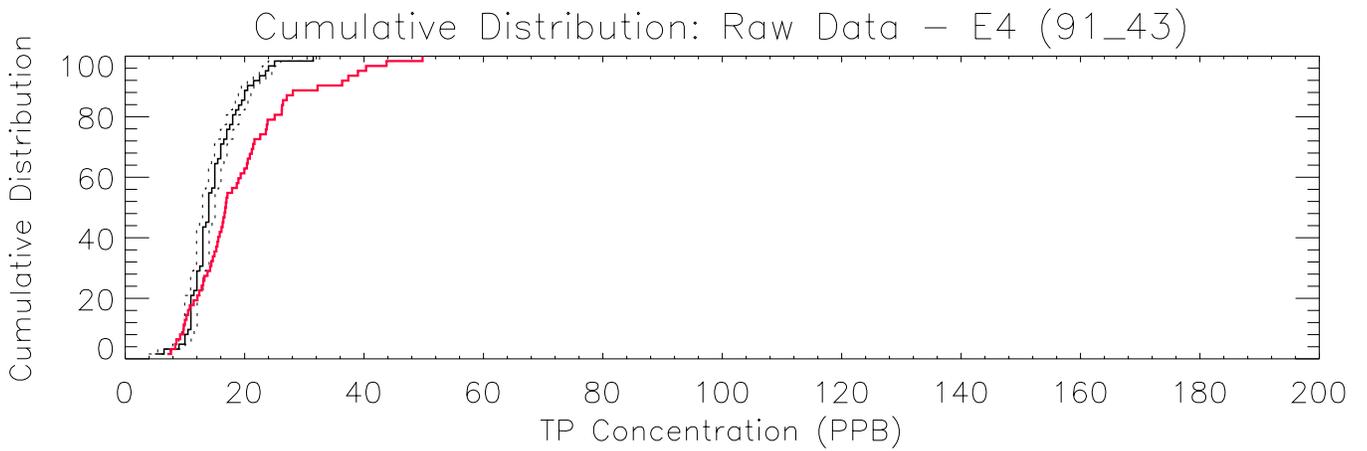
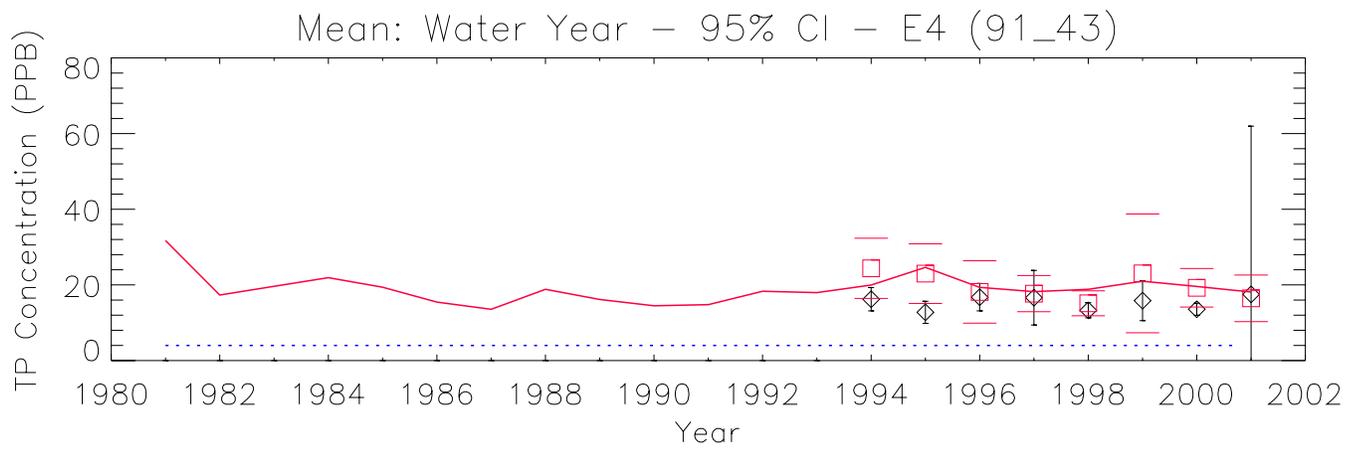
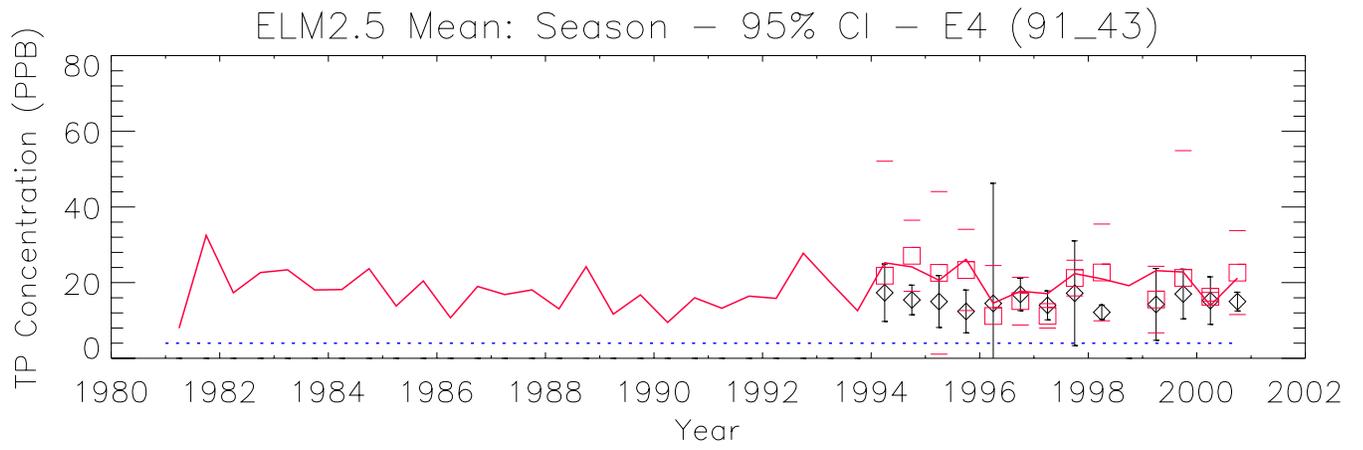


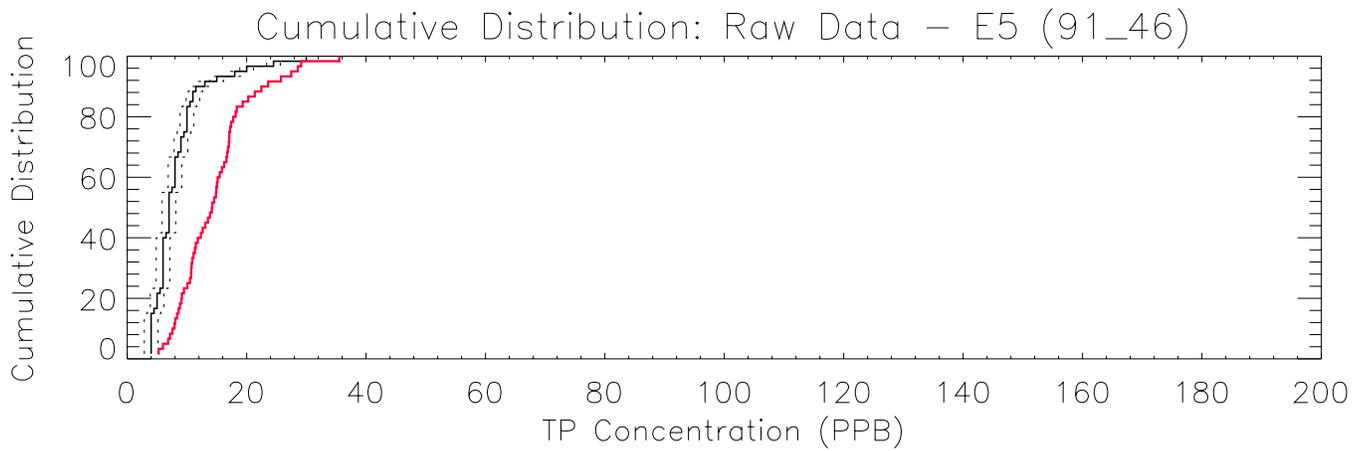
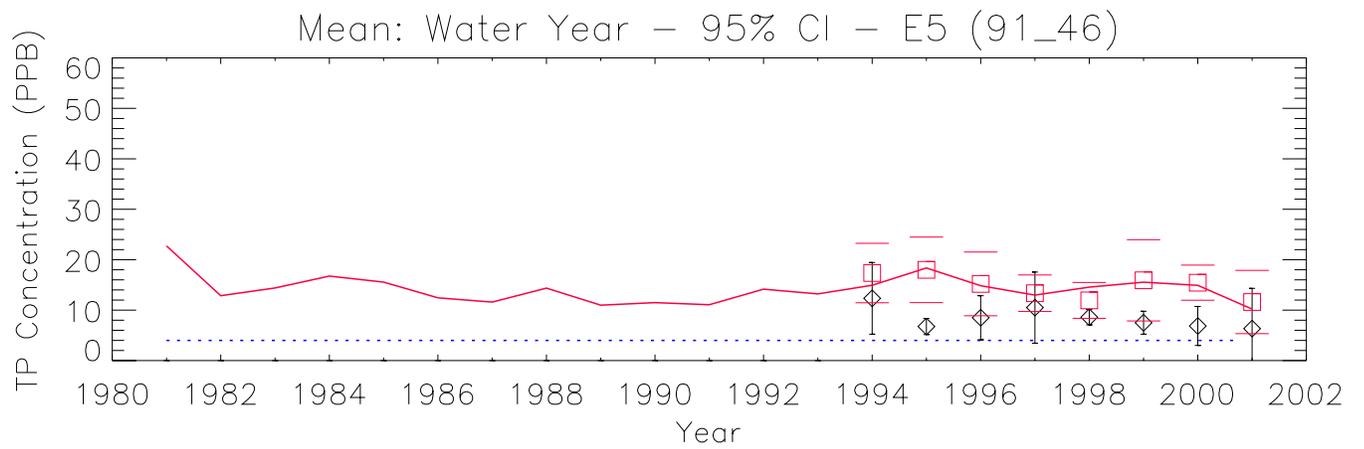
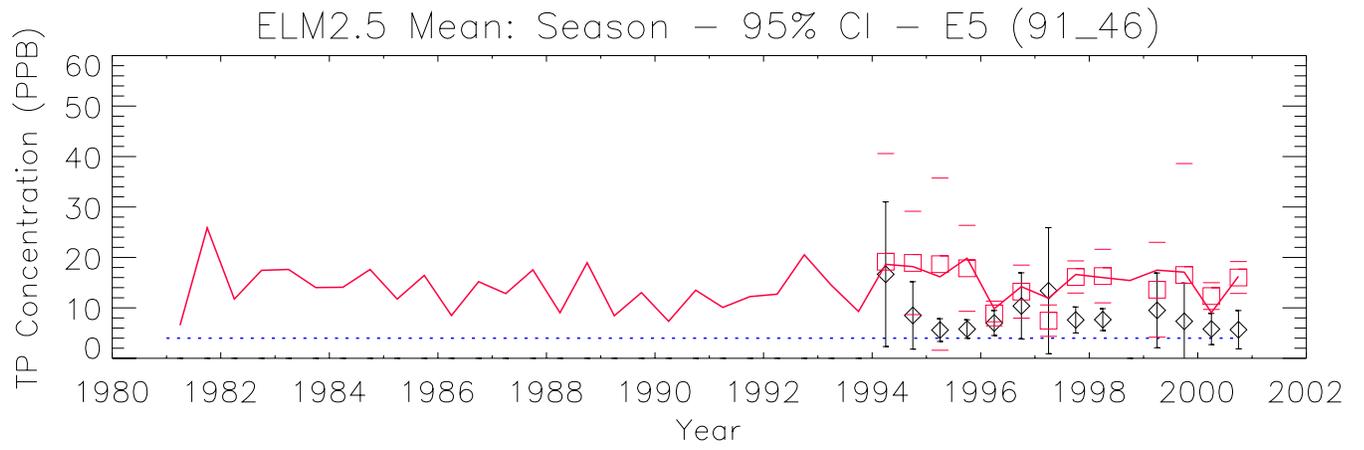




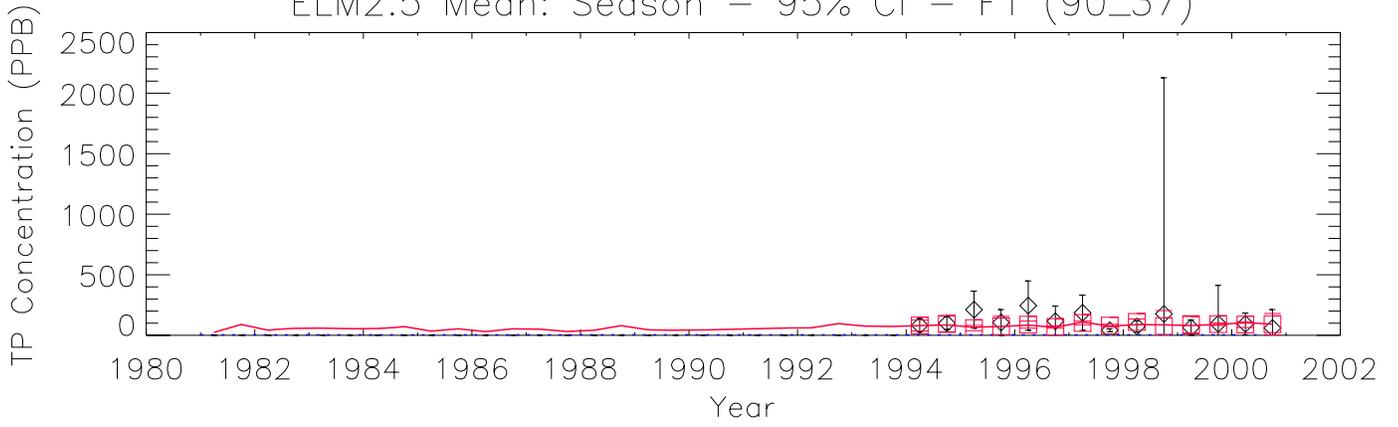




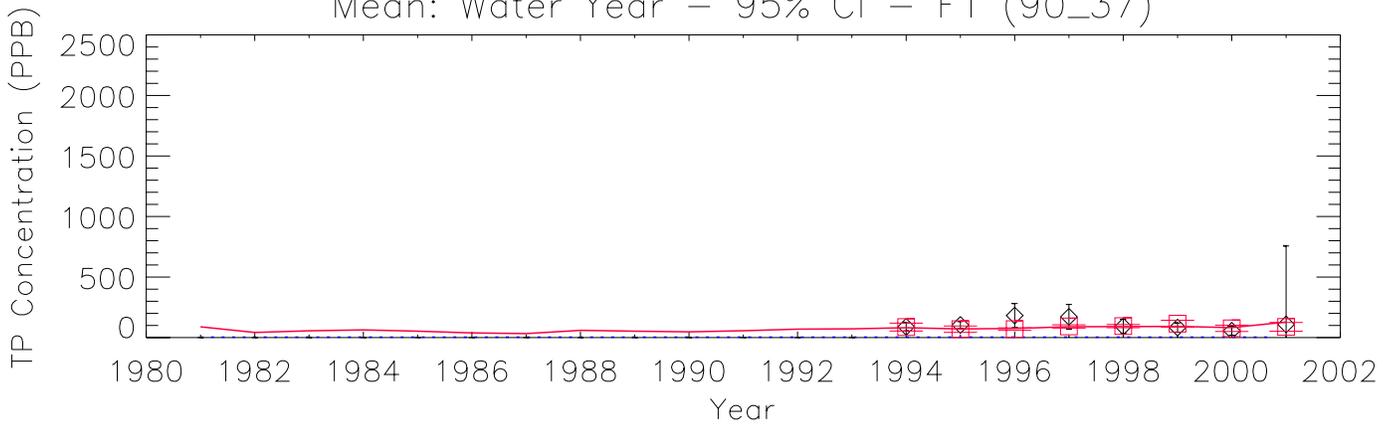




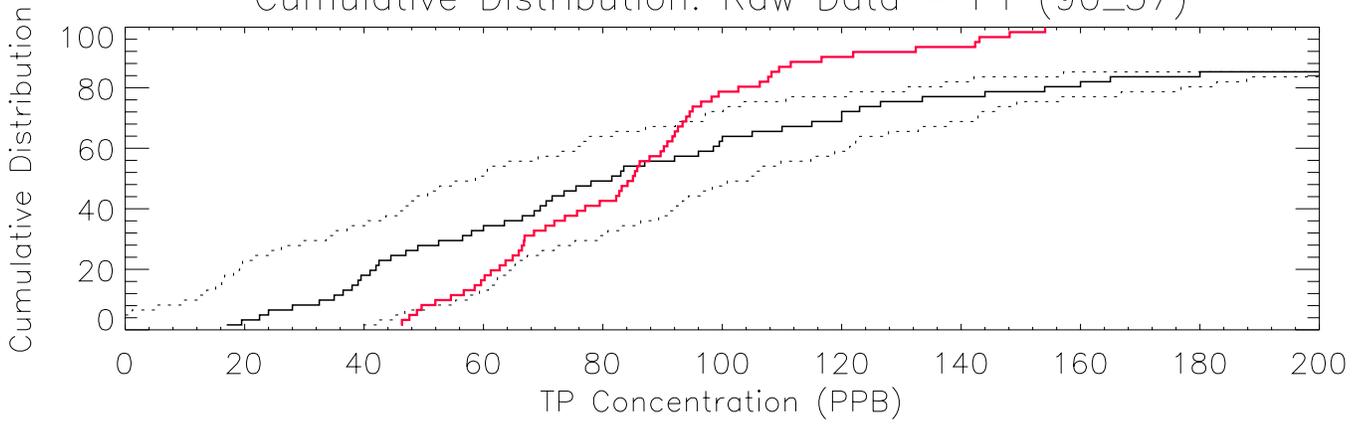
ELM2.5 Mean: Season - 95% CI - F1 (90\_37)

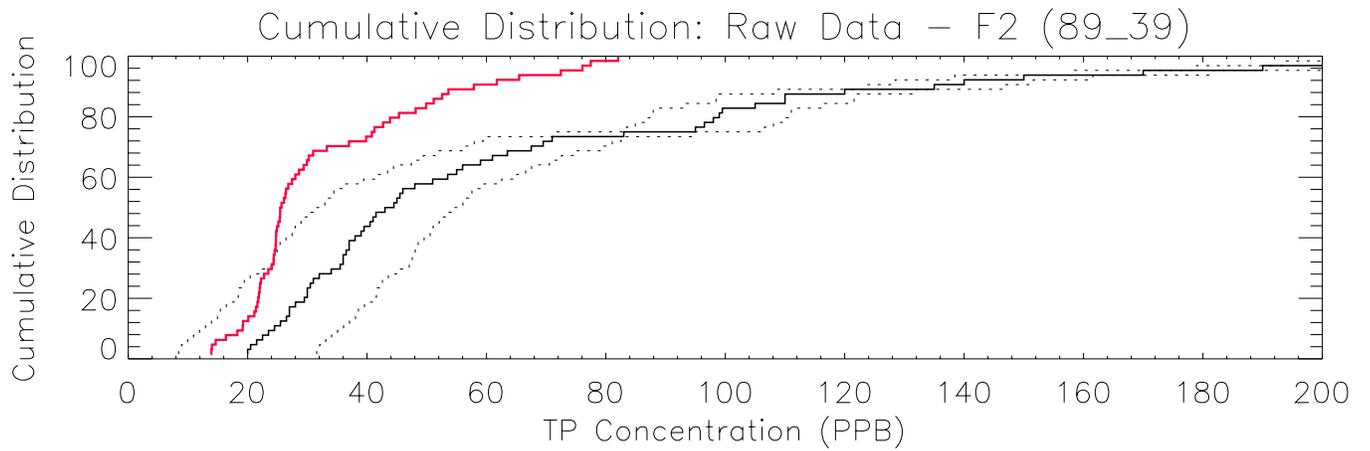
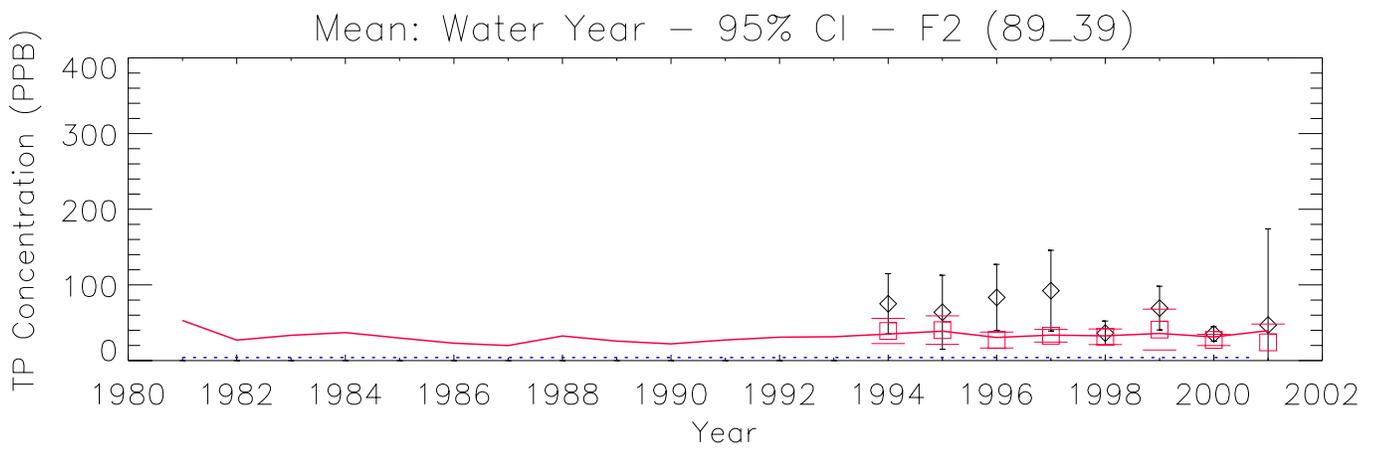
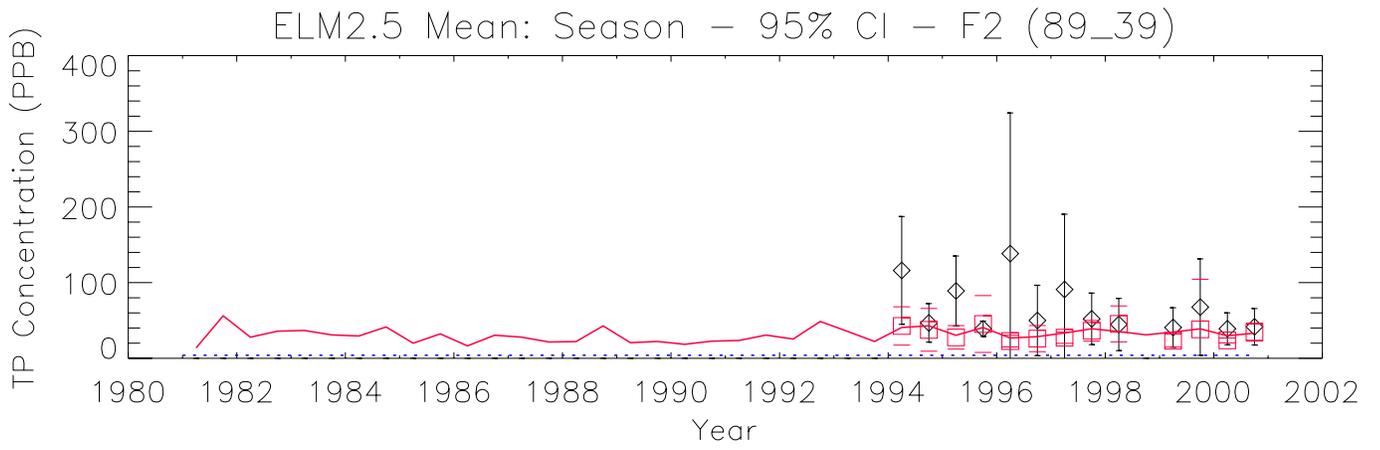


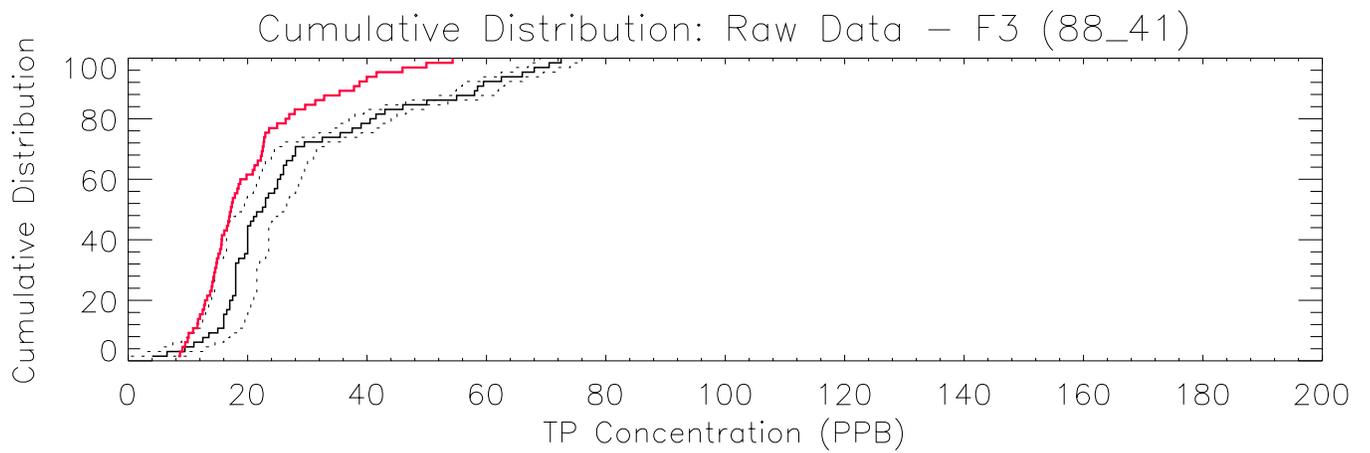
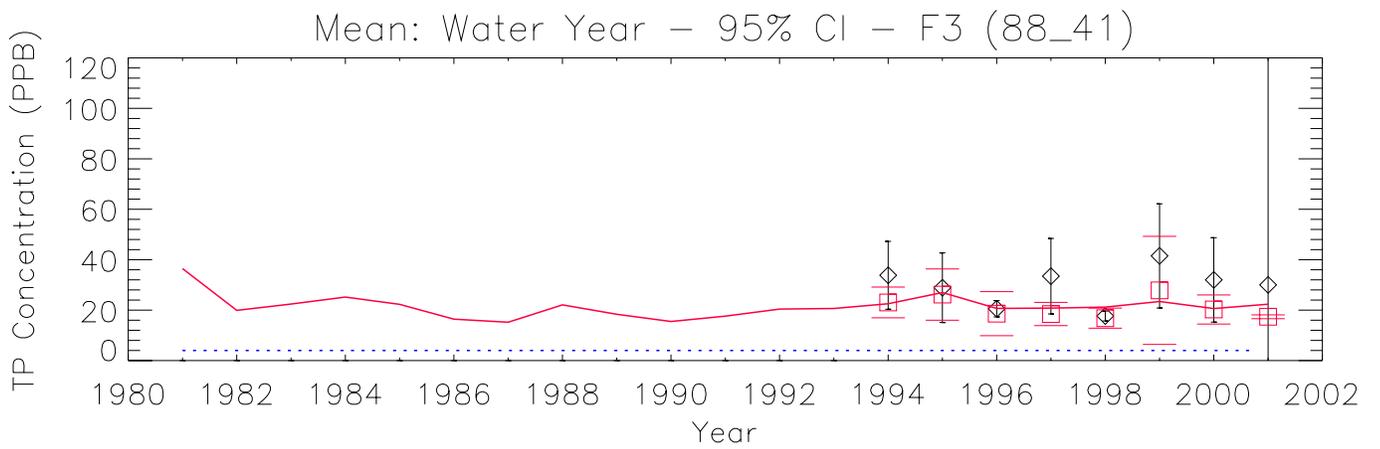
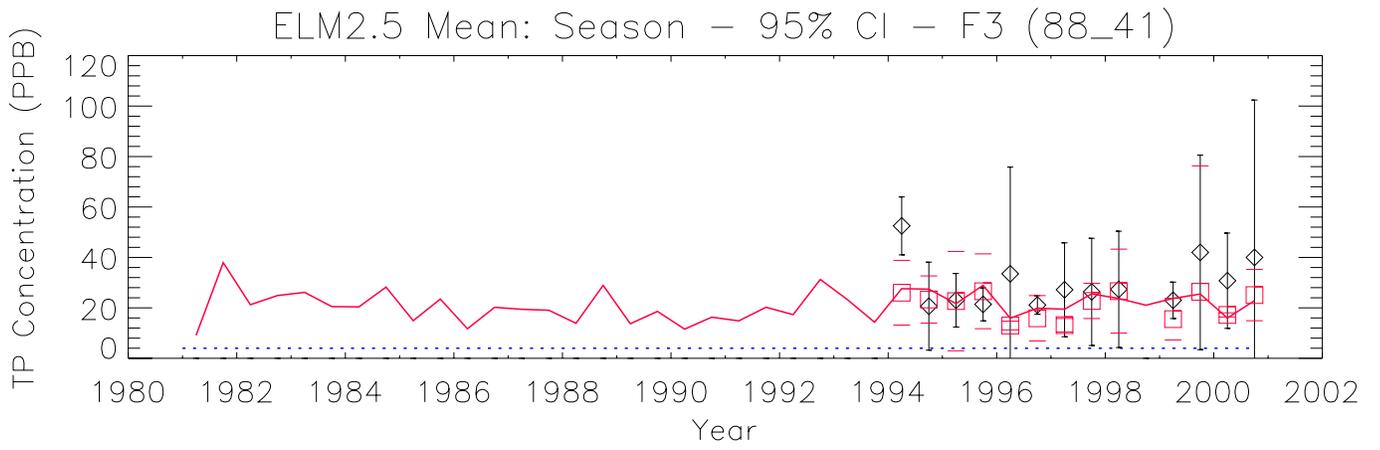
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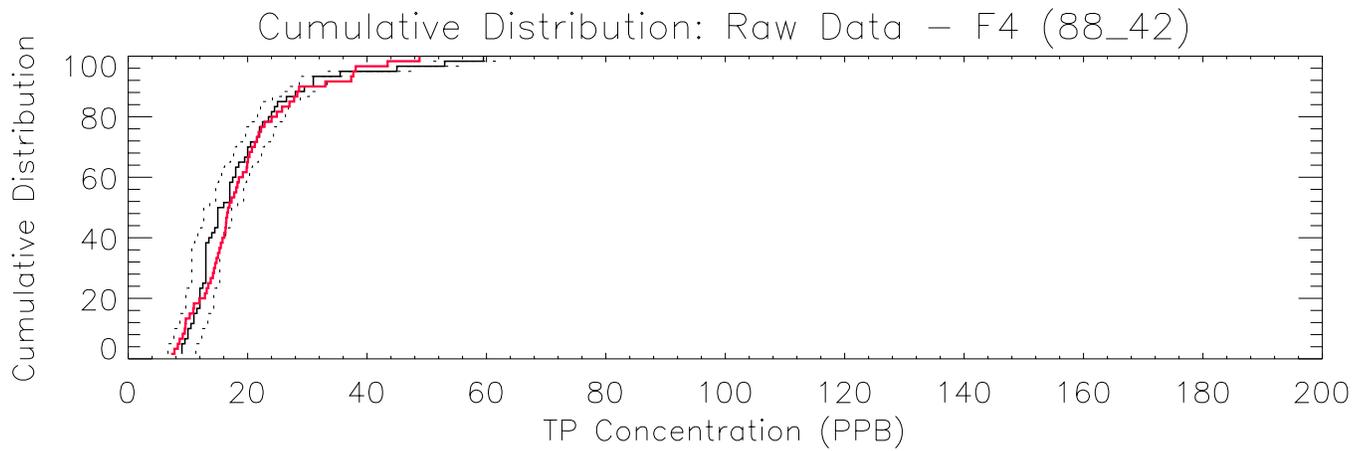
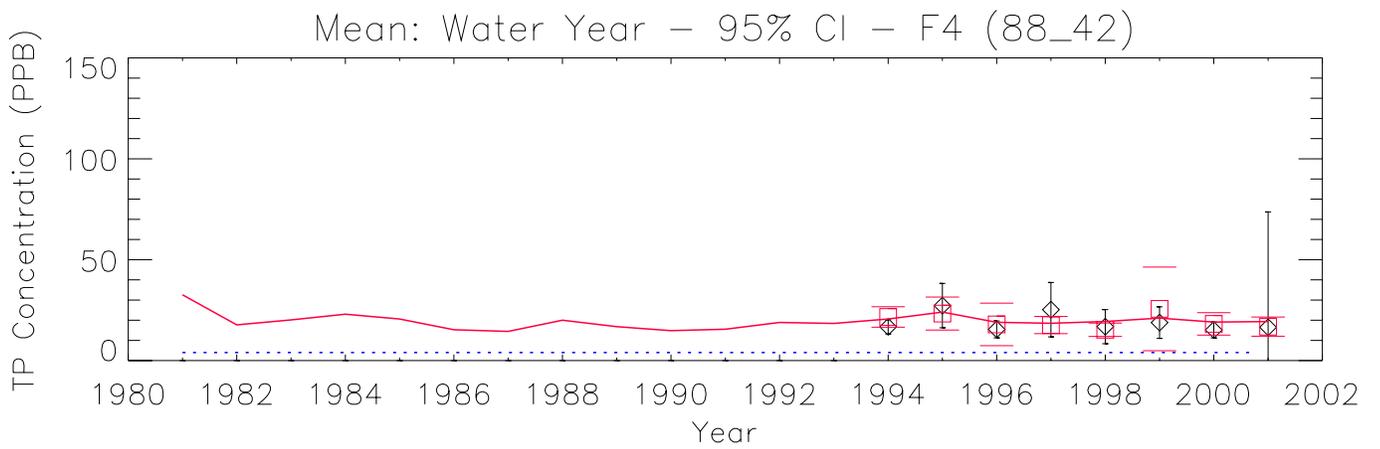
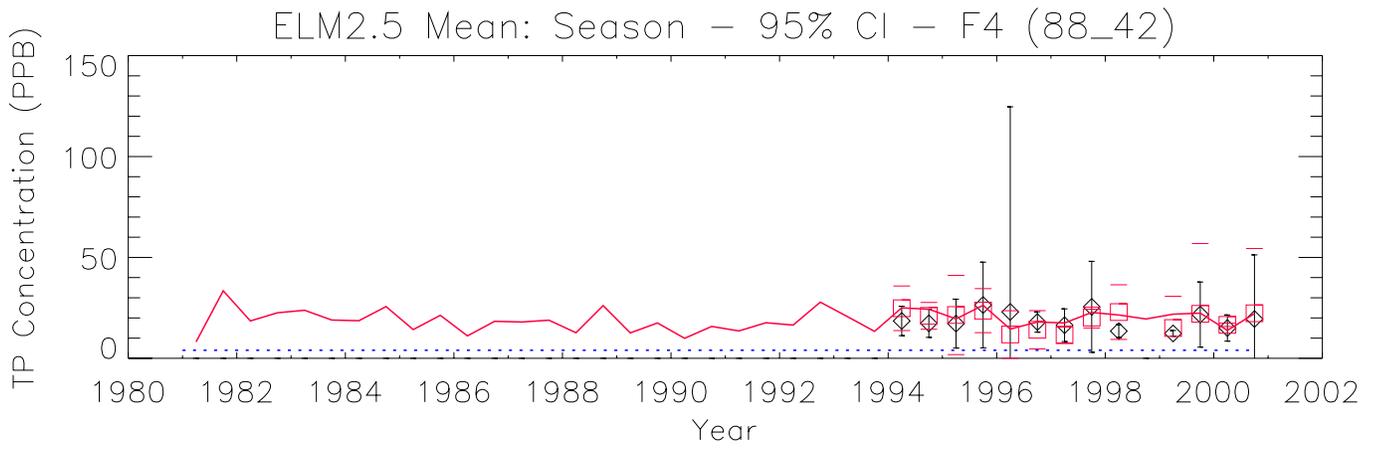


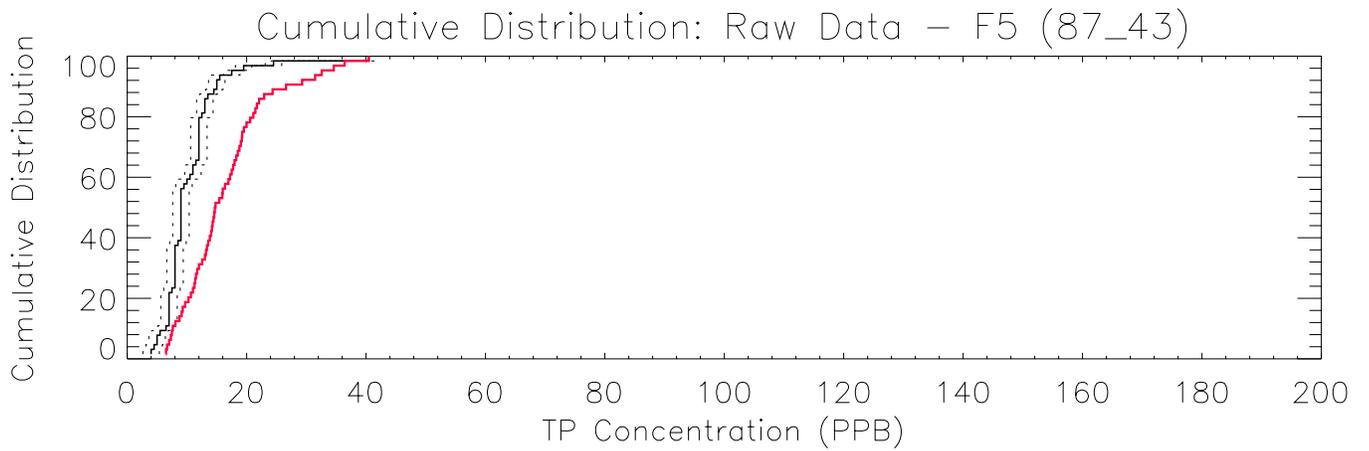
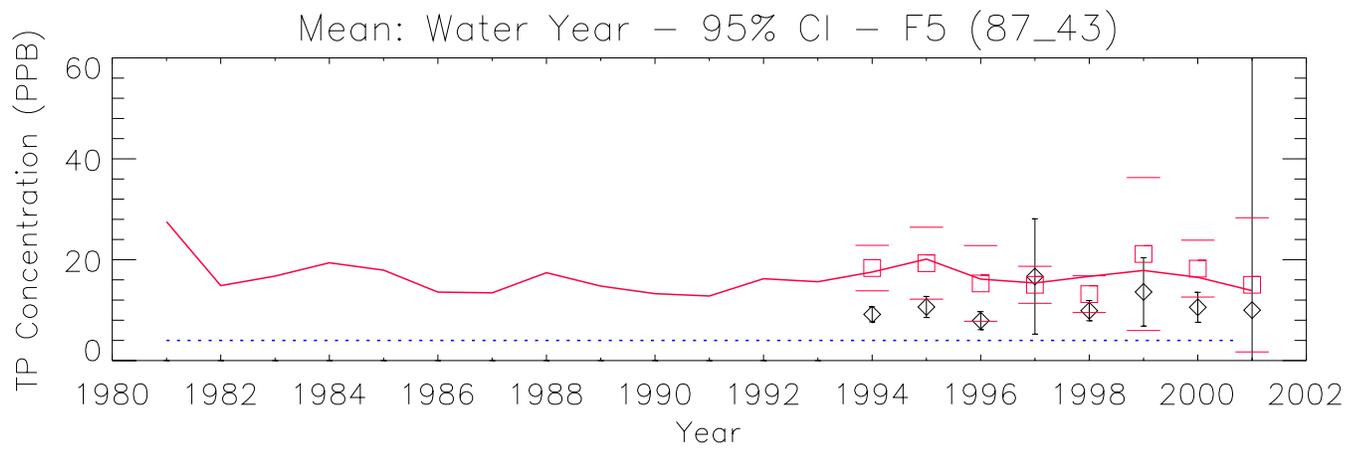
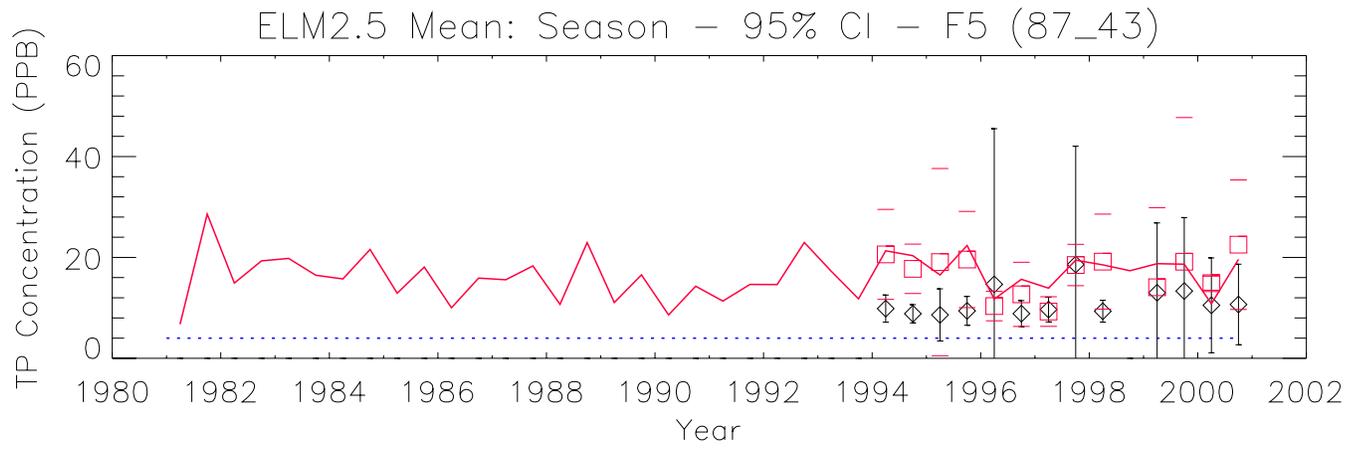
Cumulative Distribution: Raw Data - F1 (90\_37)

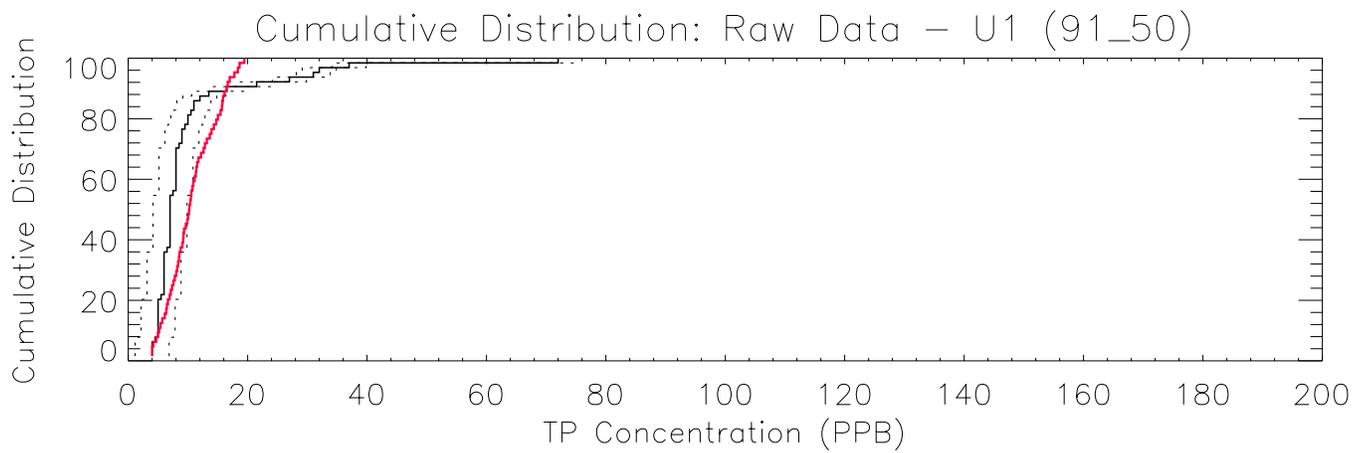
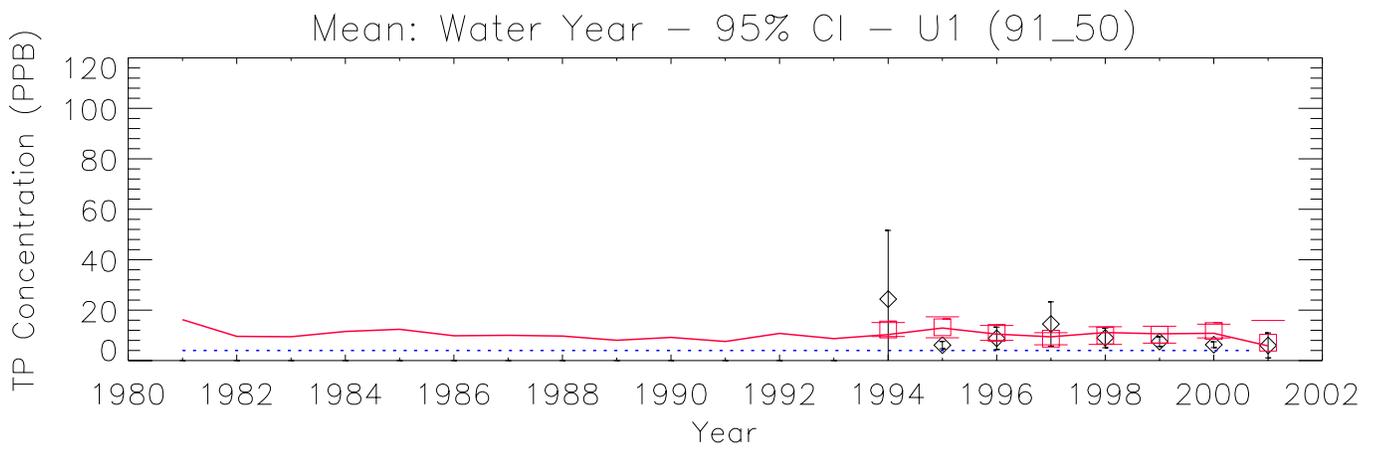
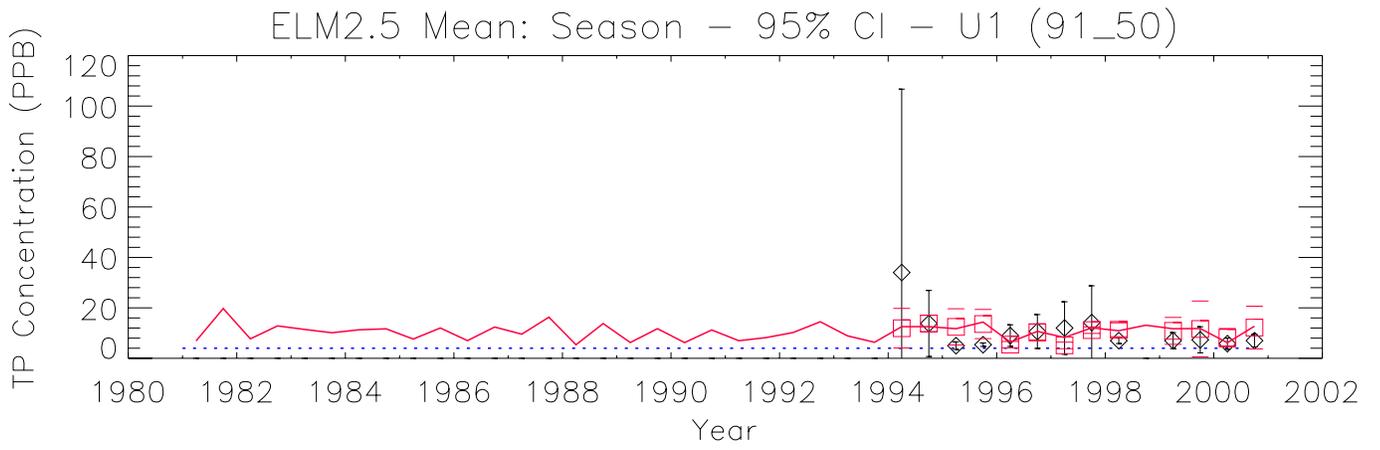


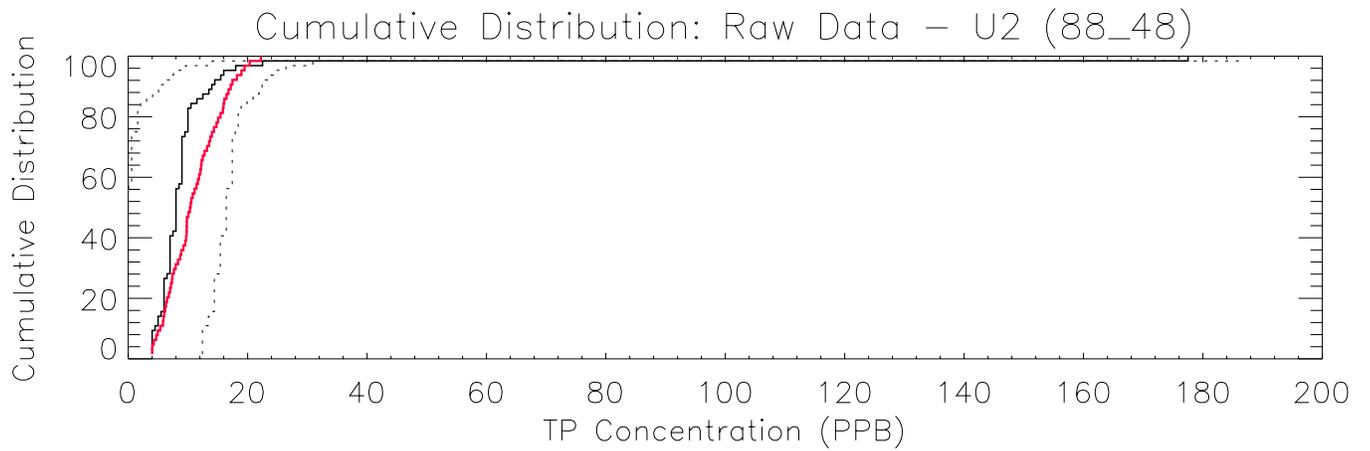
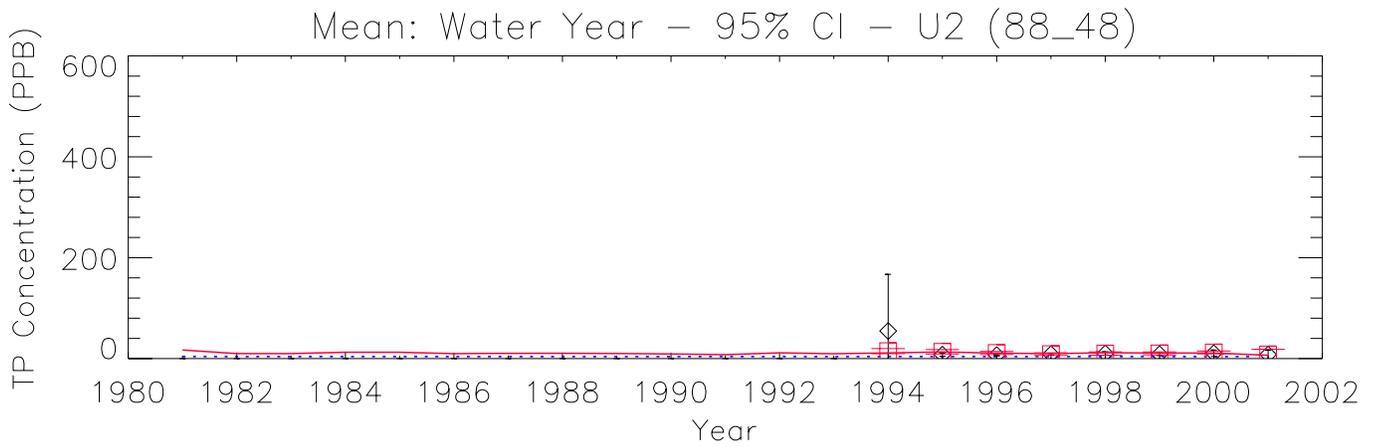
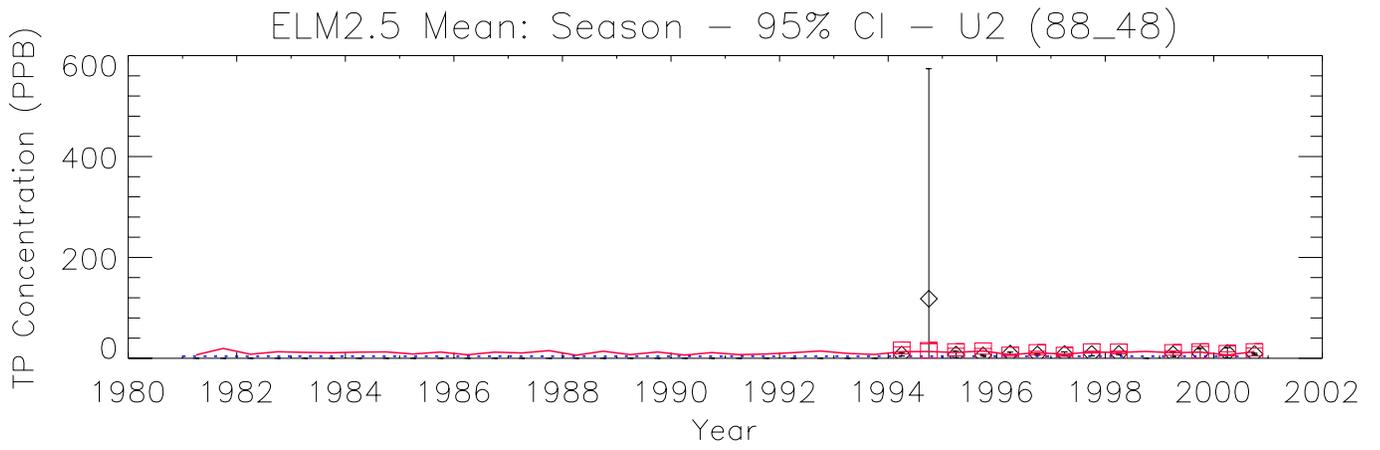


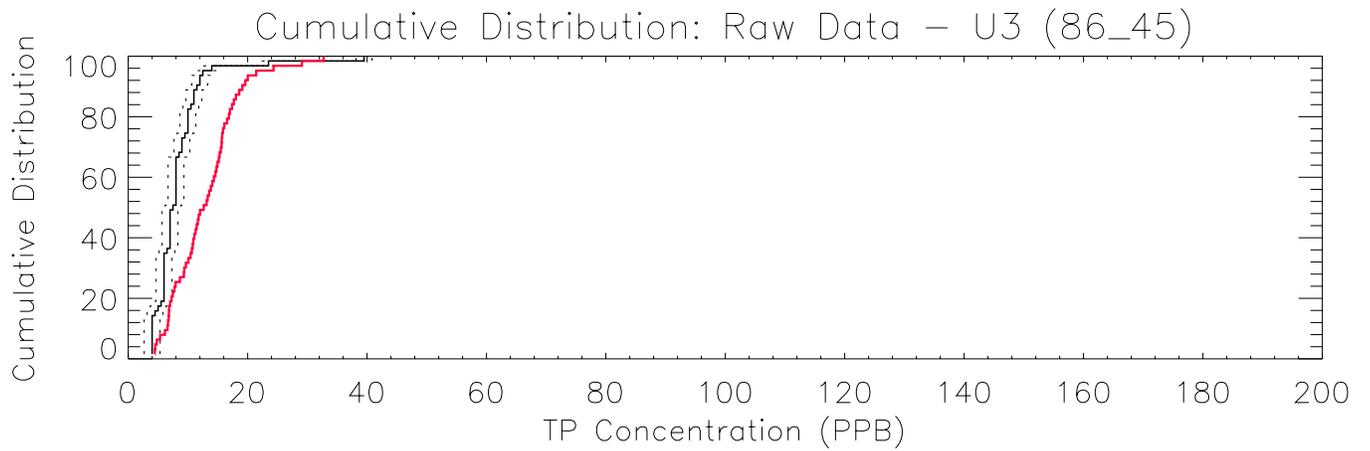
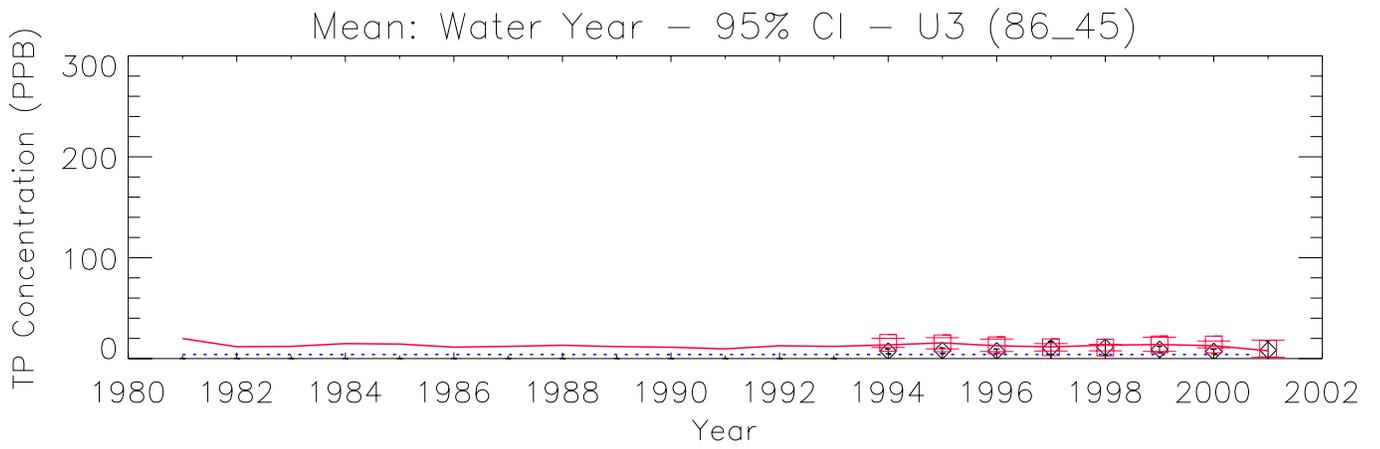
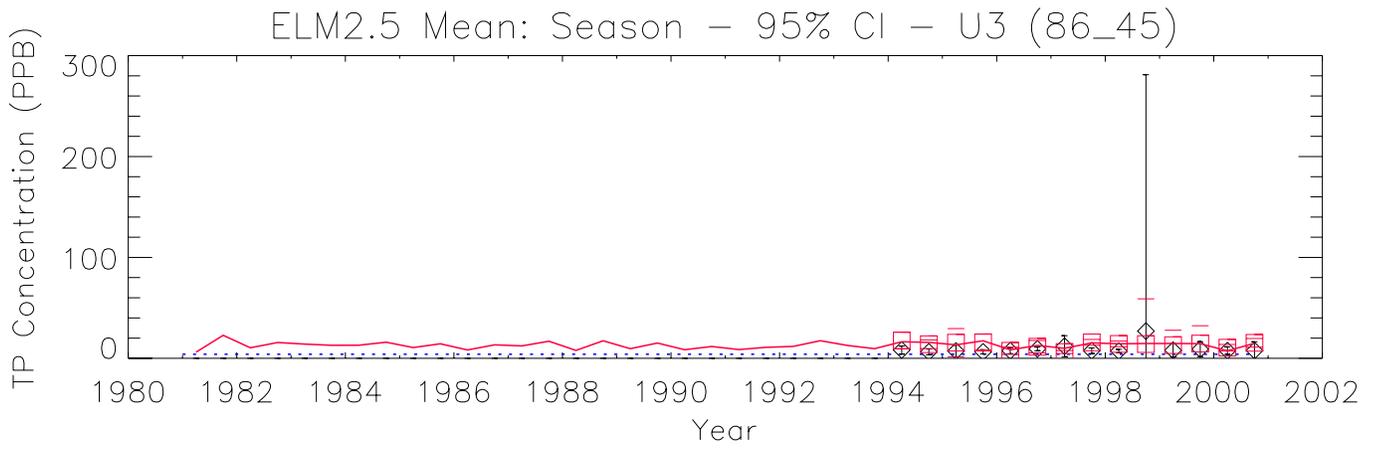


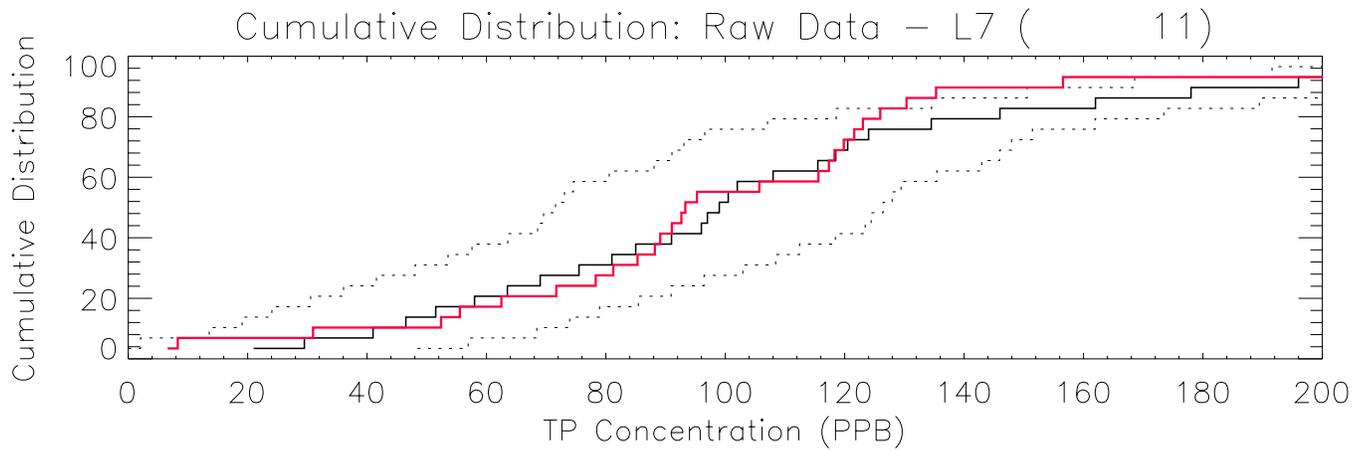
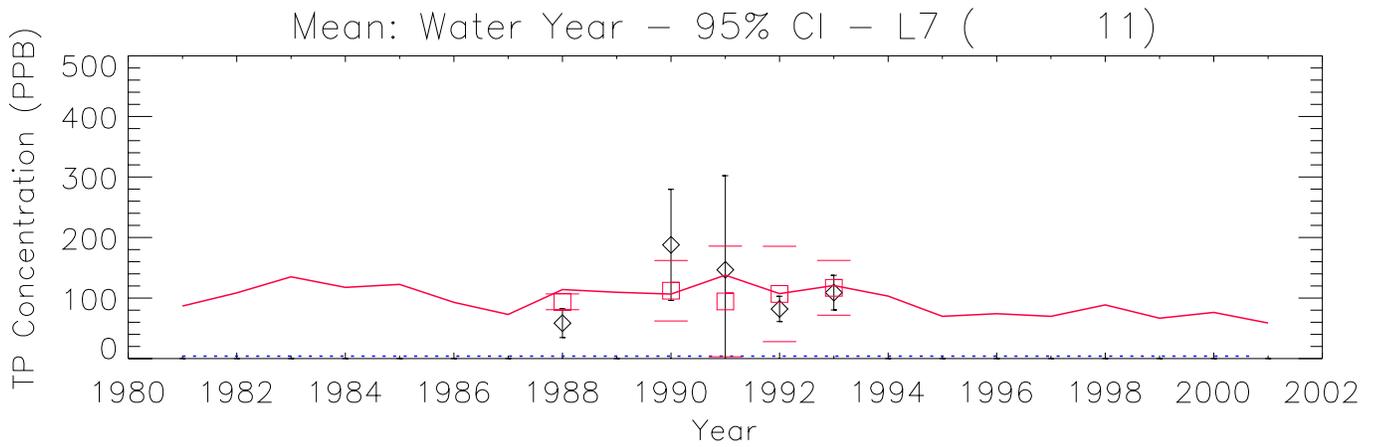
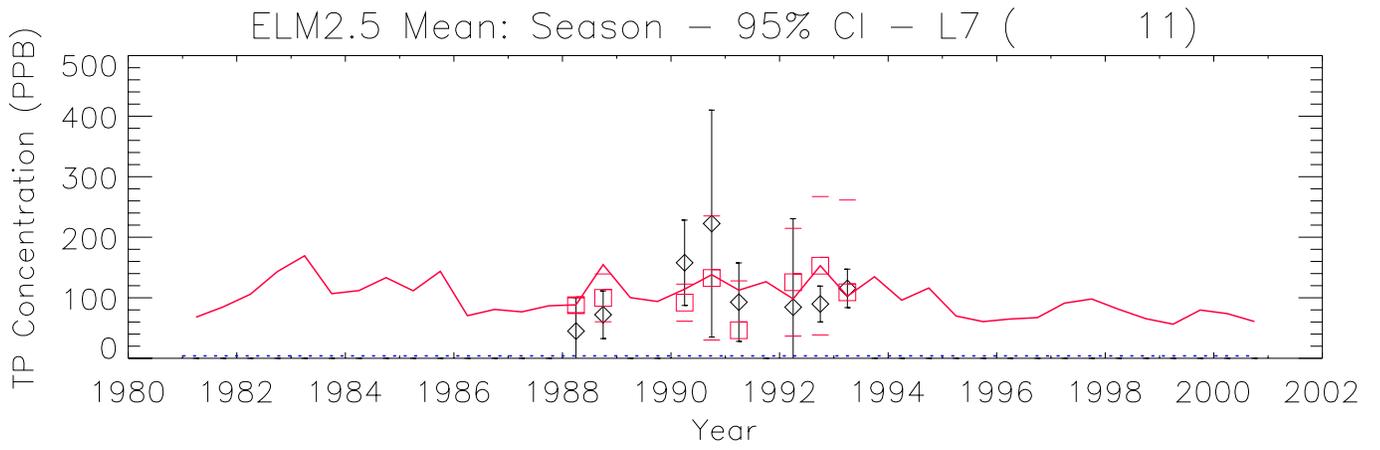


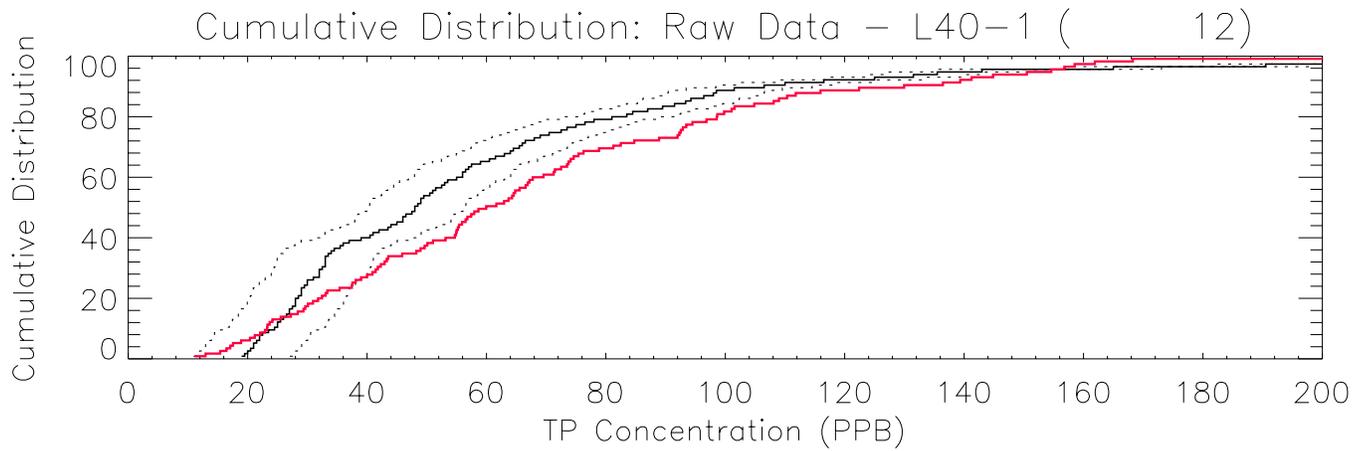
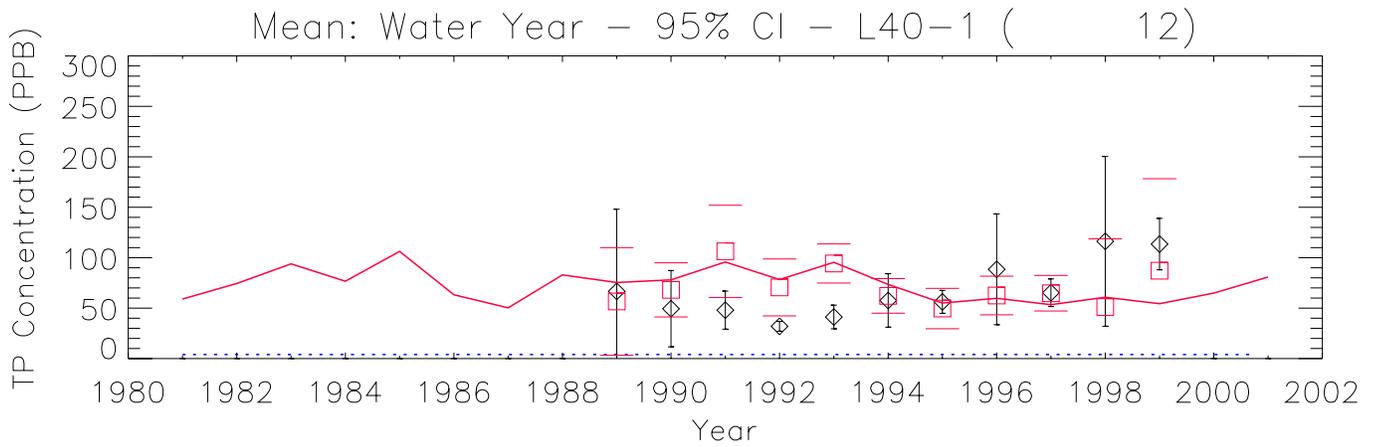
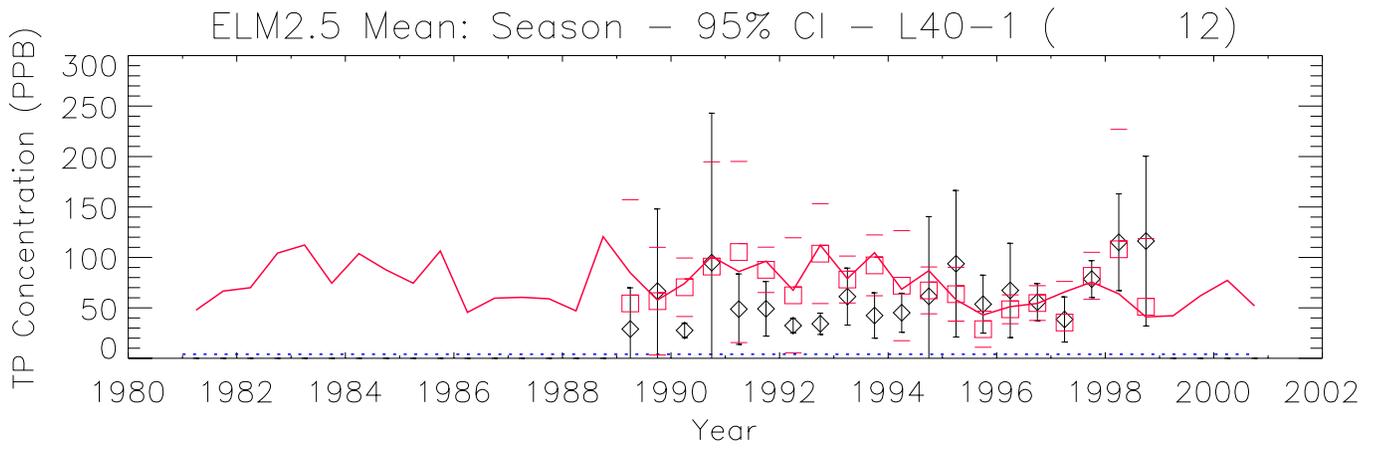


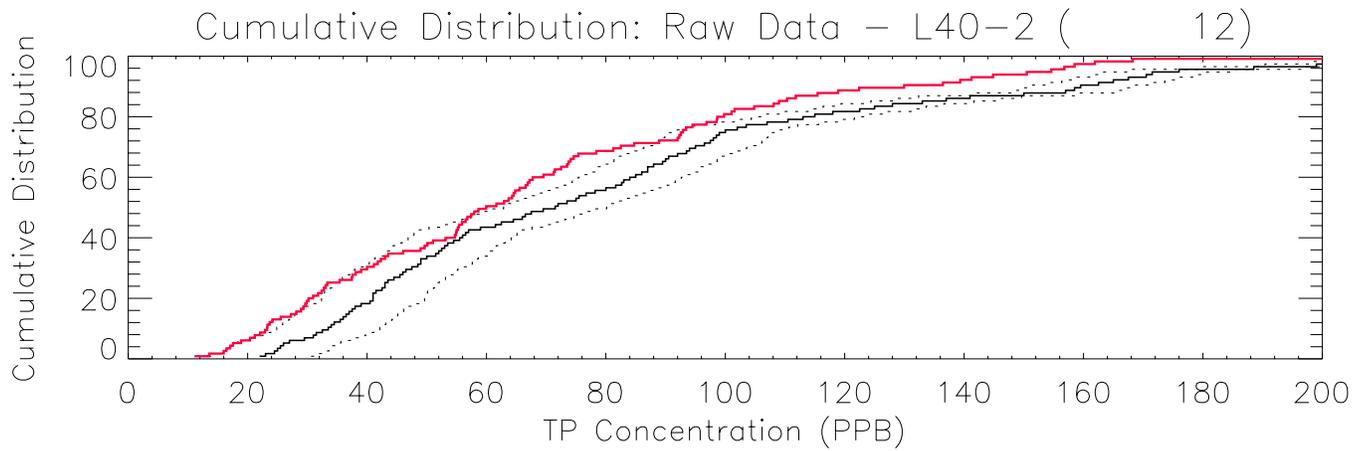
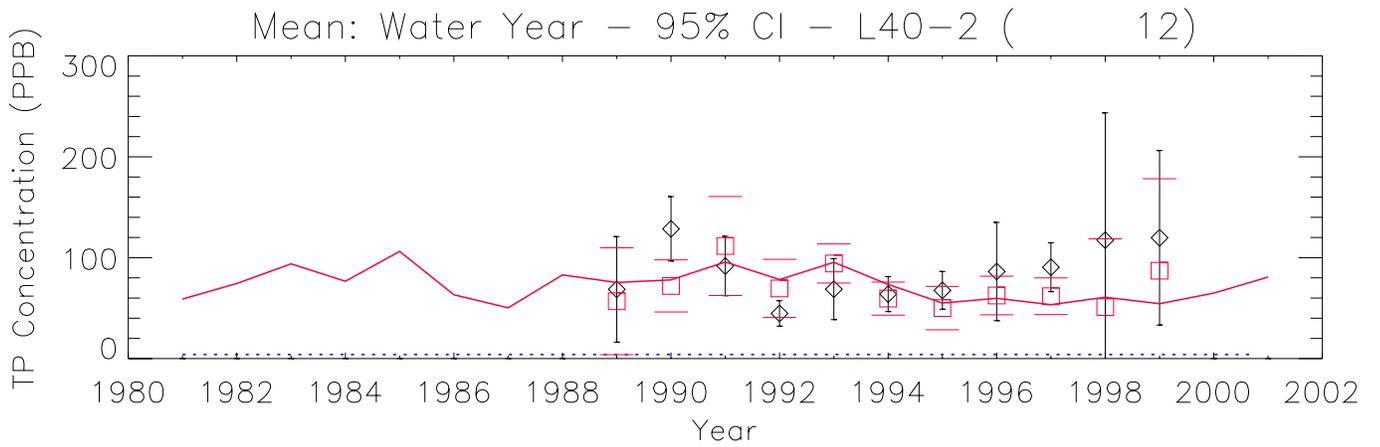
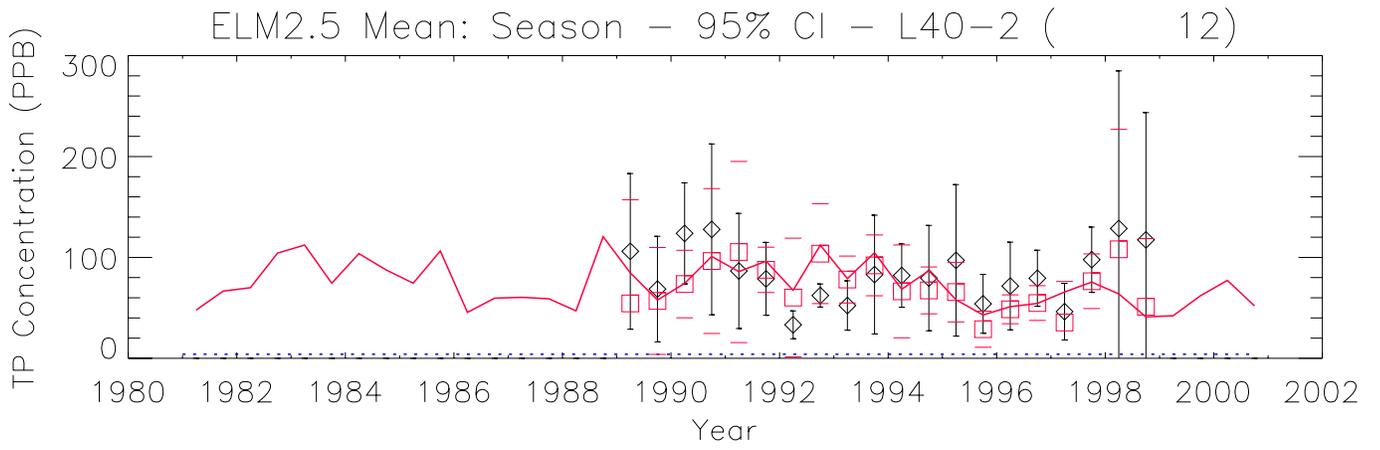


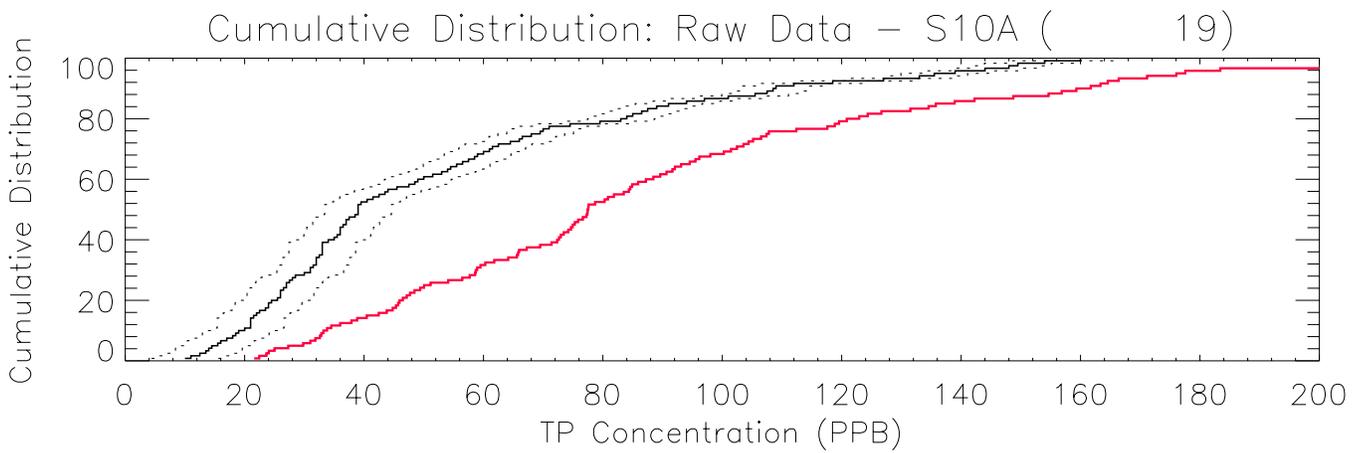
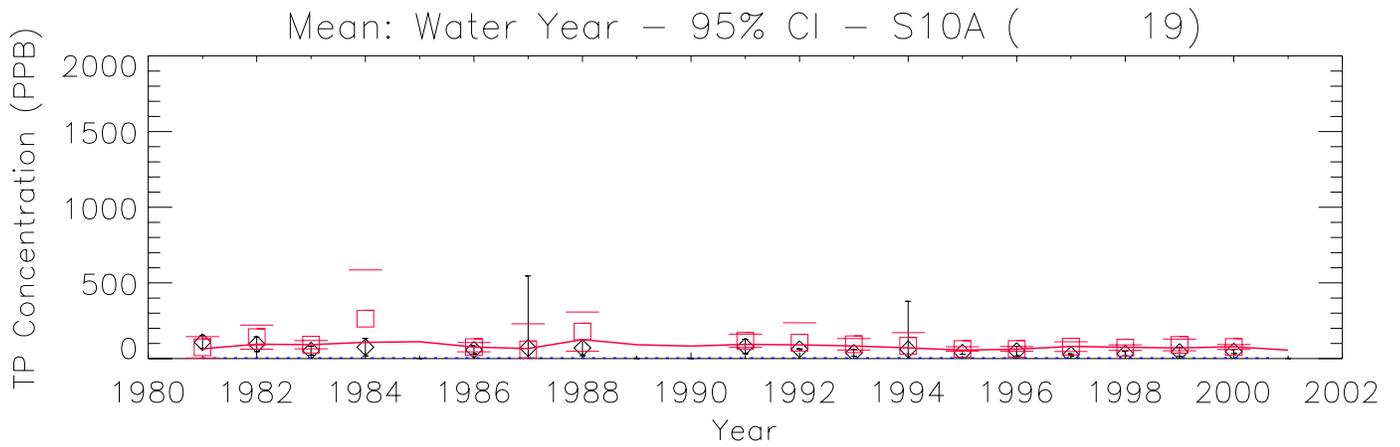
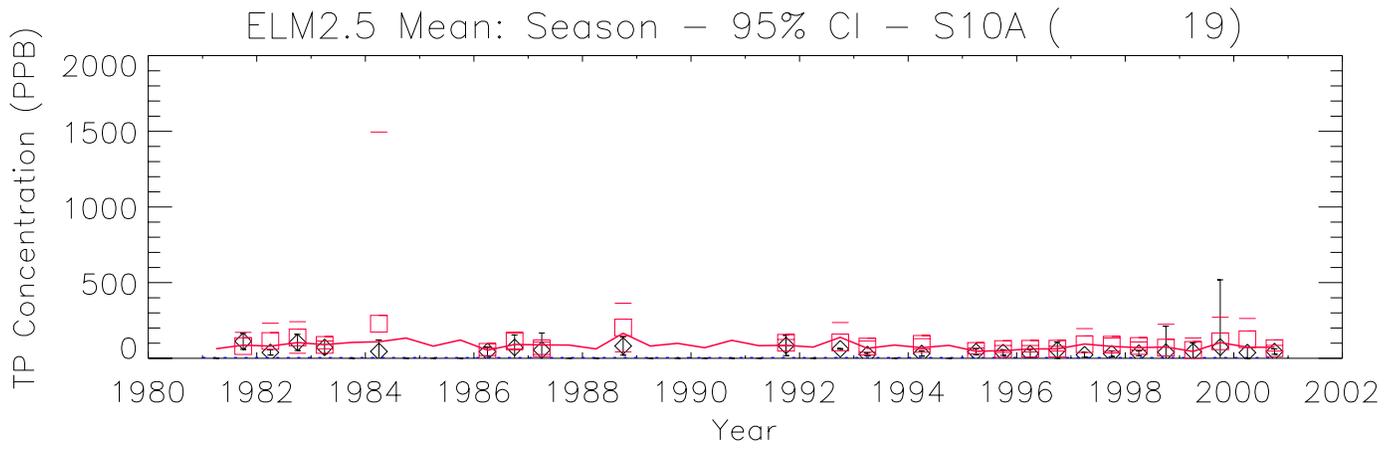


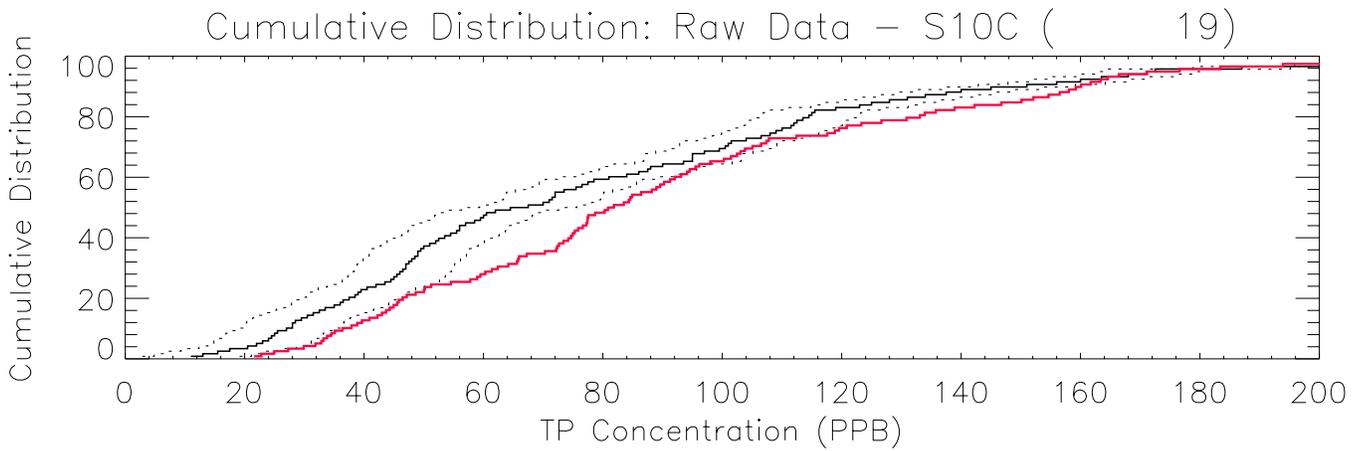
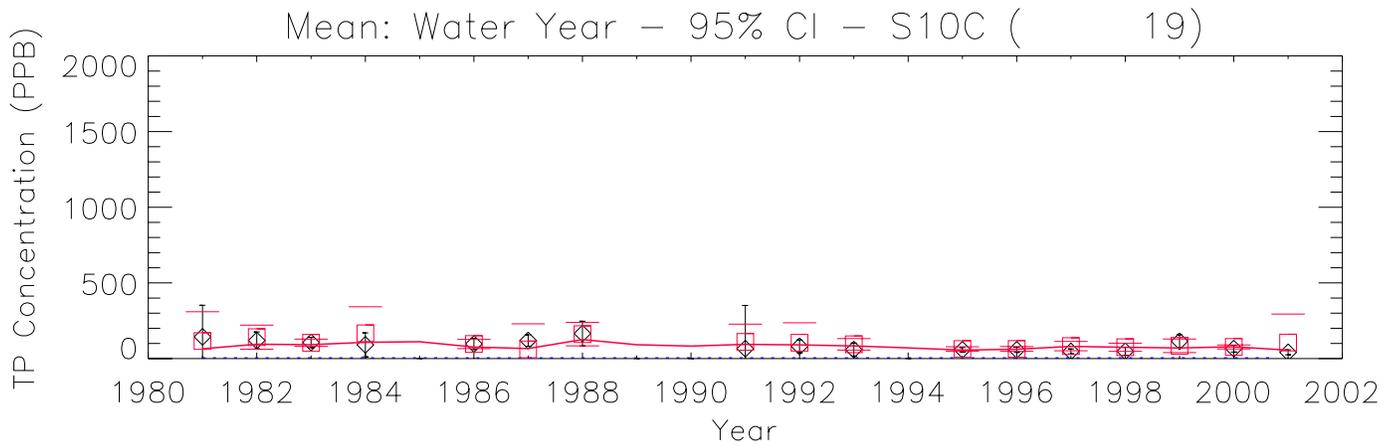
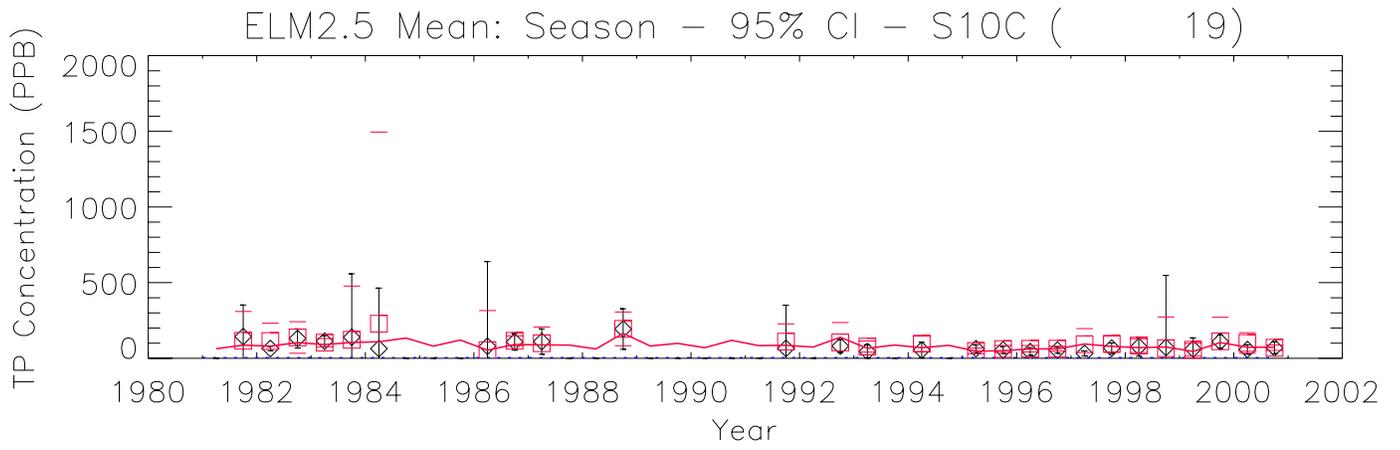


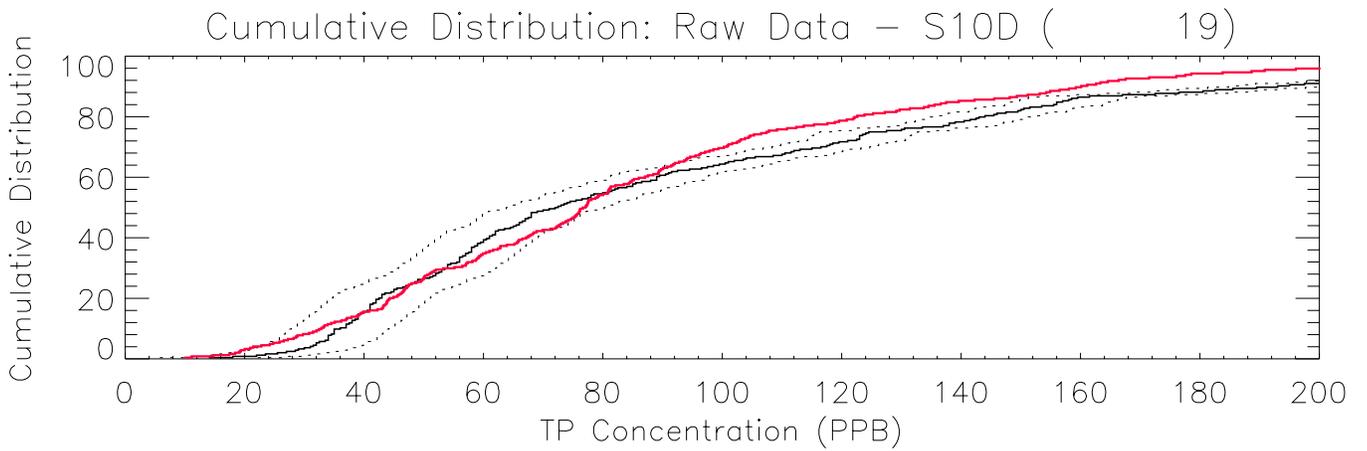
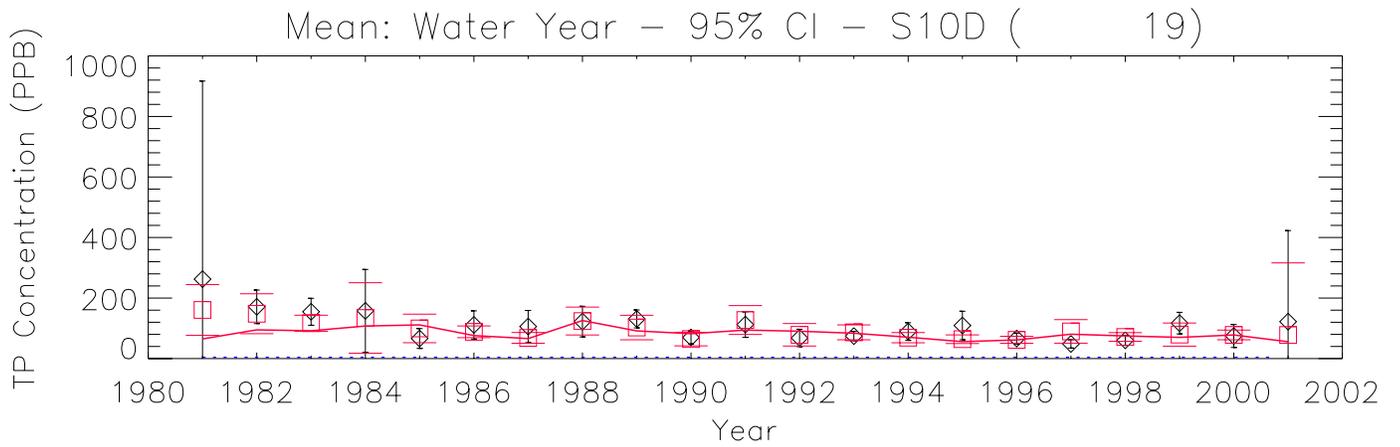
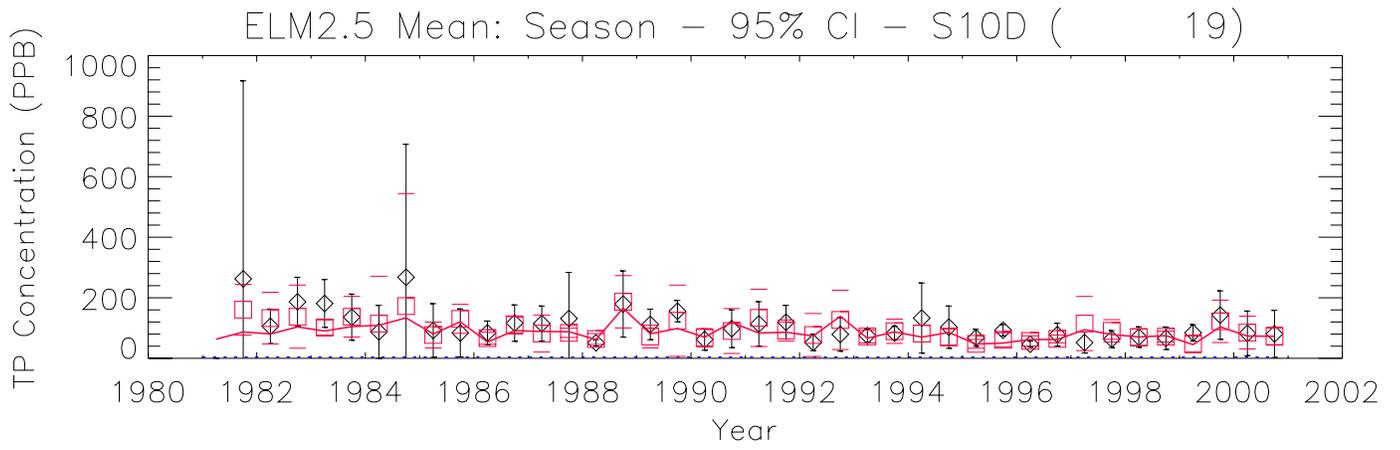


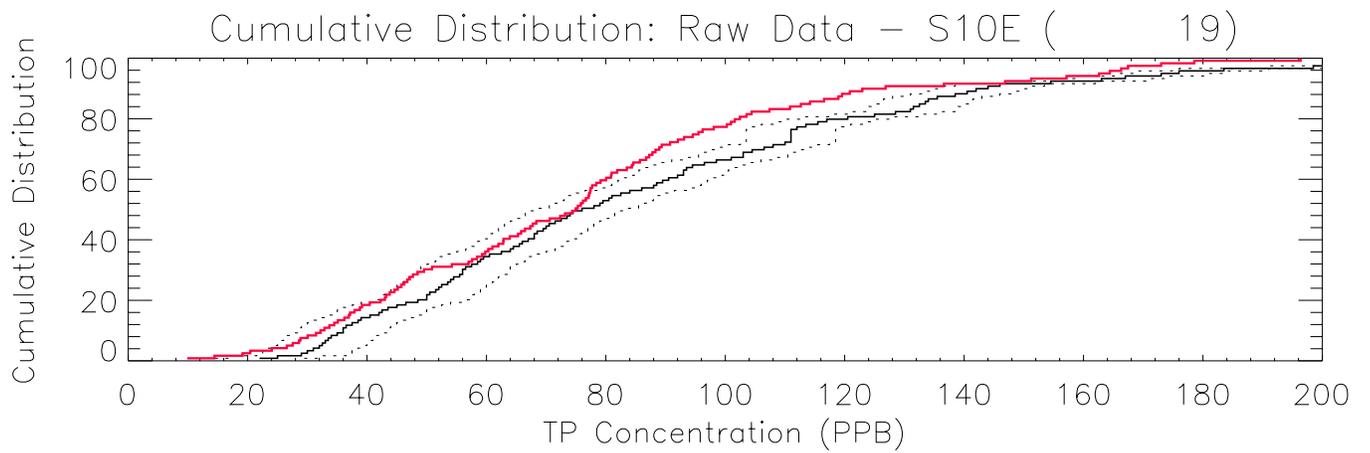
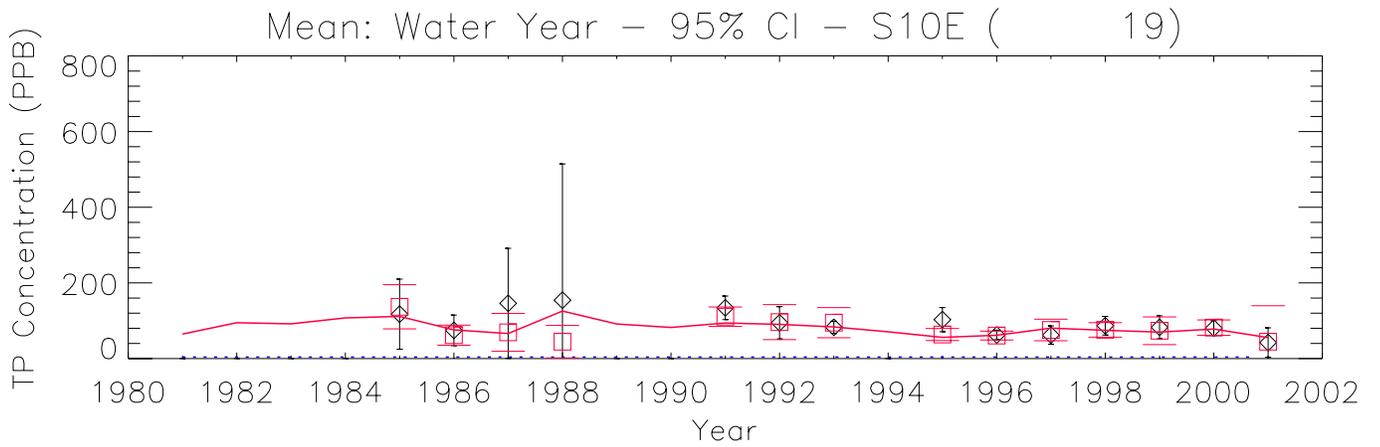
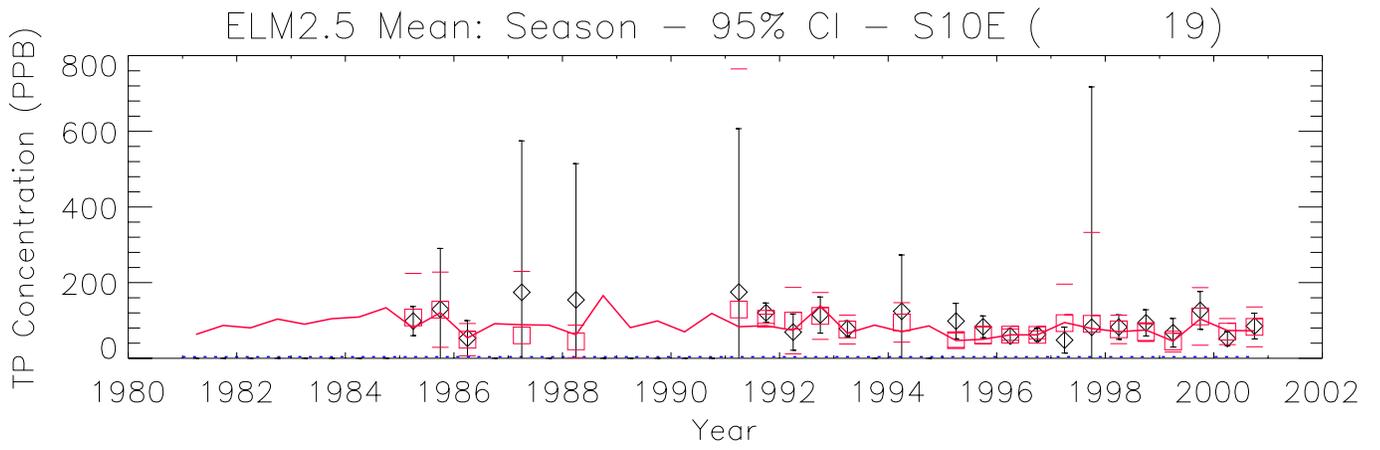


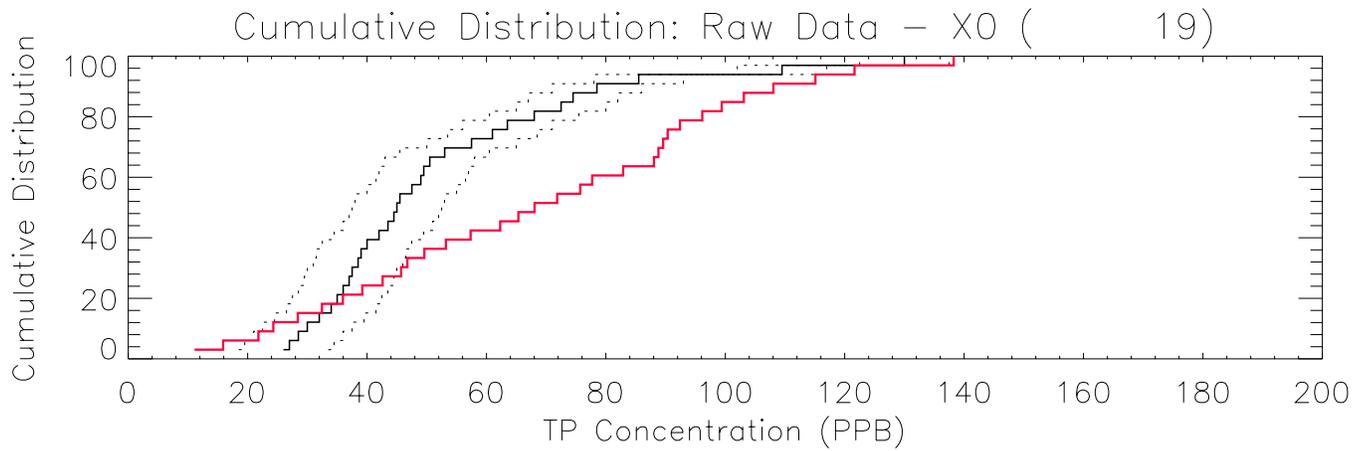
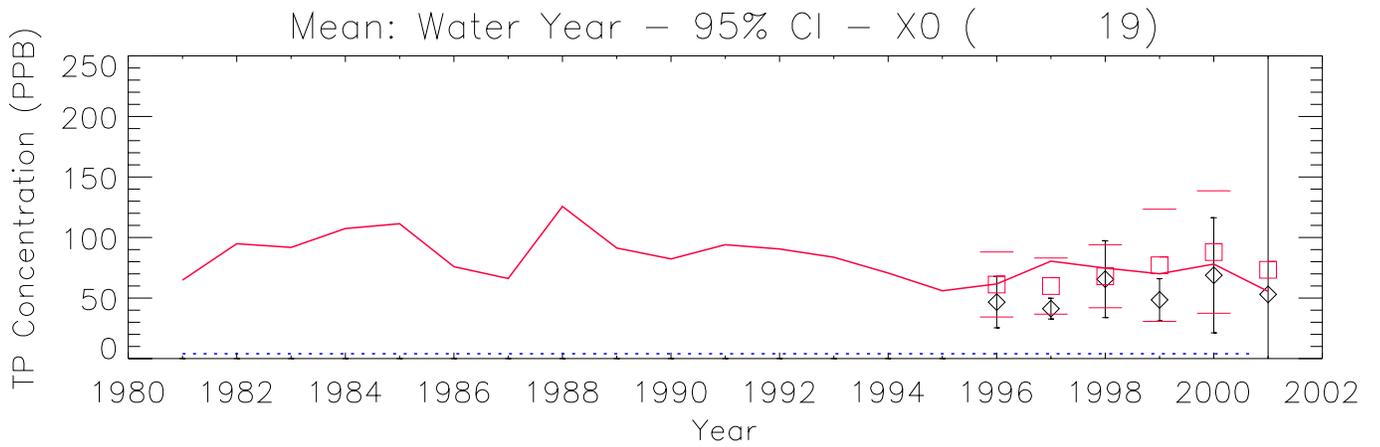
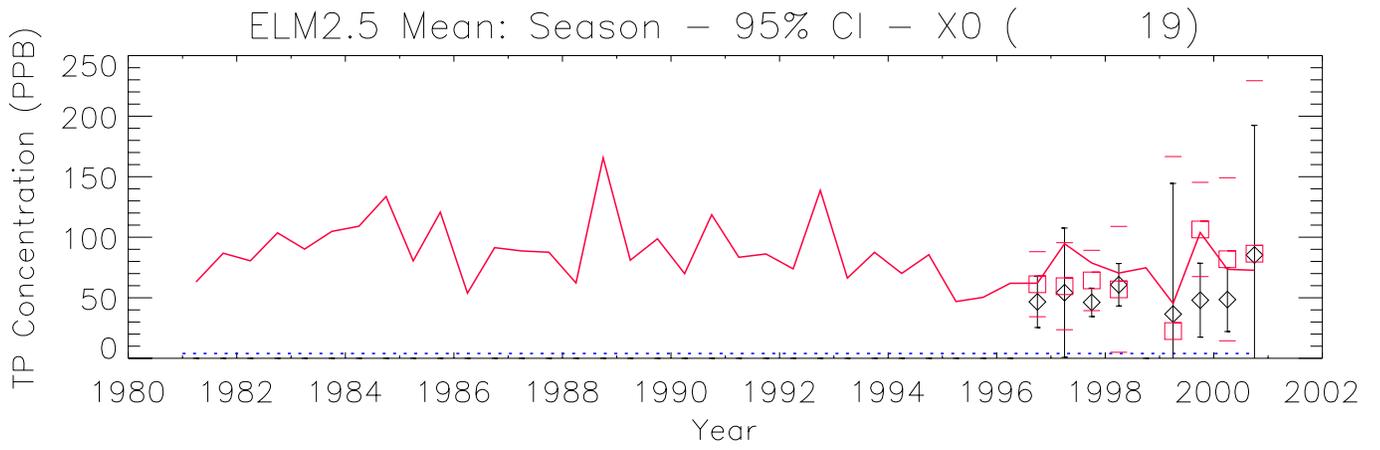


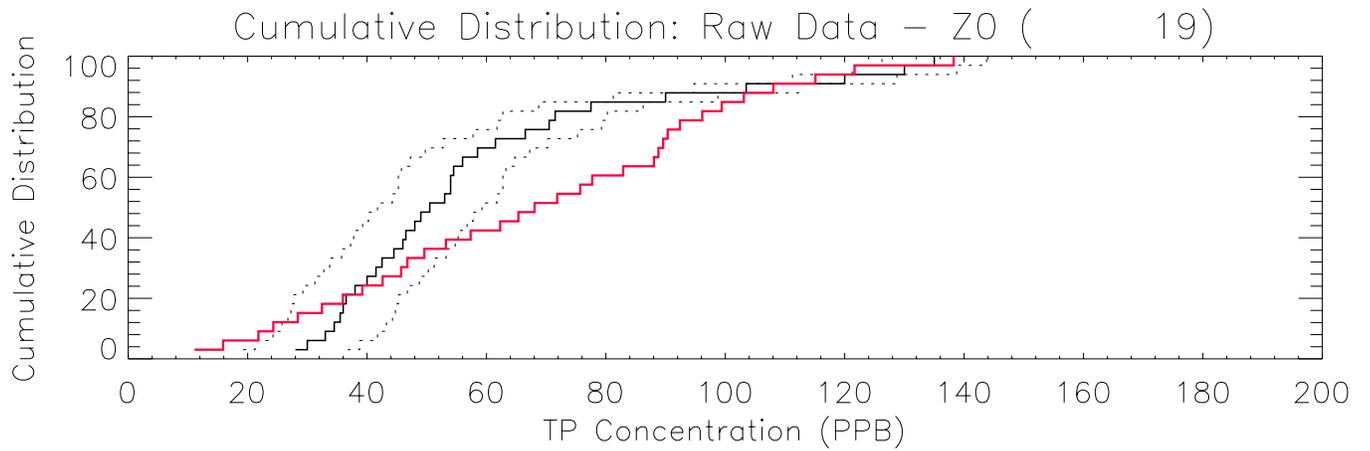
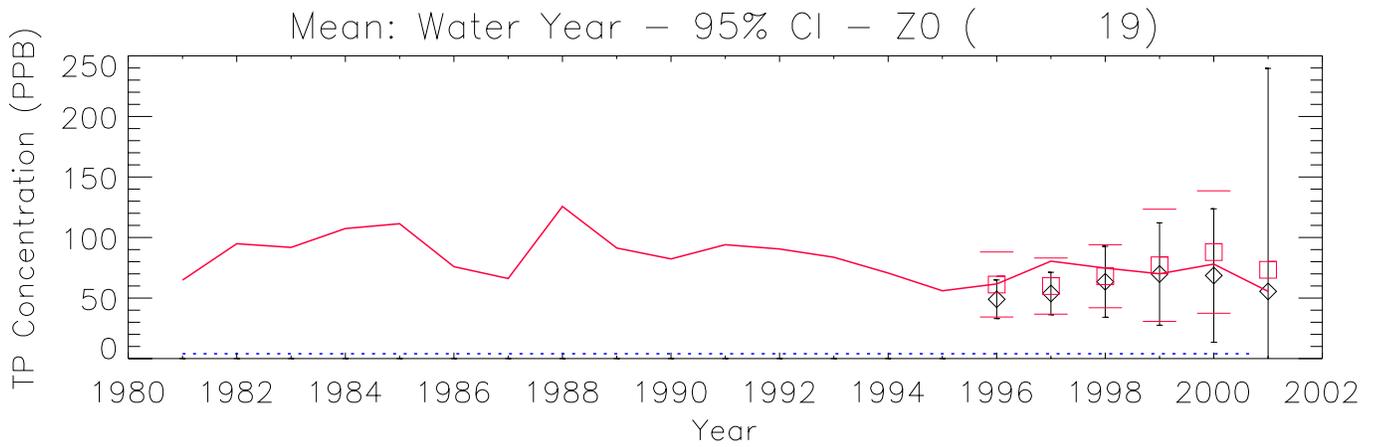
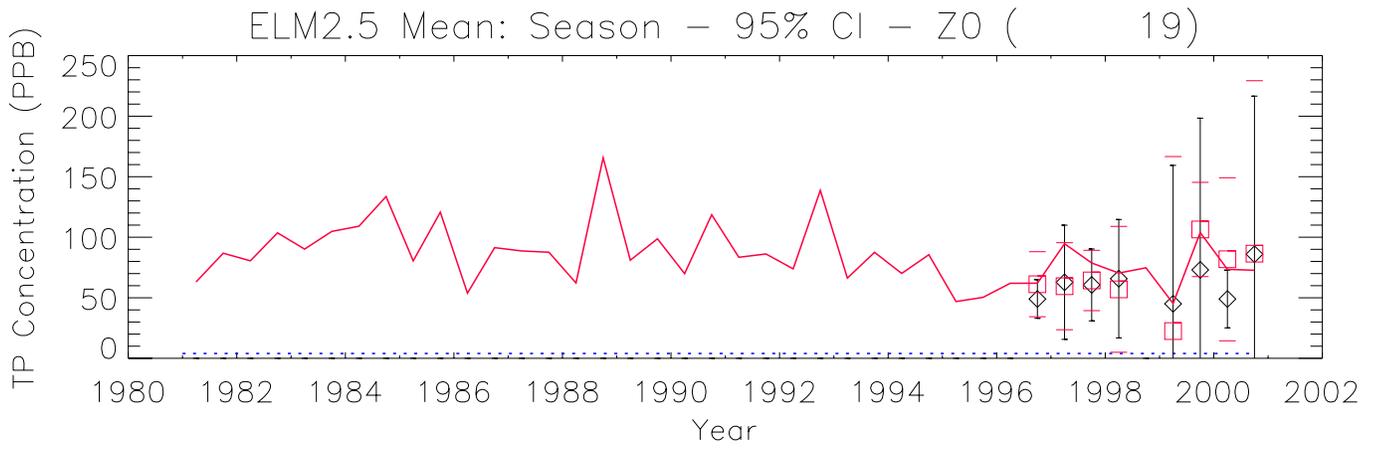


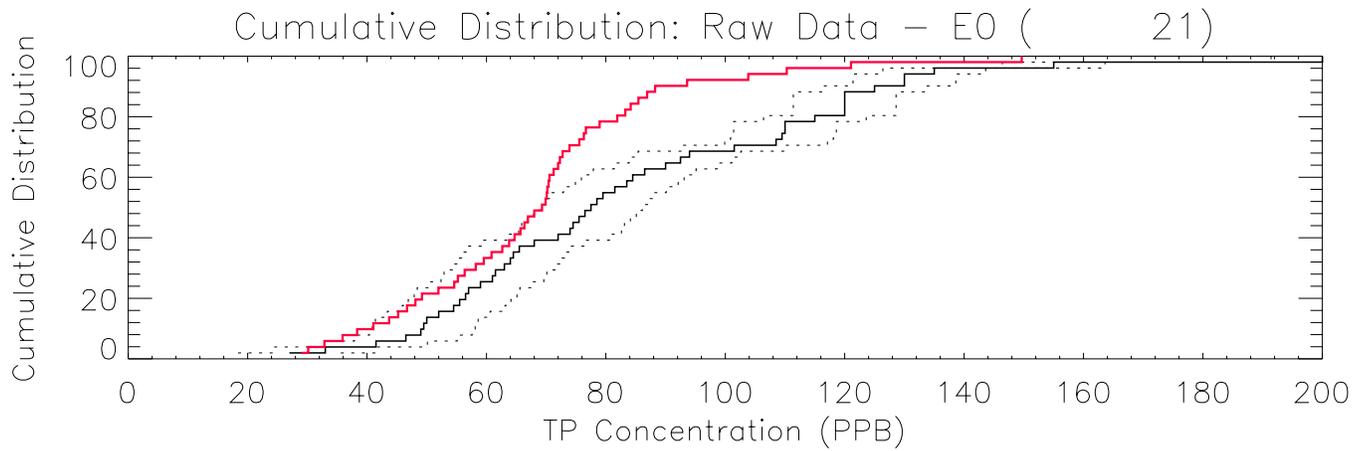
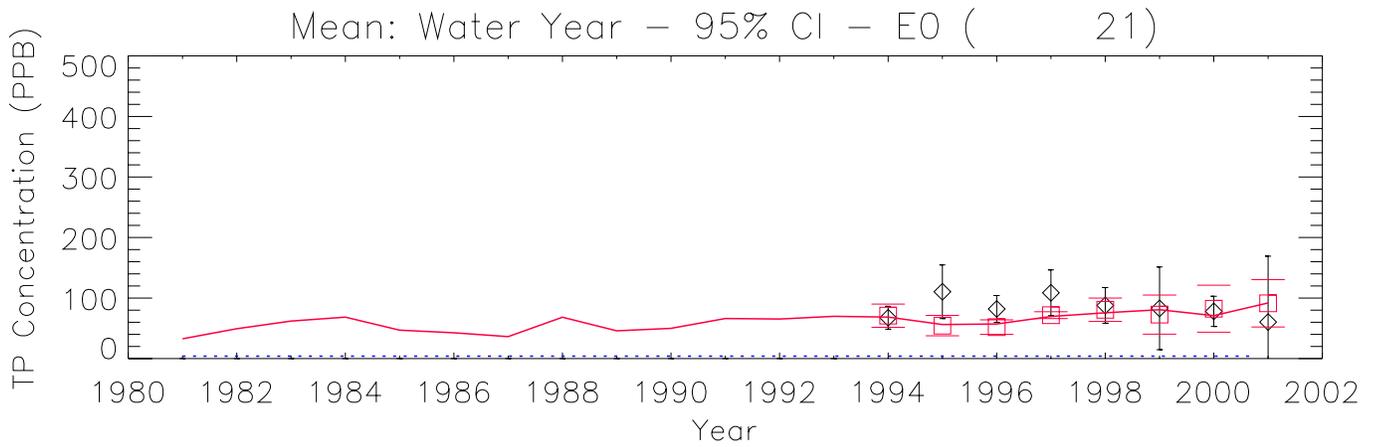
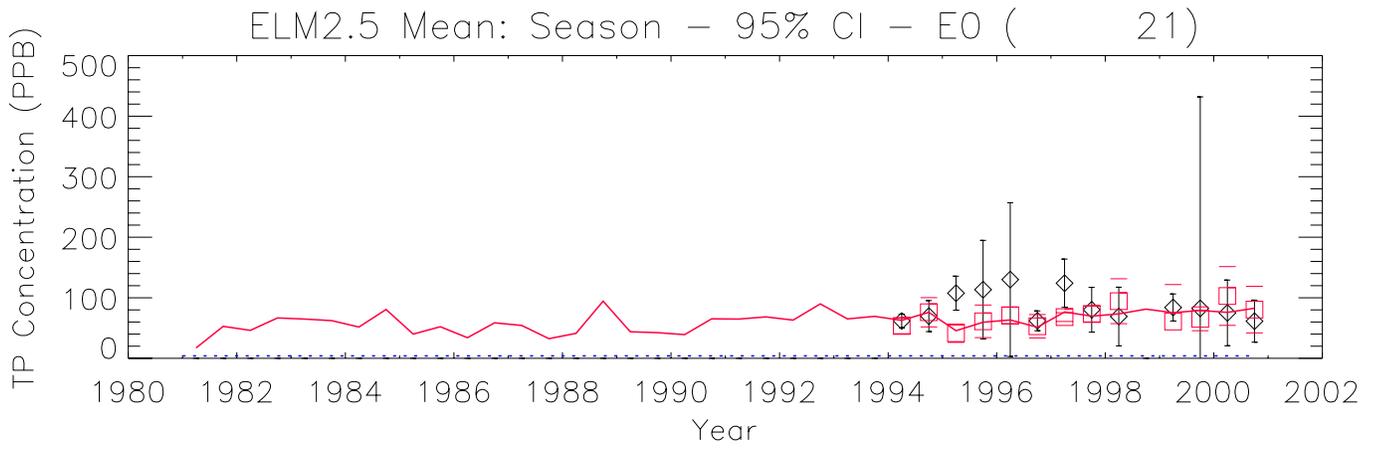


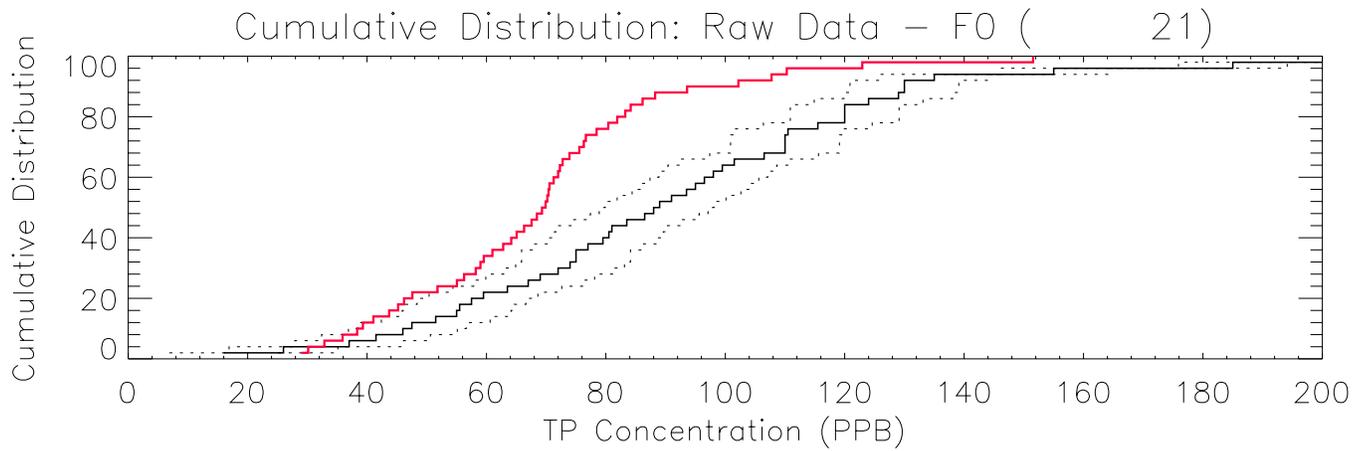
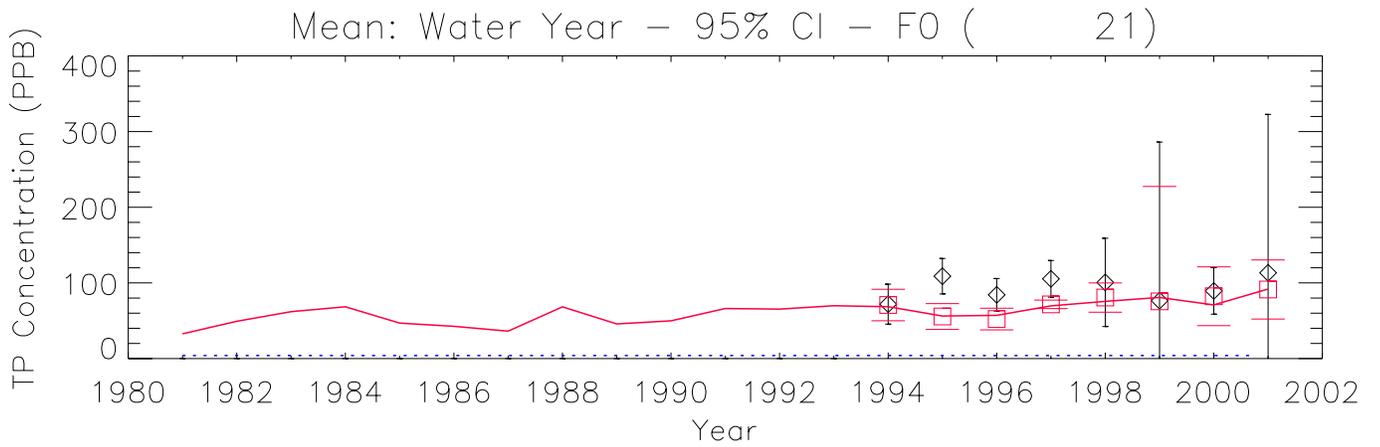
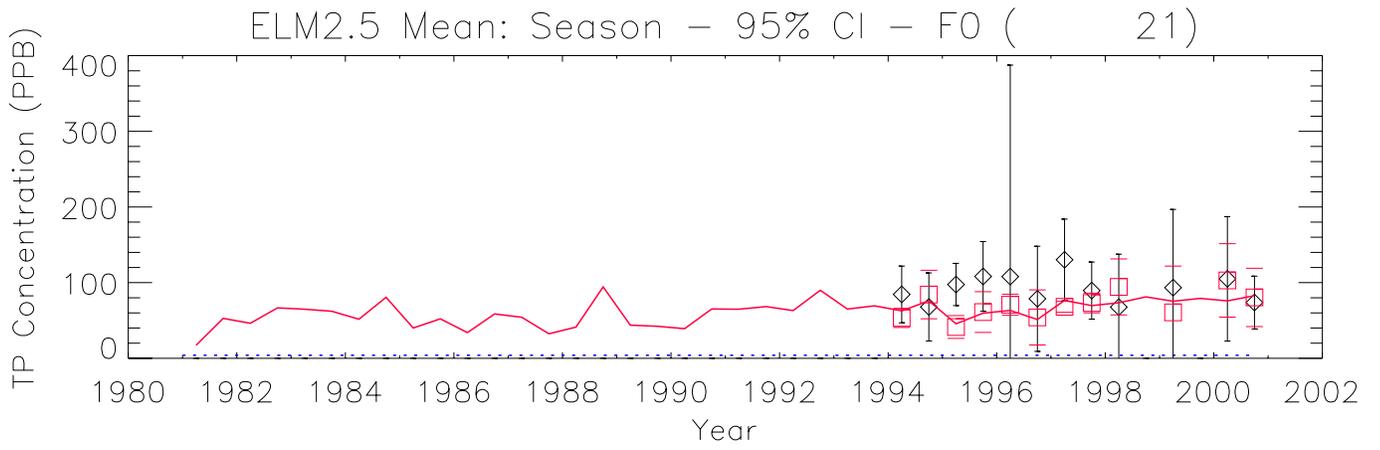


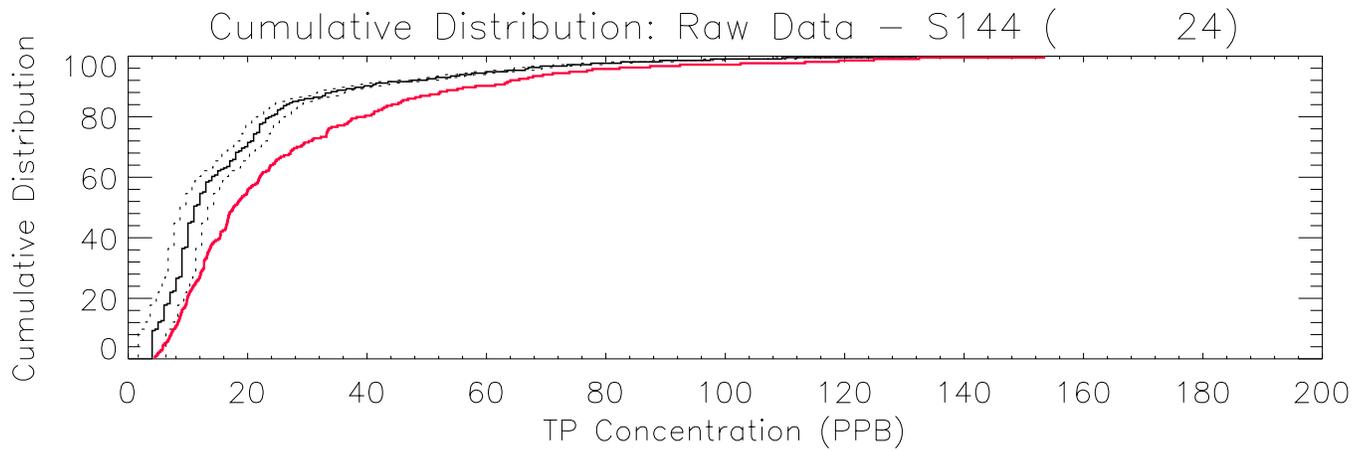
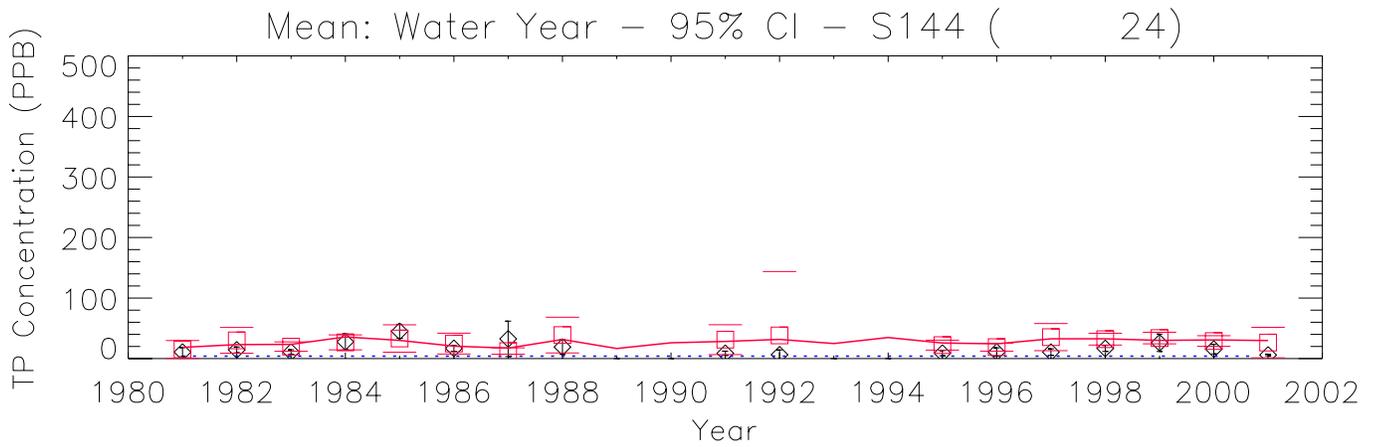
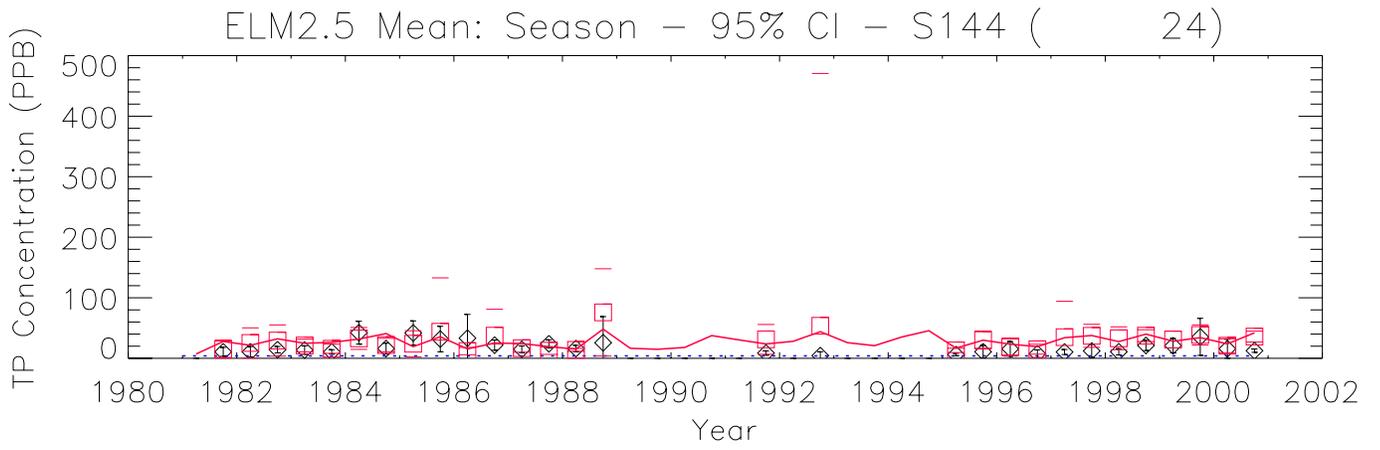


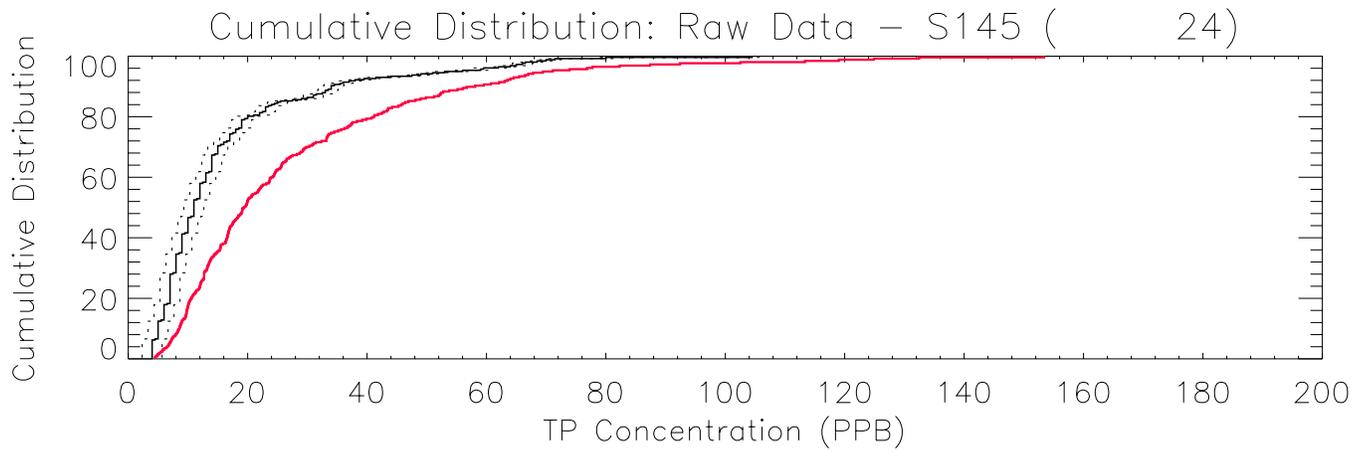
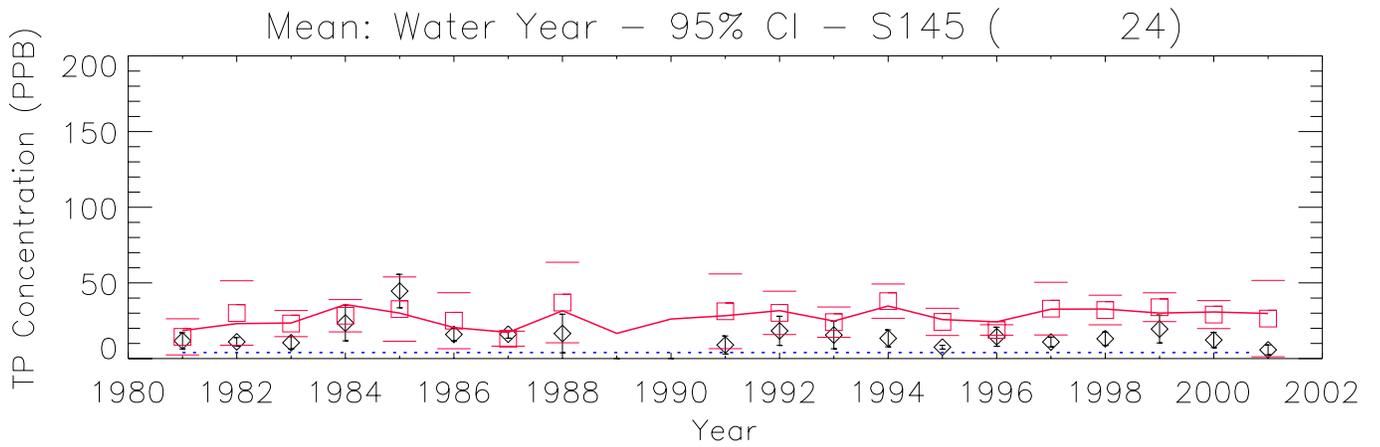
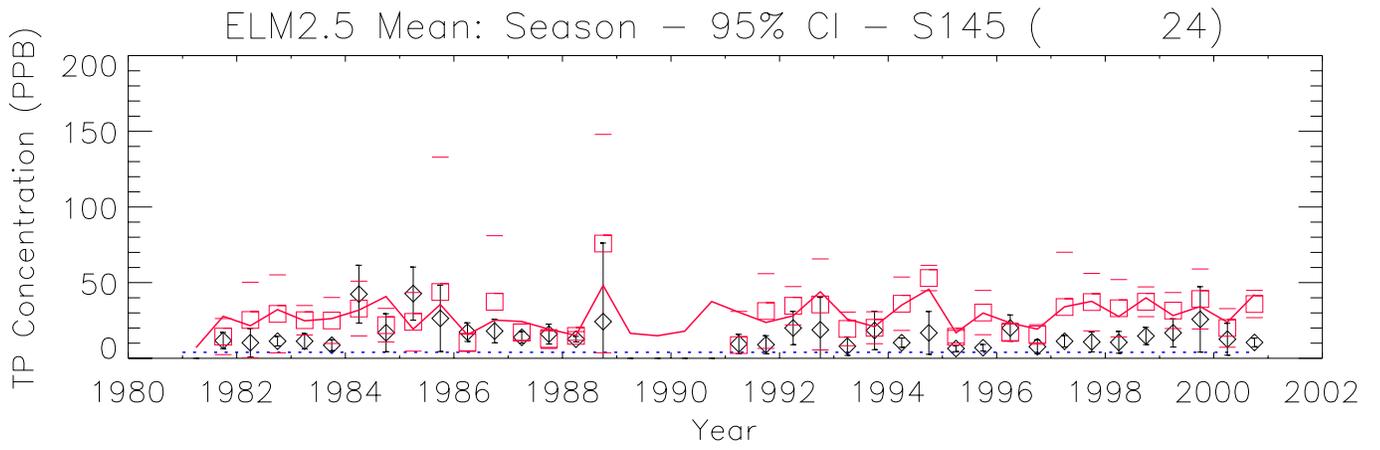


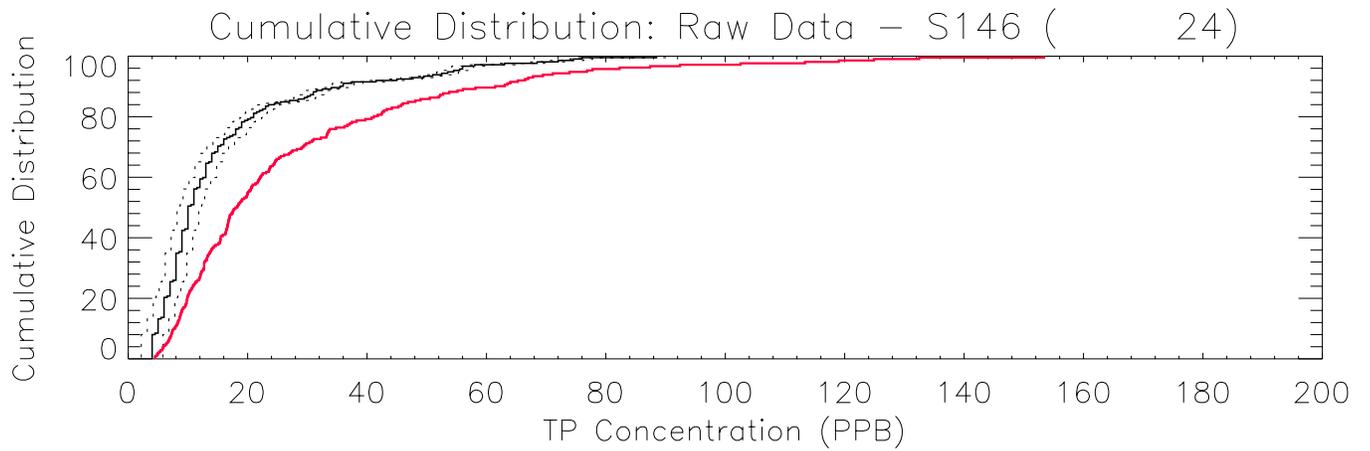
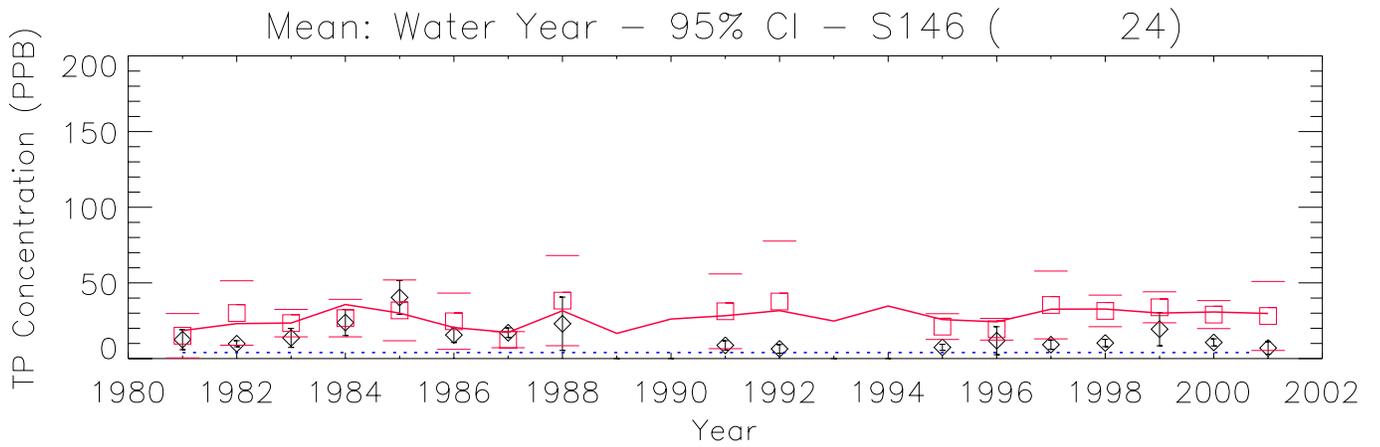
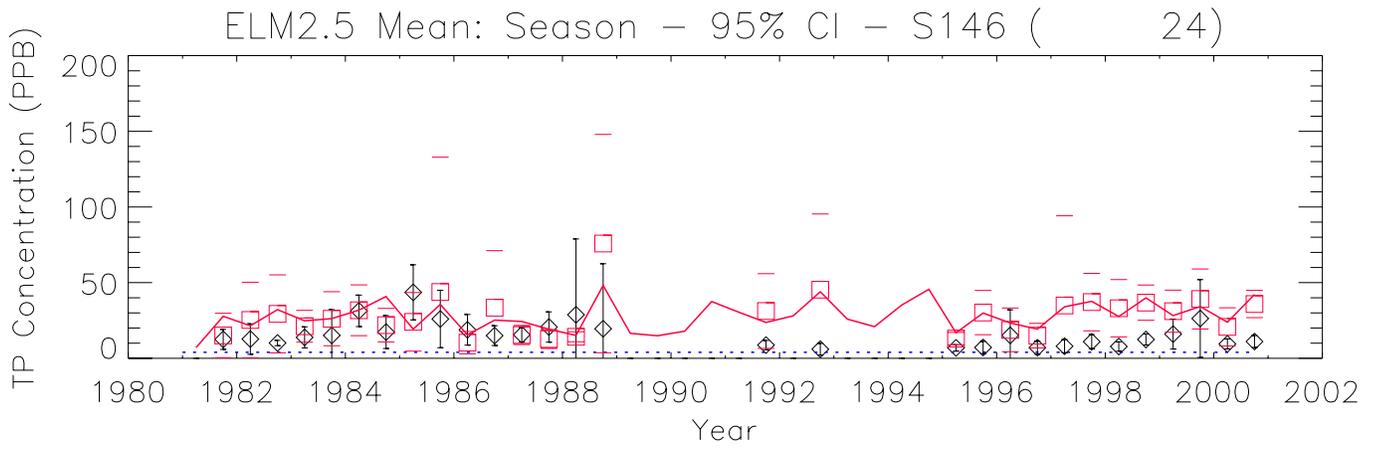


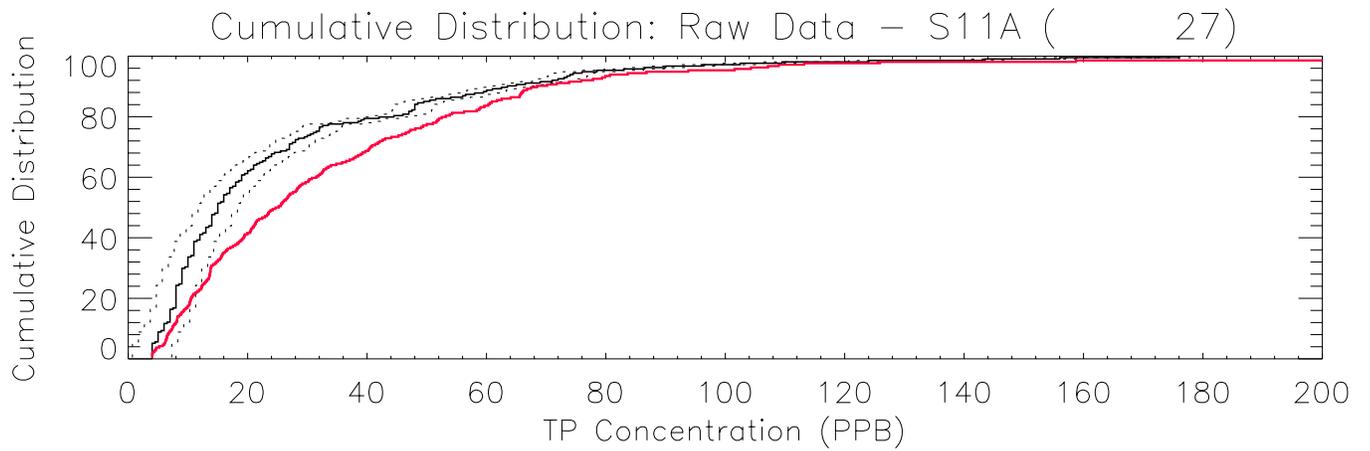
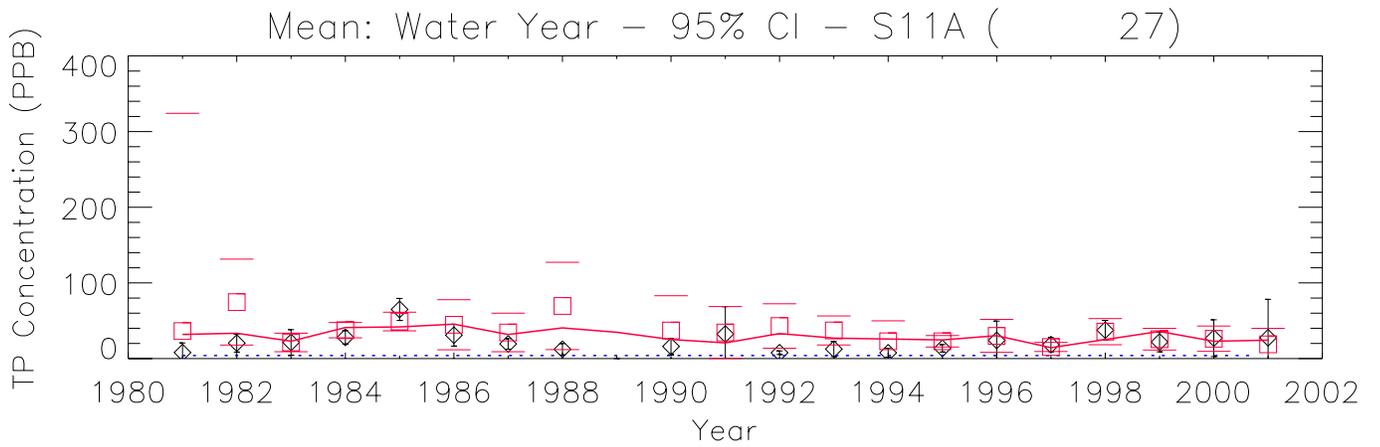
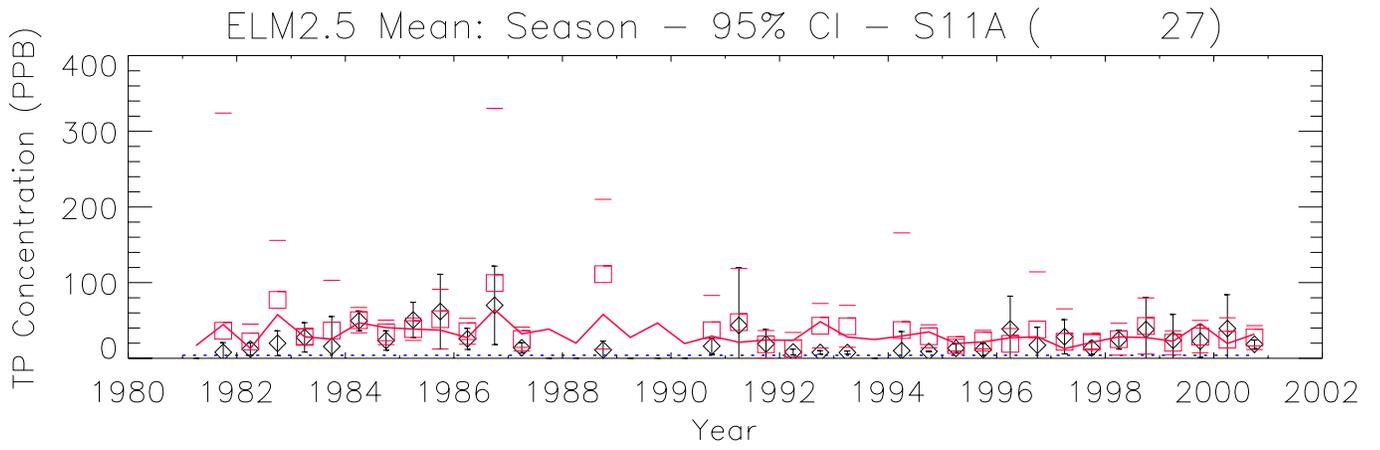


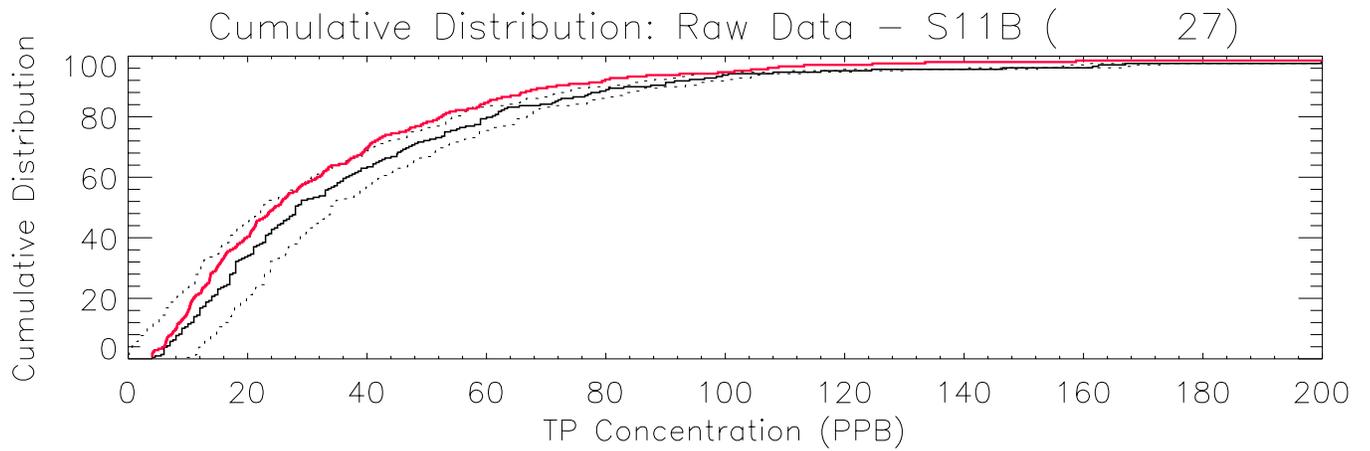
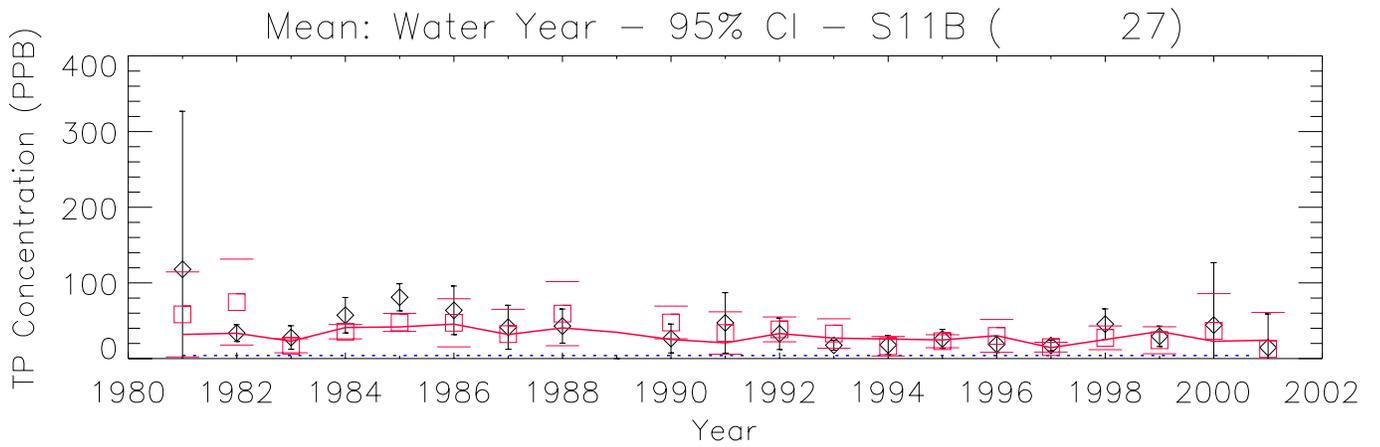
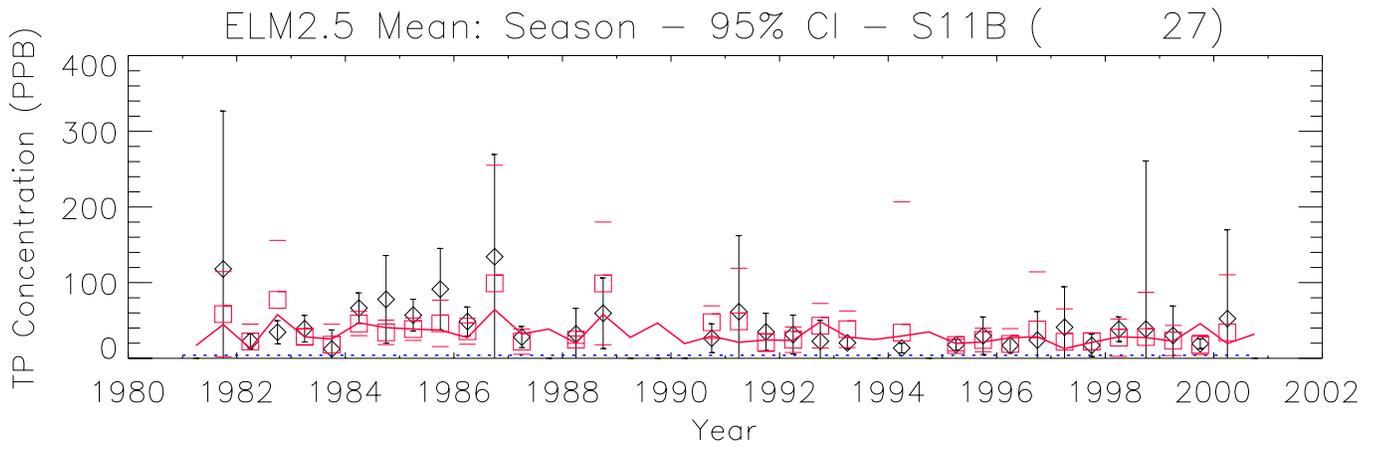


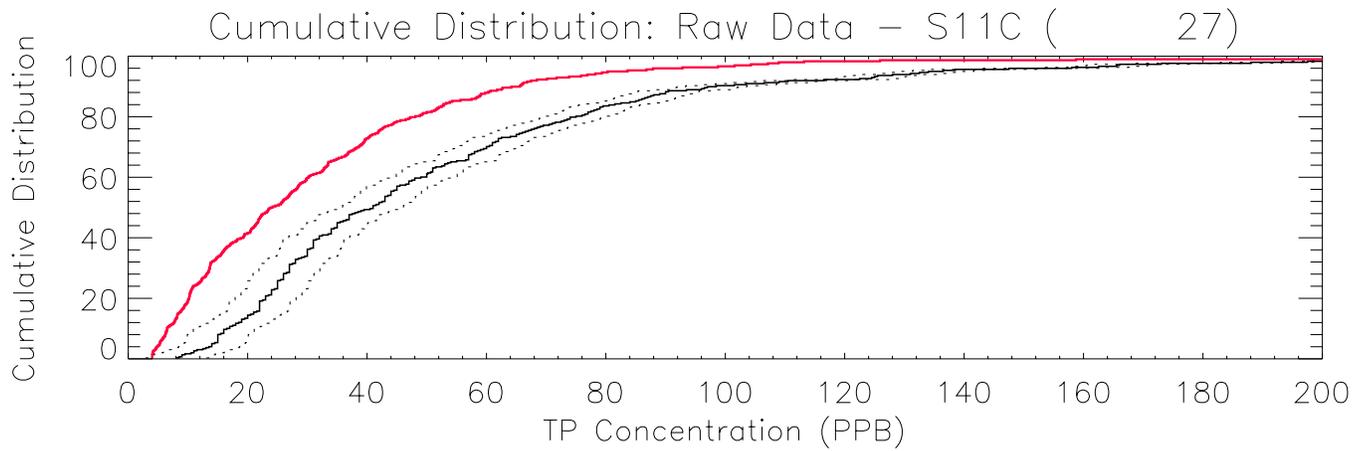
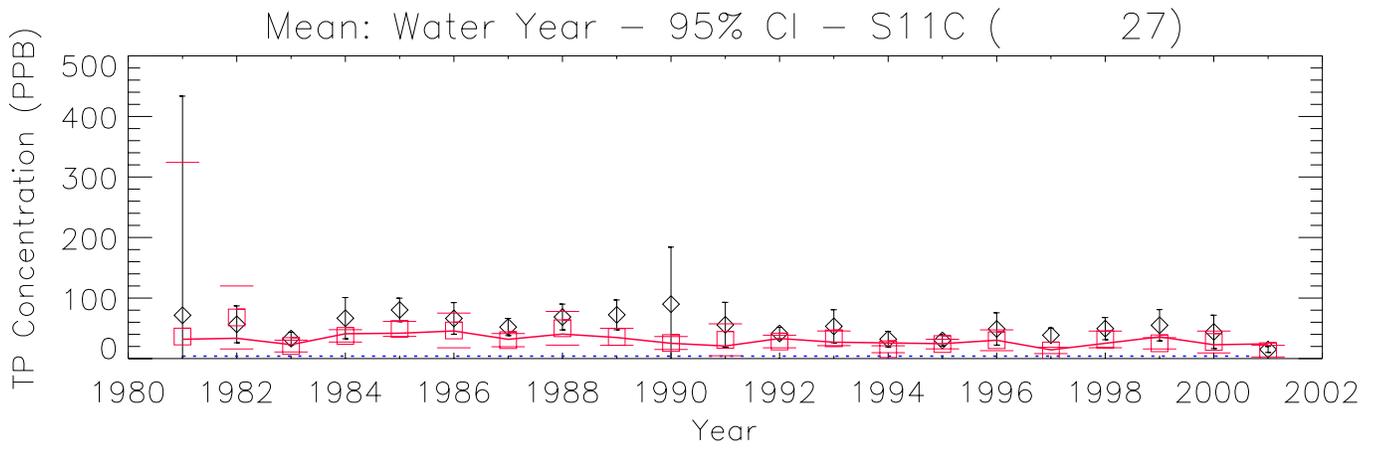
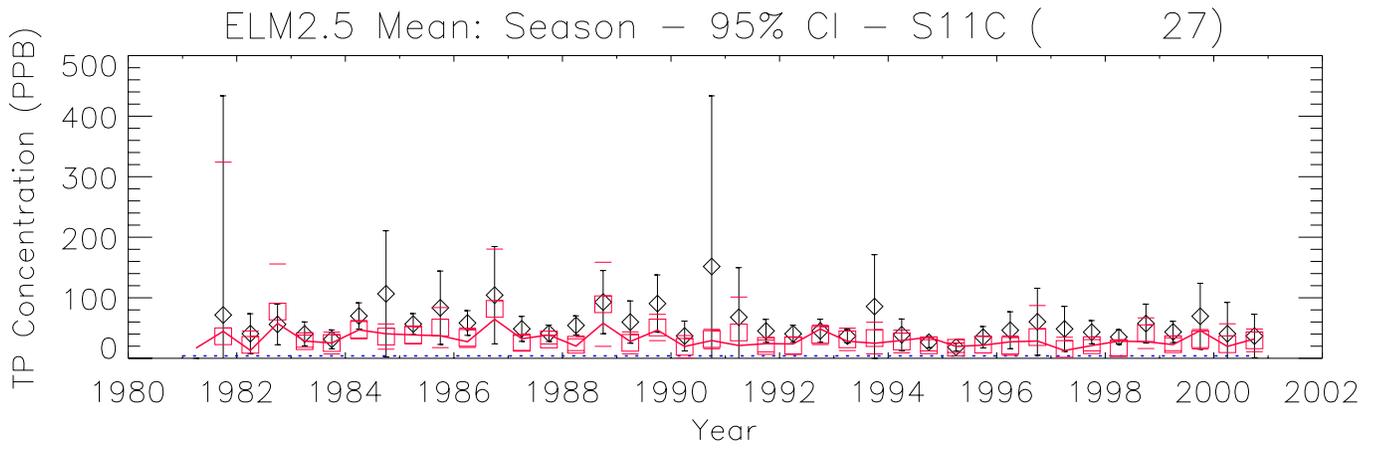


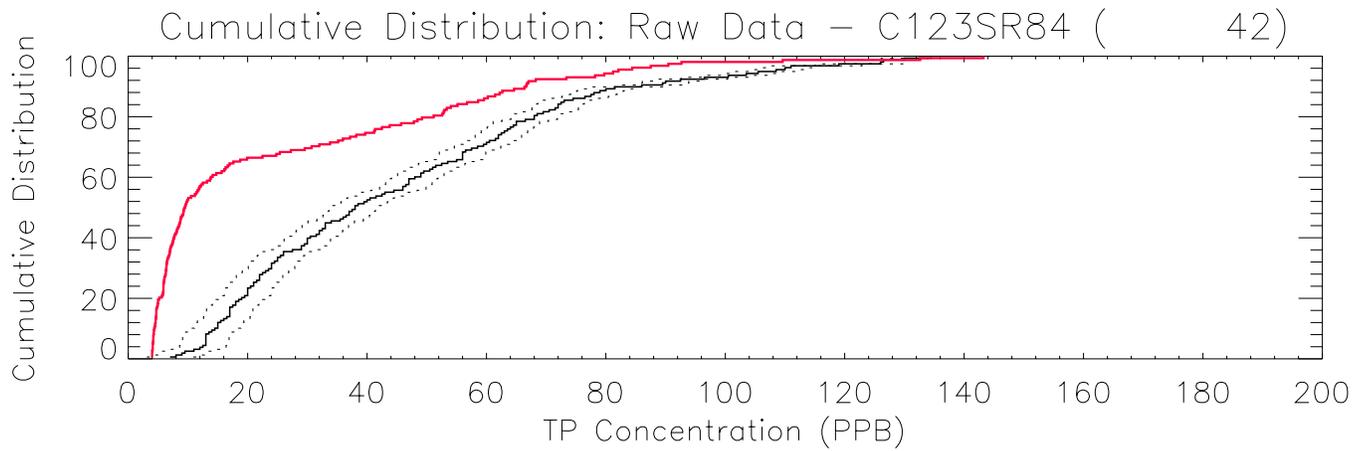
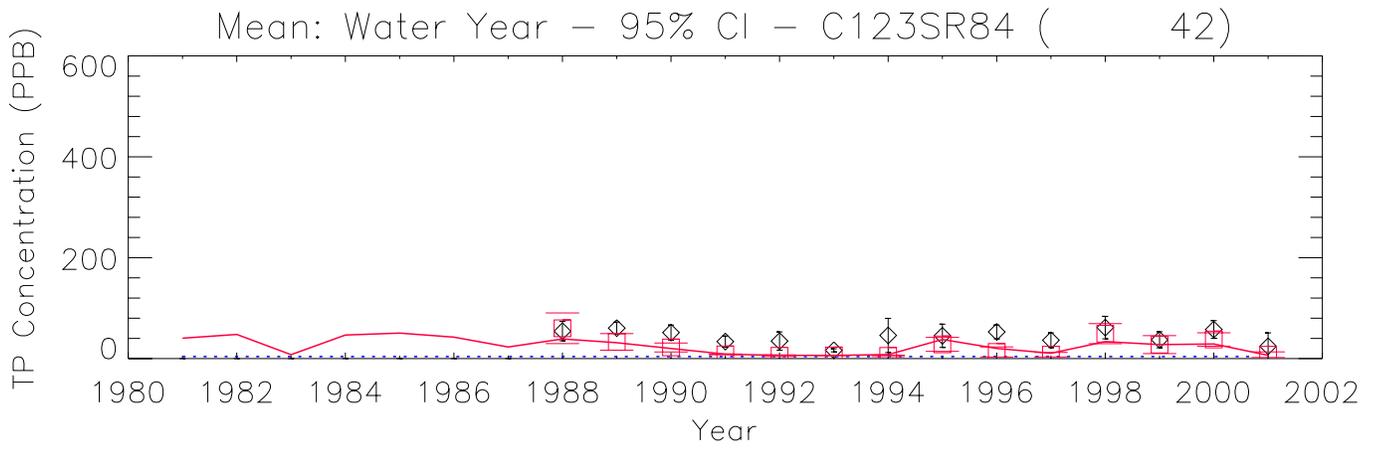
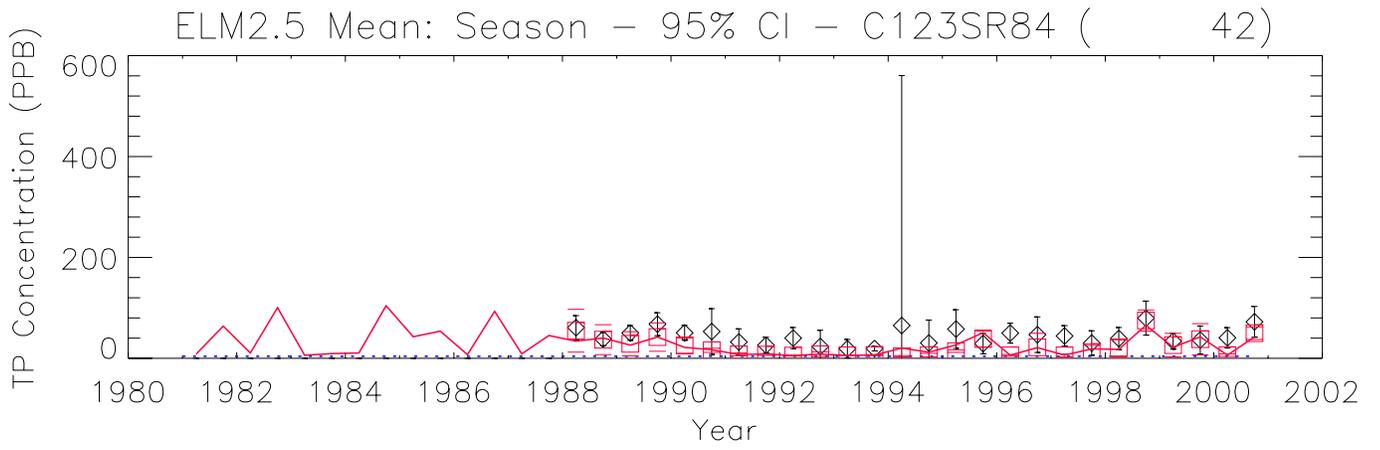


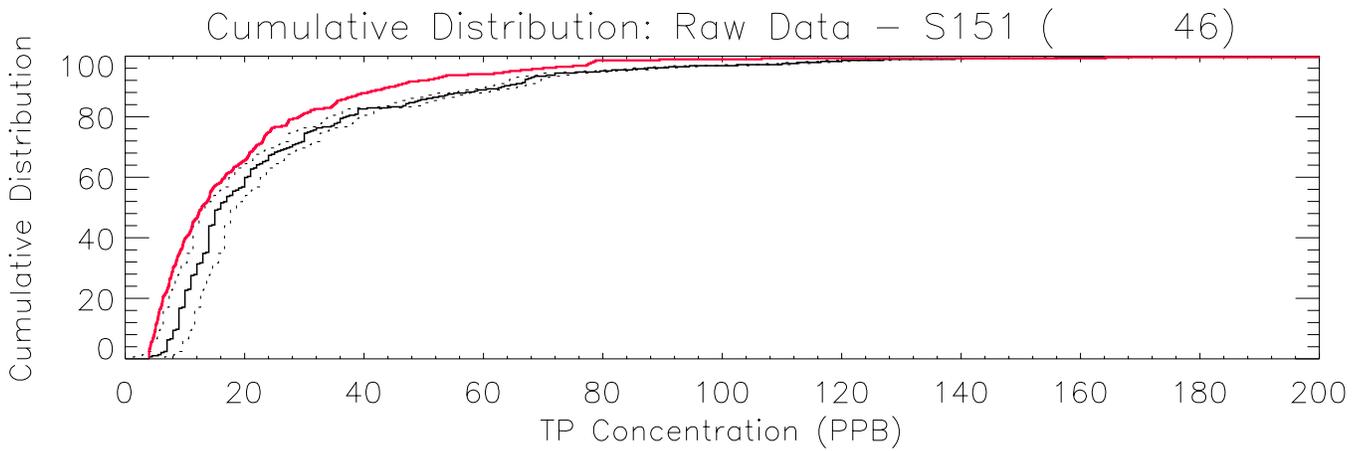
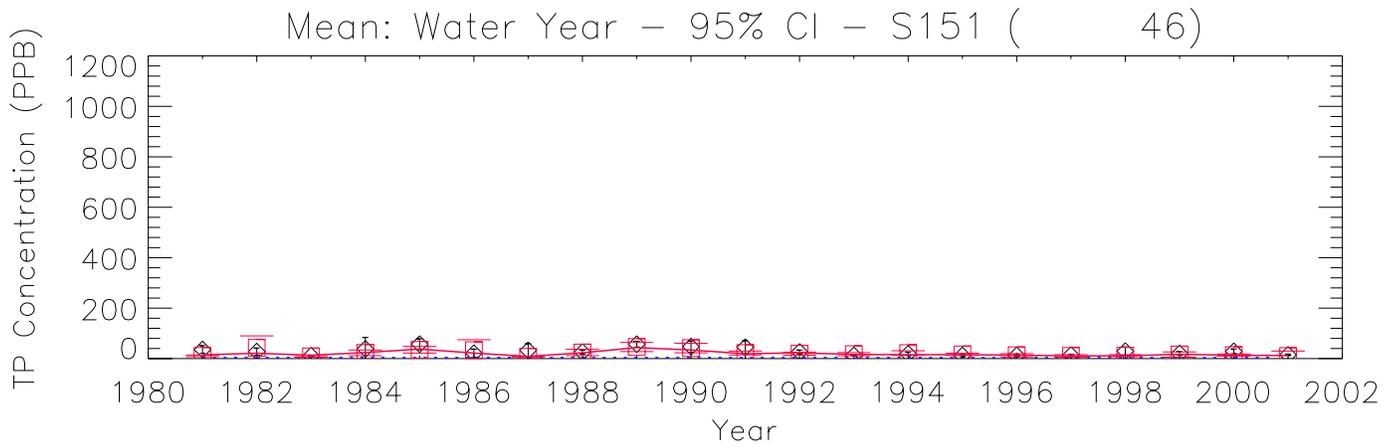
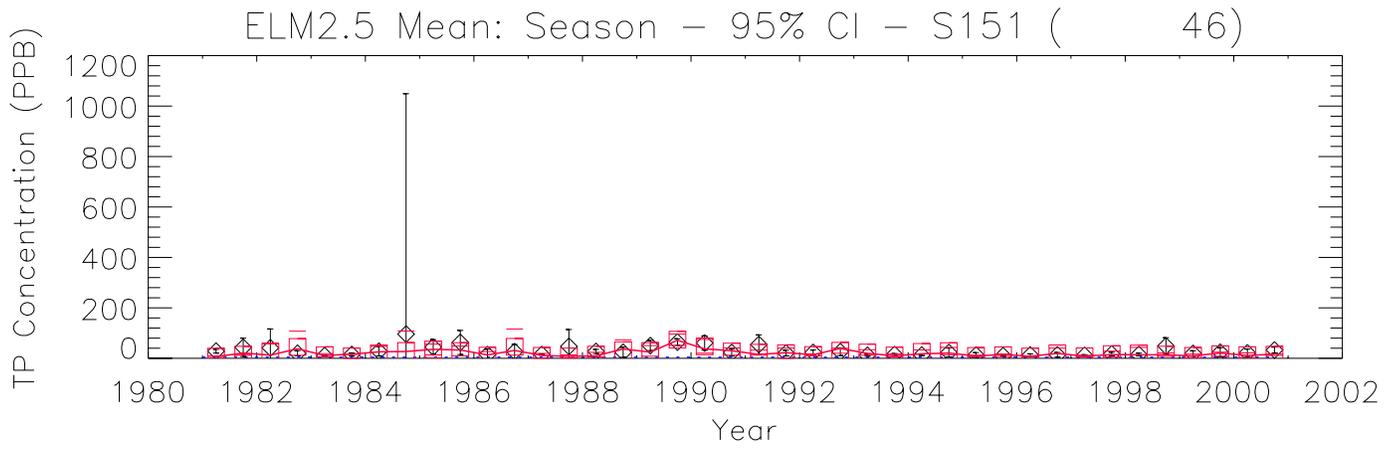


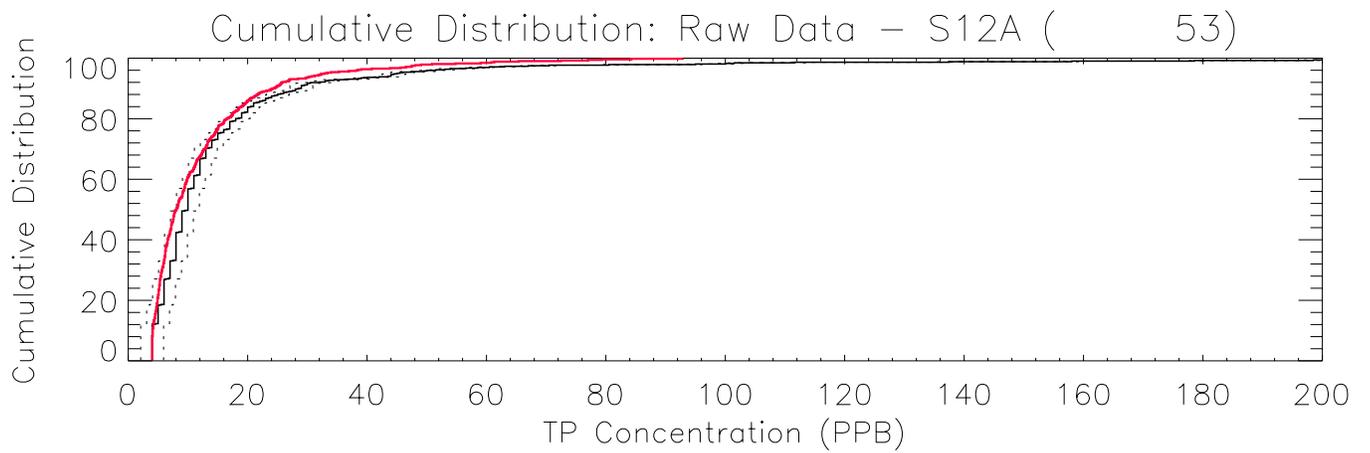
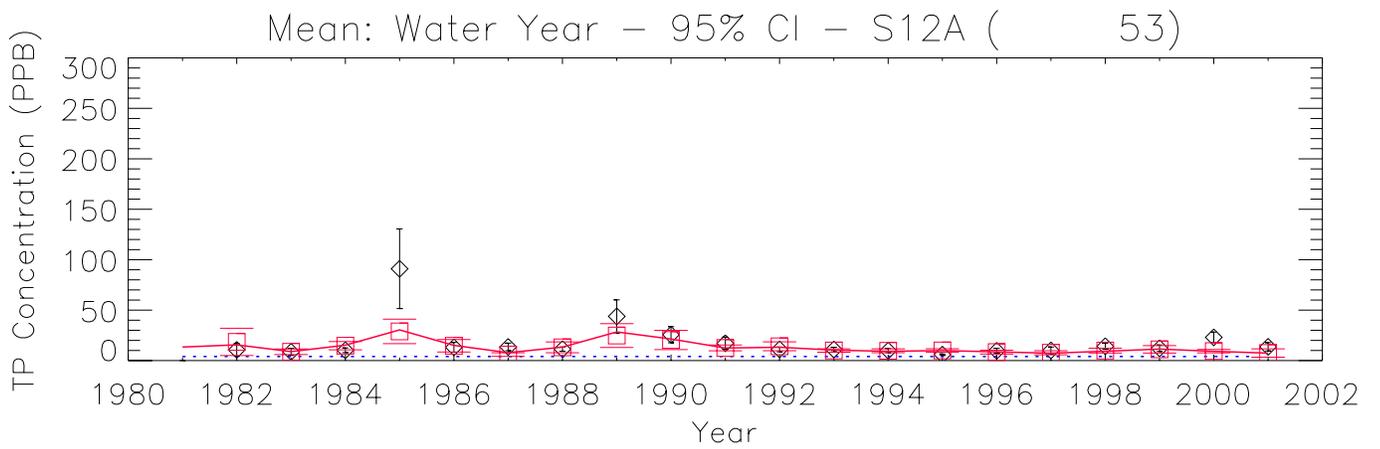
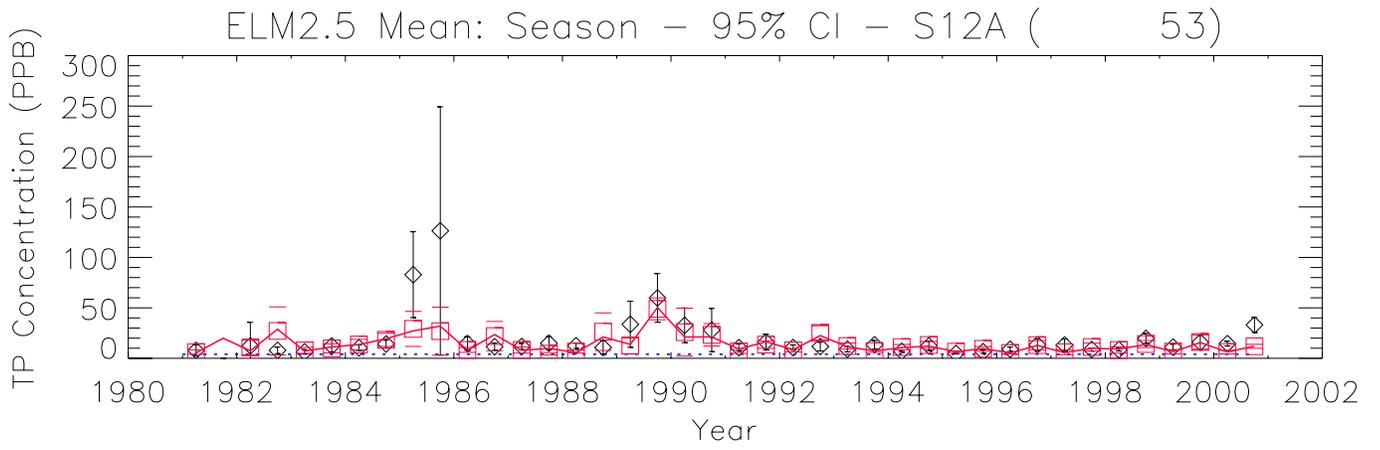


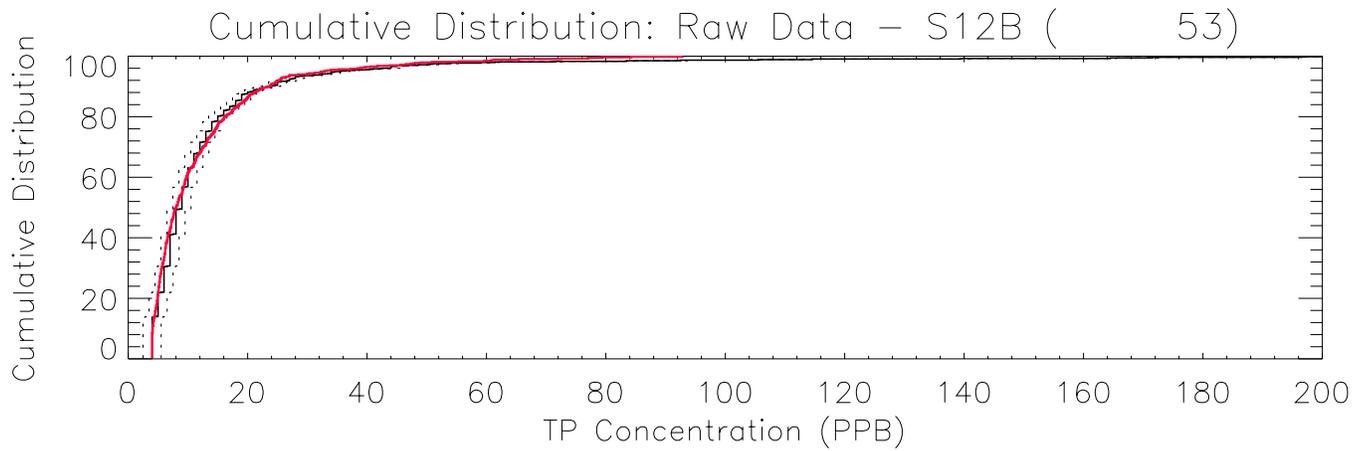
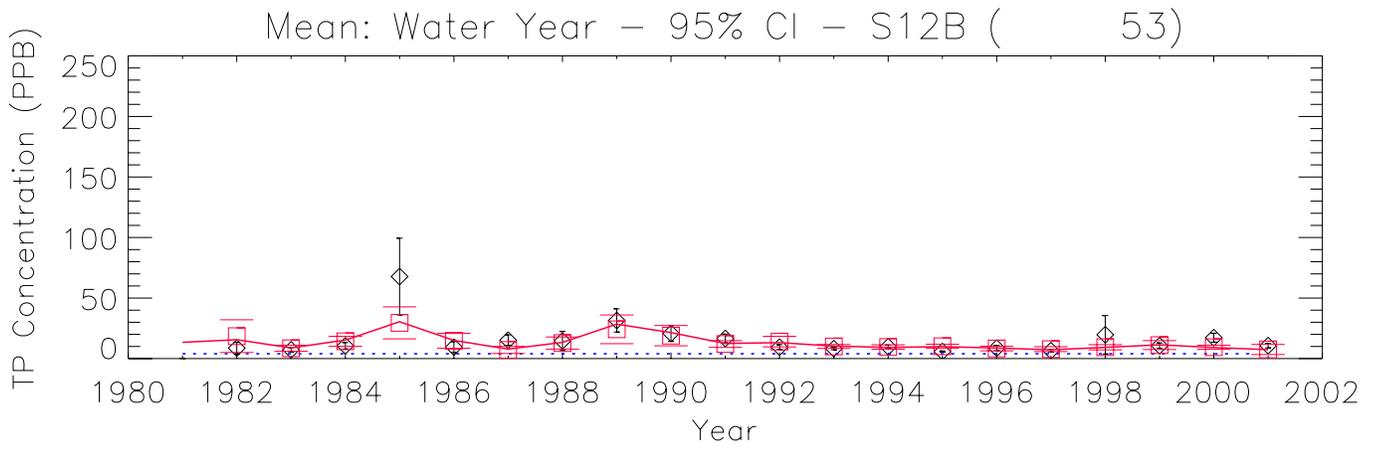
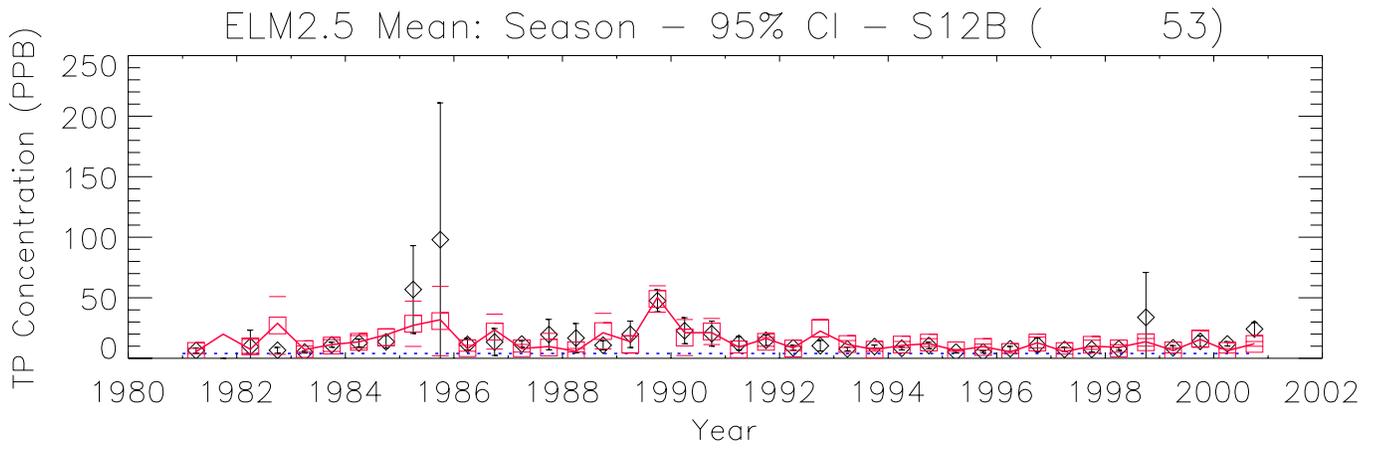


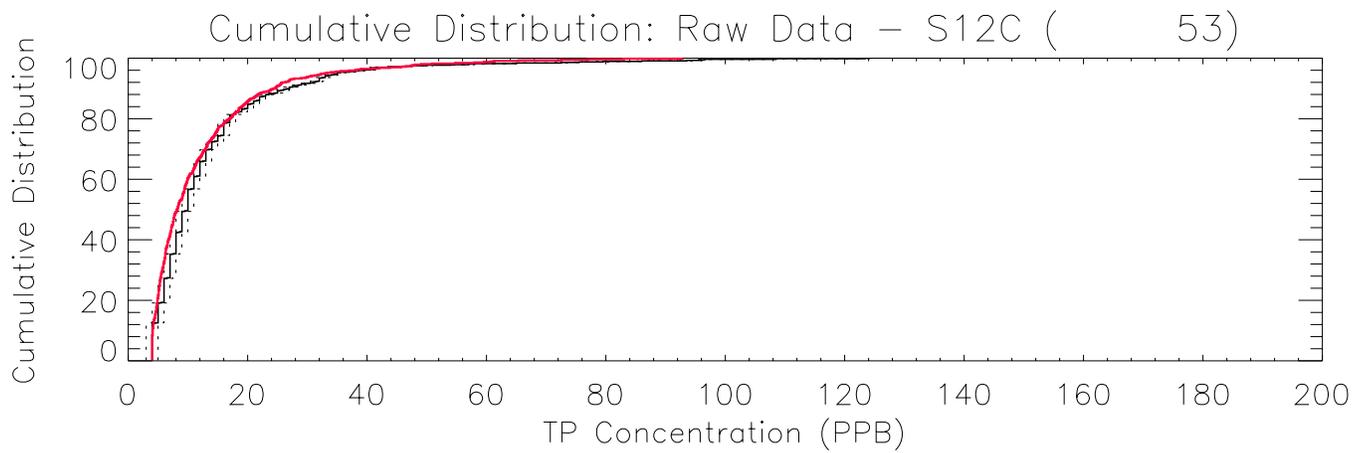
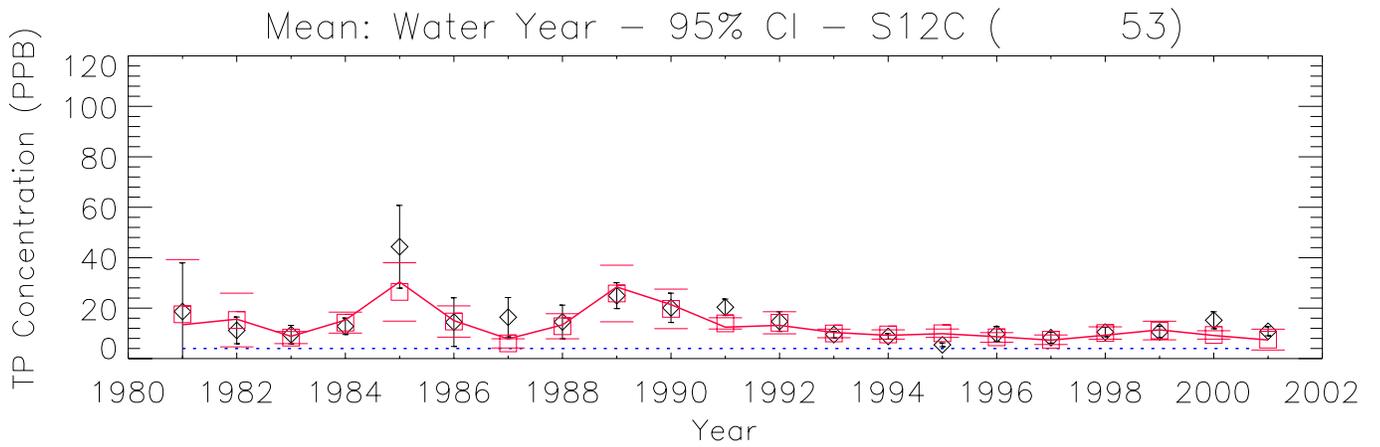
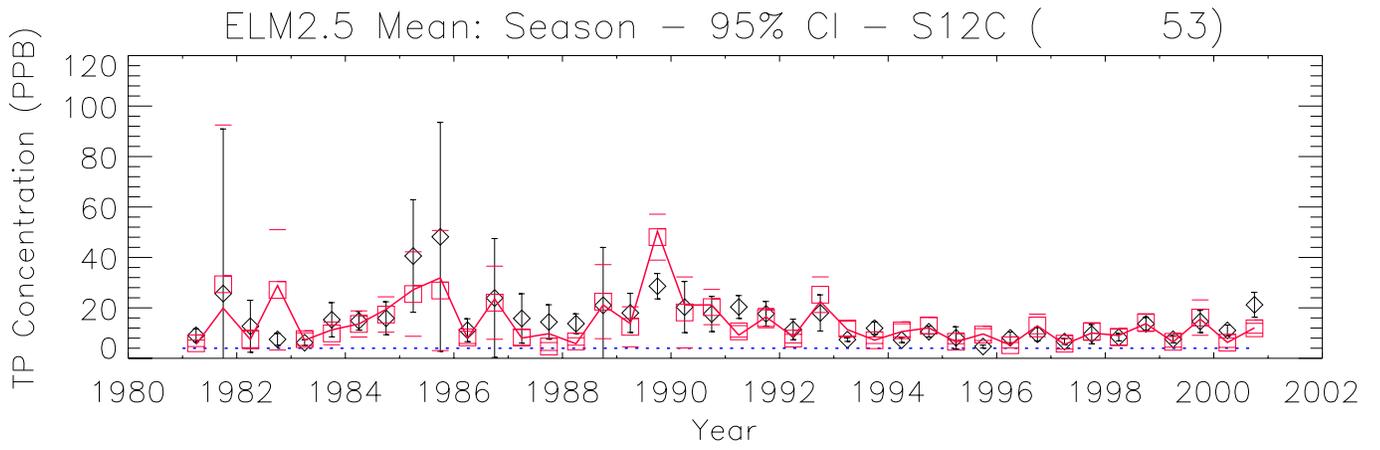


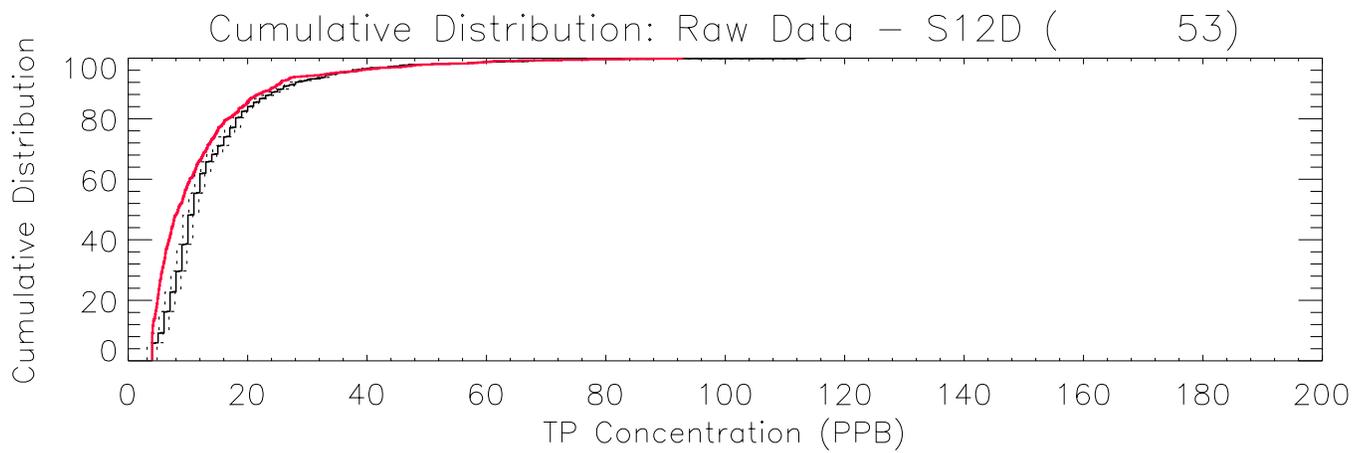
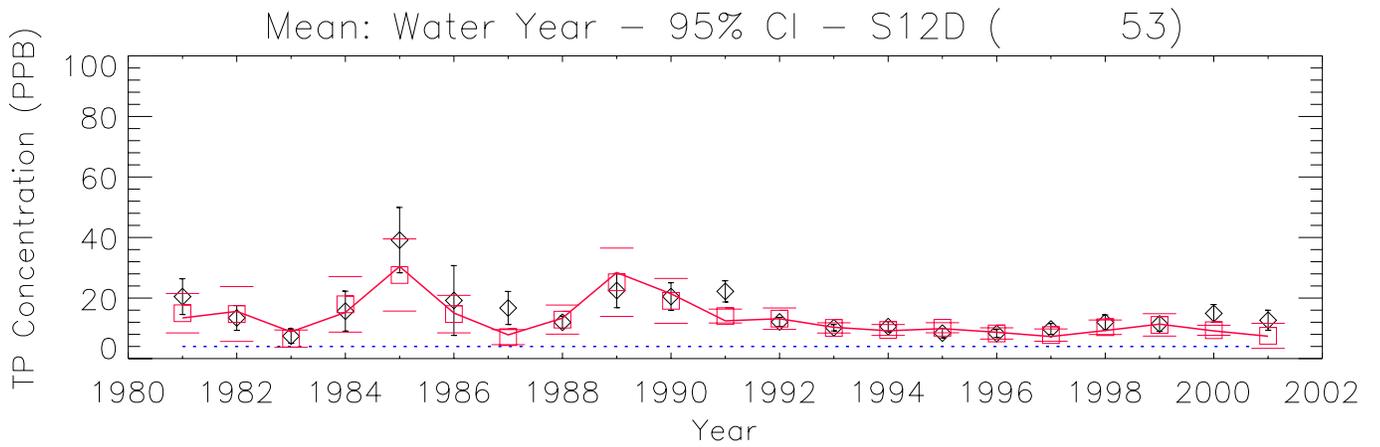
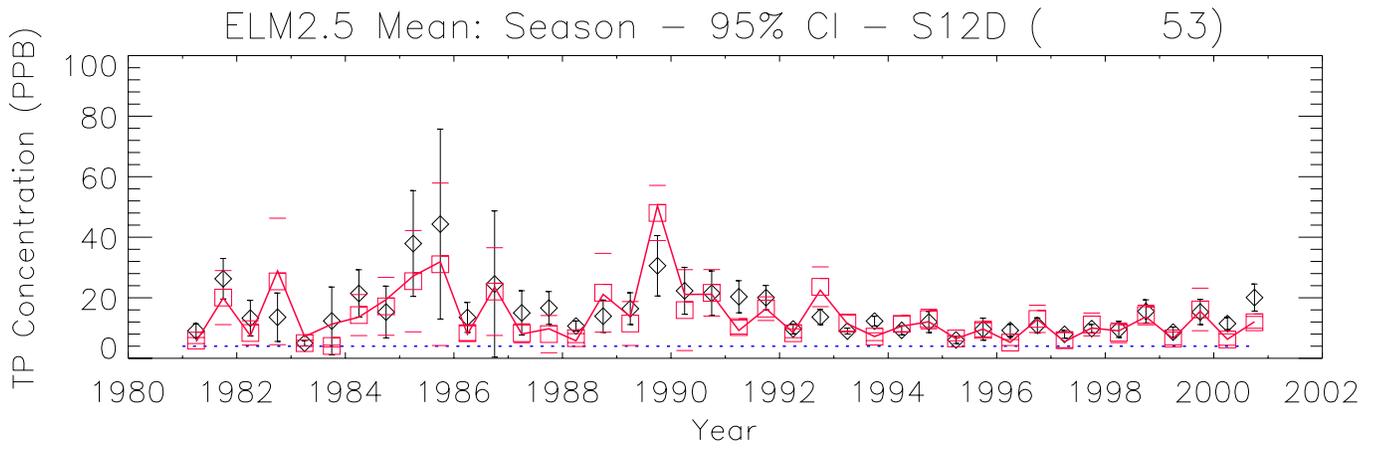


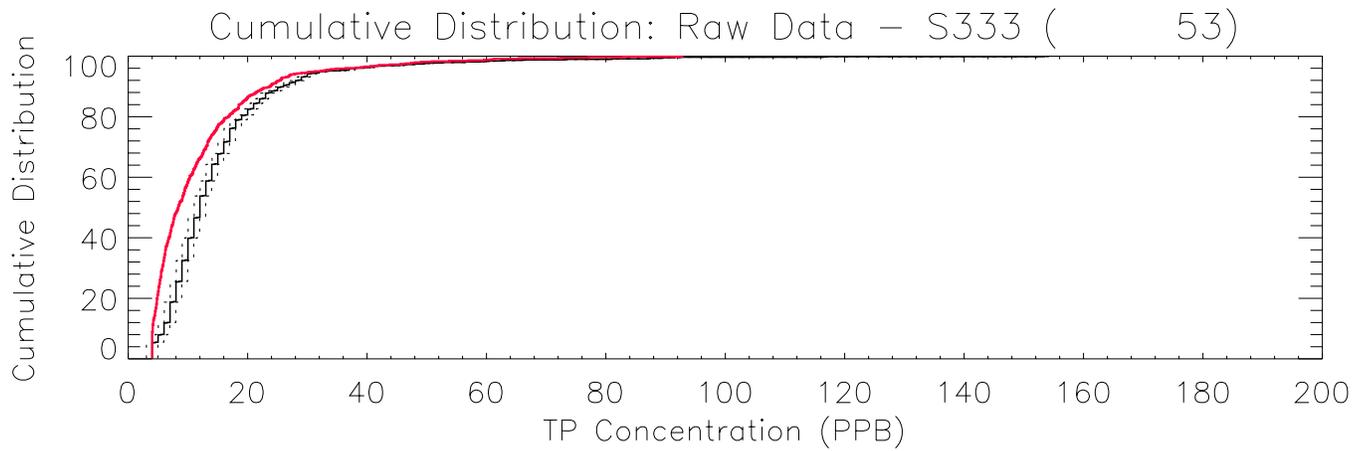
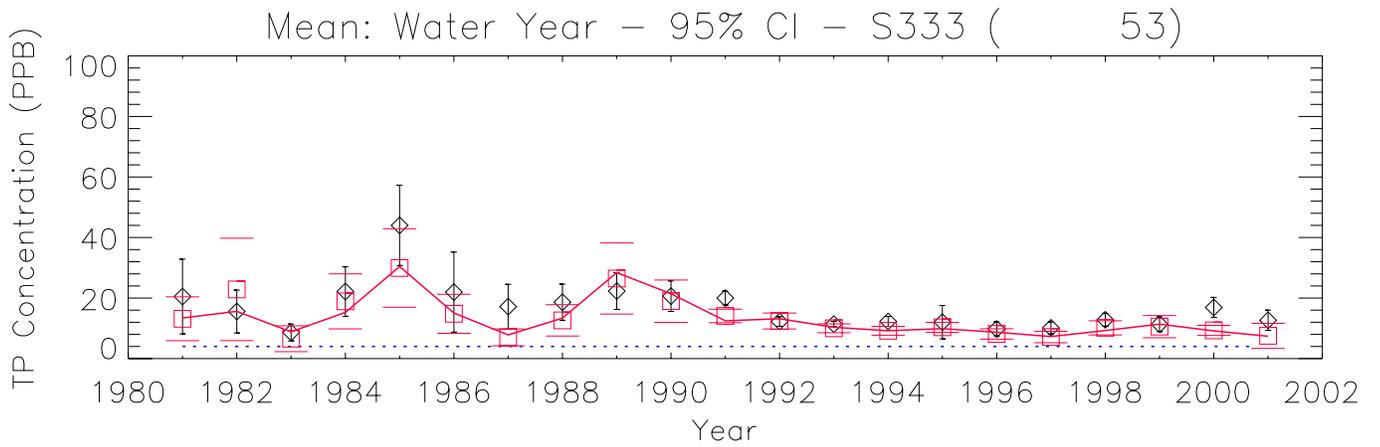
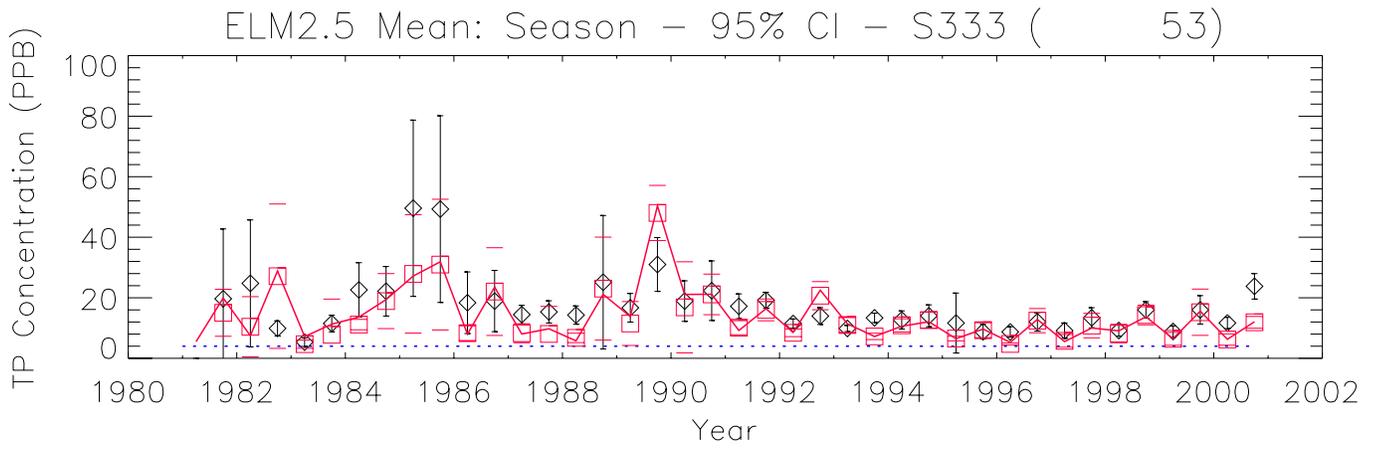


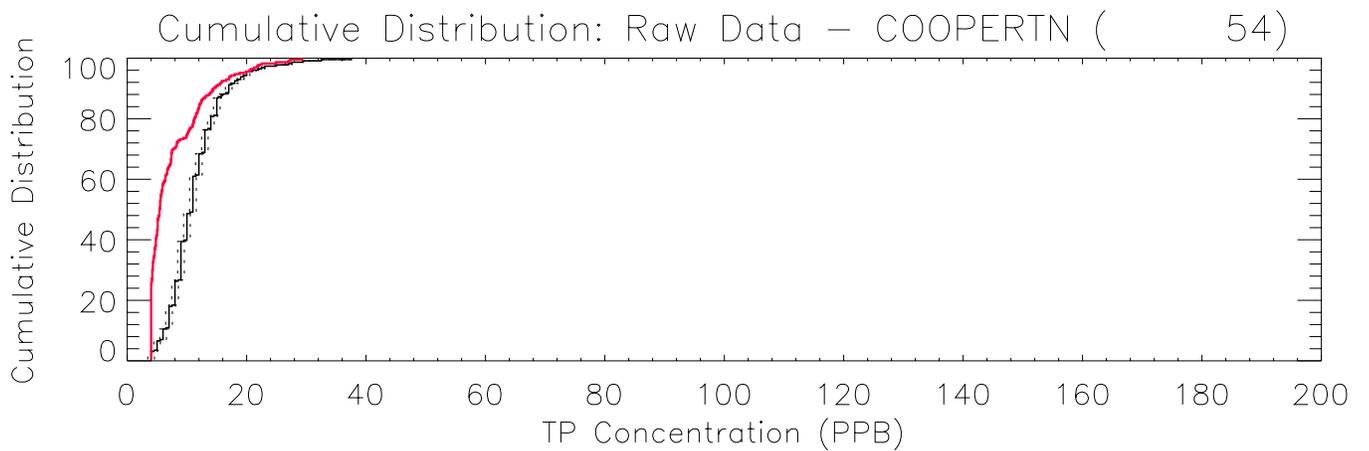
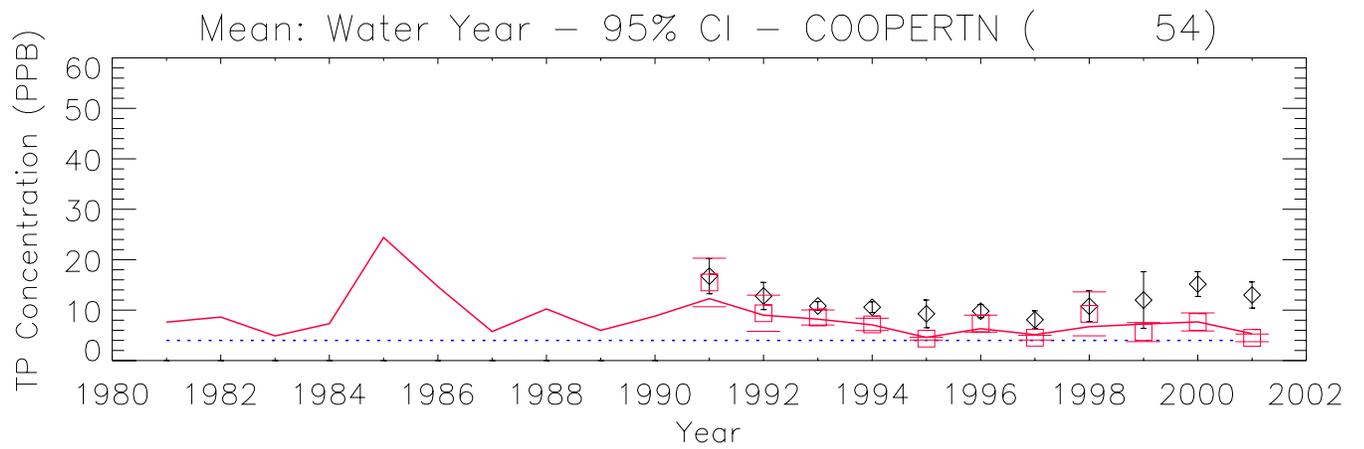
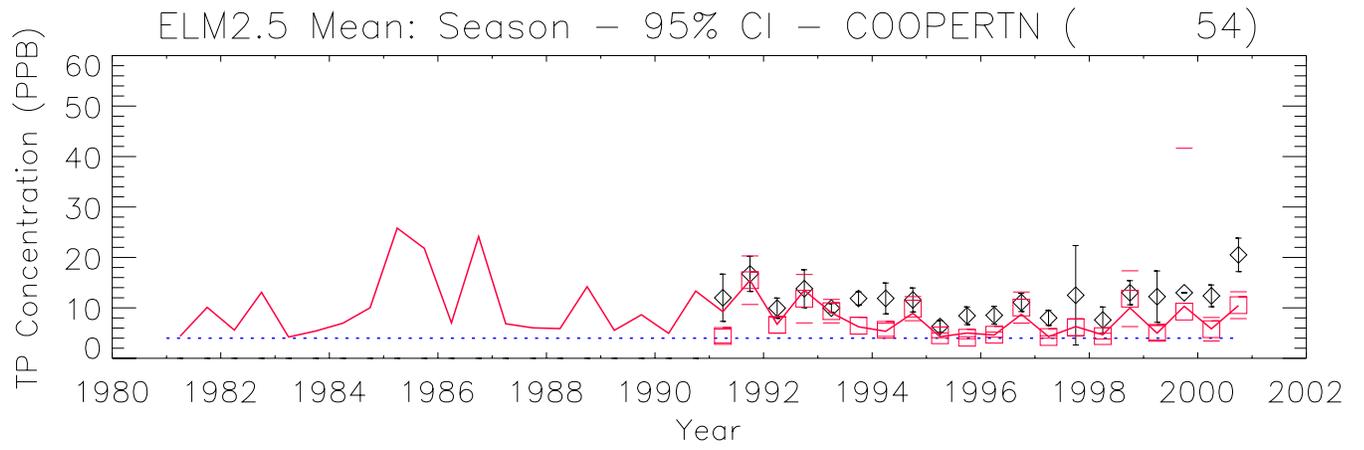


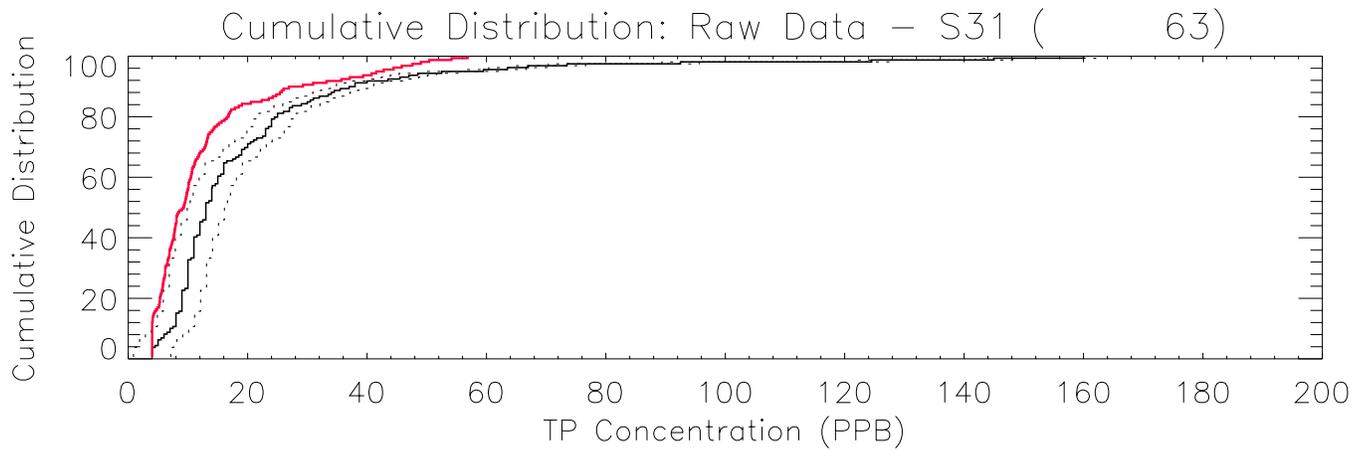
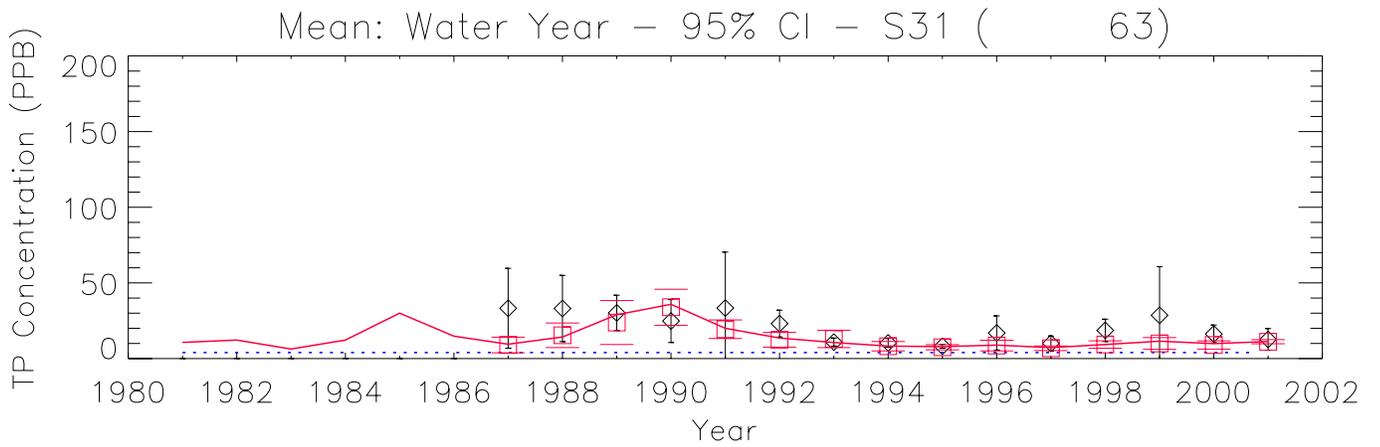
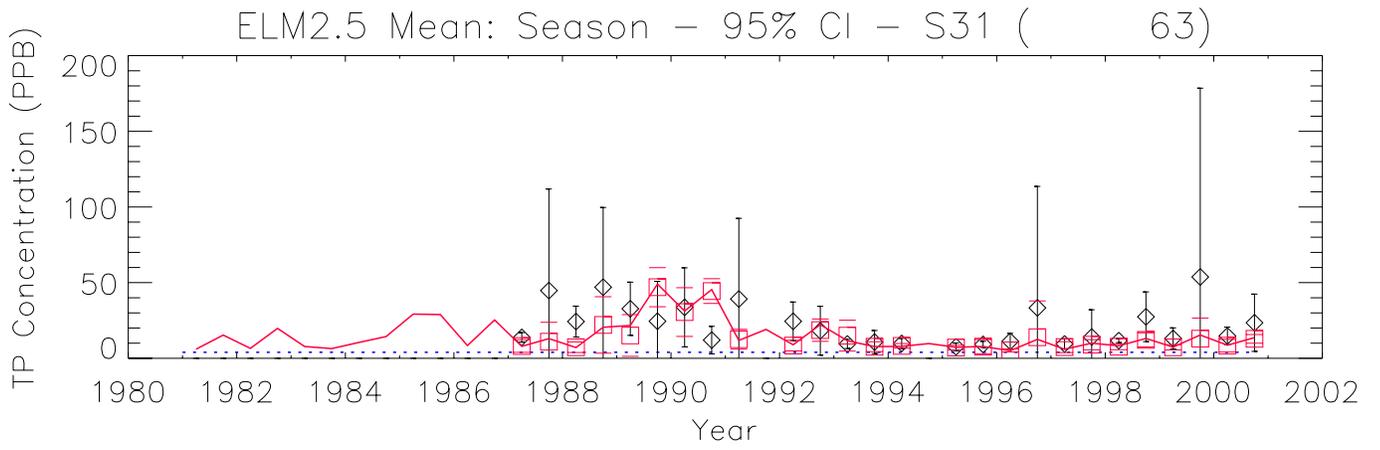










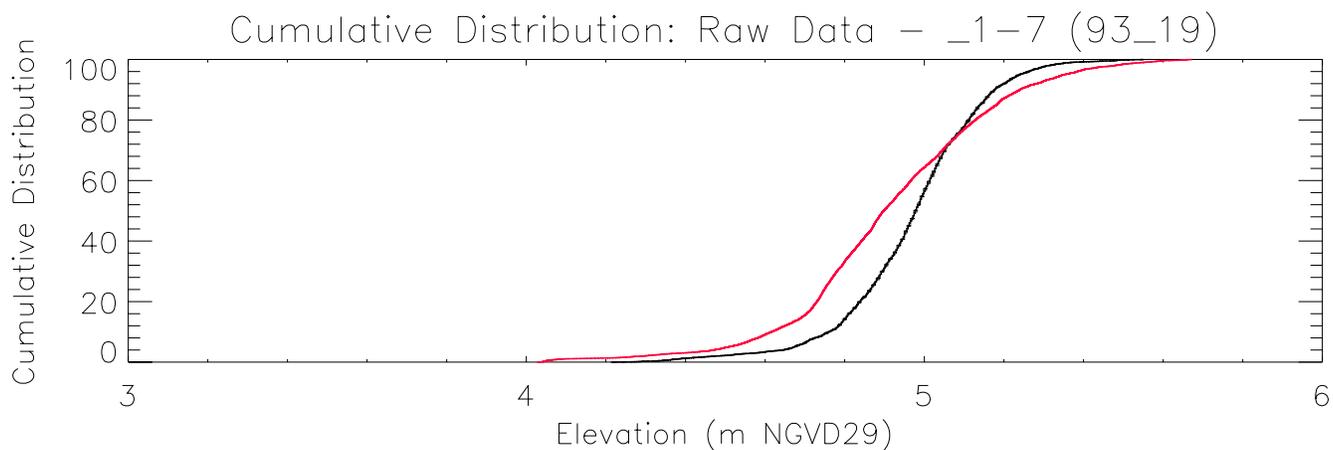
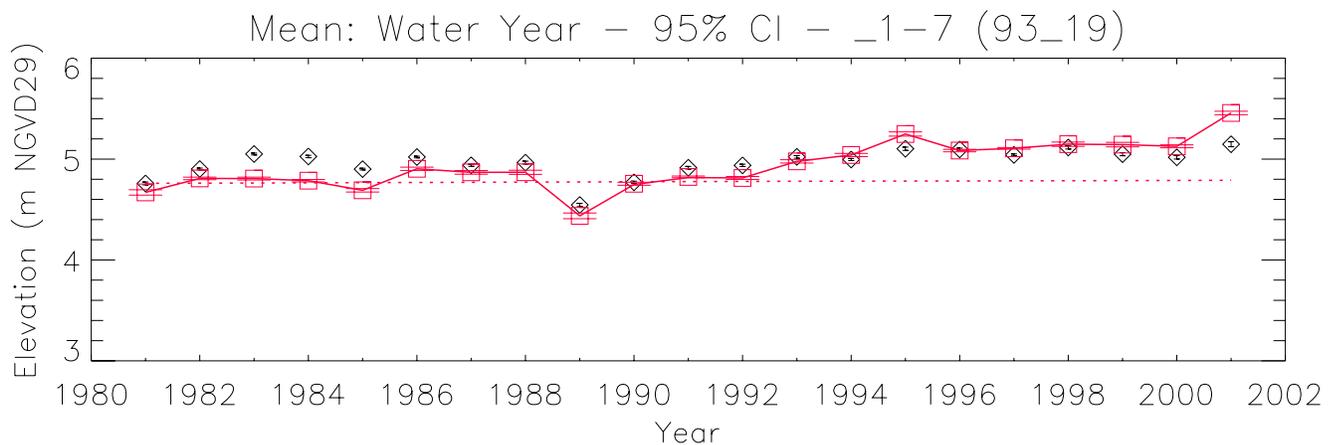
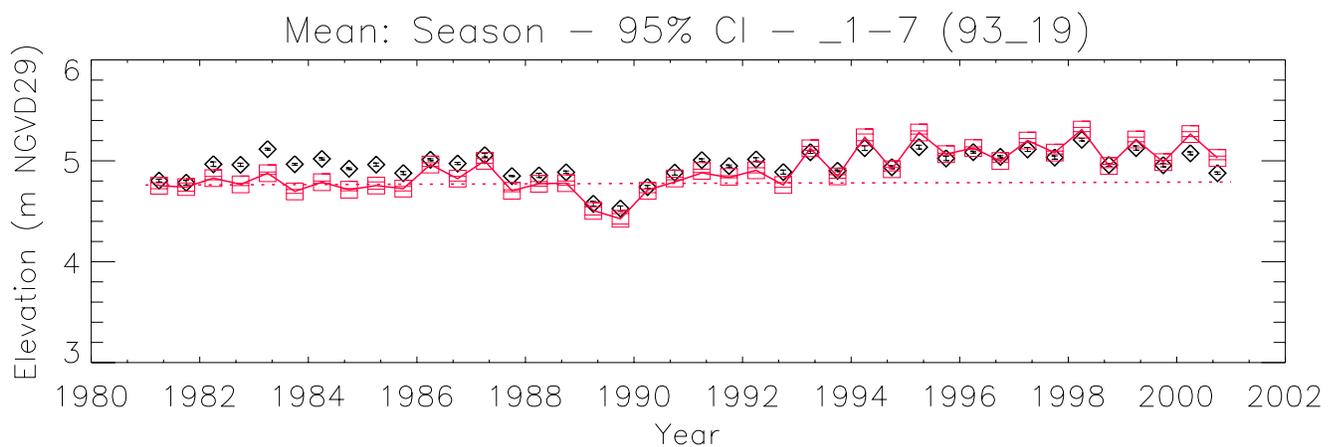
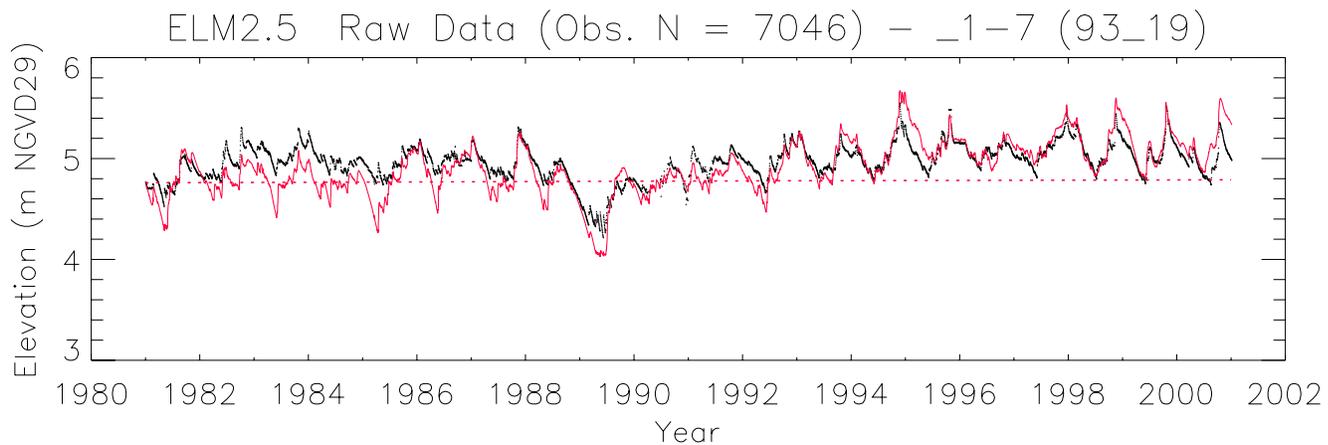


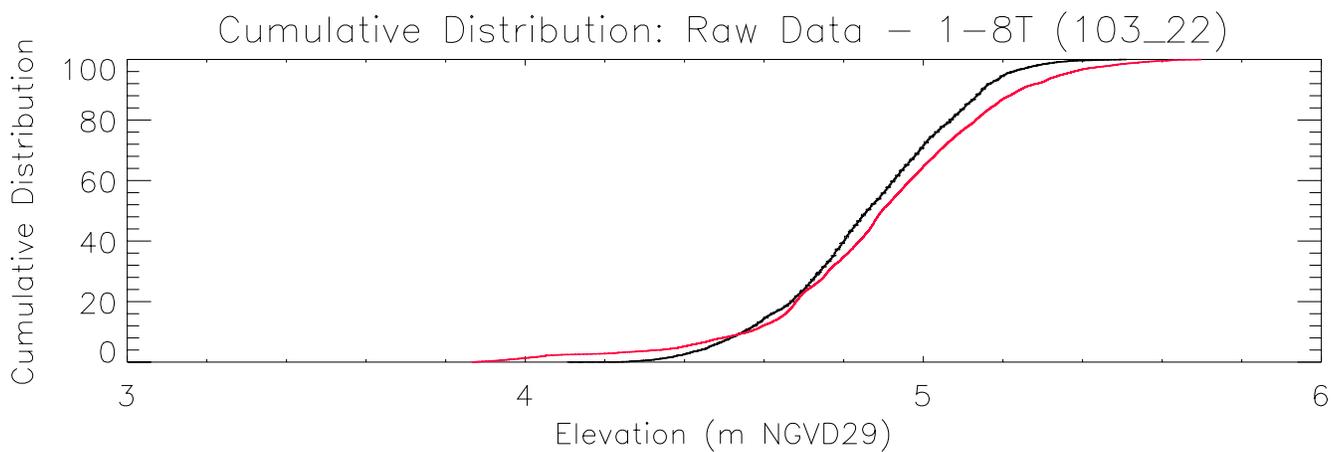
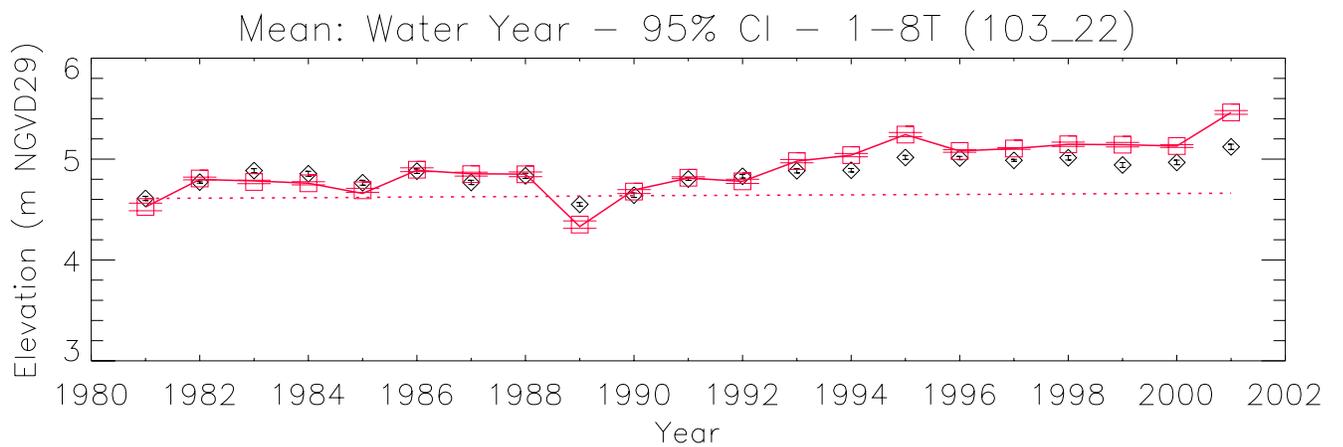
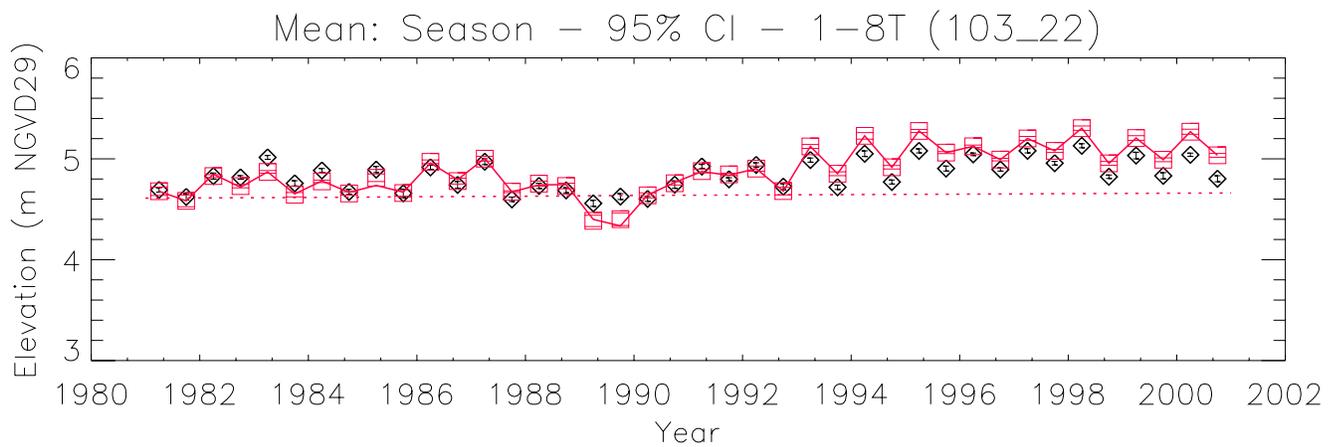
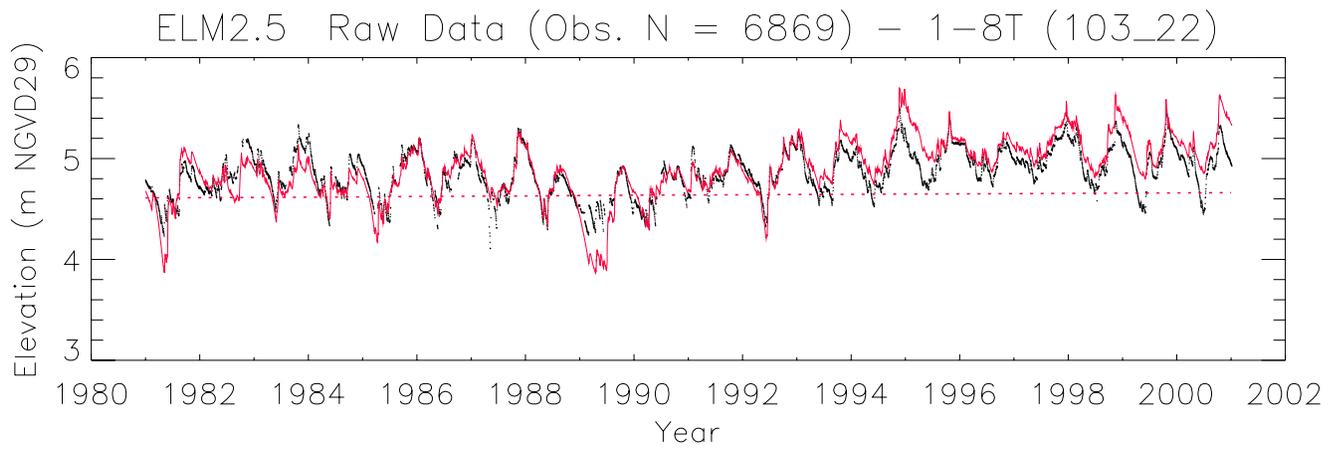
## 6.11 Appendix C: Time series & CFDs: stage

Figures C.1 – C.82. Plots of stage hydrographs and their associated Cumulative Frequency Distributions (CFD) for the period of record 1981-2000 at each monitoring location. The sequence of the figures is based on geographic location, starting in the northwest, moving towards the southeast. A map of all sites is provided in the Model Performance Chapter.

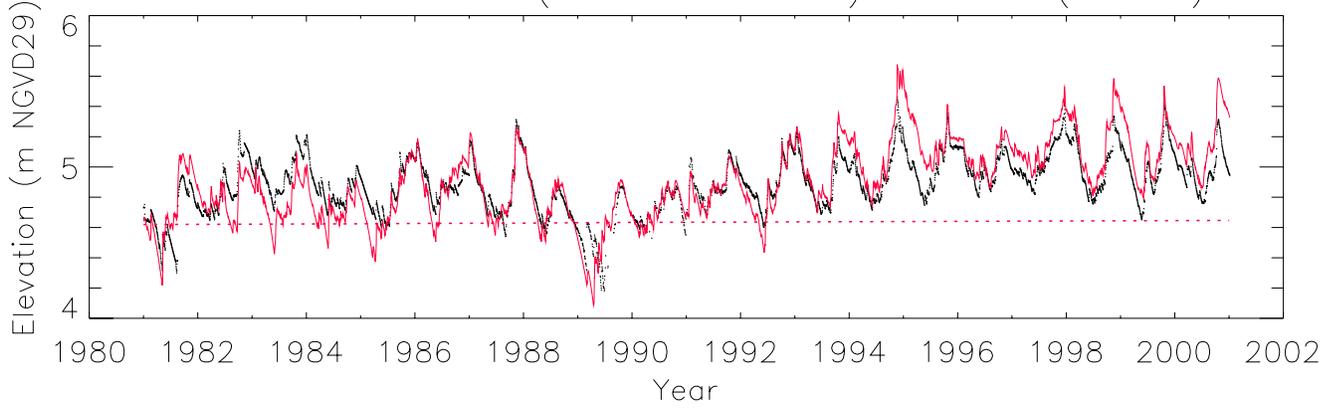
*The red dashed line in the stage hydrographs is the model grid cell's land surface elevation, which is a time-varying output variable of the model. The model grid cell column and row locations are shown in parentheses (col\_row) of each plot's title.*

- a) All data, with no temporal aggregation, of daily observations (black dots) and model results (red line).
- b) All data were aggregated into arithmetic mean values by wet and dry seasons within water years; the continuous lines pass through mean of all daily data points for each season; the mean of paired simulated & observed values are shown in red boxes and black diamonds, respectively; the 95% Confidence Interval (CI) of the paired means are shown by the "\_\_\_" symbols in the red for the model and black for the observed data.
- c) All data aggregated into arithmetic mean values by water year, with the same treatment as in plot b).
- d) The cumulative frequency distributions of the simulated and observed (raw, un-aggregated) data; the 95% confidence interval for observed data is shown in the dashed black lines. Note that only paired simulated and observed data points are used.

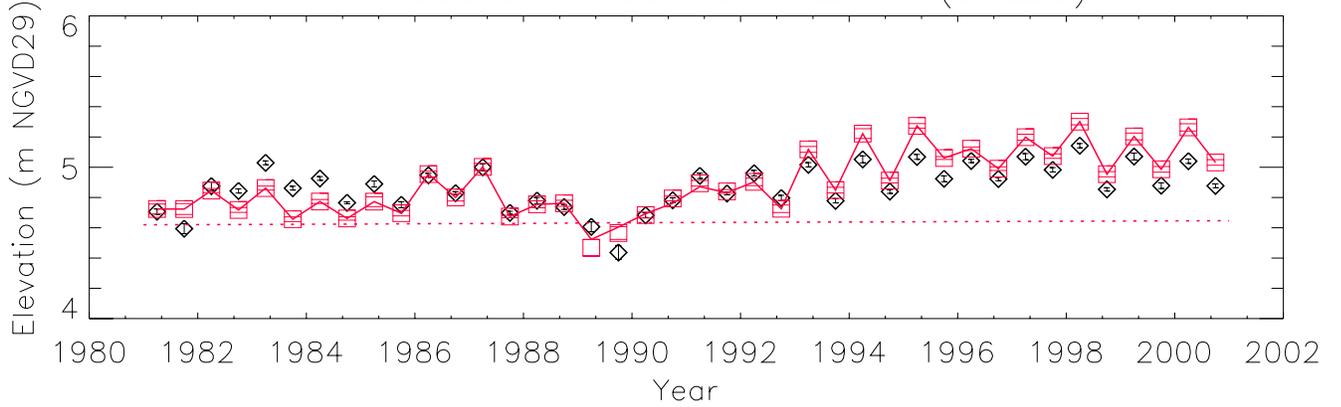




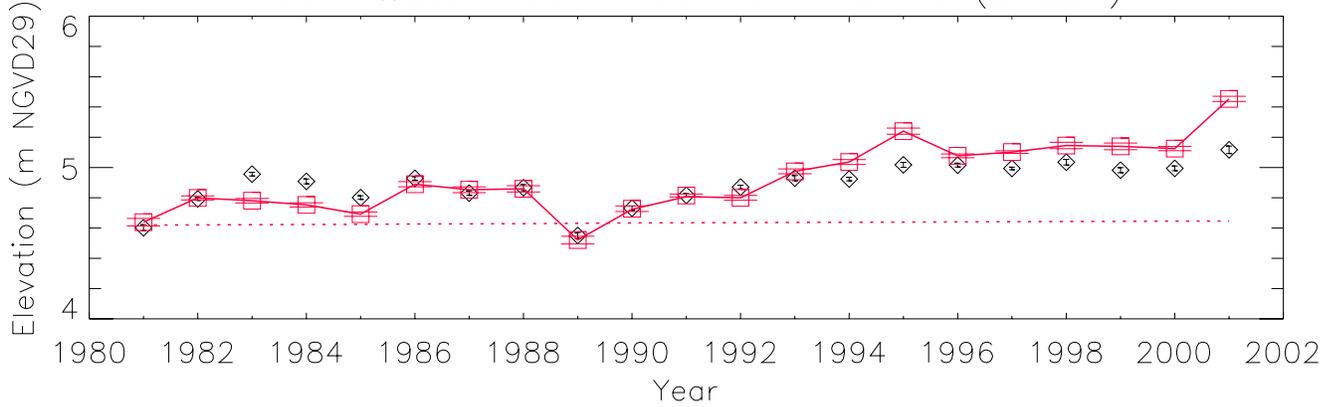
ELM2.5 Raw Data (Obs. N = 6879) - \_1-9 (97\_26)



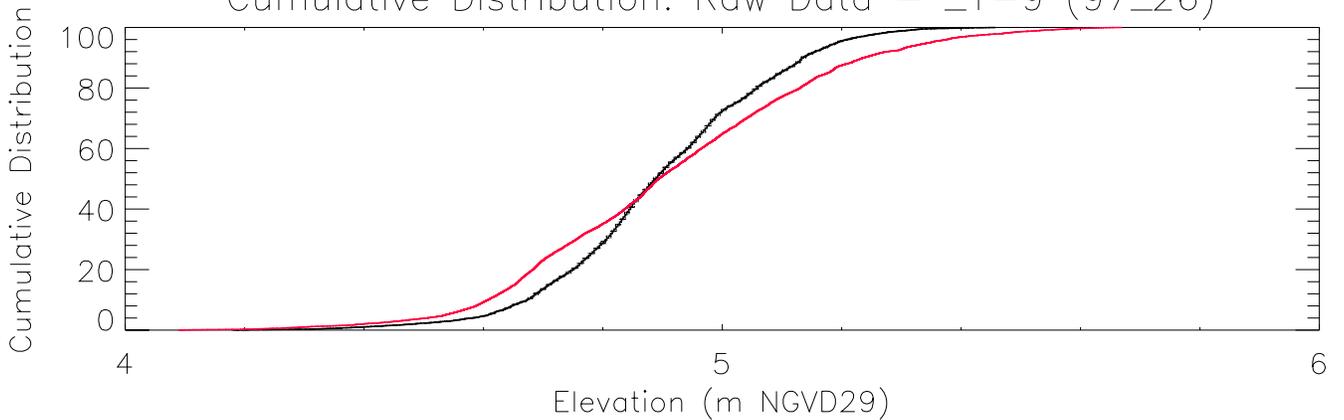
Mean: Season - 95% CI - \_1-9 (97\_26)

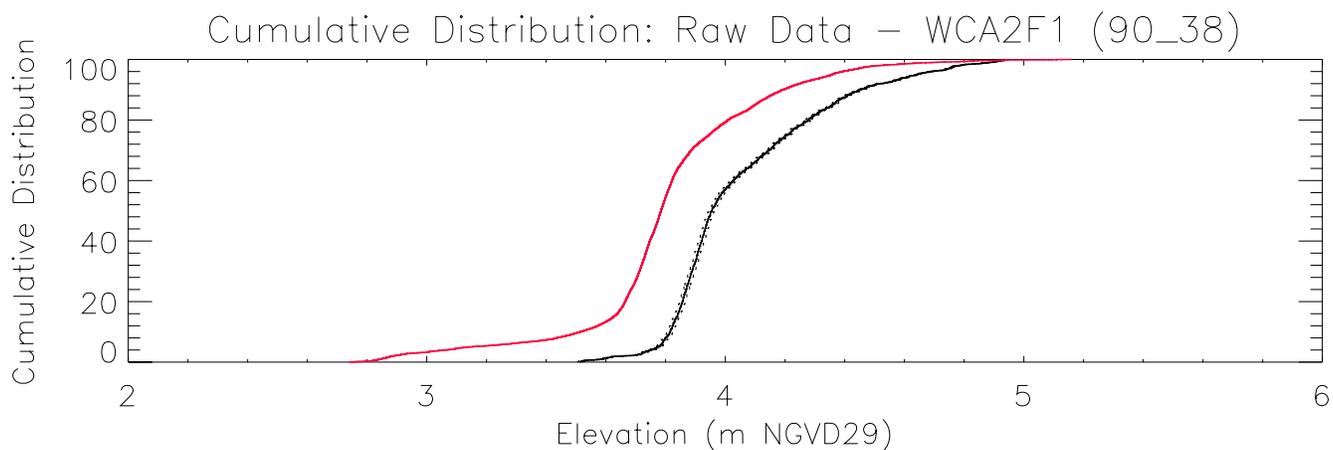
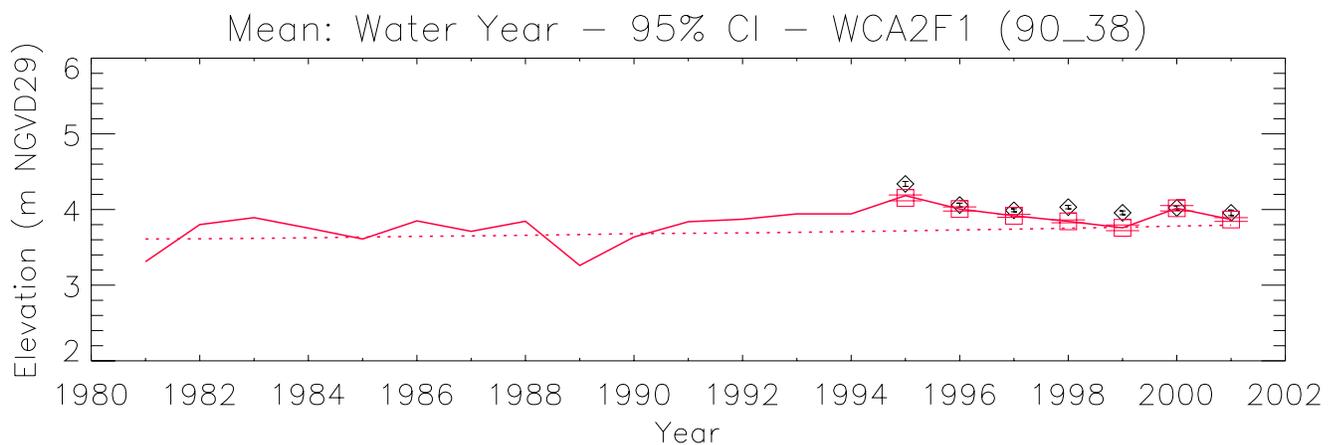
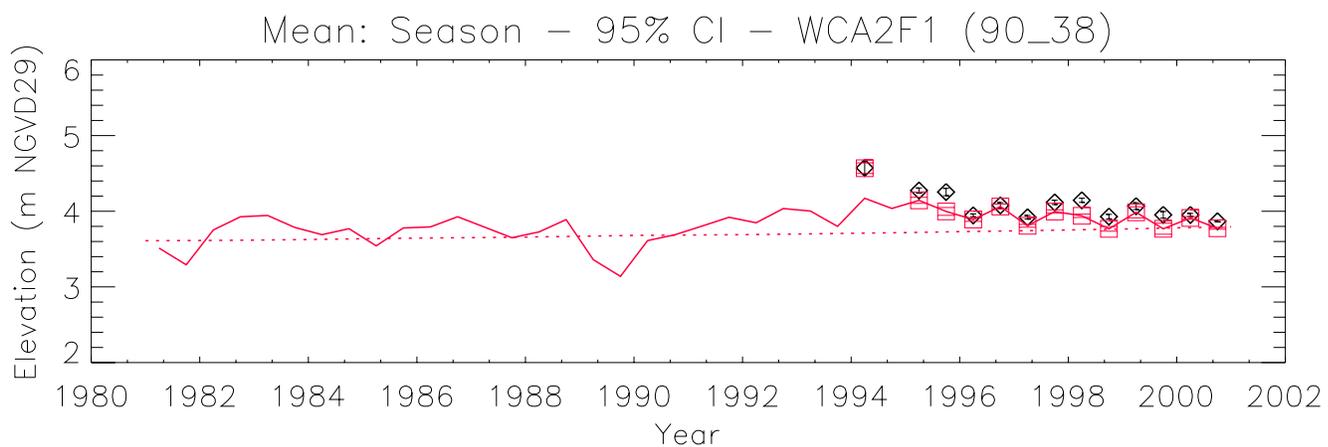
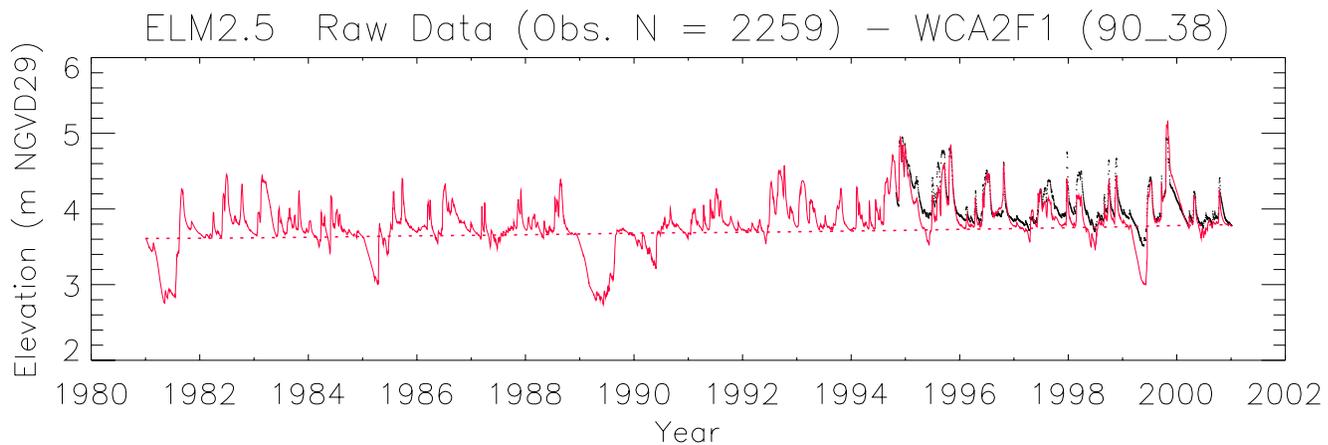


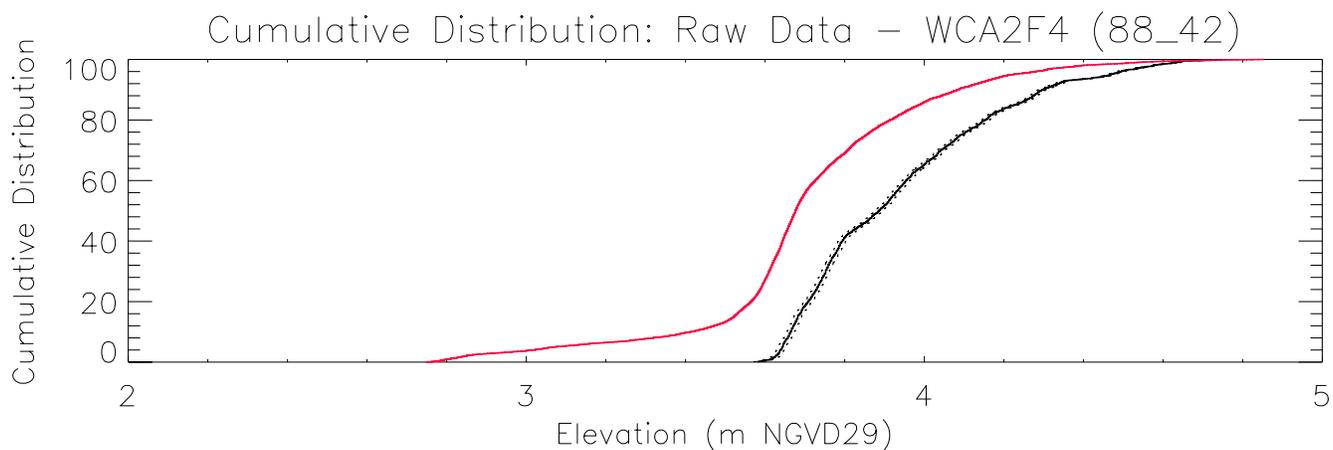
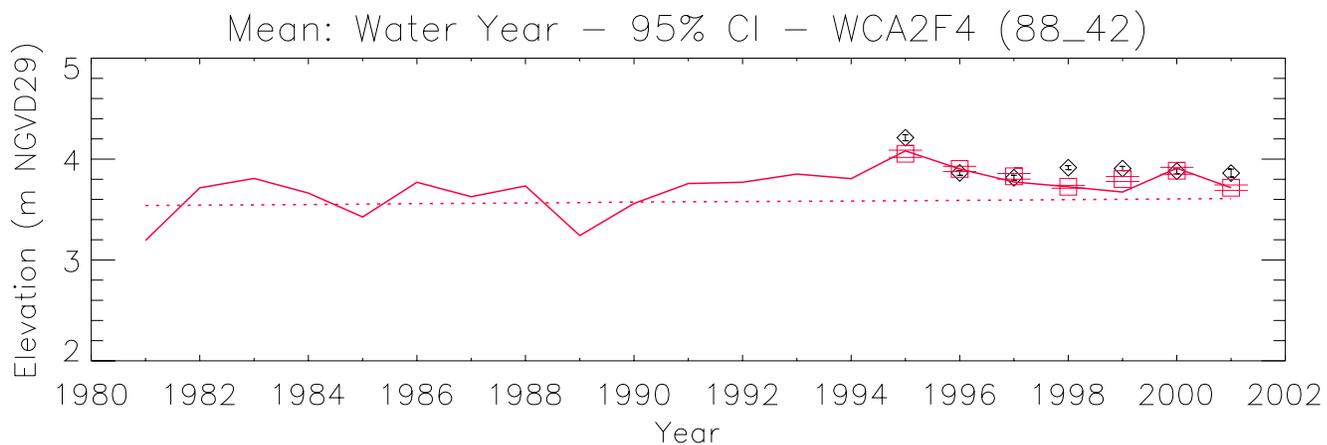
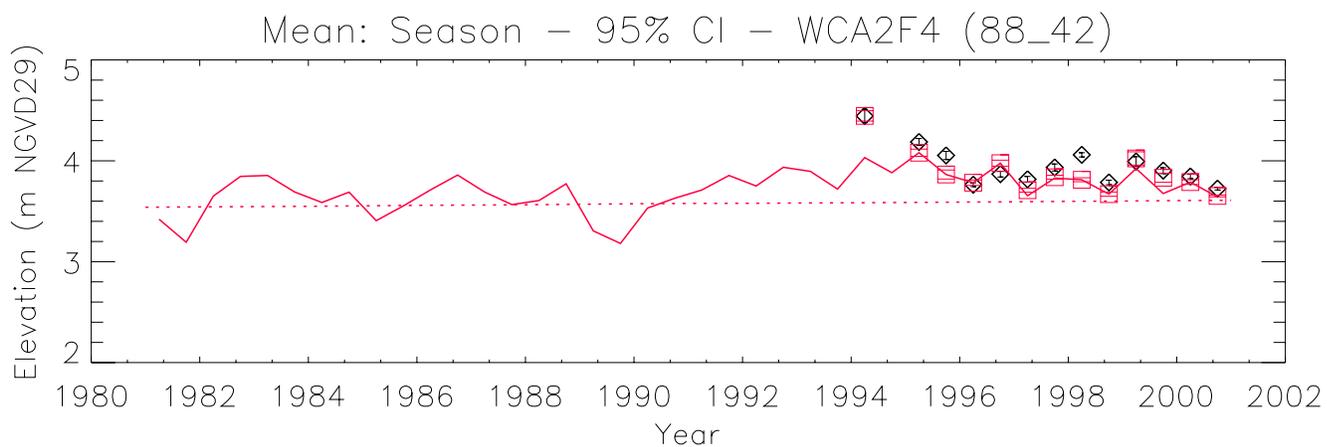
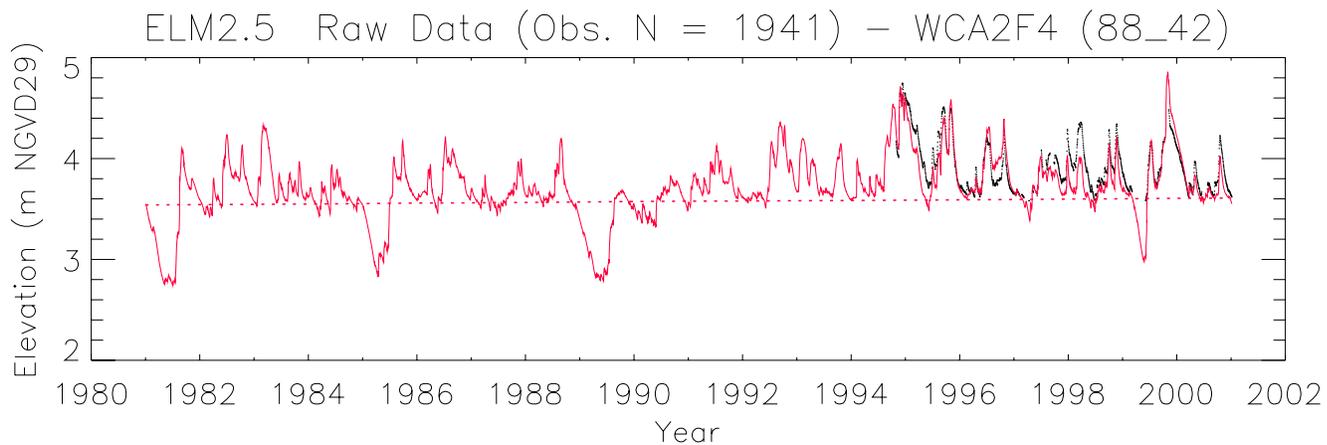
Mean: Water Year - 95% CI - \_1-9 (97\_26)

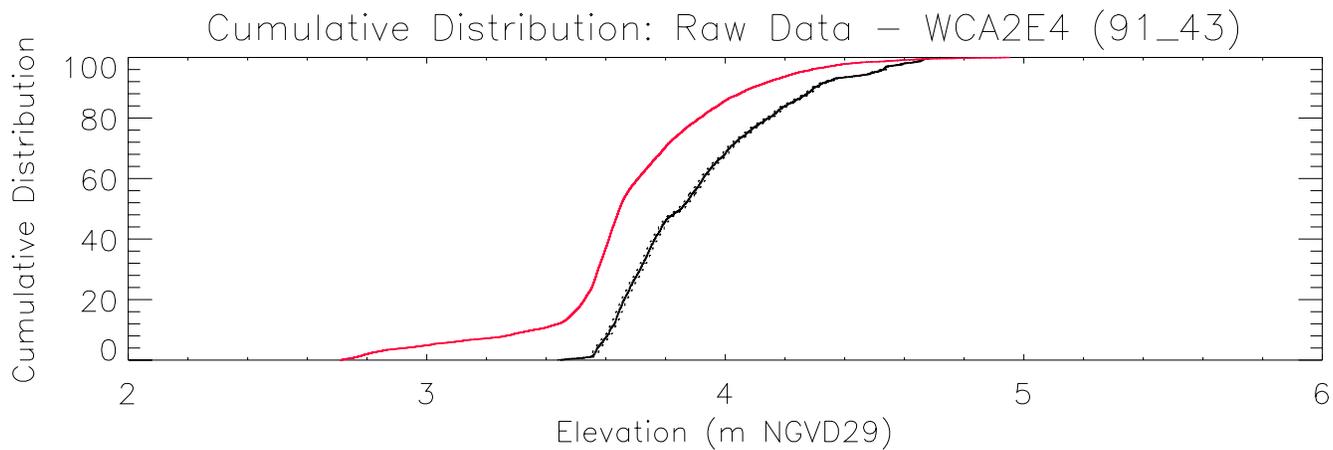
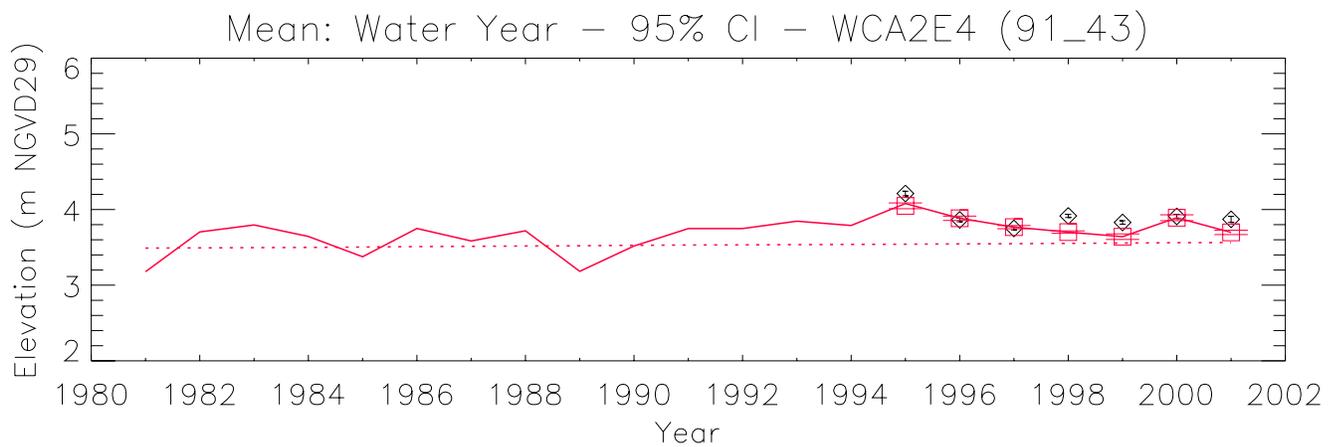
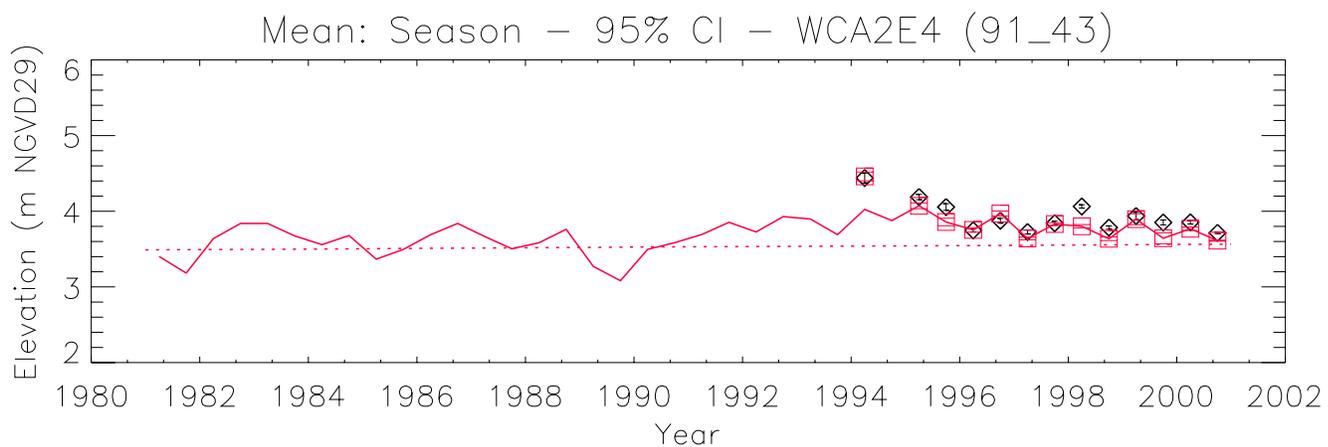
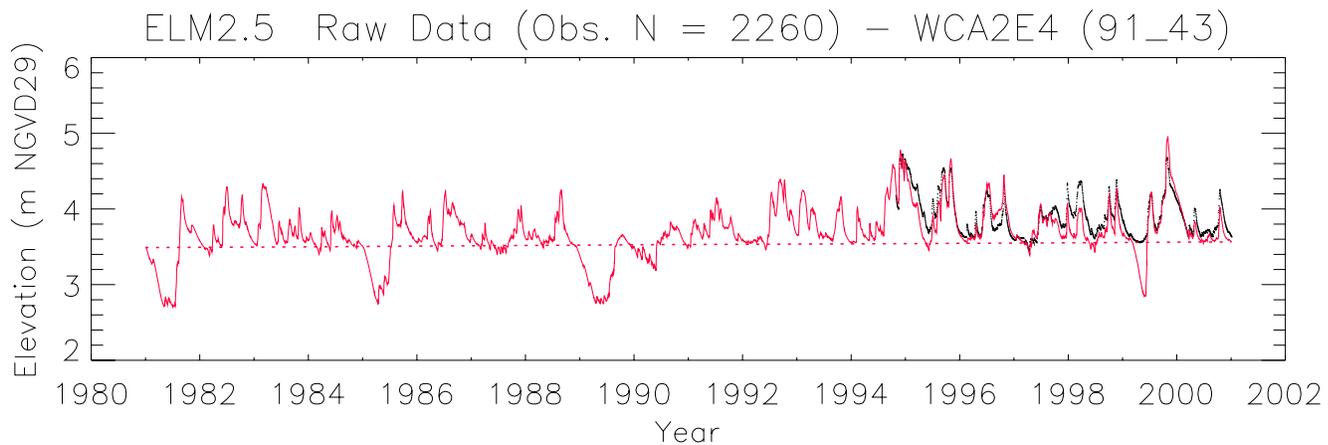


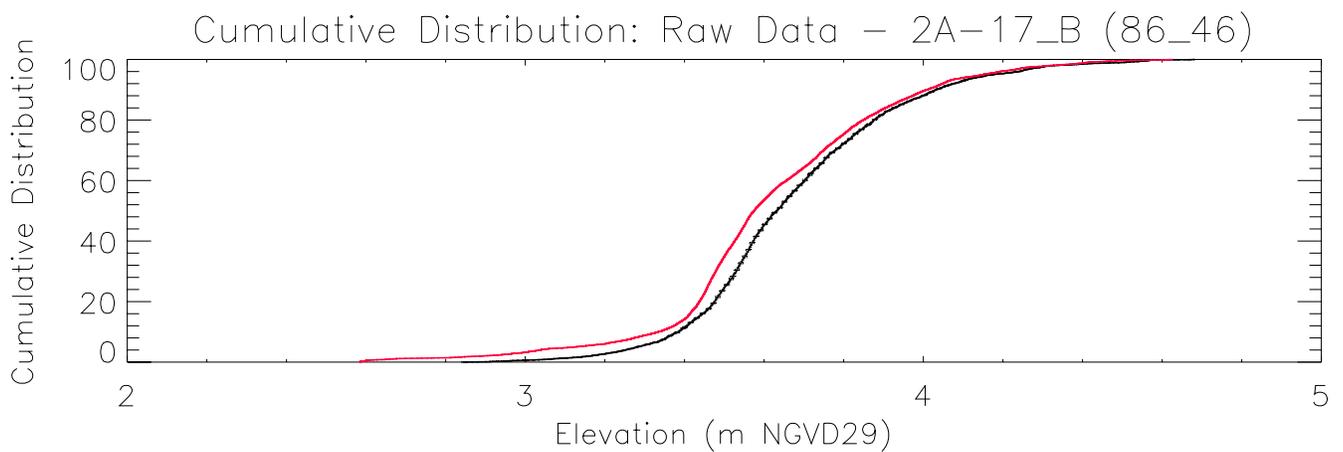
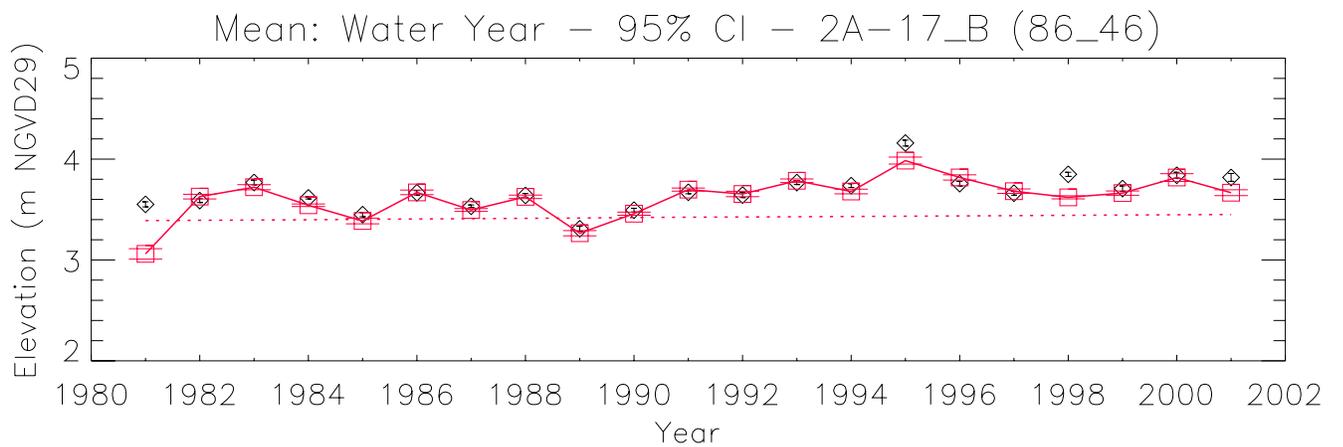
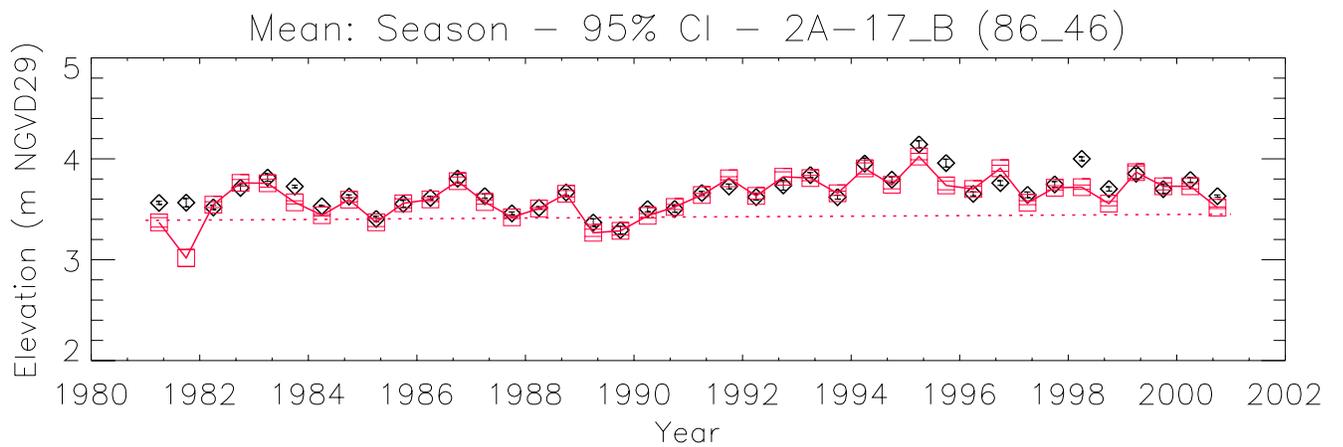
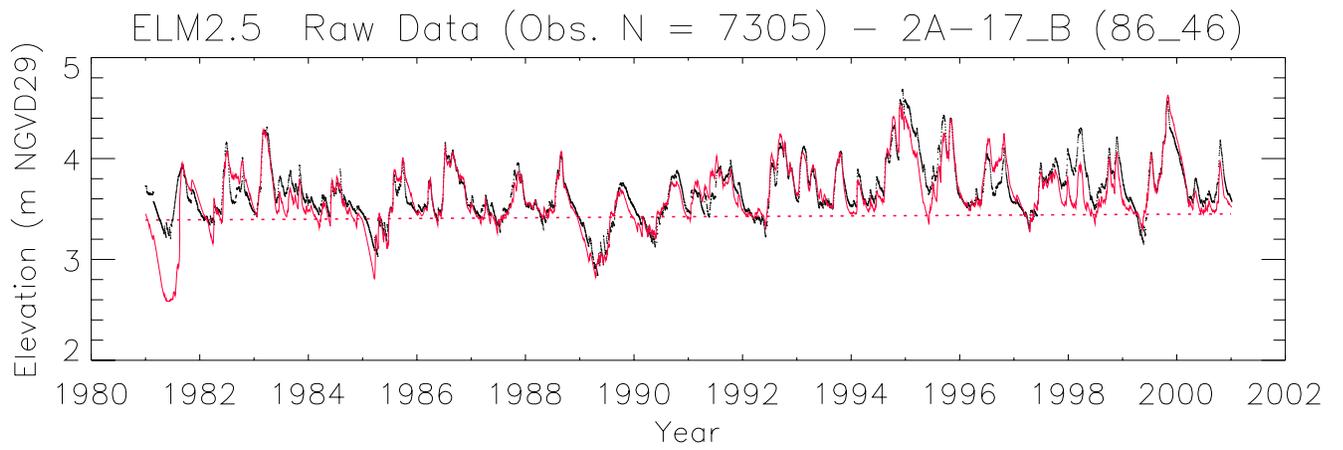
Cumulative Distribution: Raw Data - \_1-9 (97\_26)

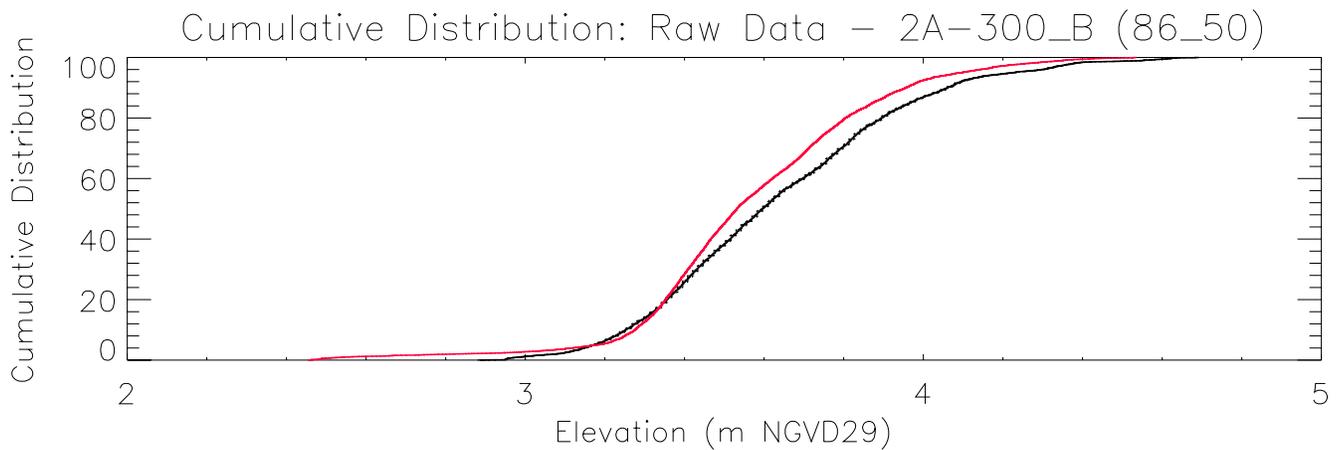
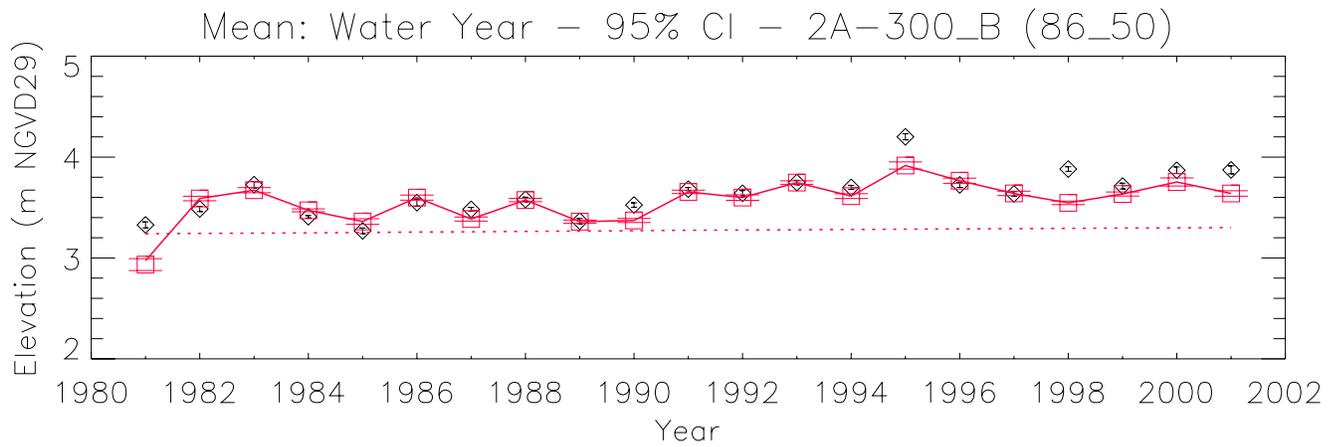
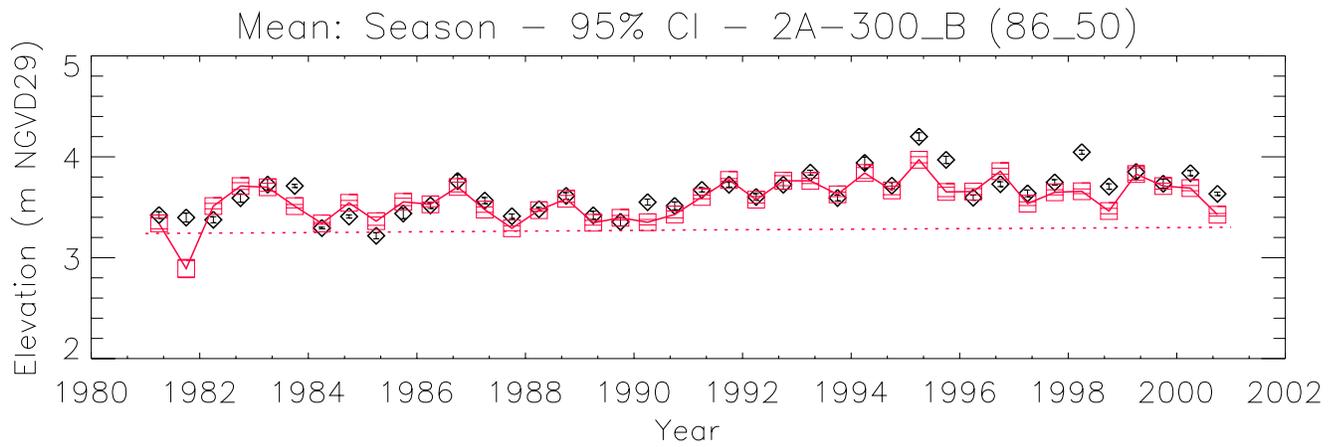
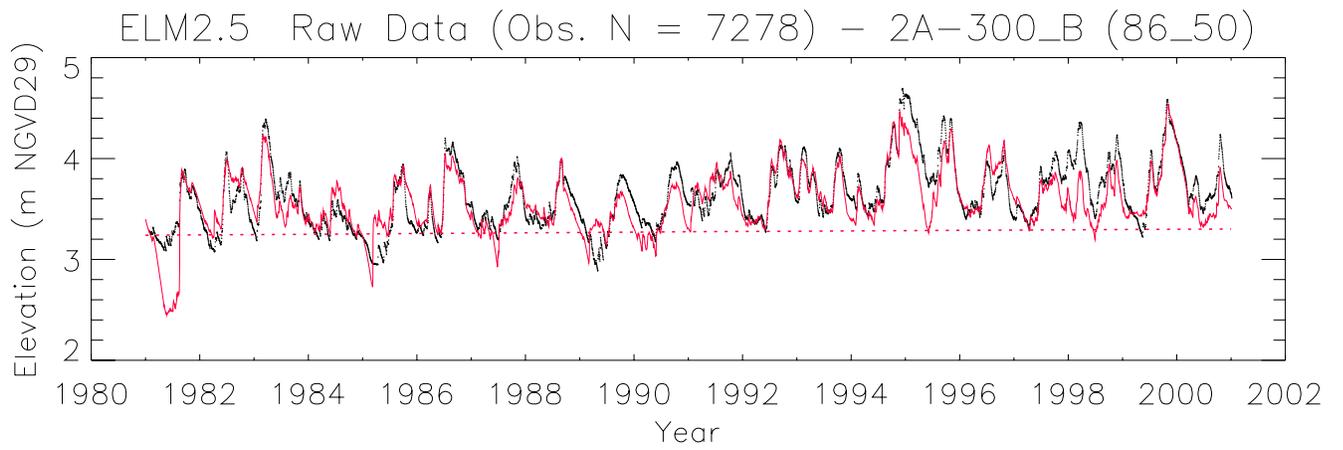


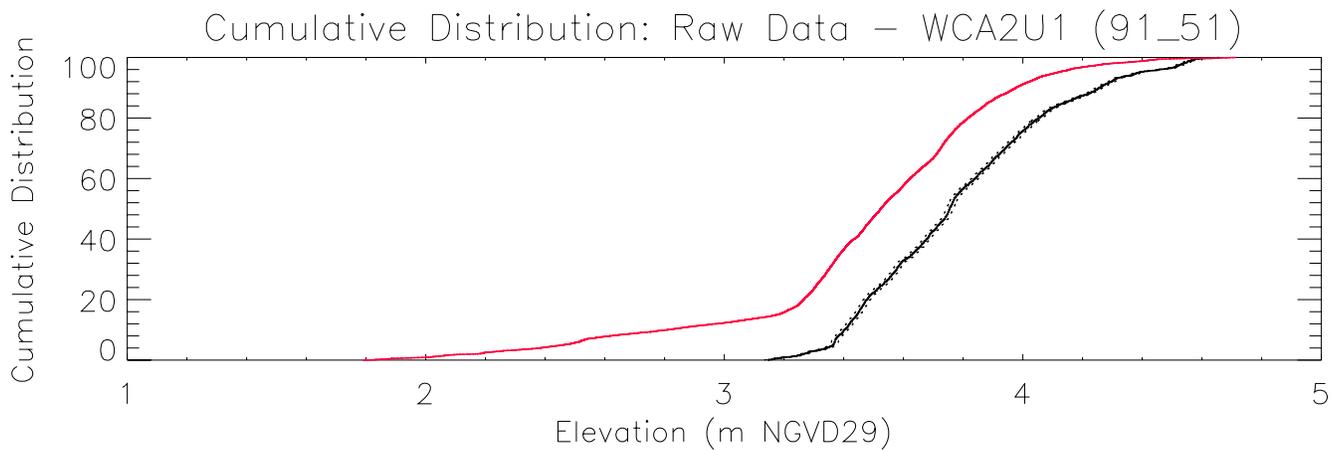
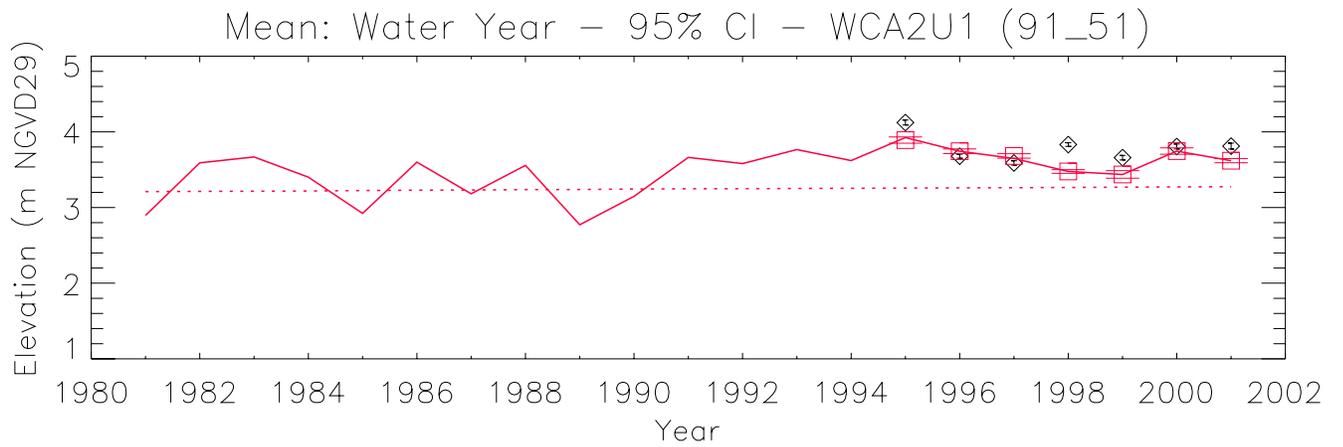
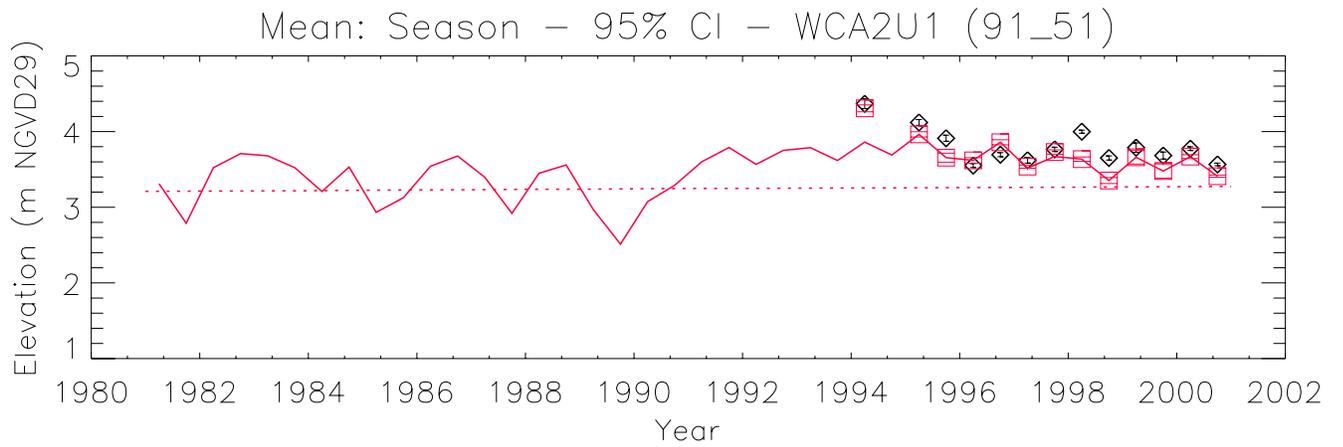
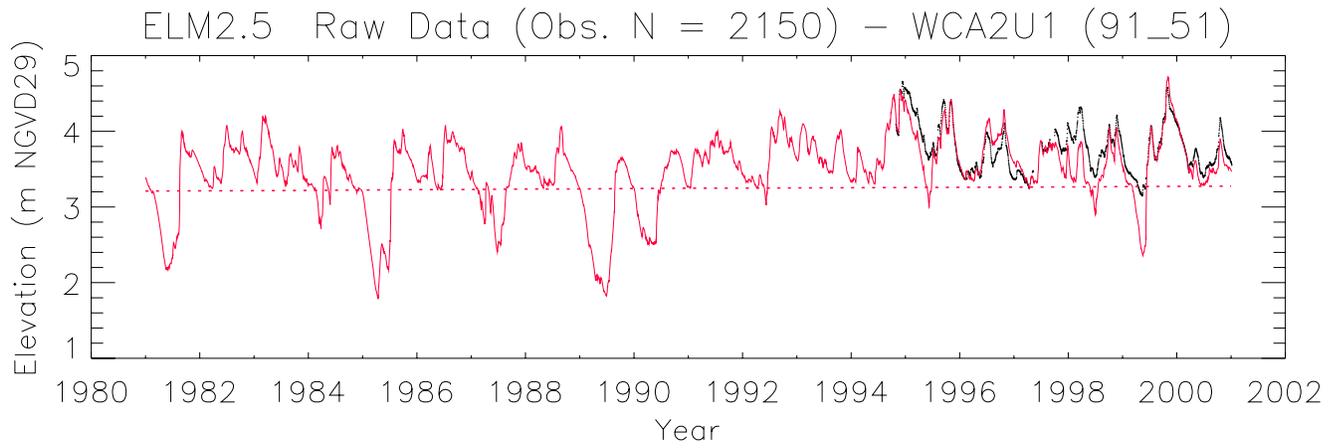


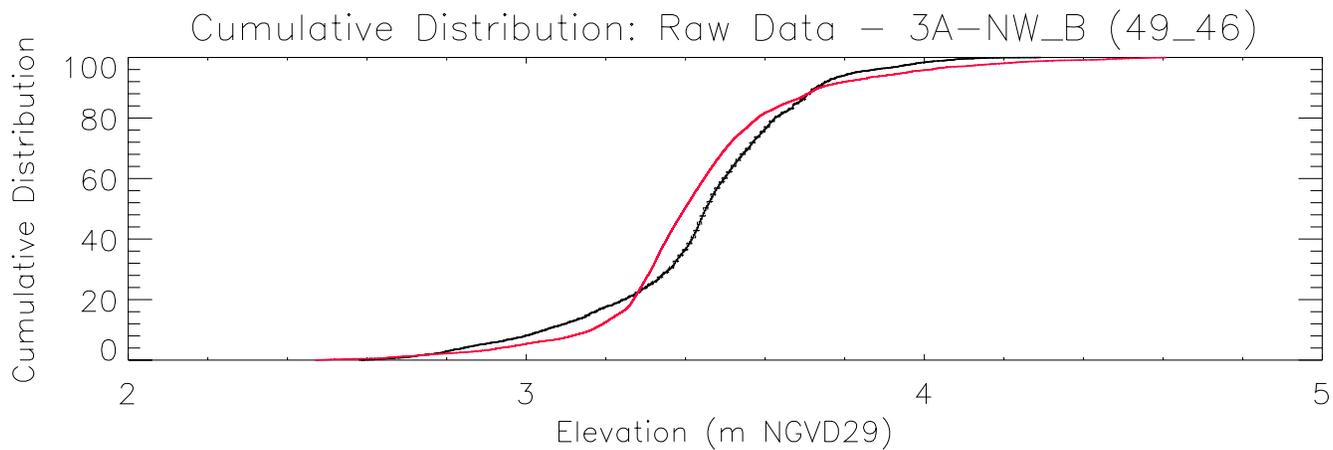
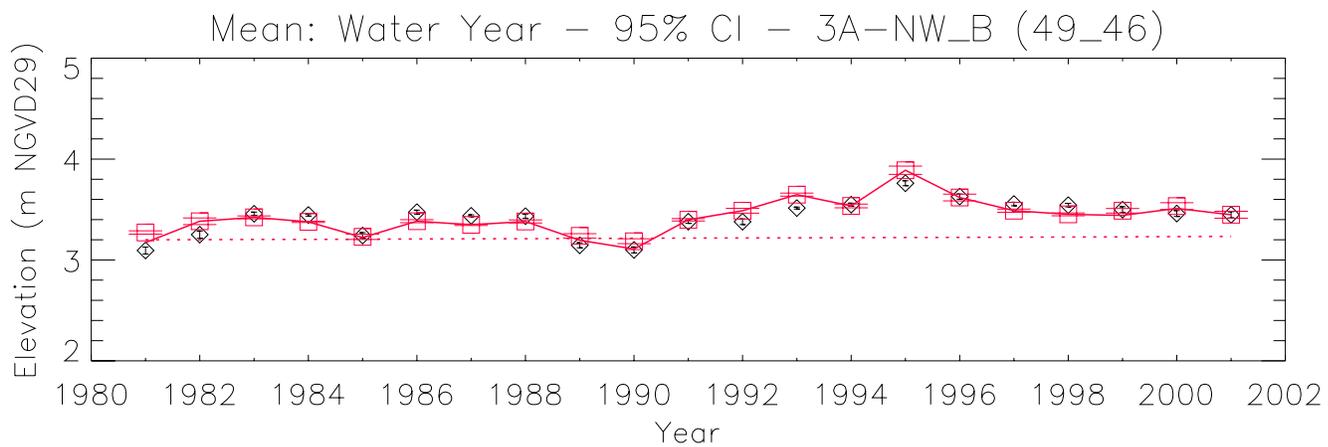
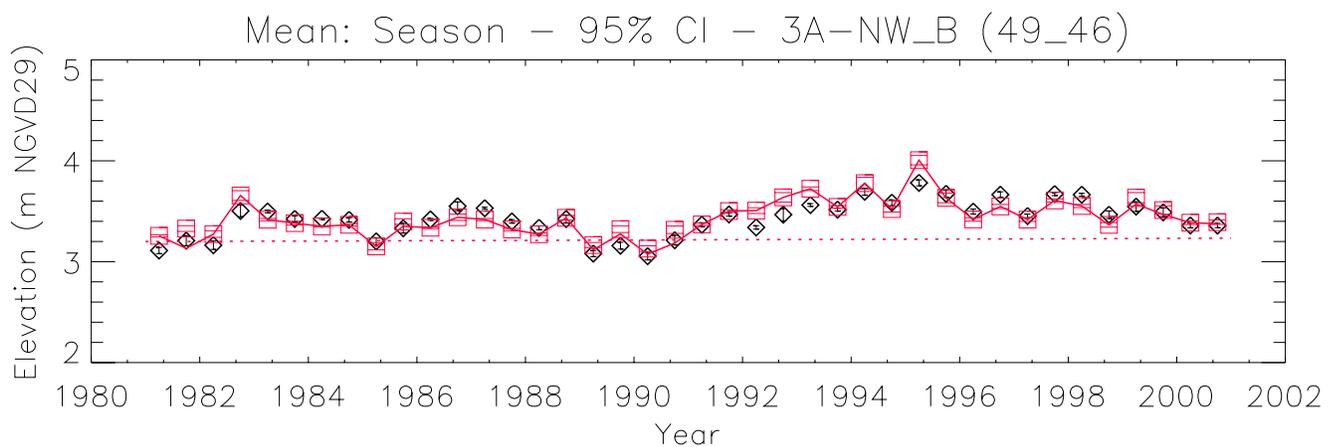
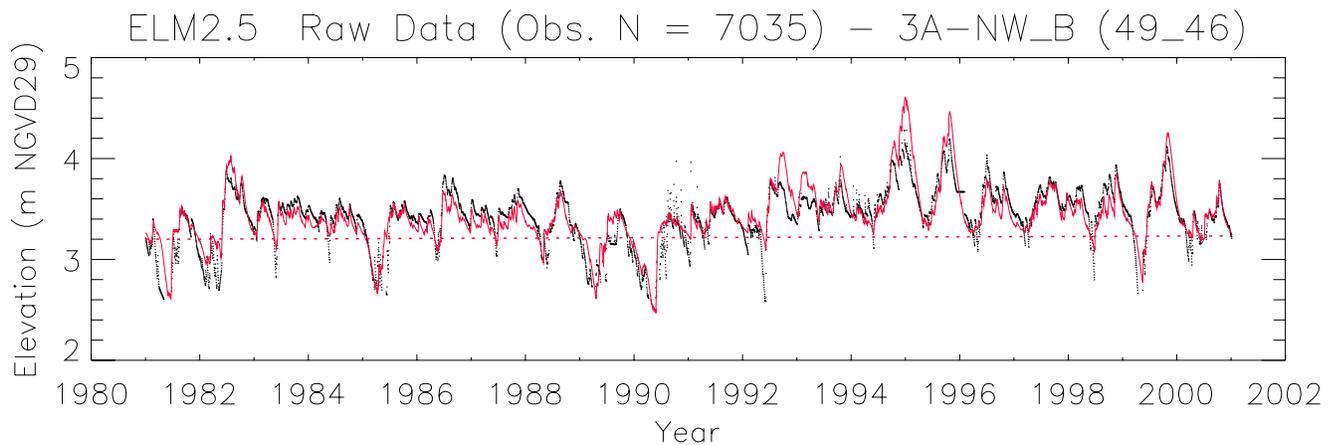


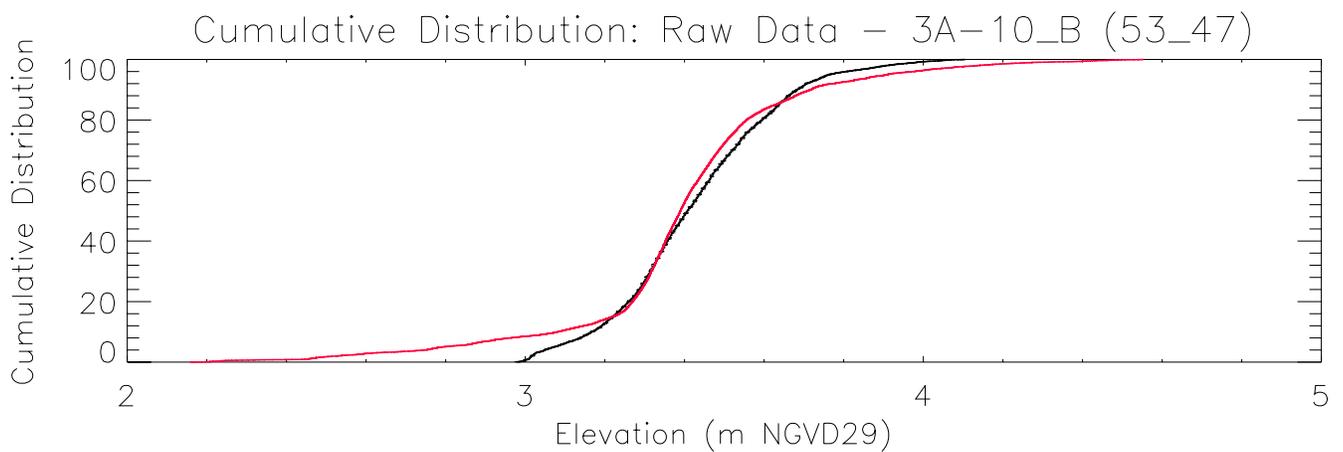
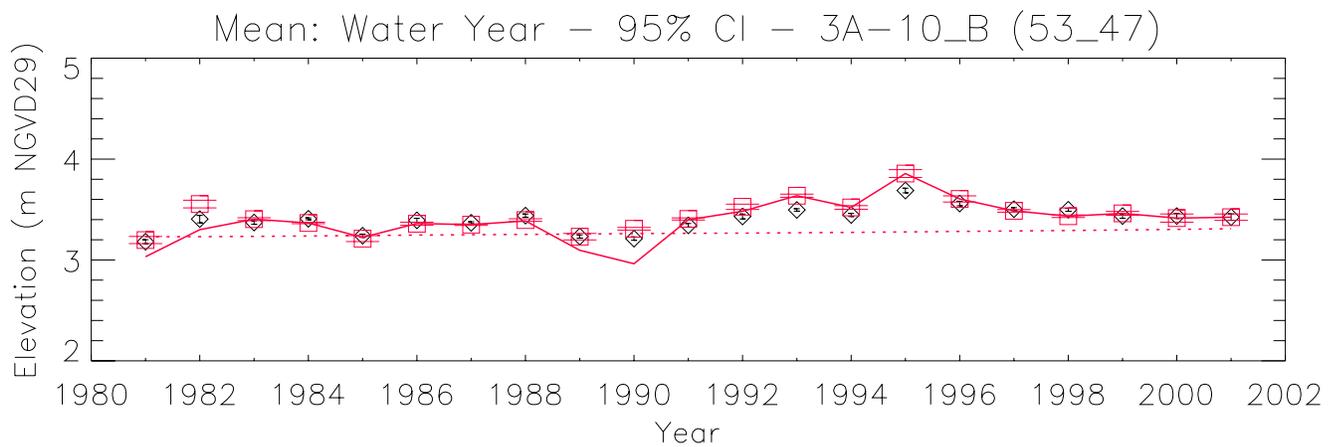
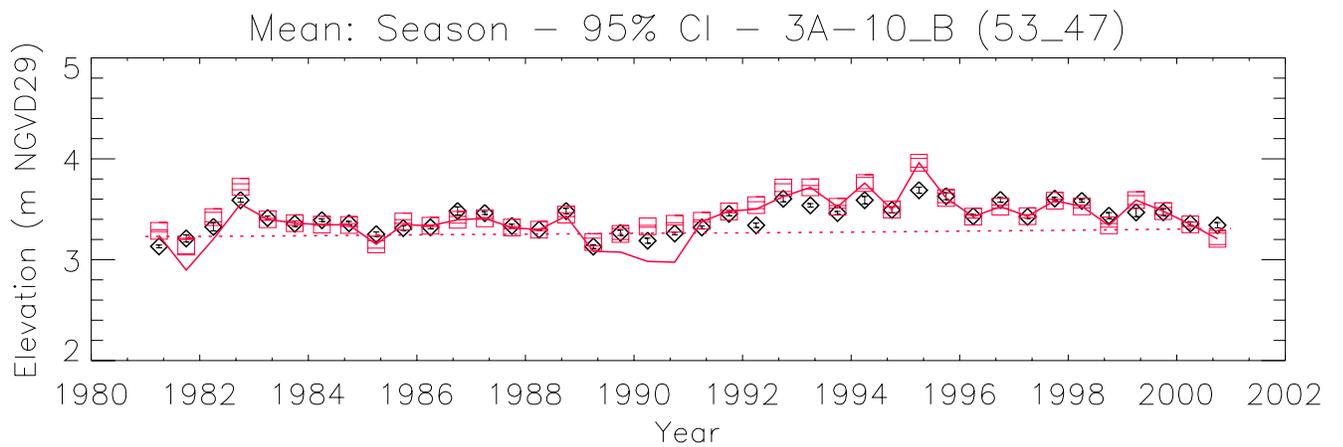
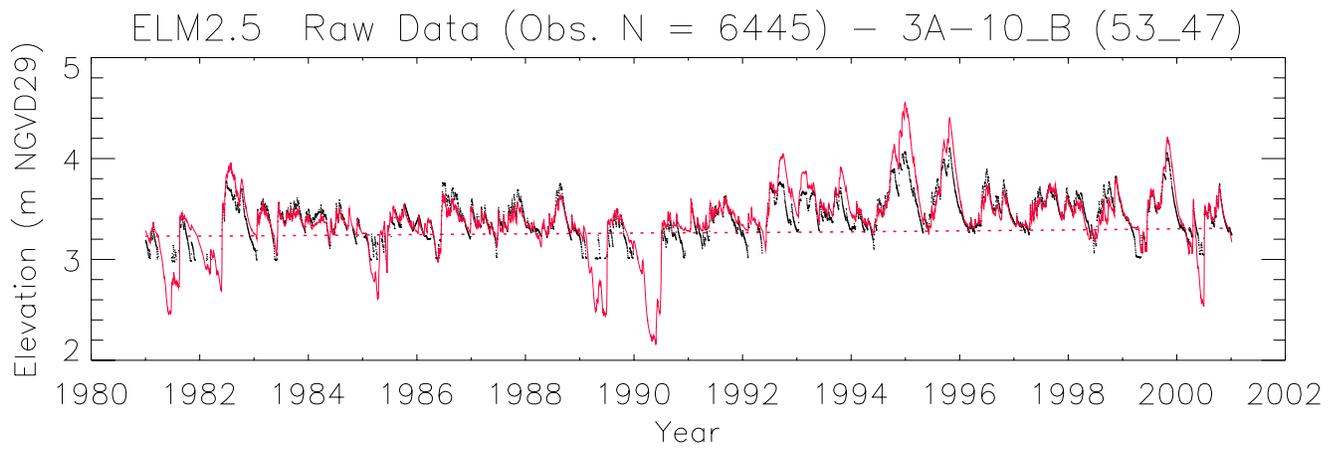


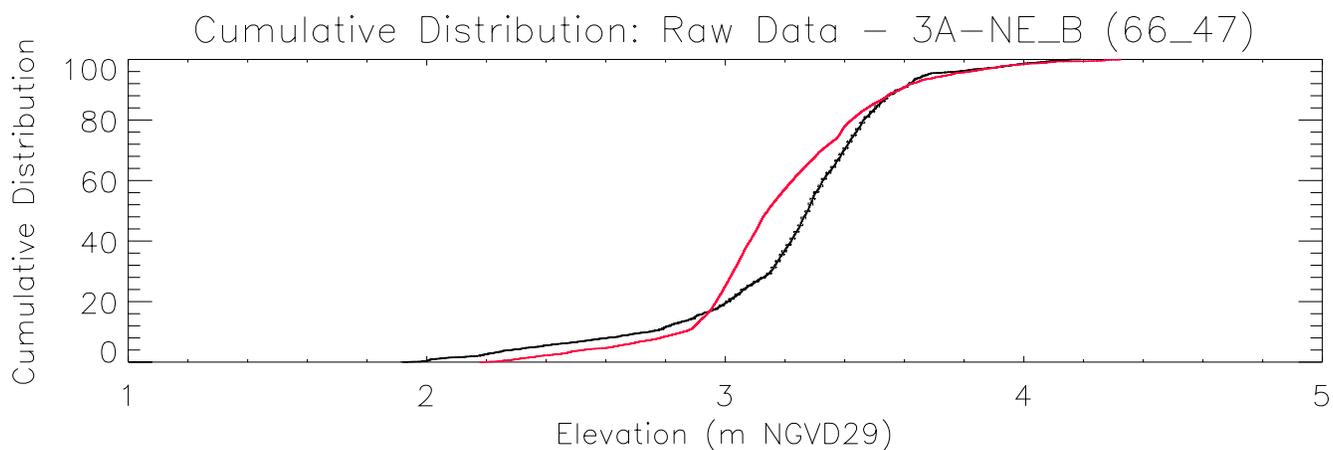
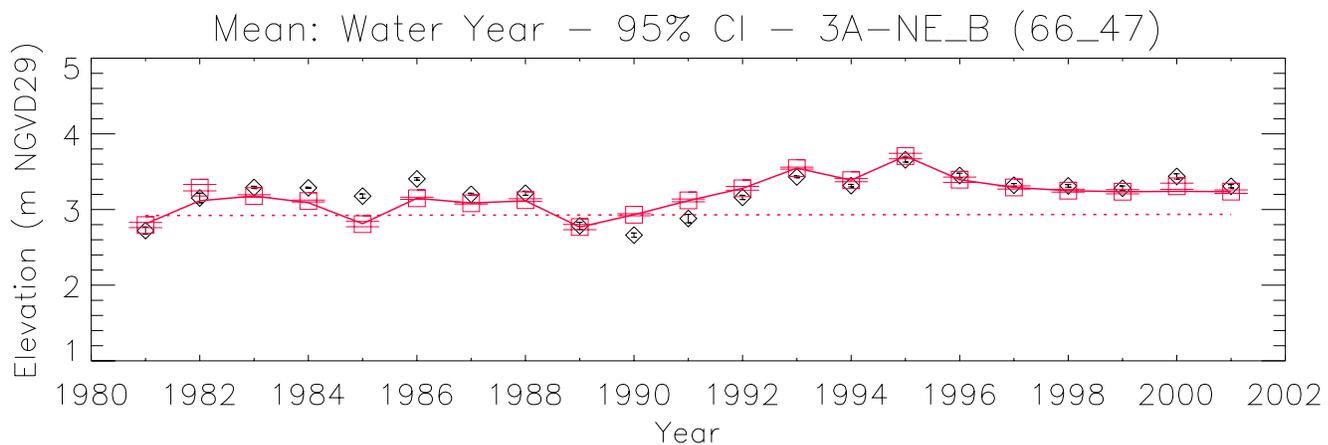
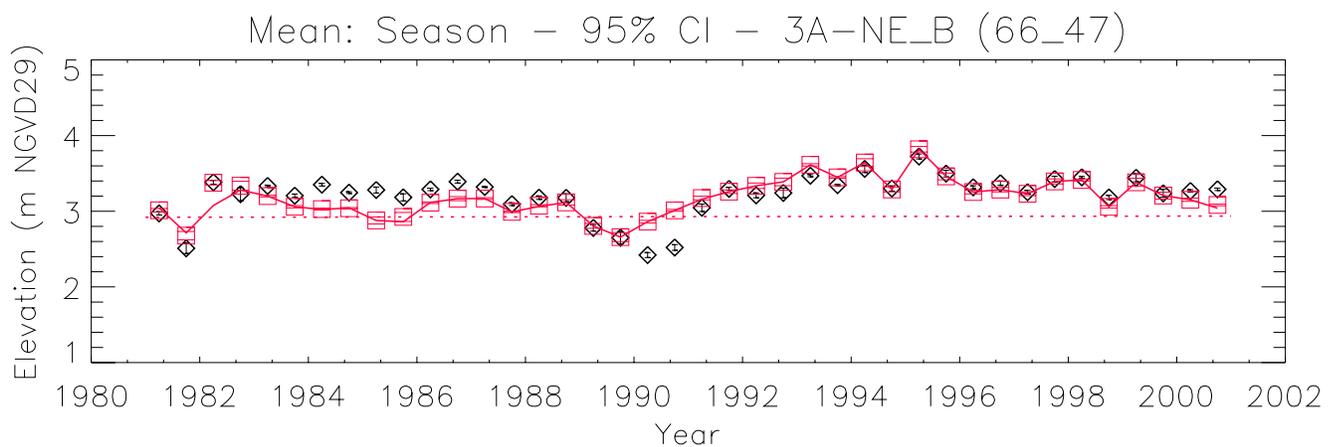
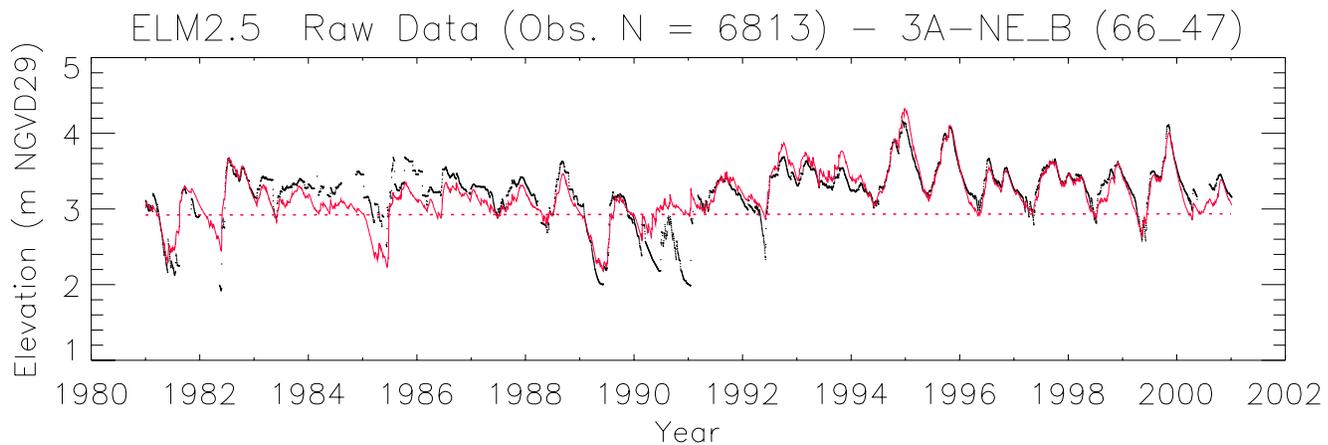


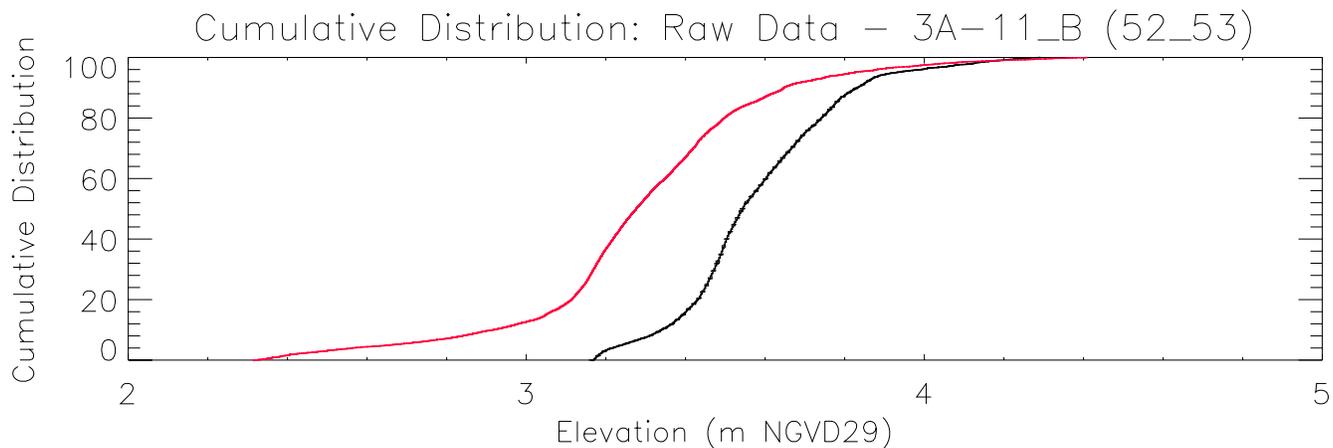
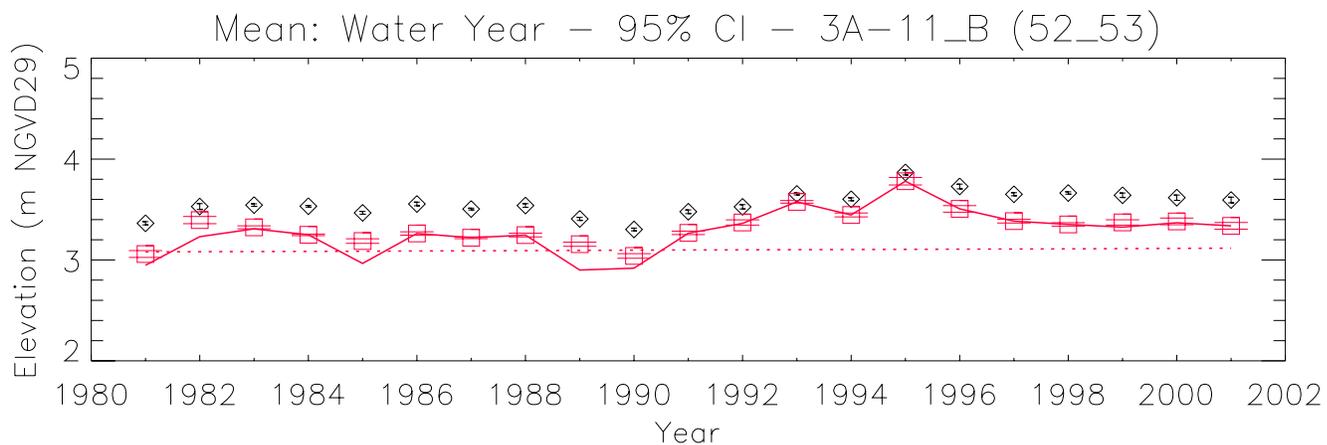
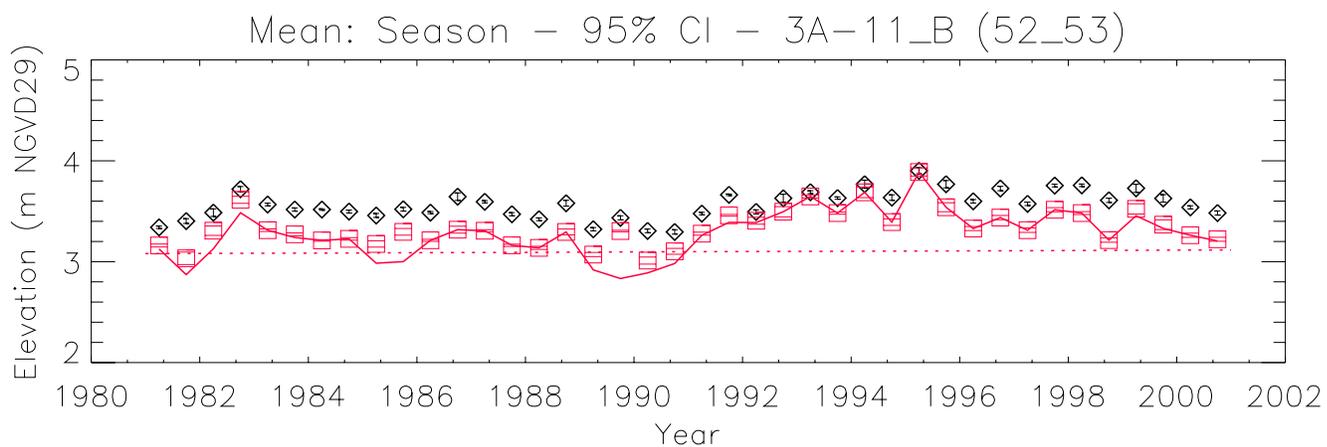
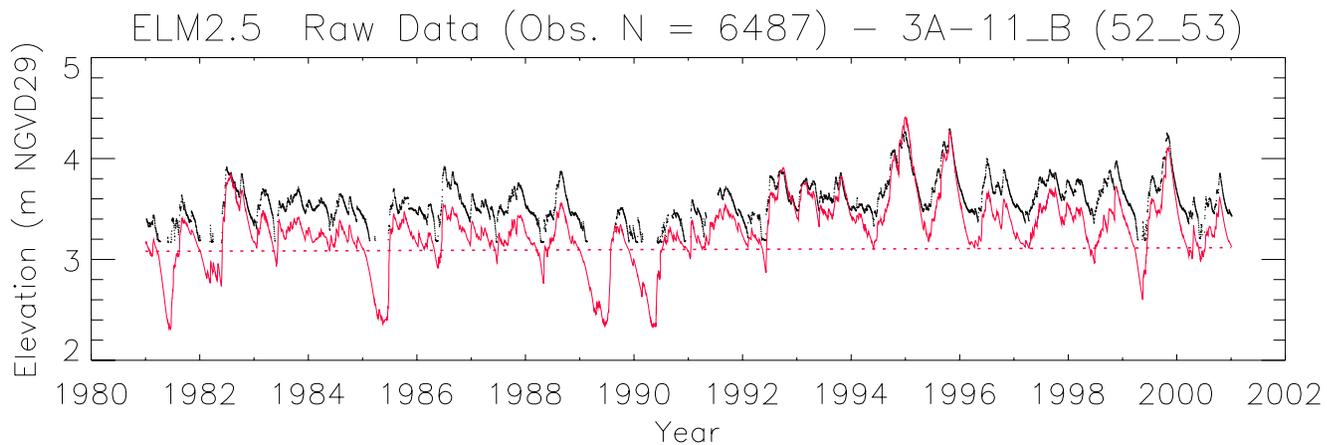


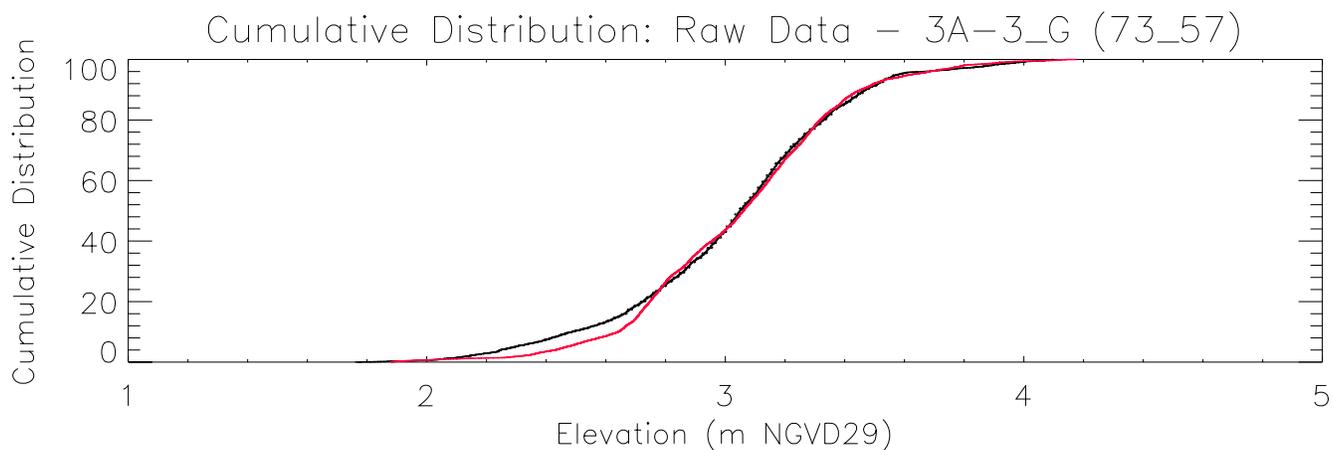
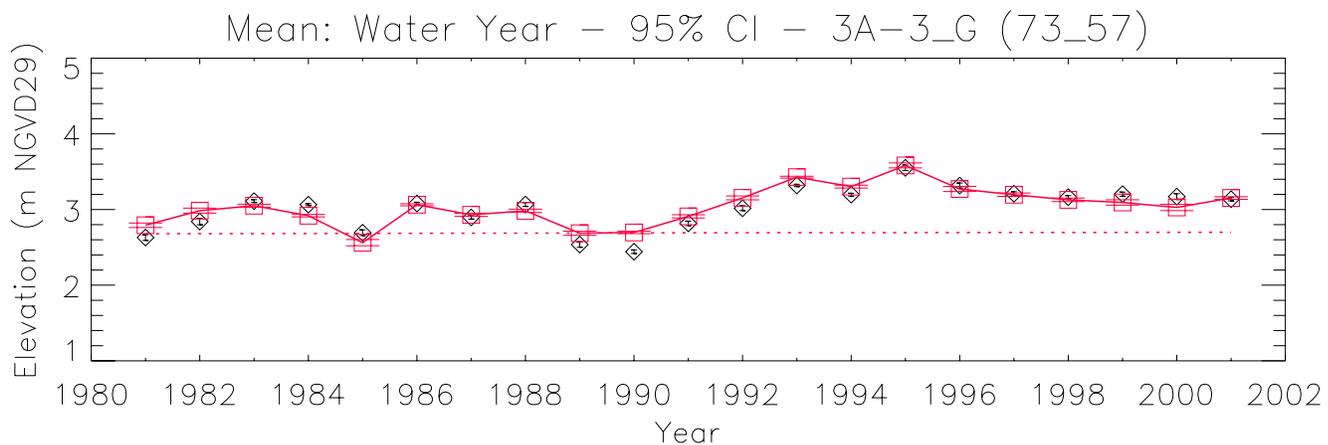
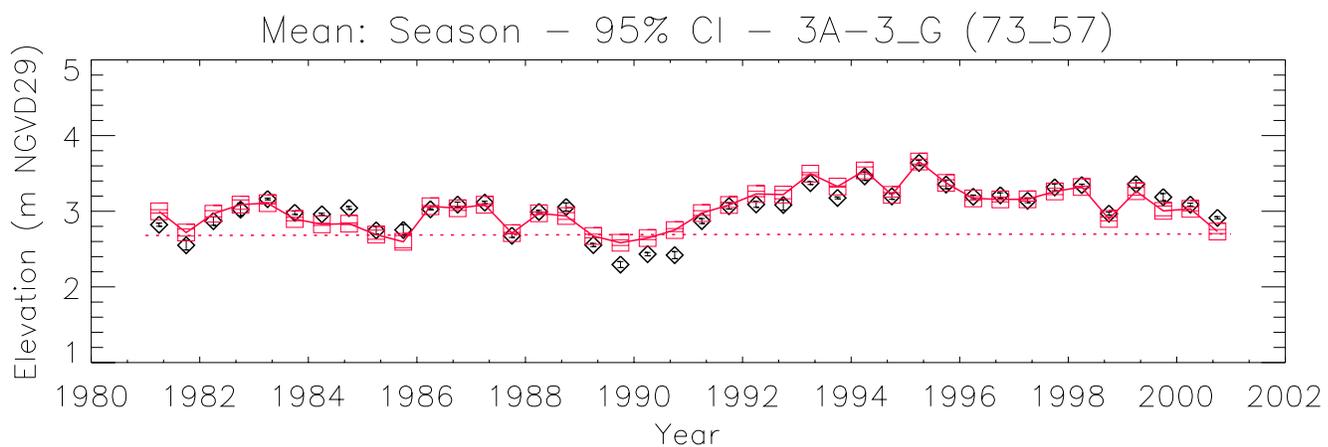
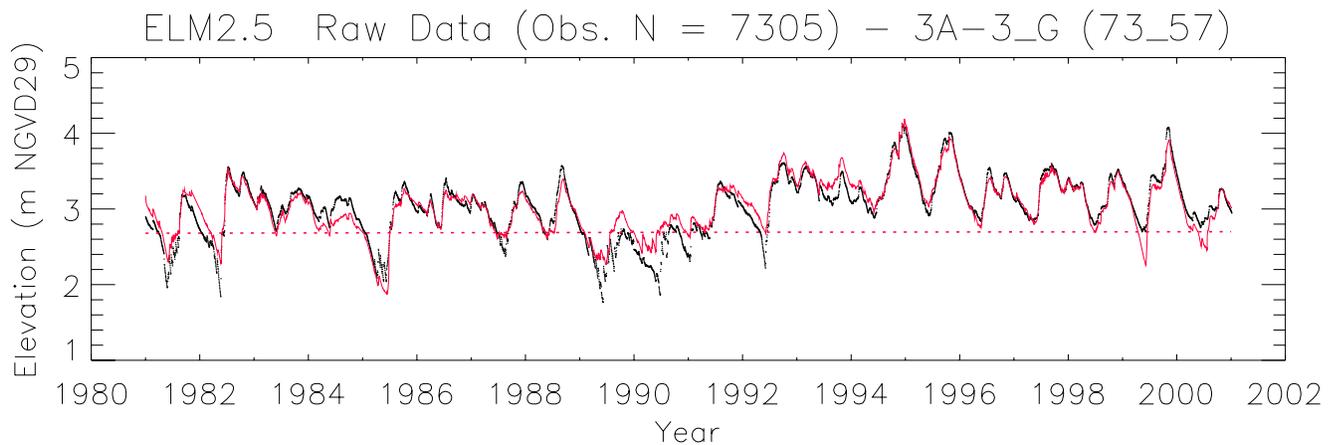


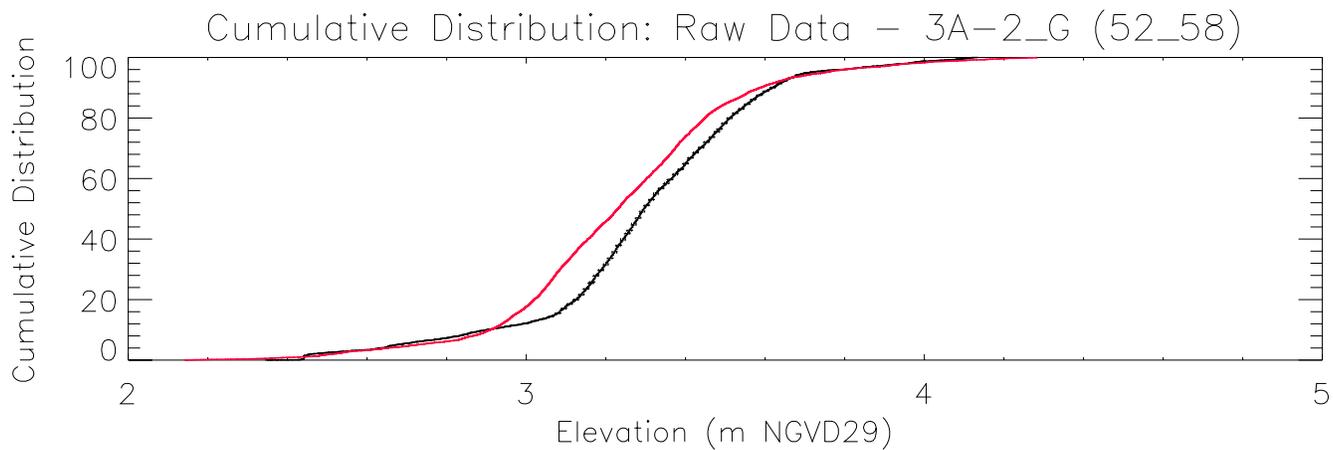
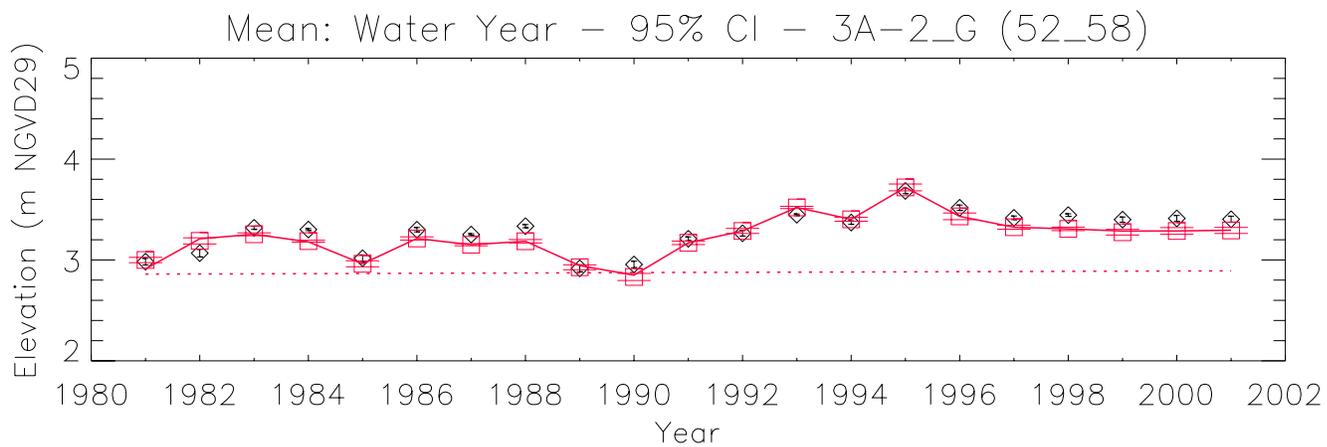
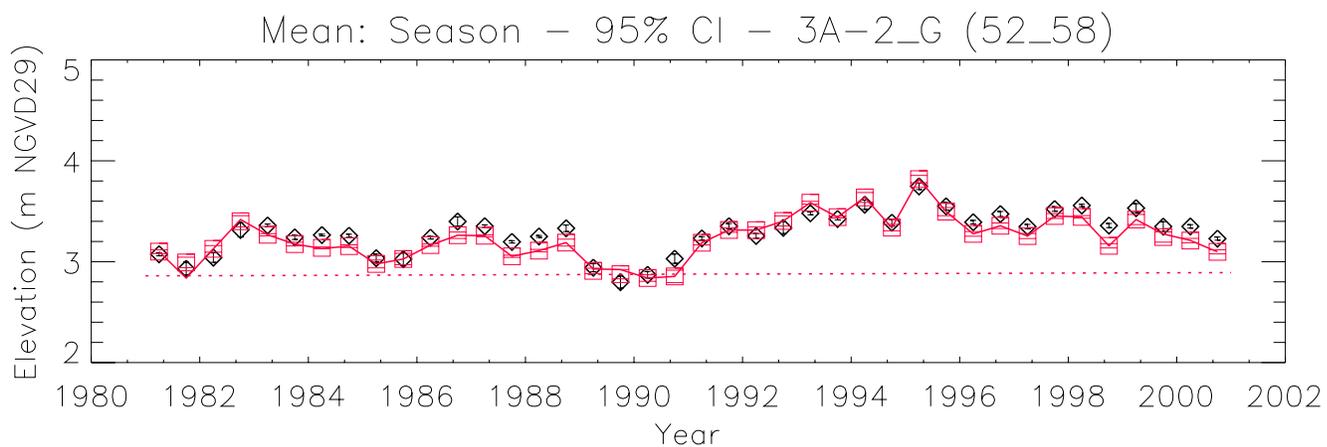
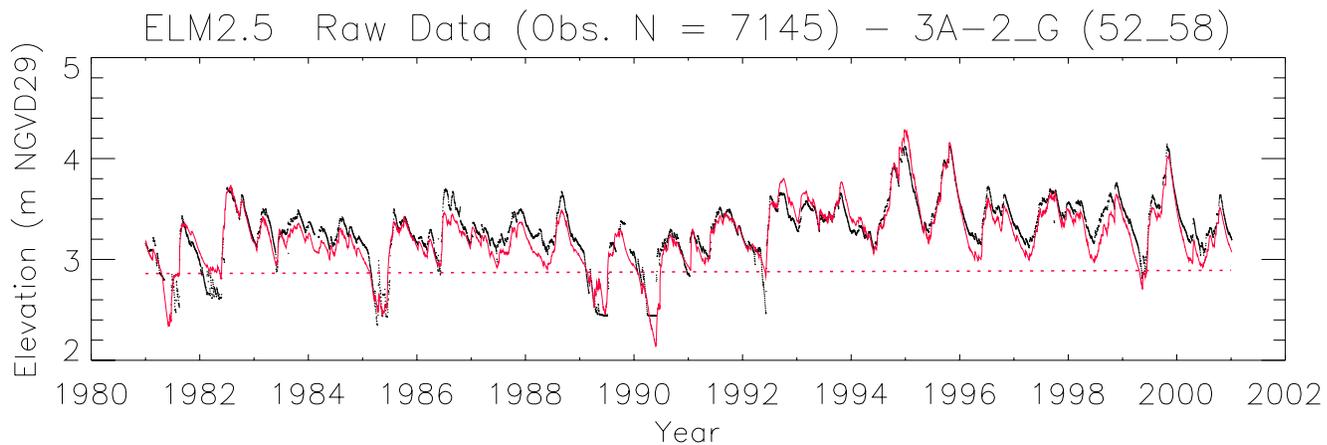


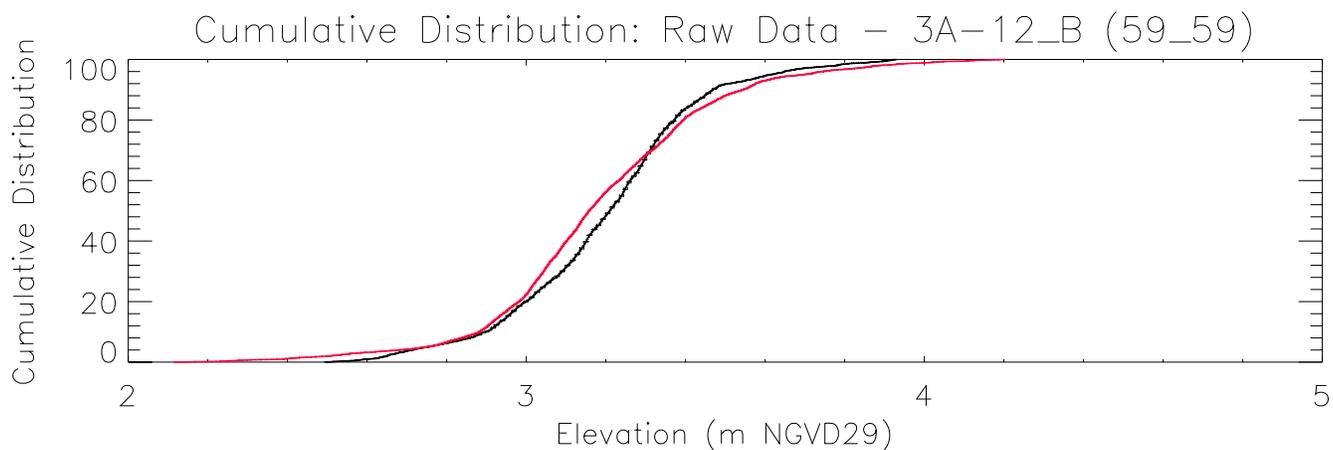
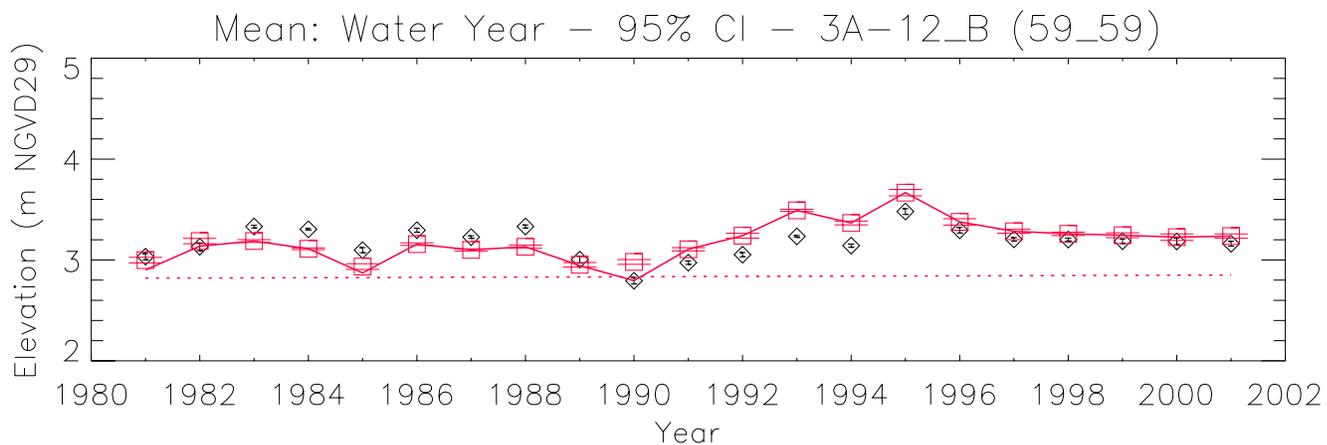
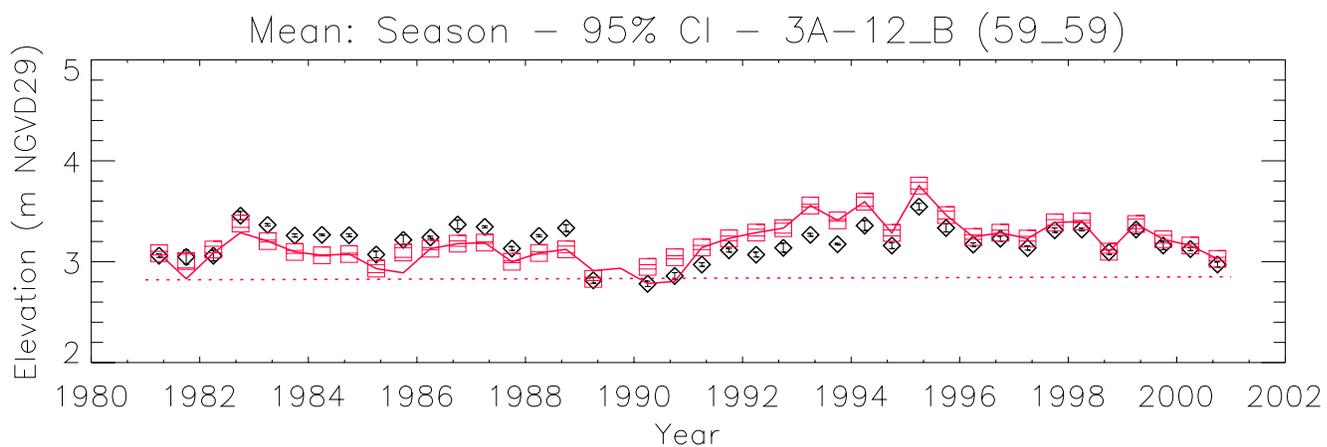
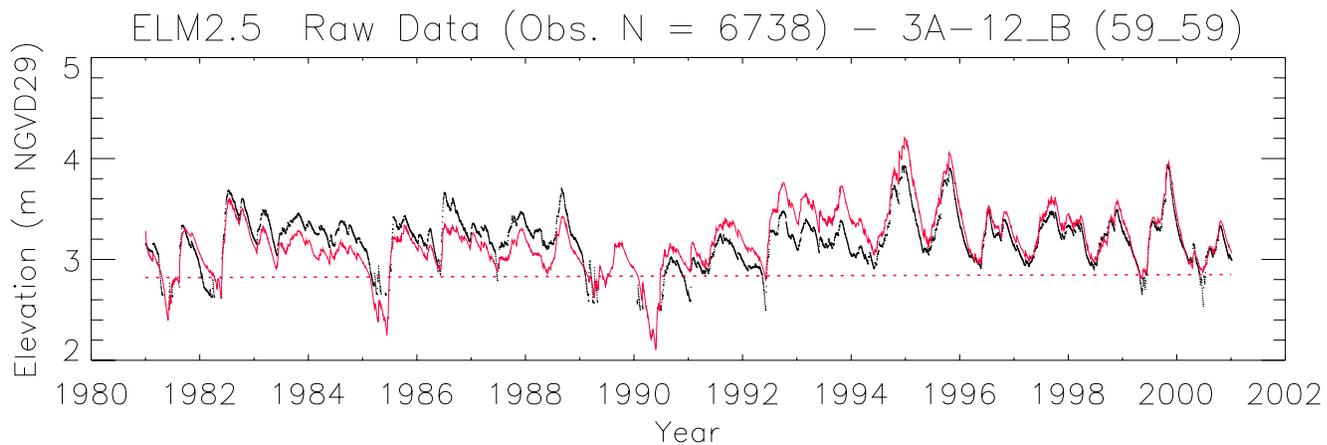


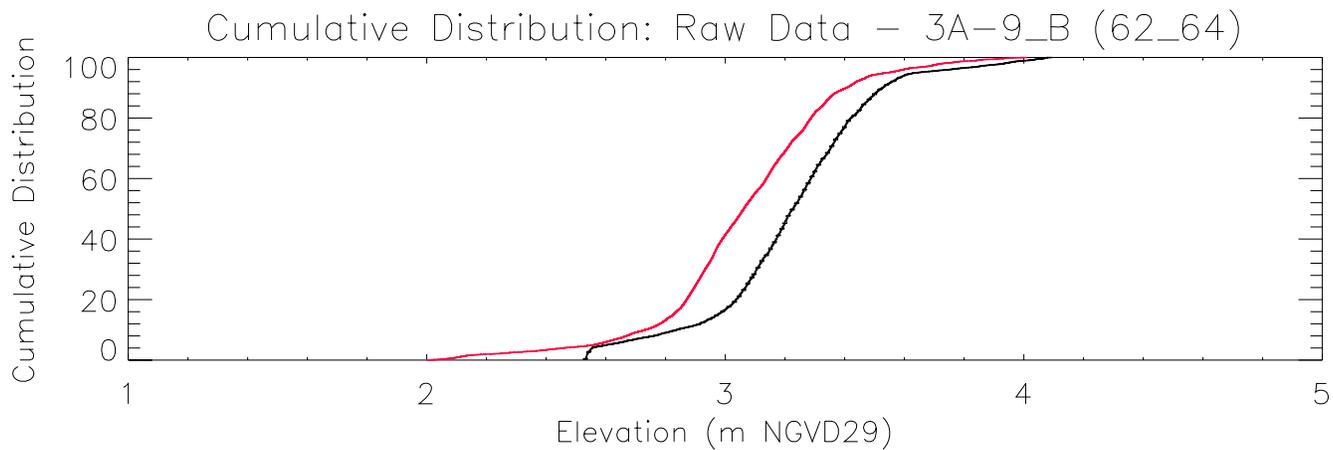
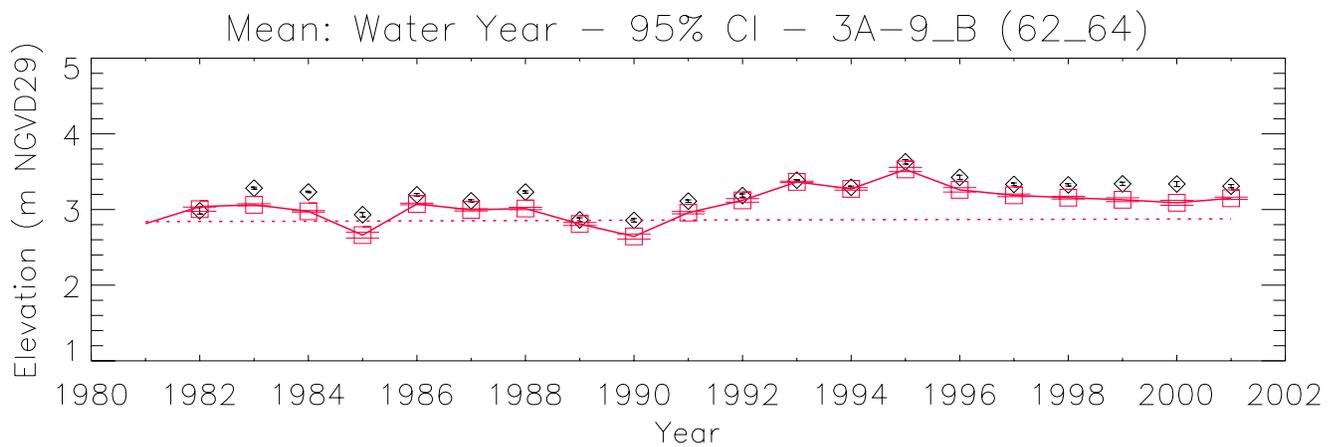
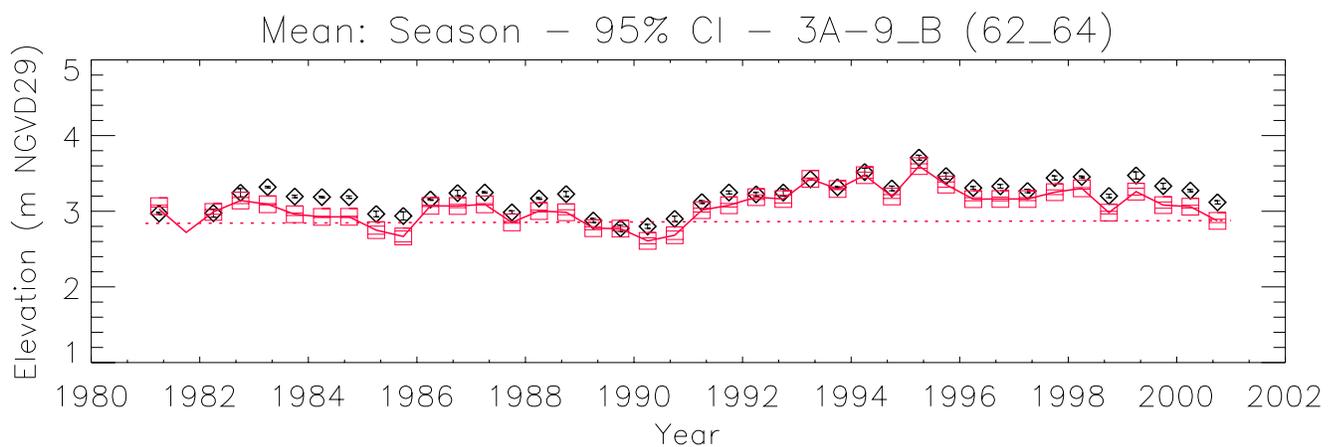
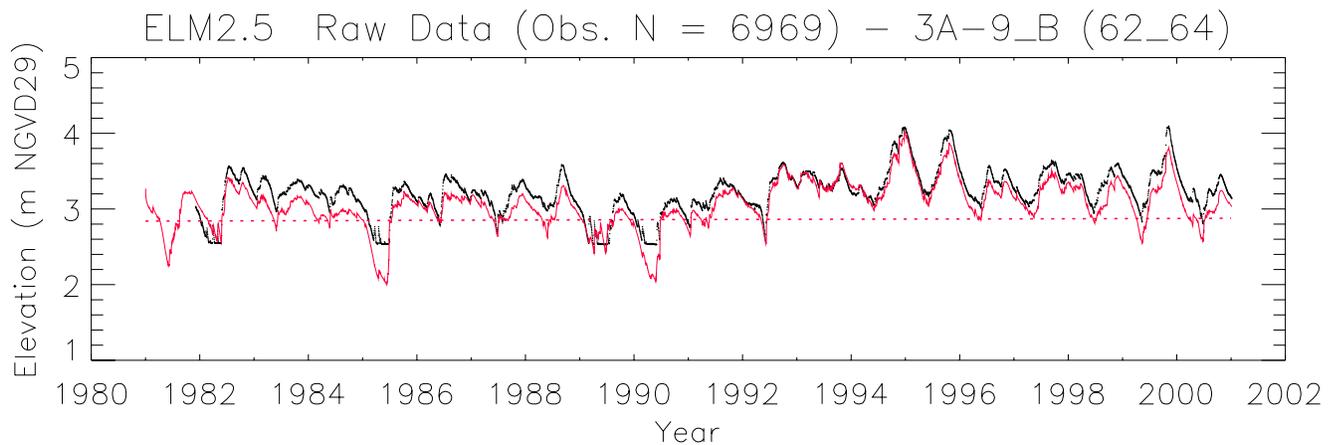




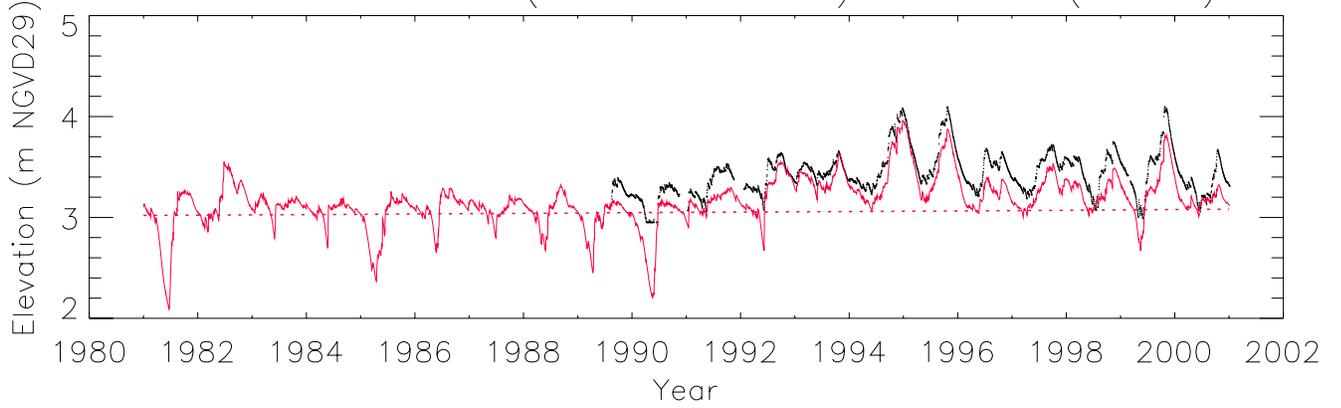




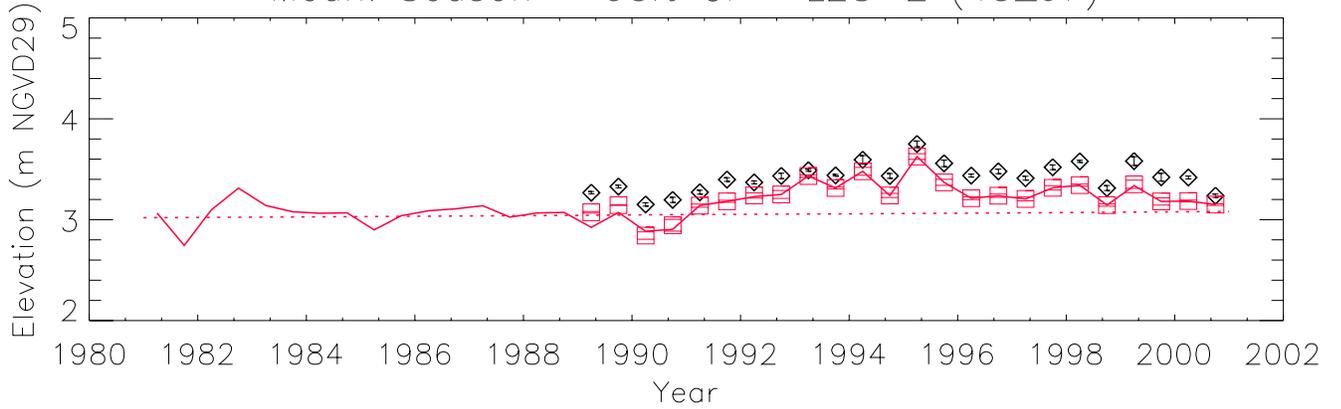




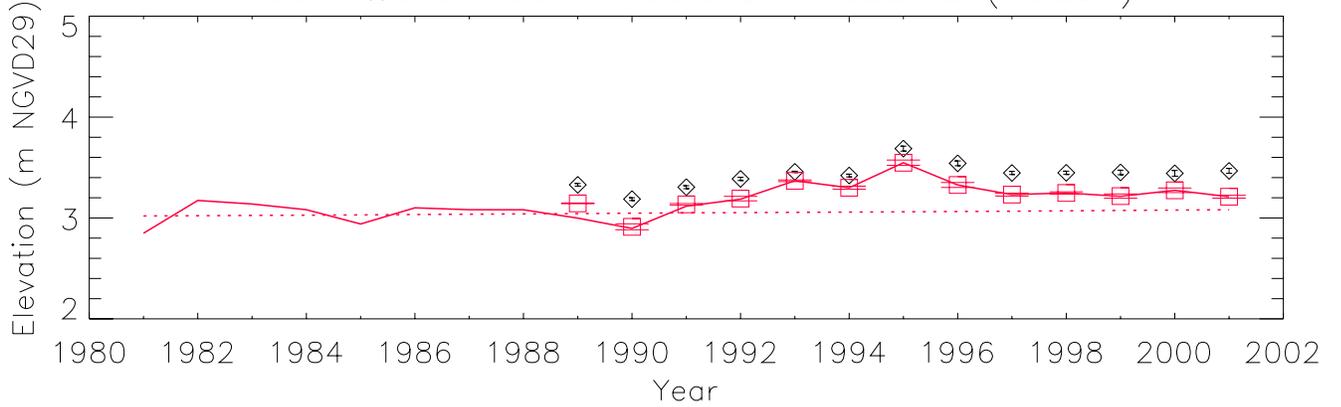
ELM2.5 Raw Data (Obs. N = 4007) - L28-2 (43\_67)



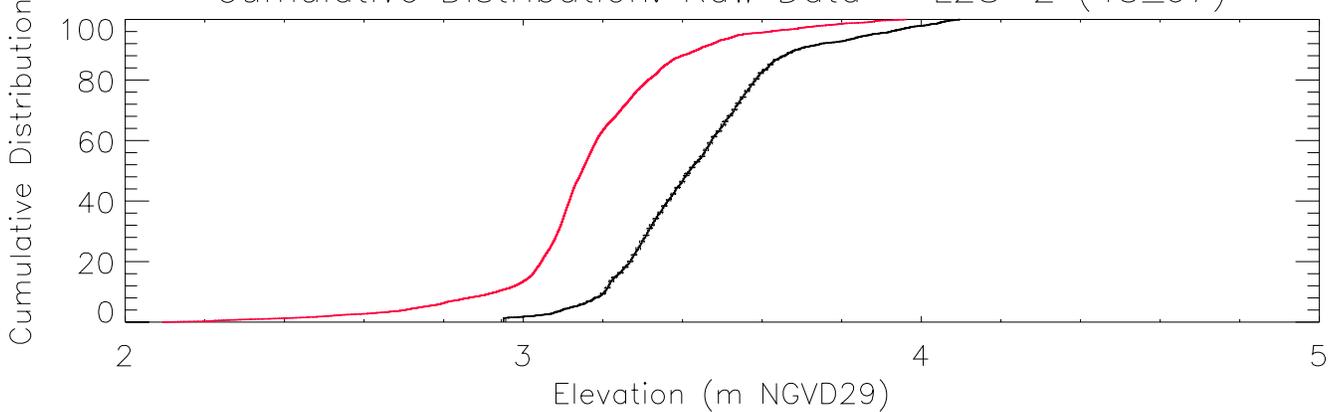
Mean: Season - 95% CI - L28-2 (43\_67)

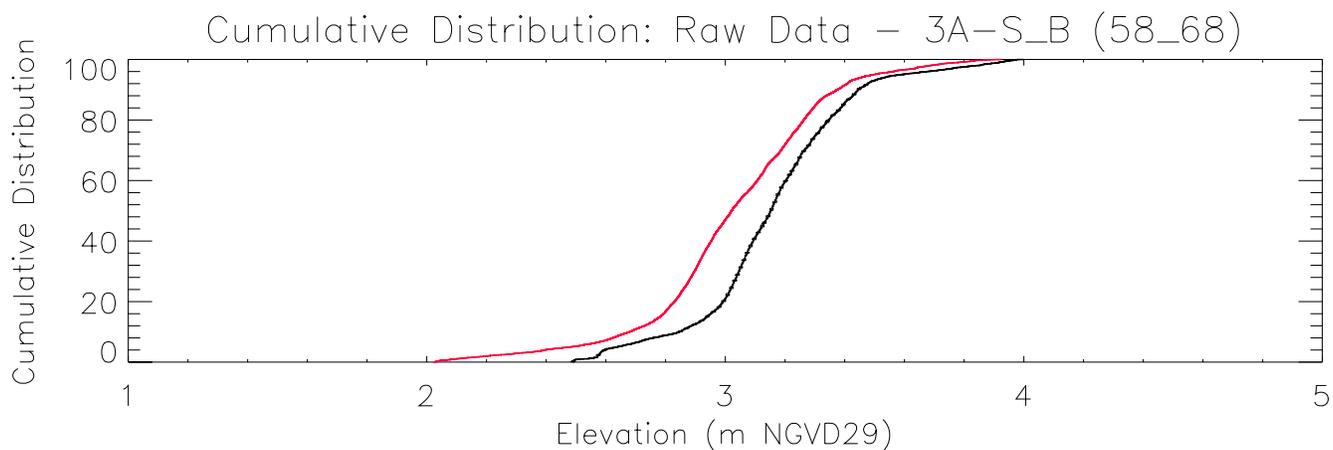
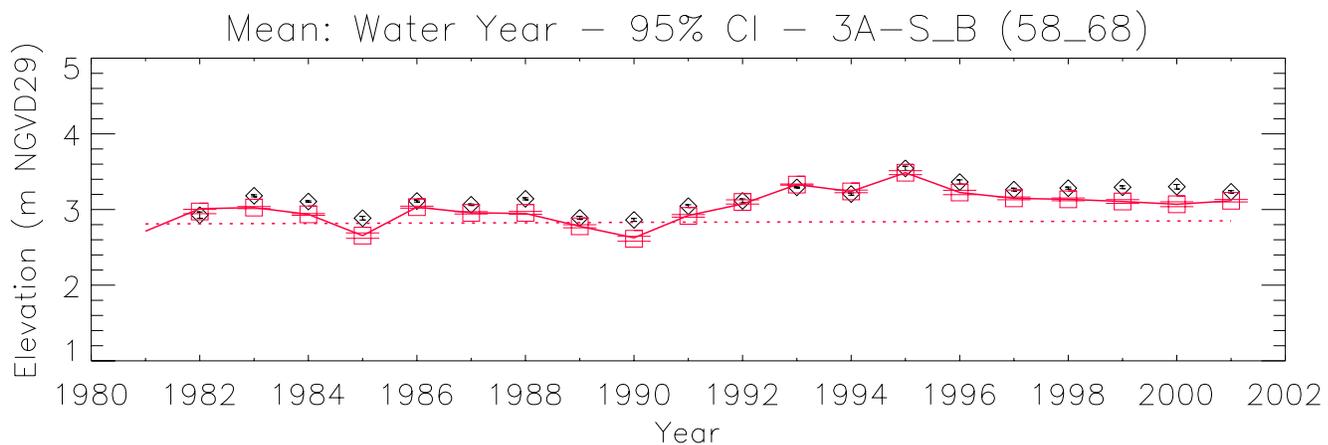
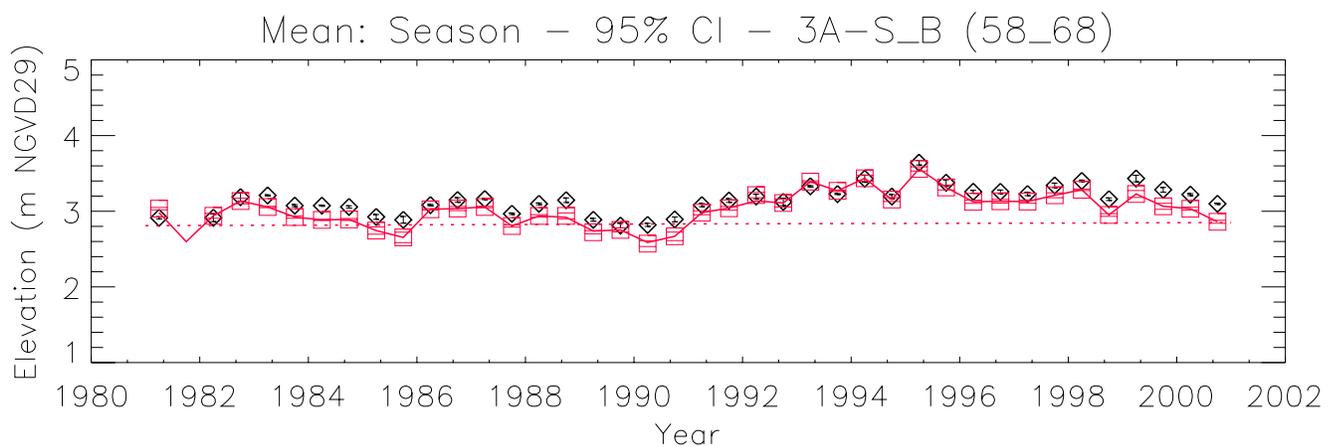
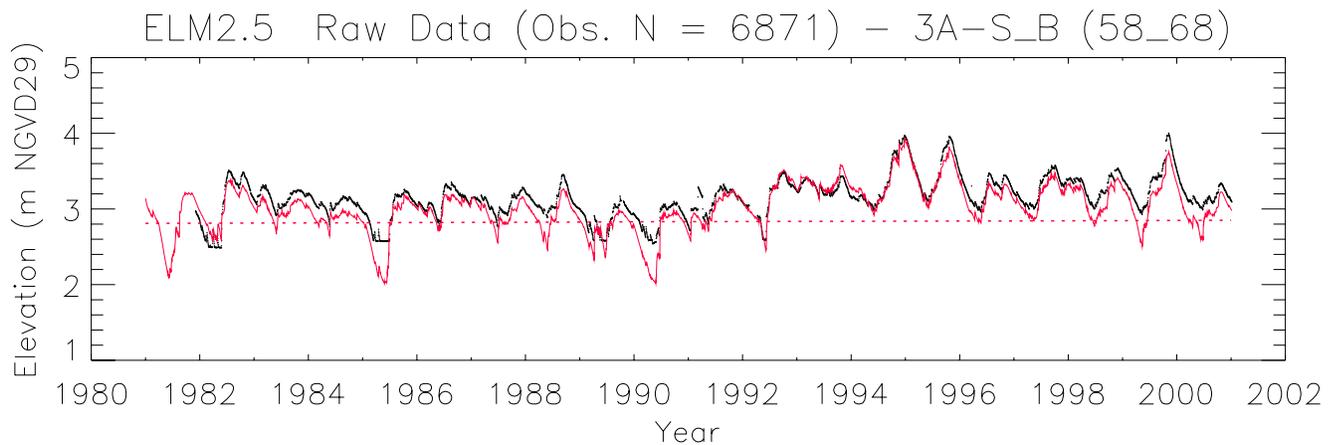


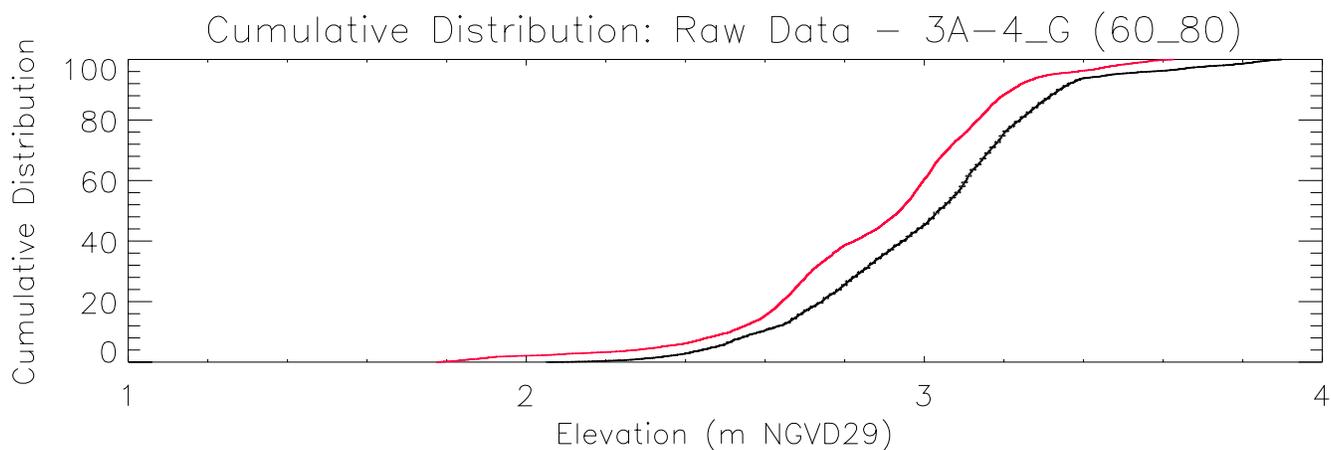
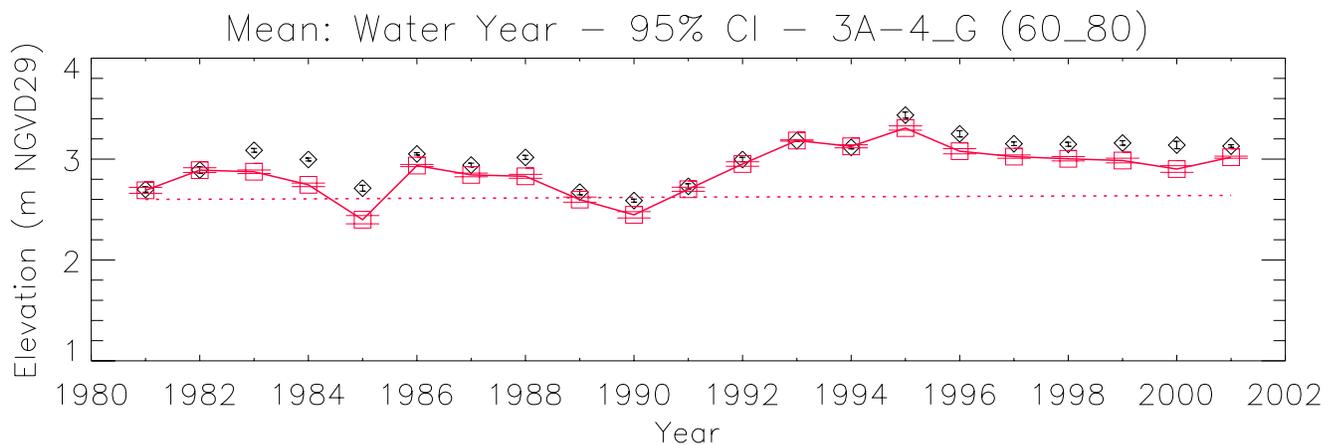
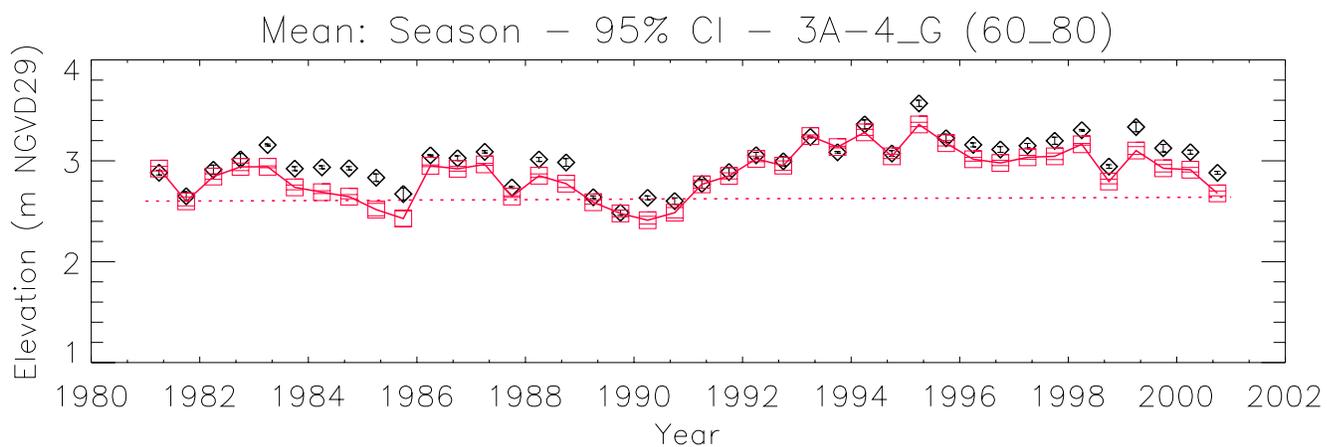
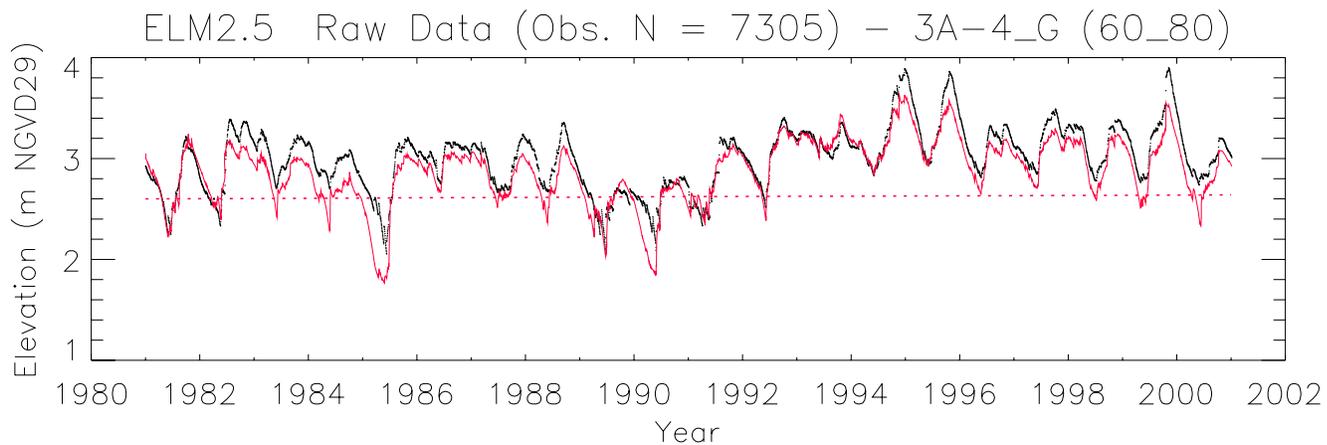
Mean: Water Year - 95% CI - L28-2 (43\_67)

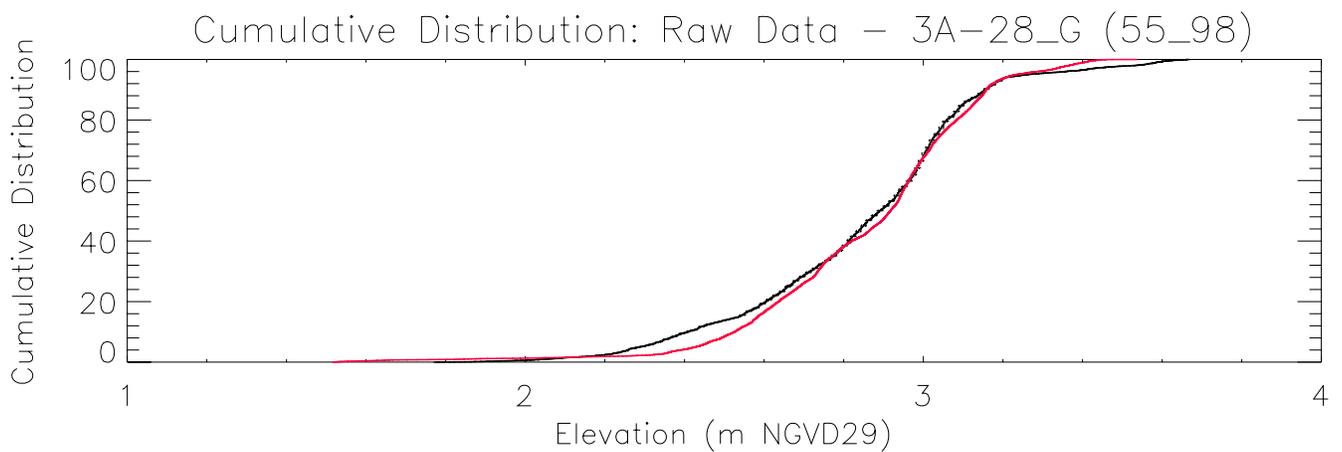
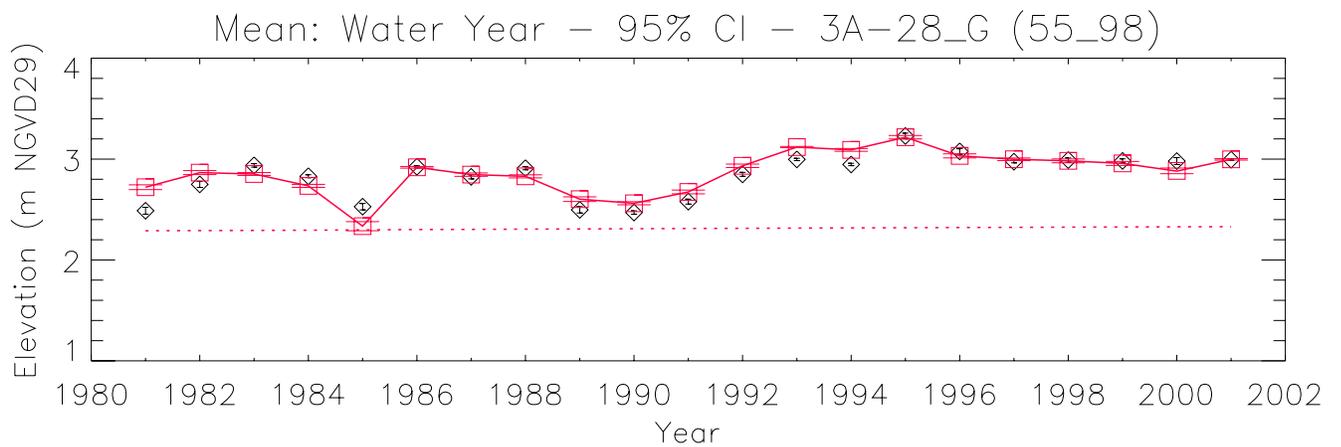
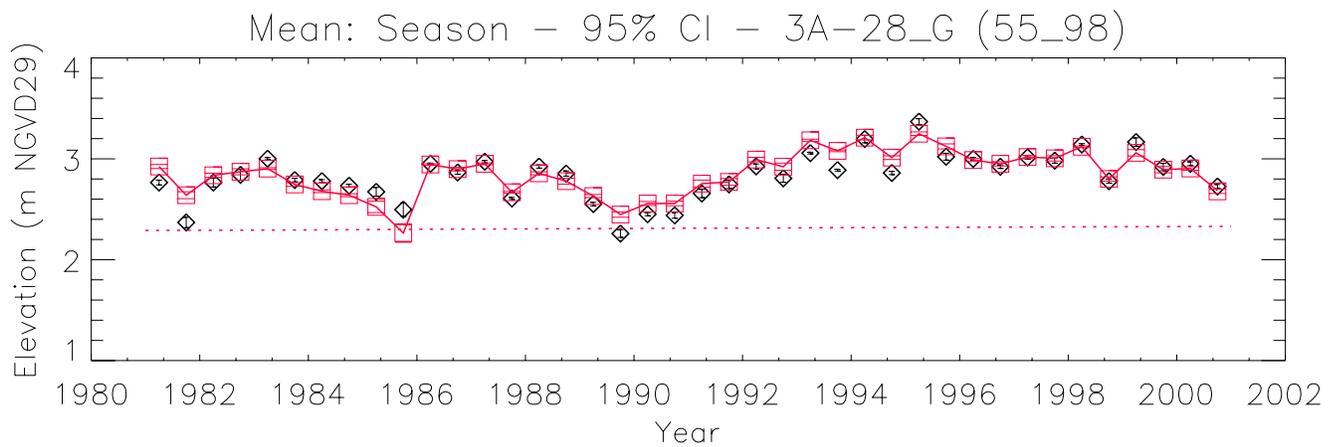
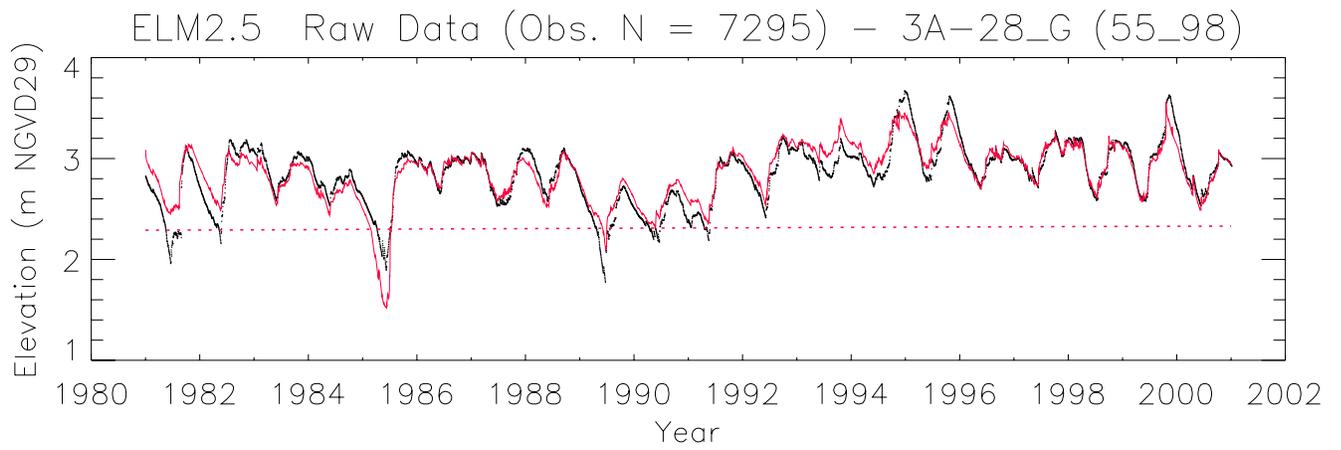


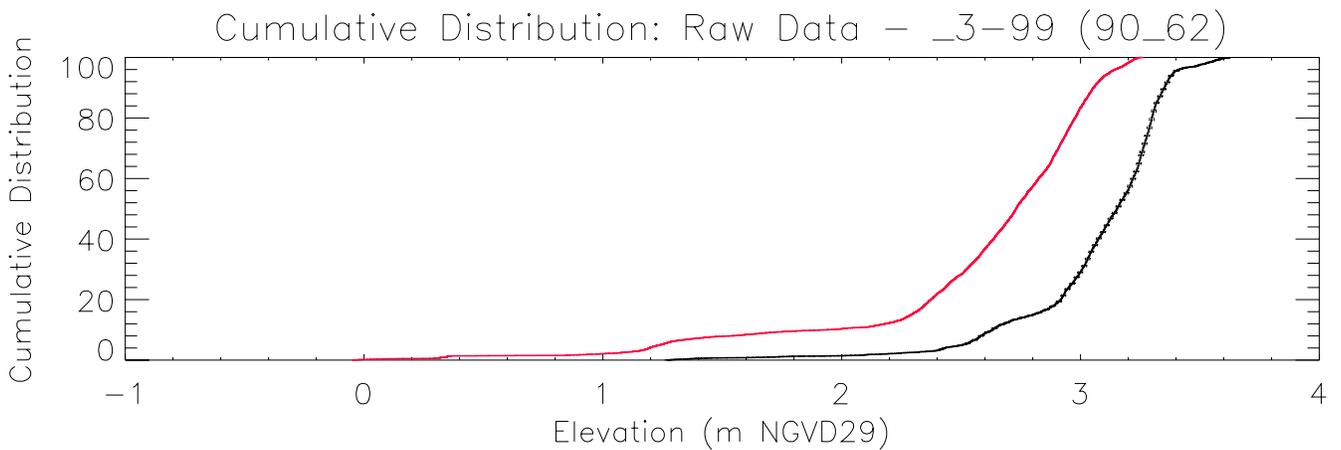
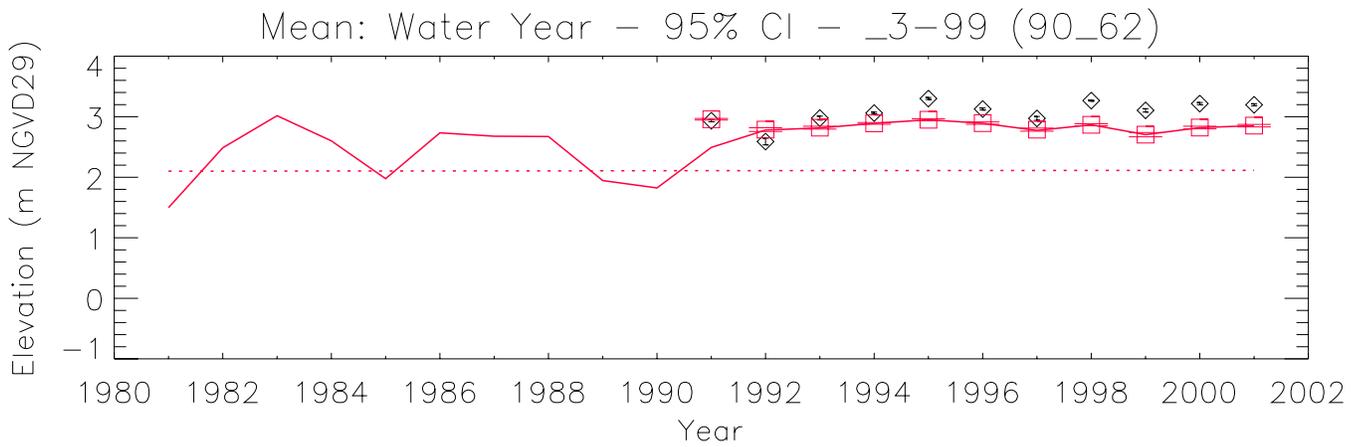
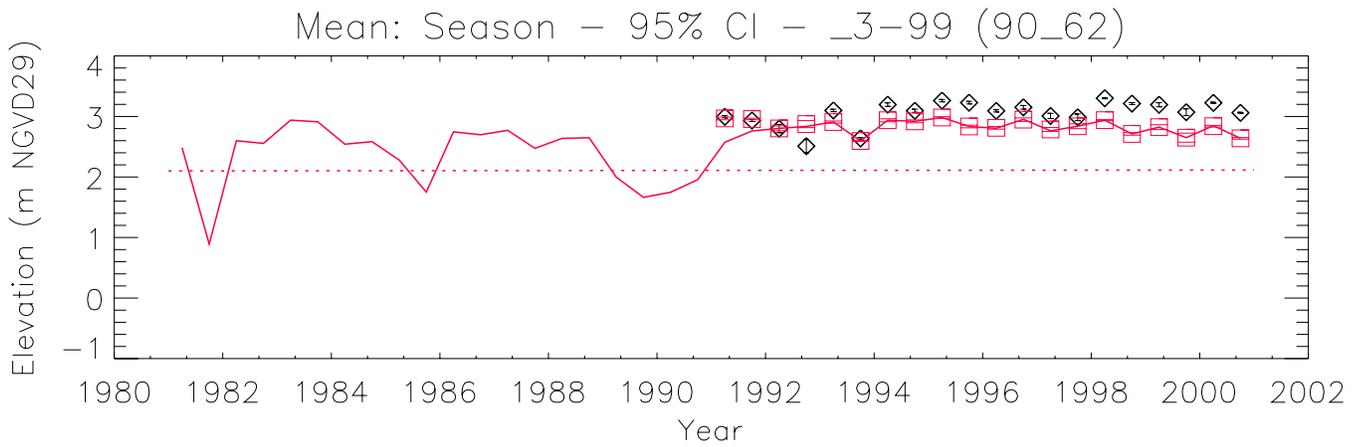
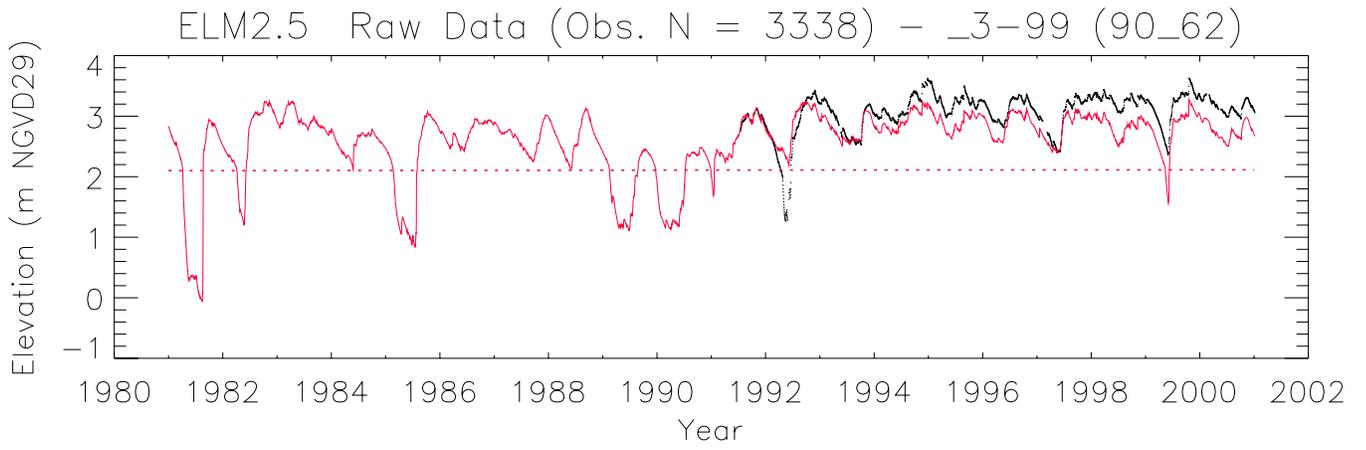
Cumulative Distribution: Raw Data - L28-2 (43\_67)

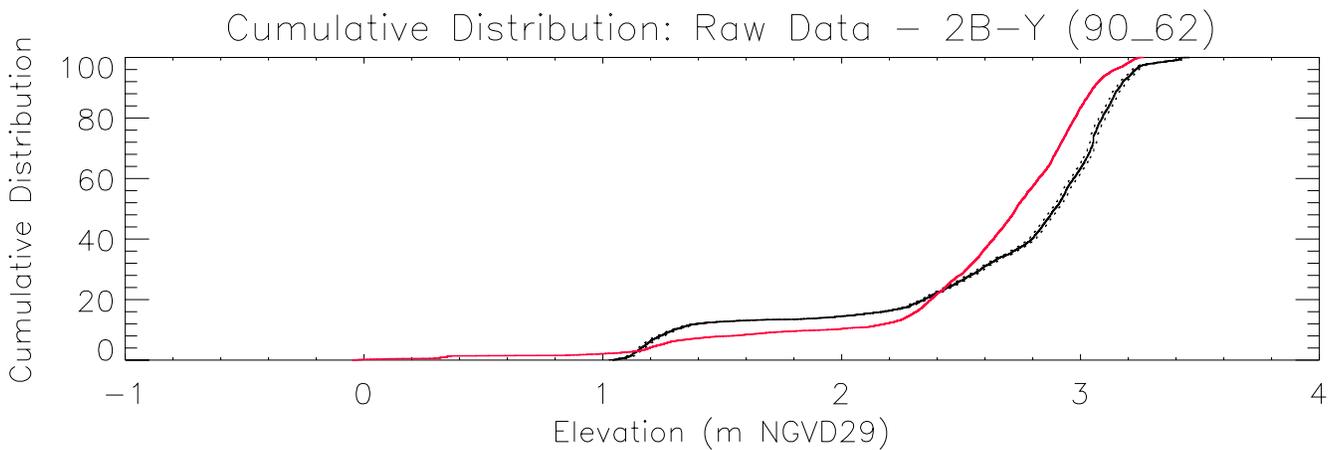
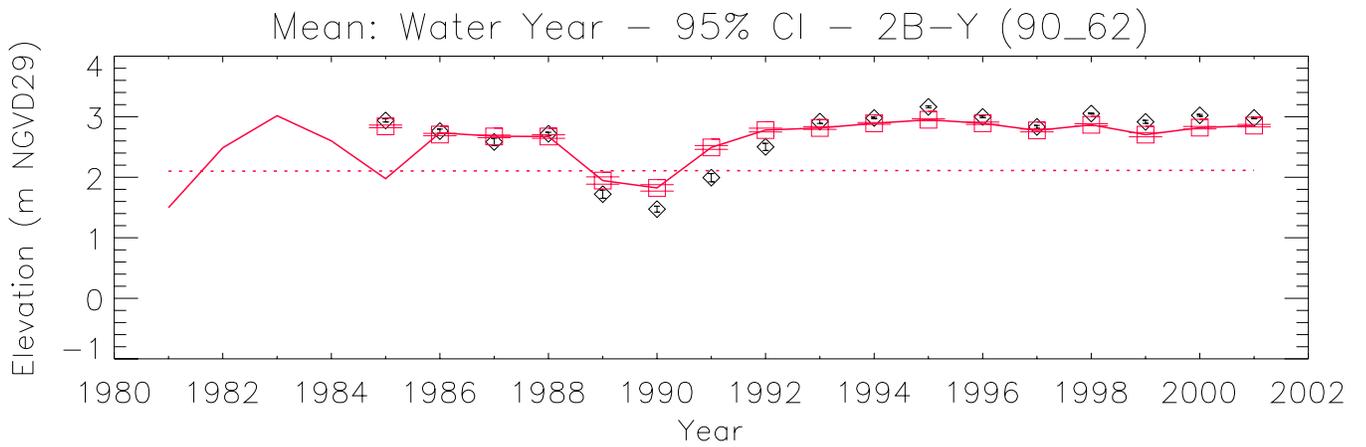
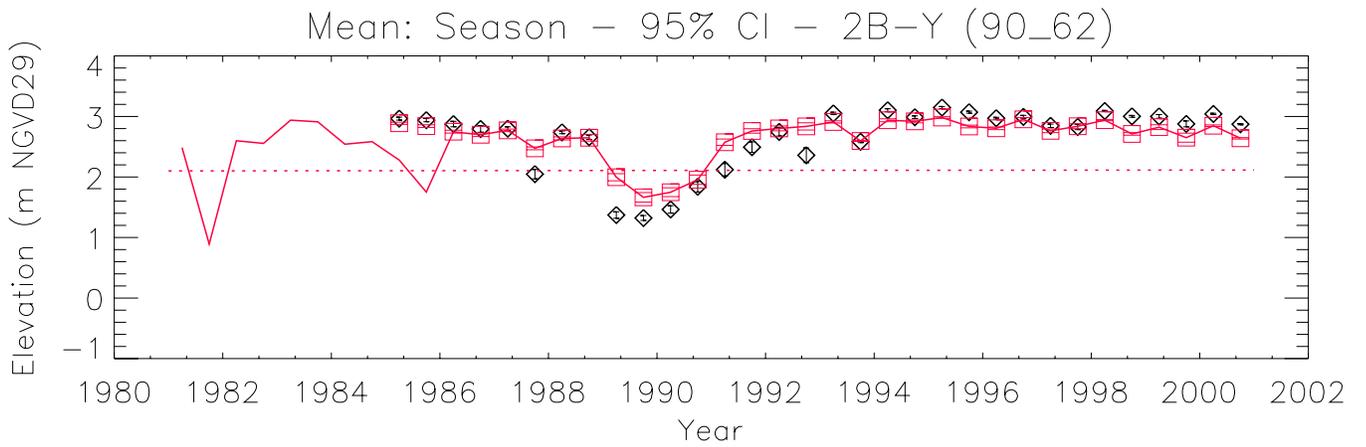
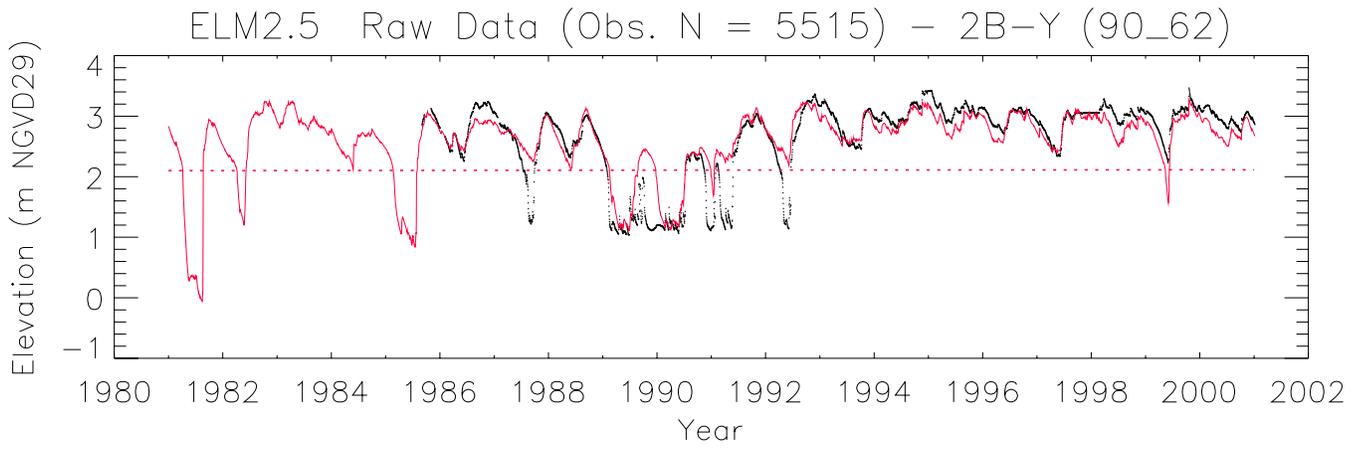


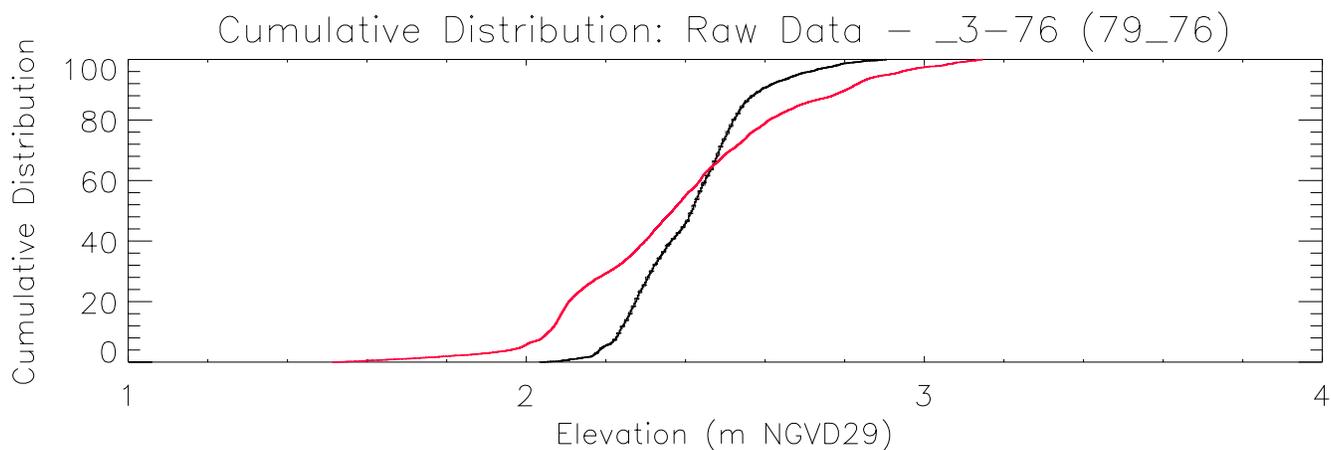
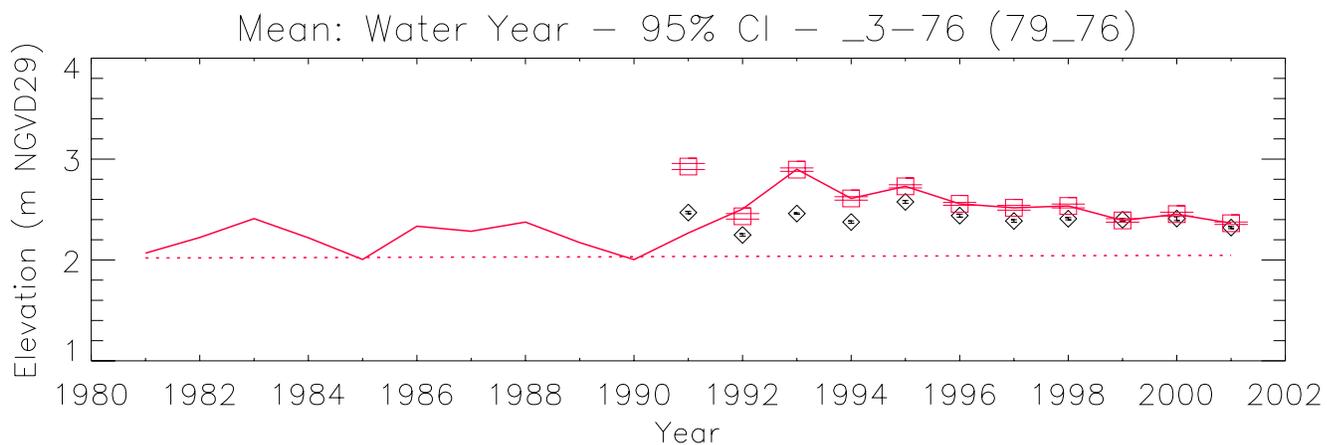
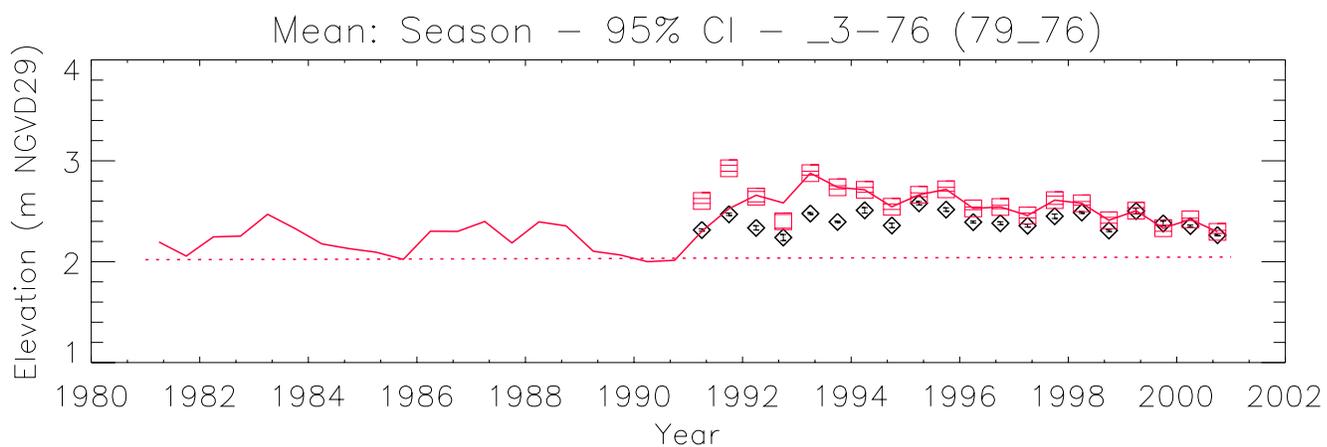
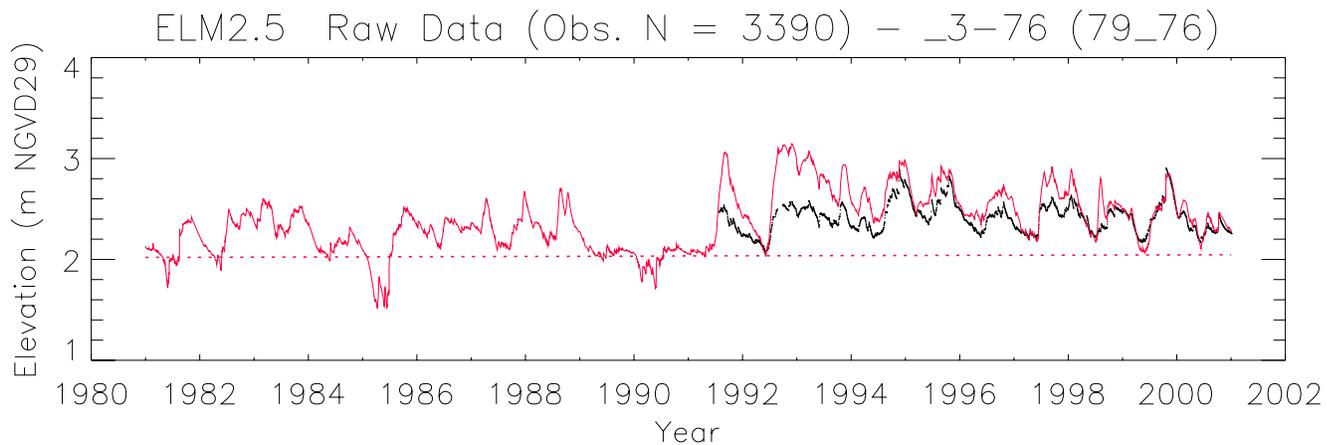


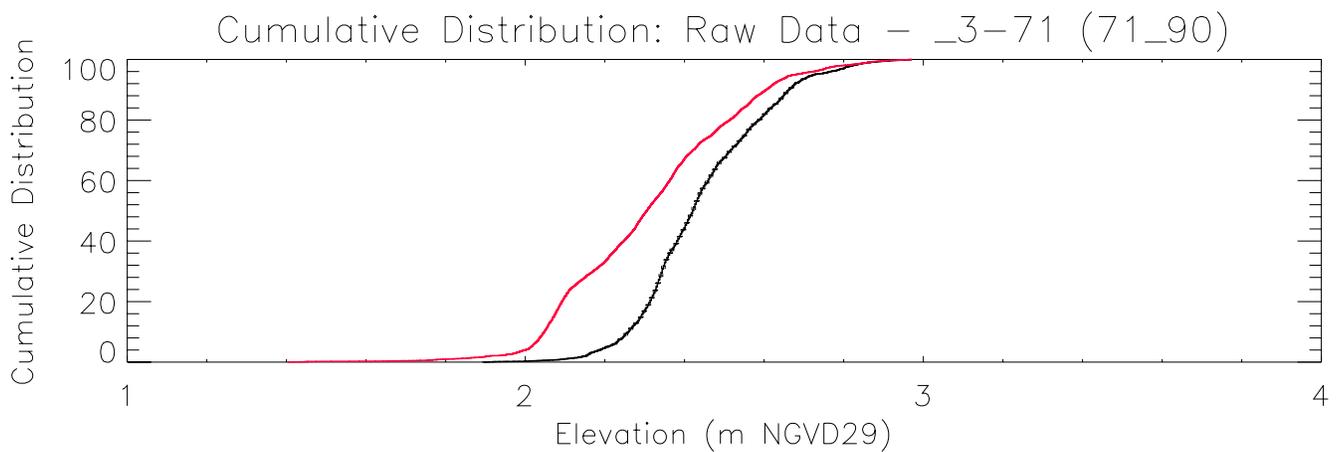
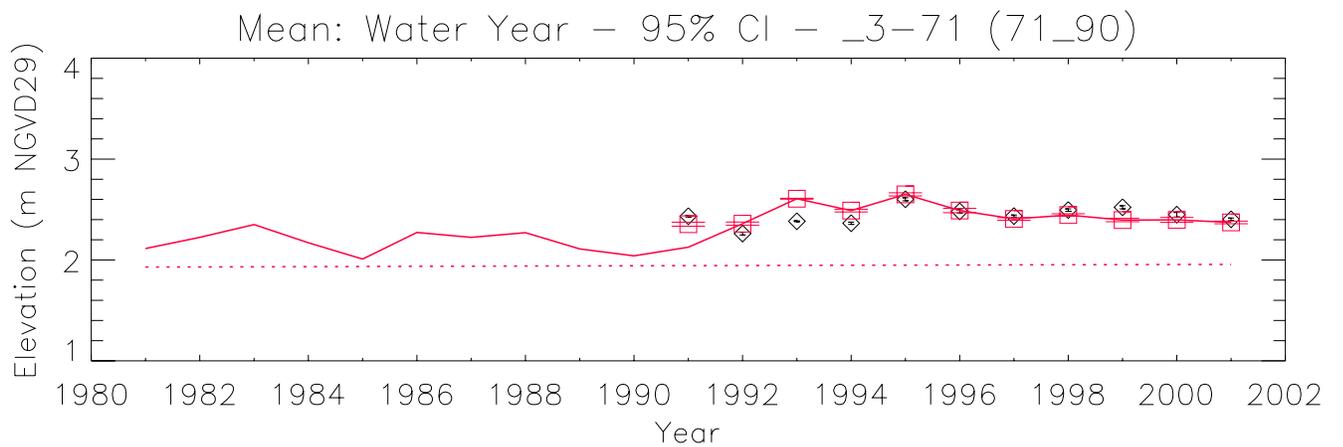
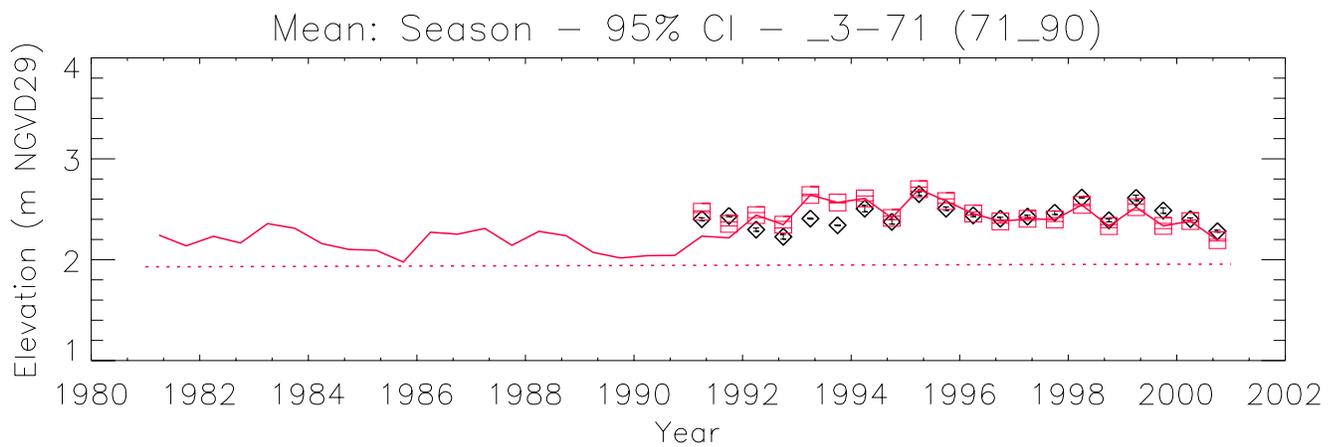
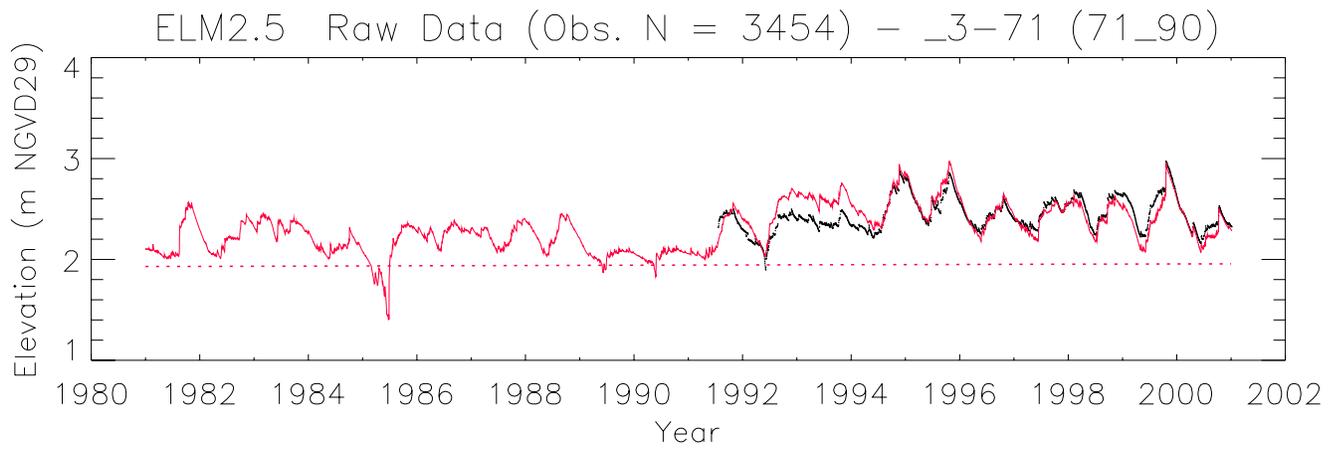


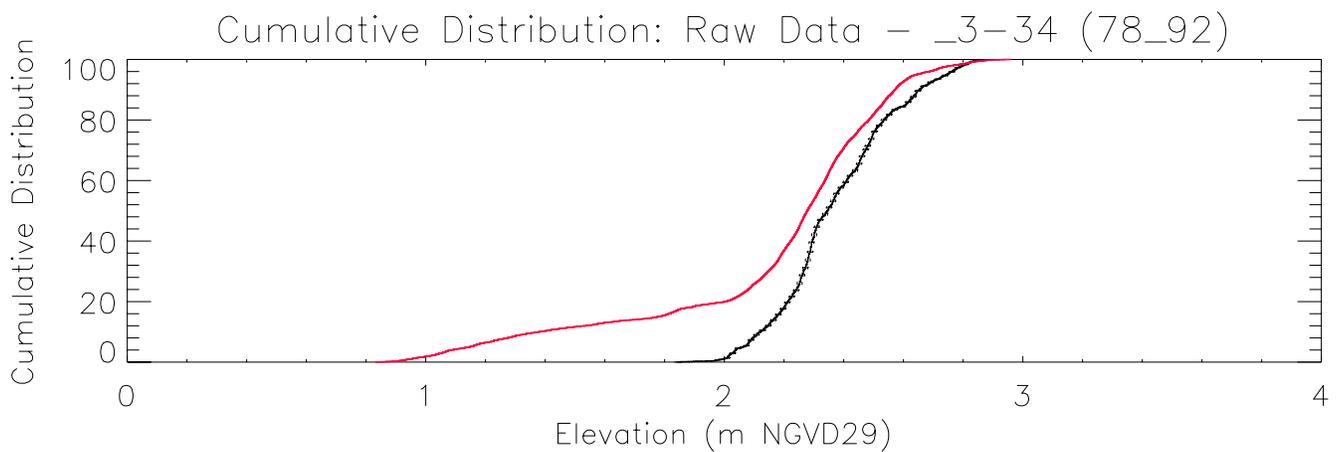
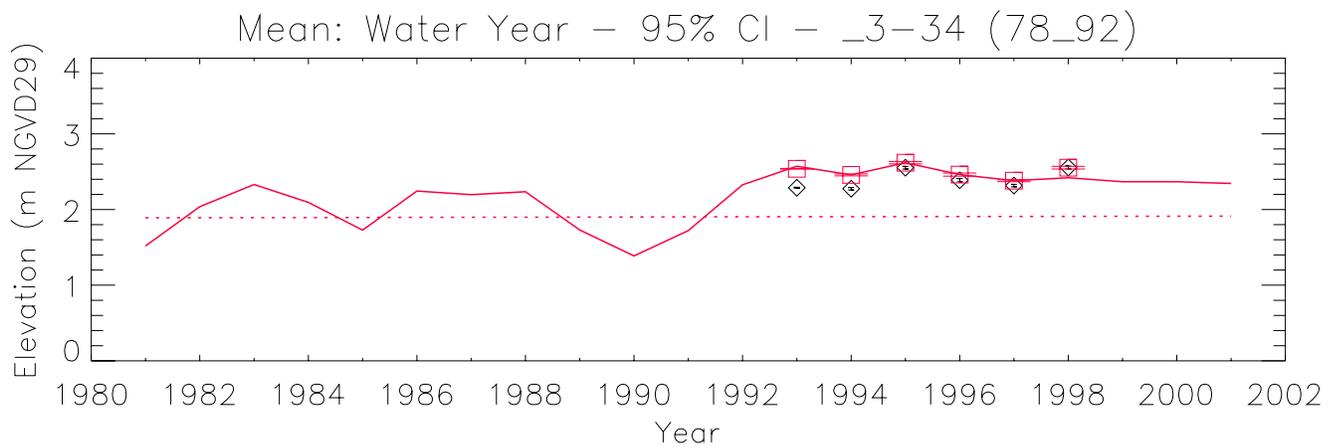
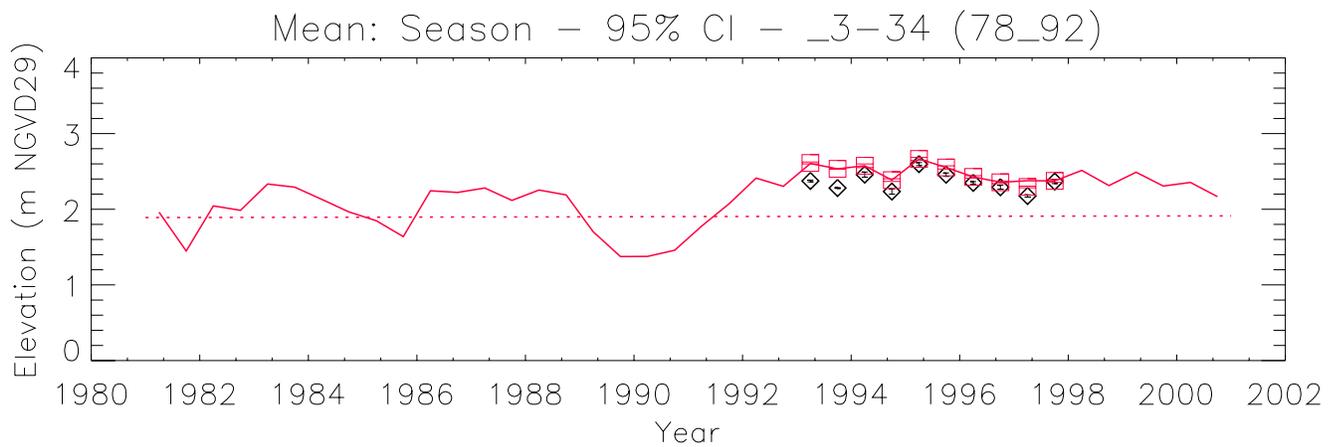
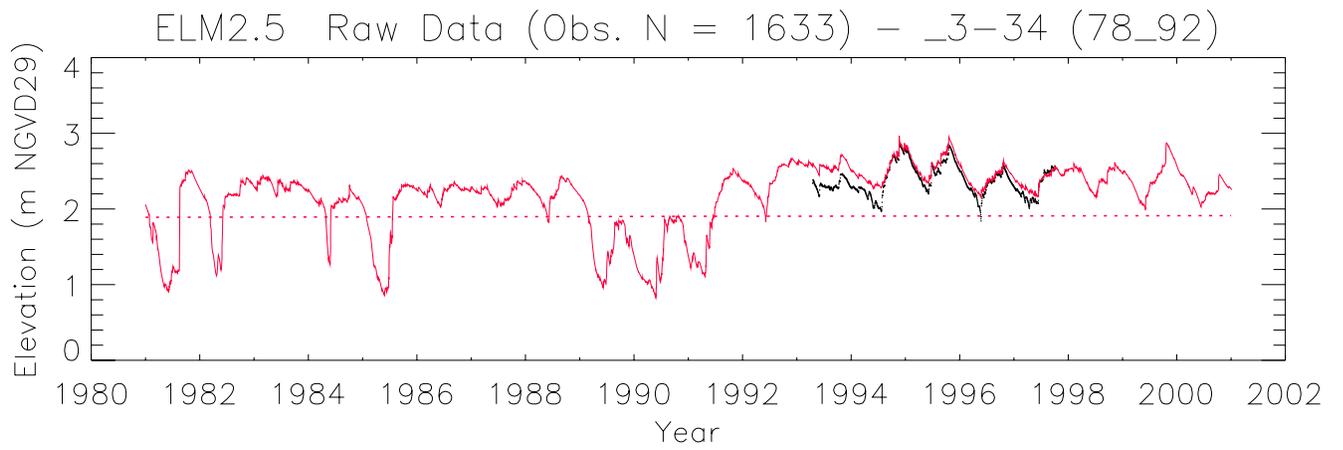


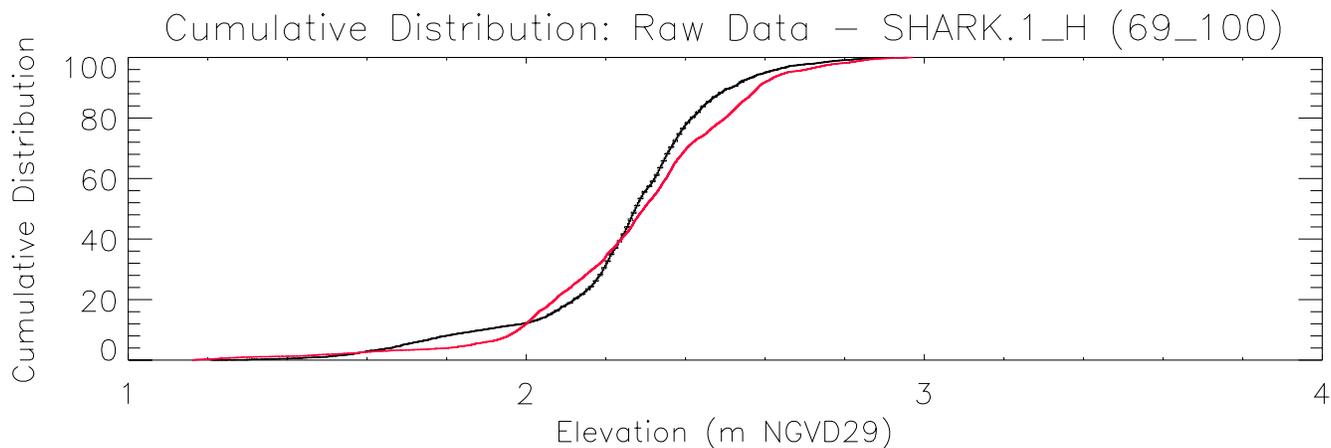
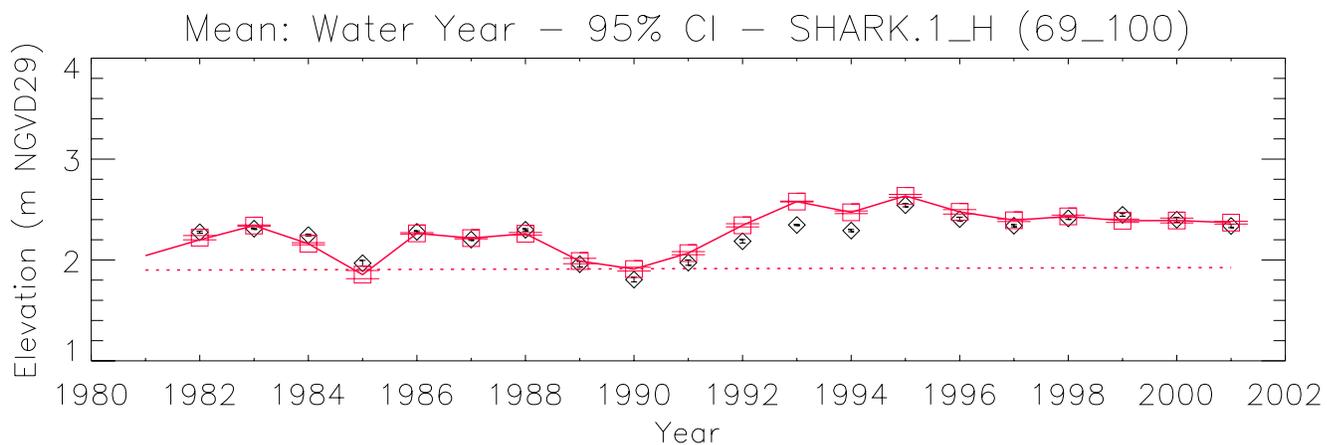
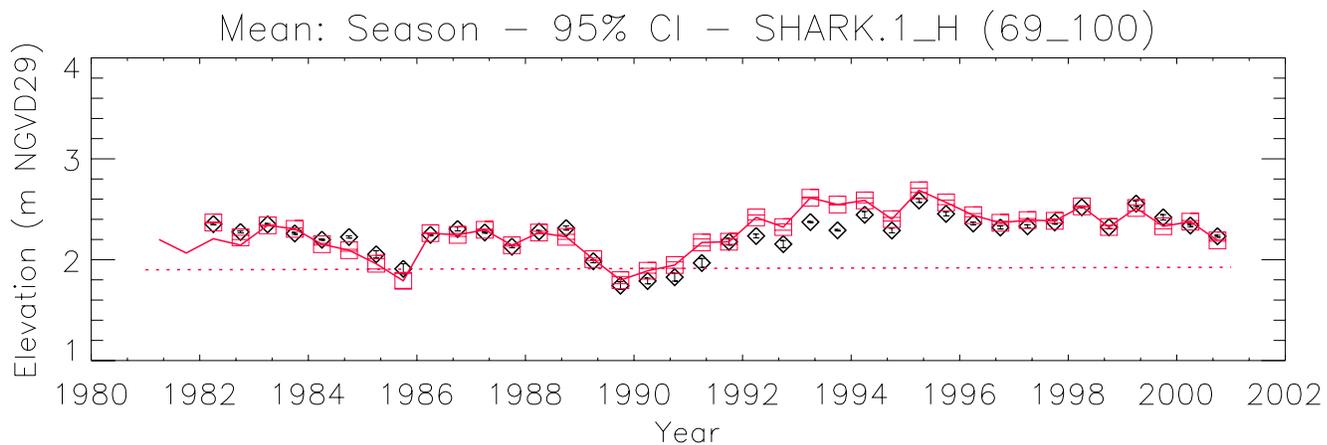
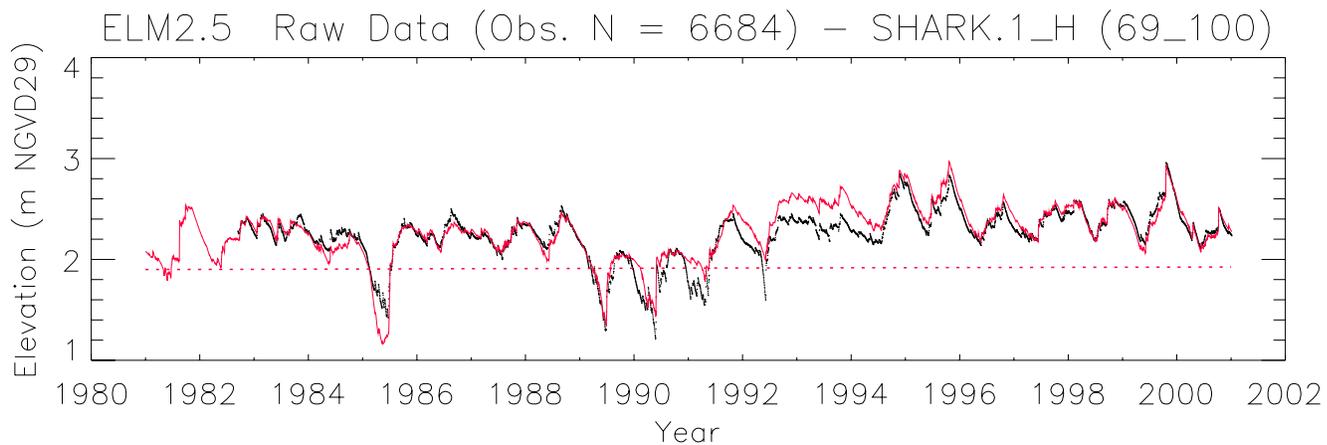


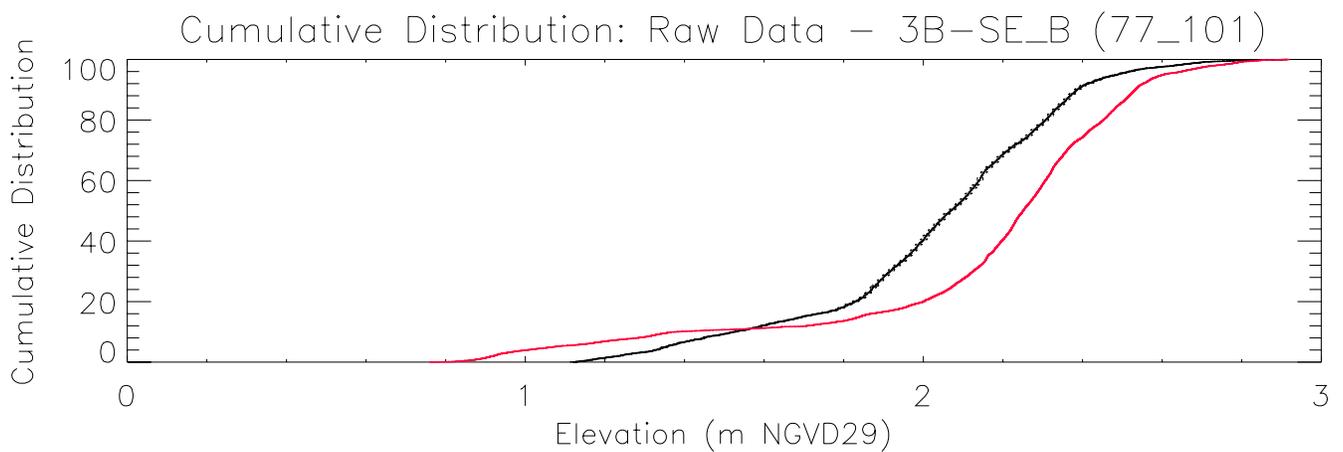
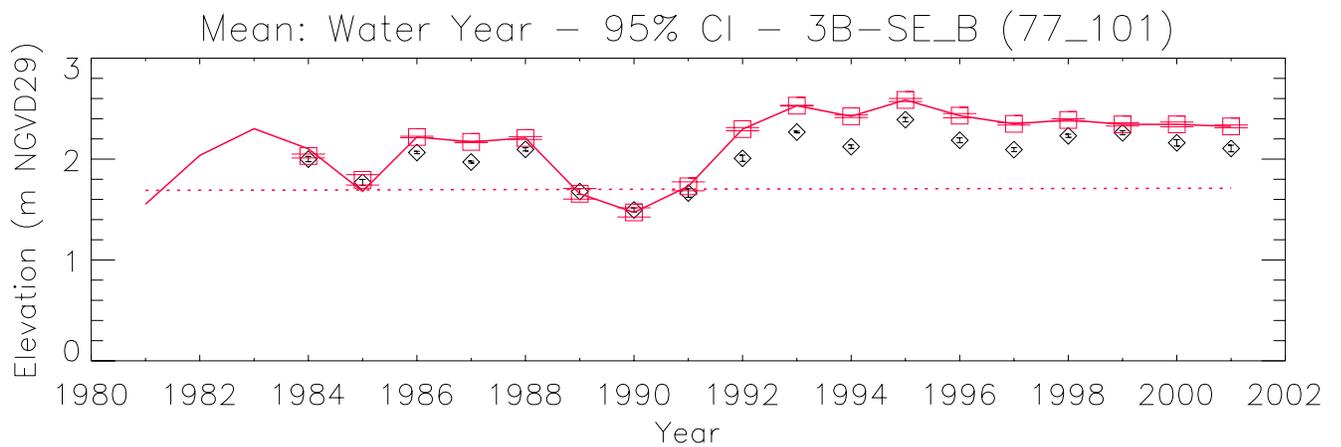
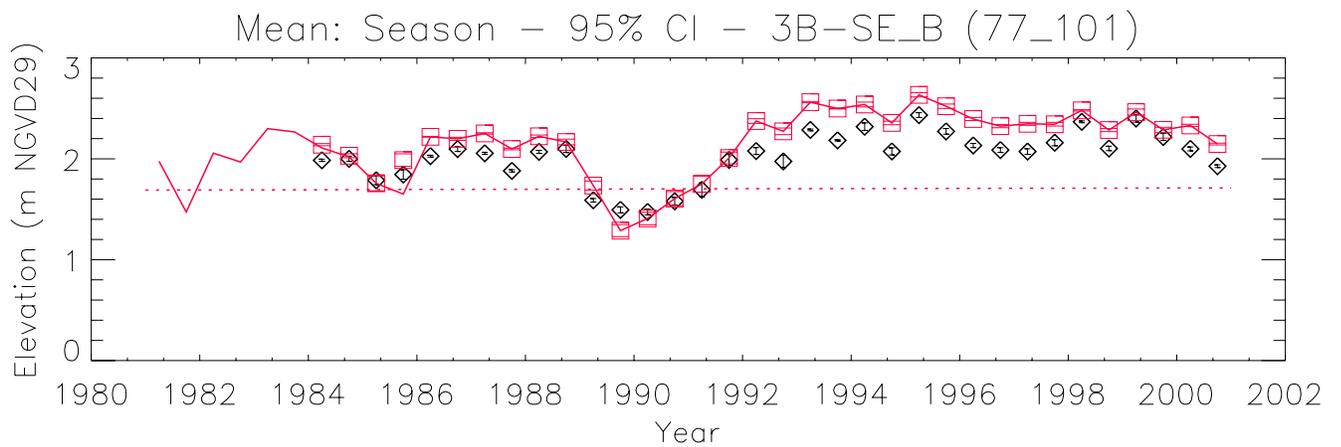
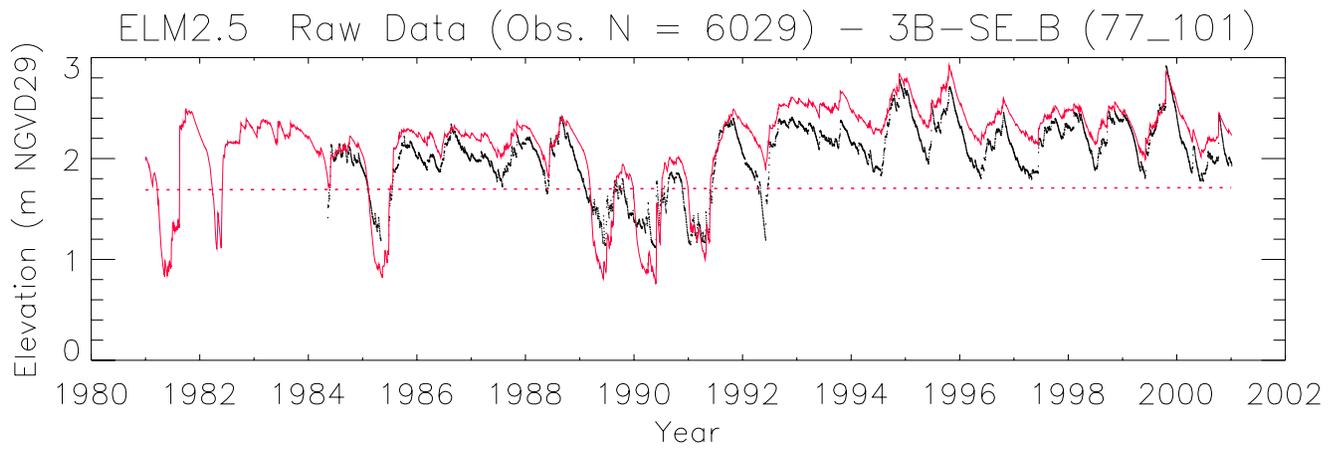


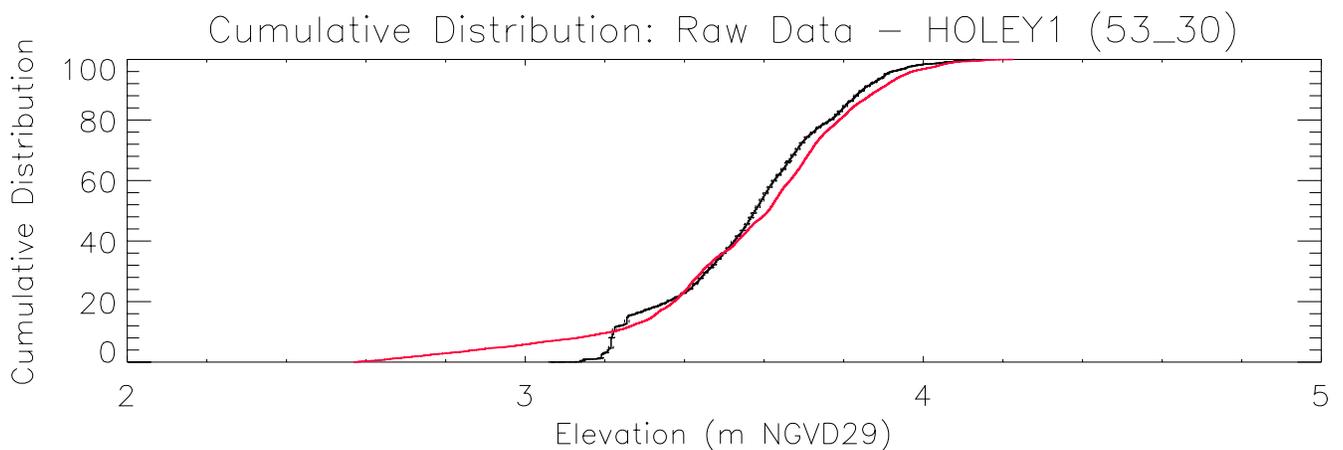
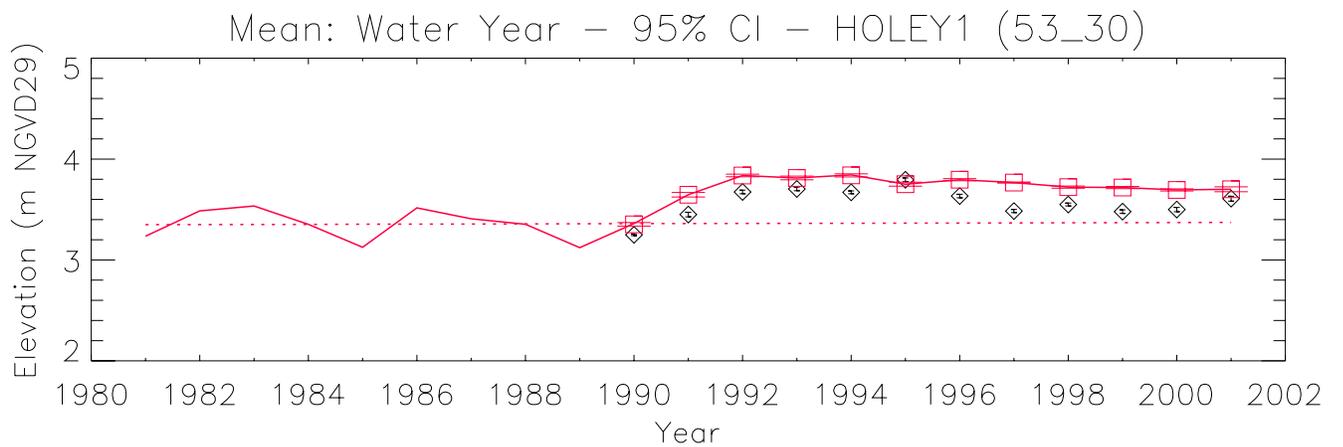
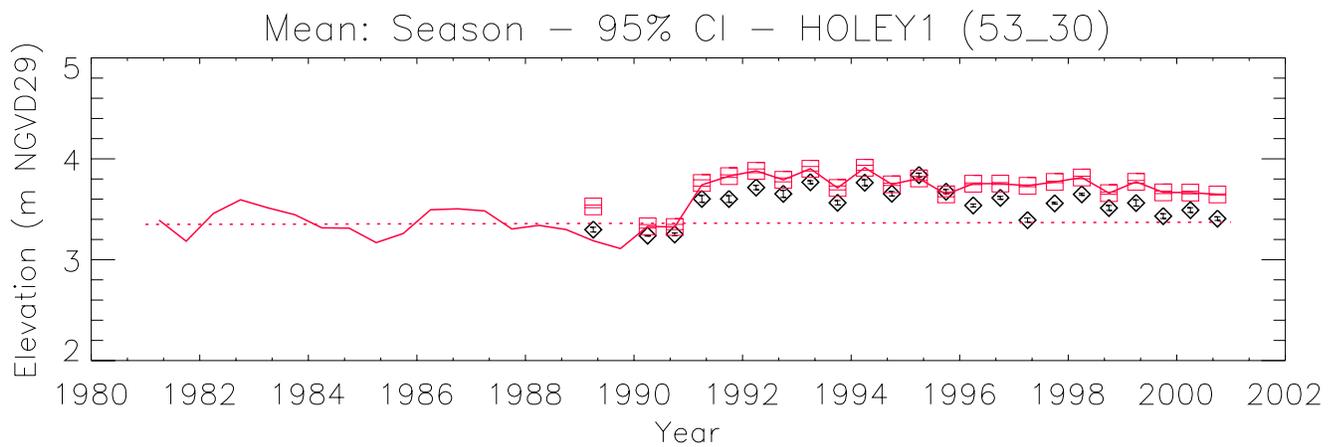
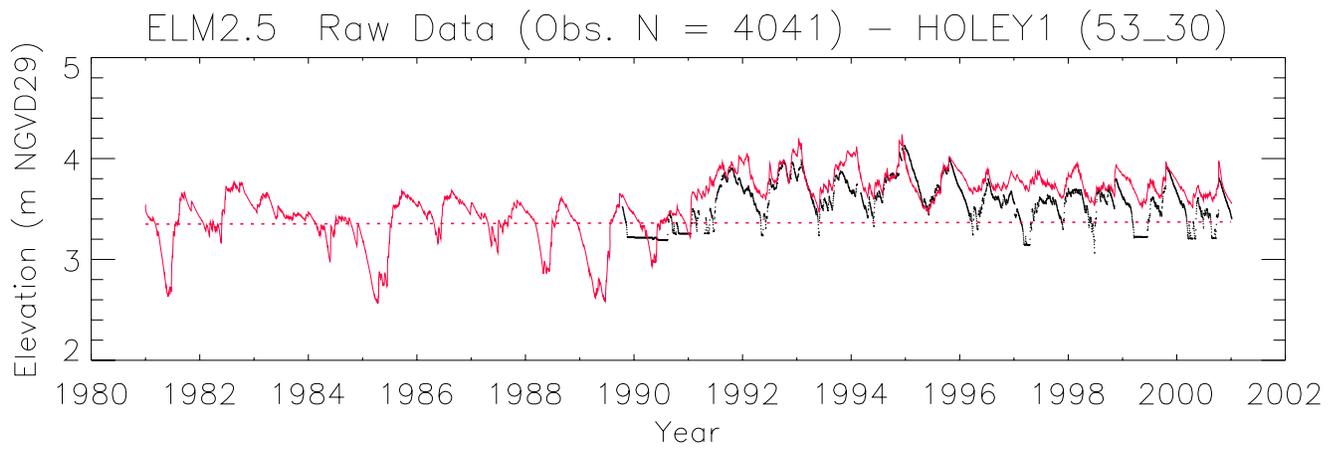


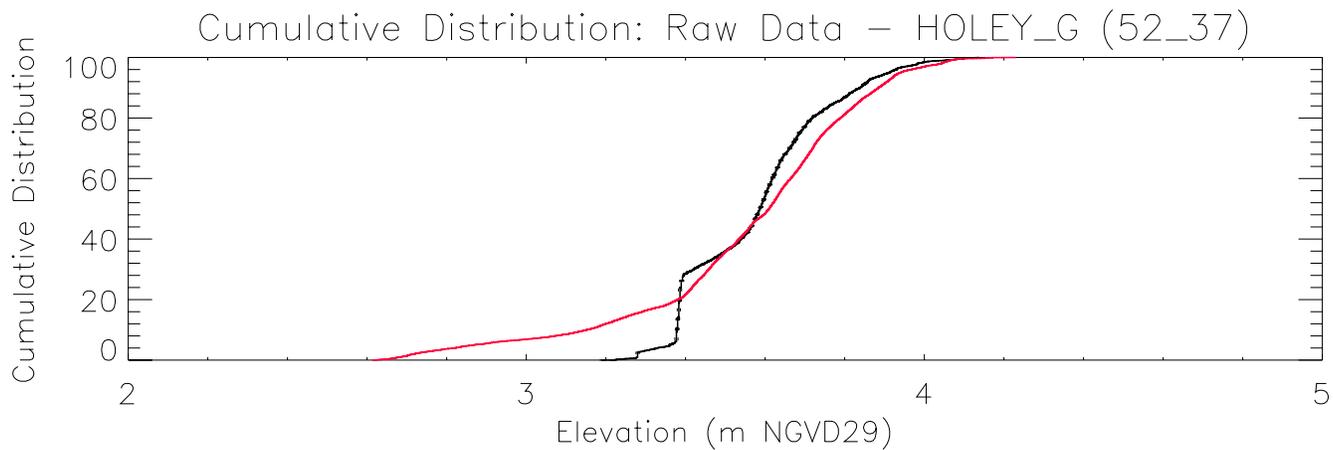
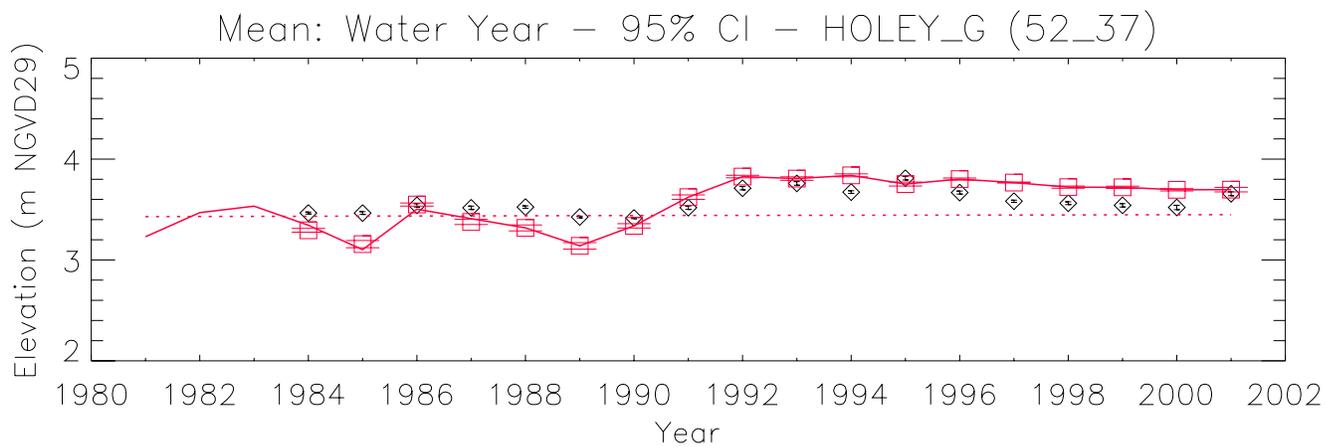
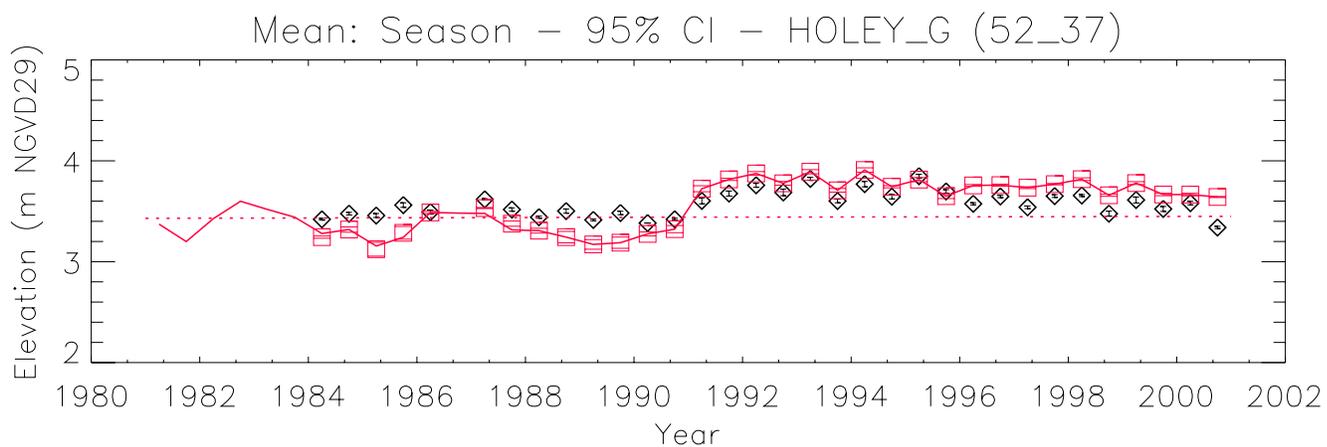
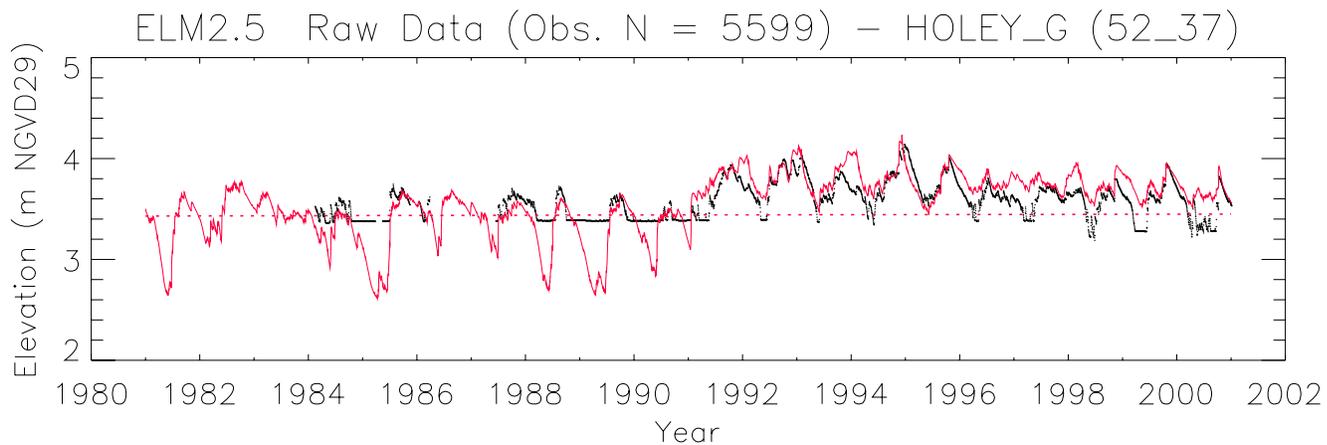


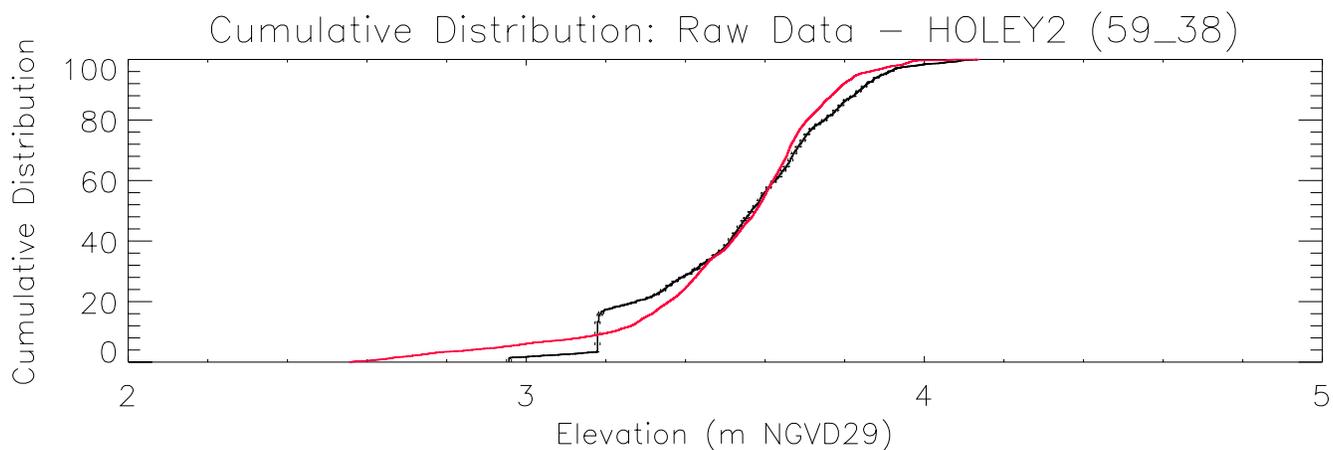
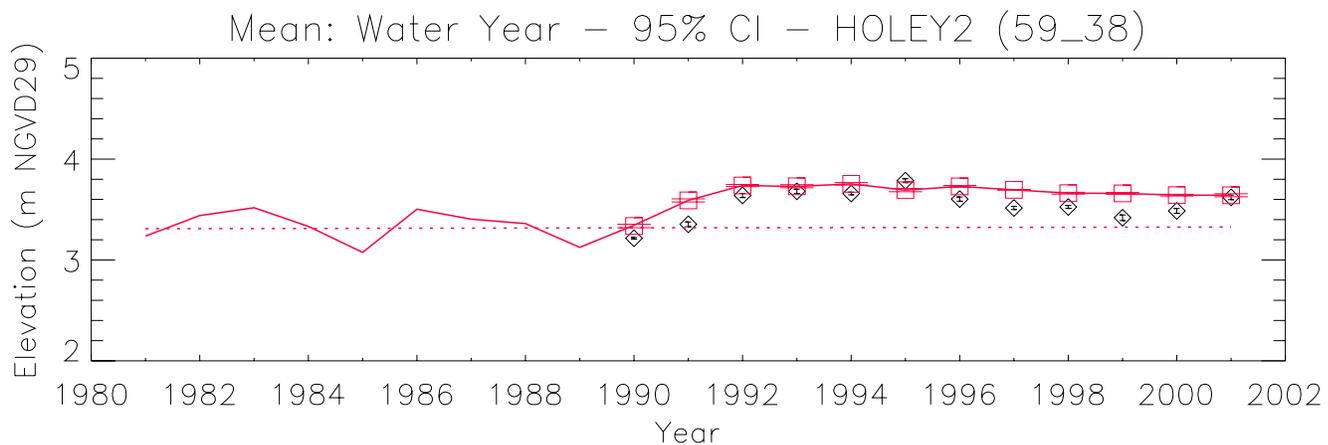
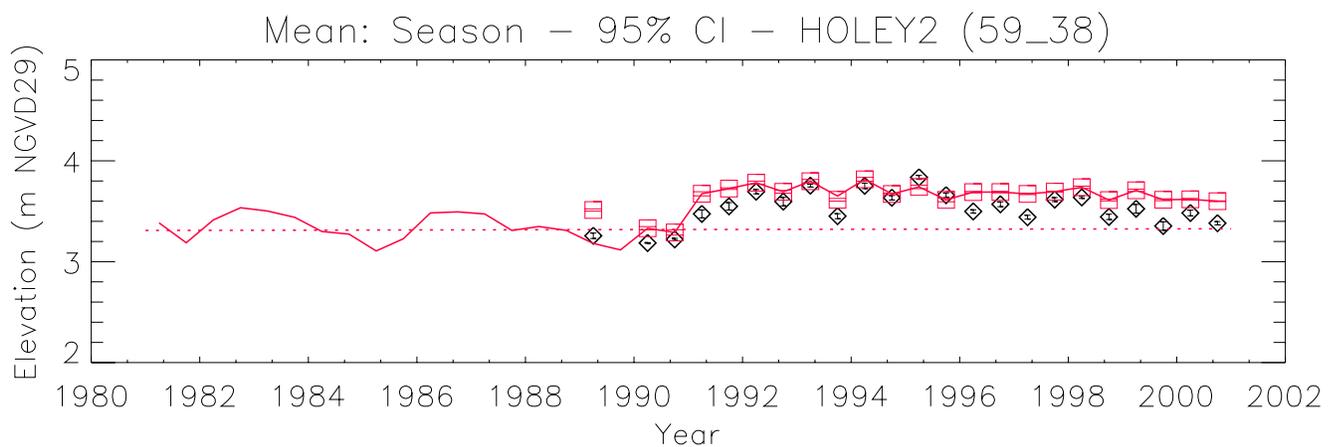
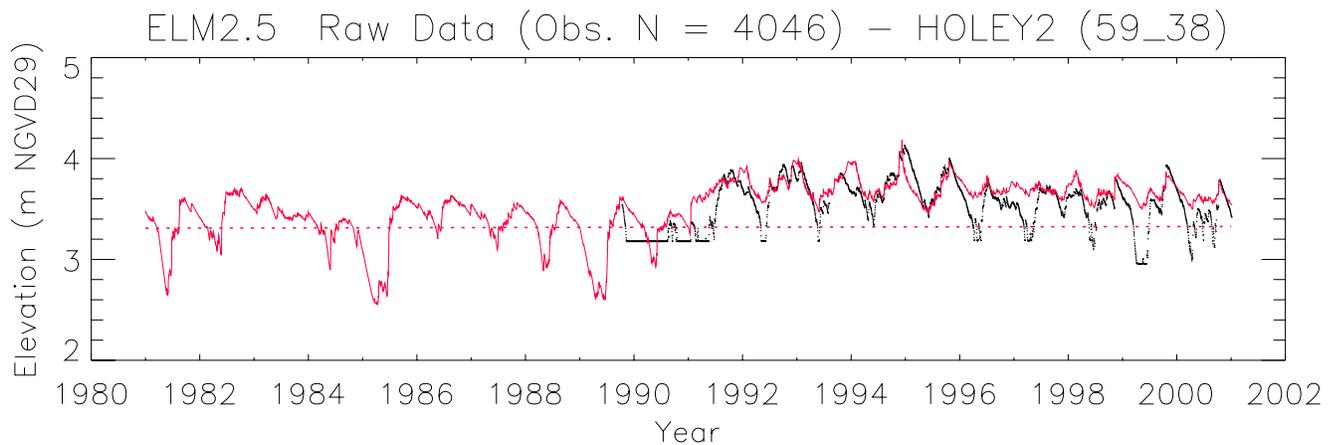




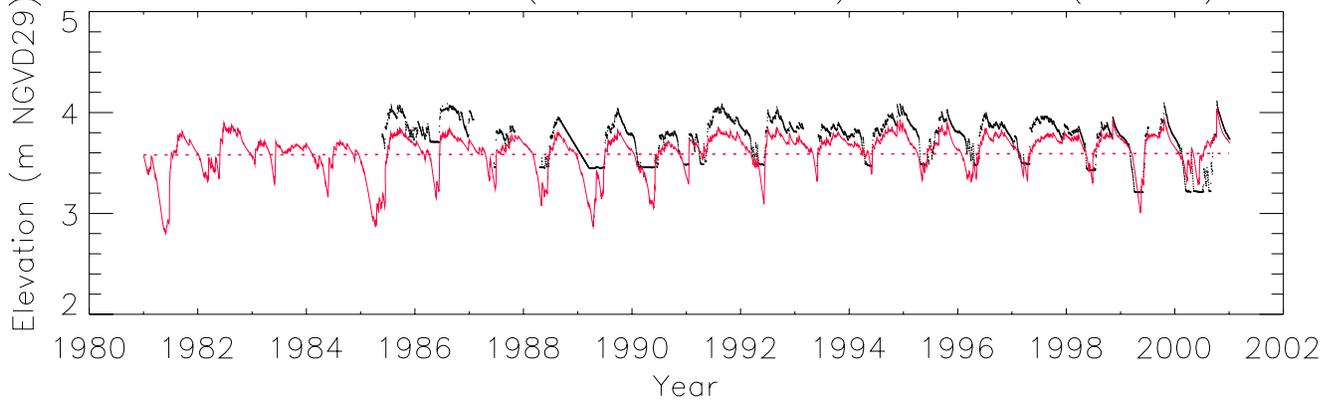




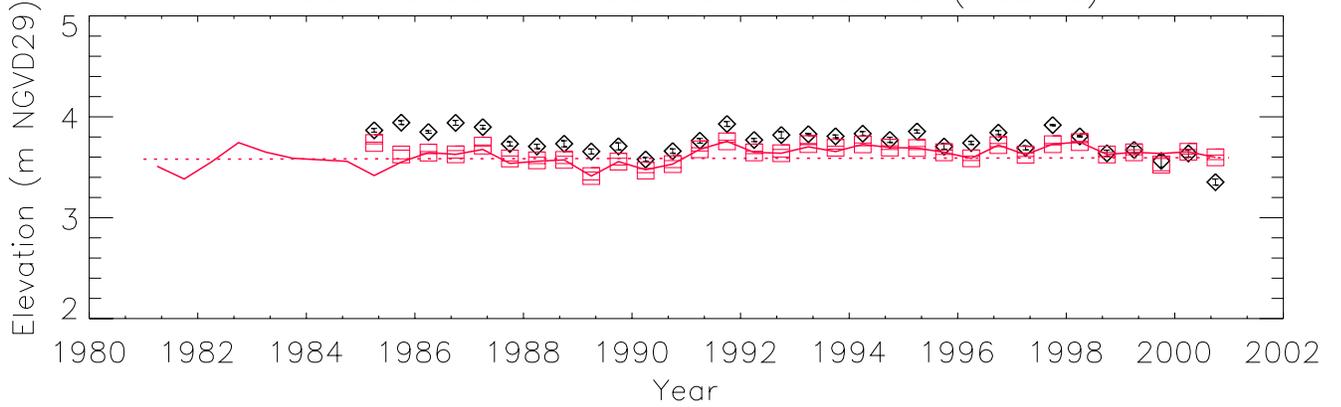




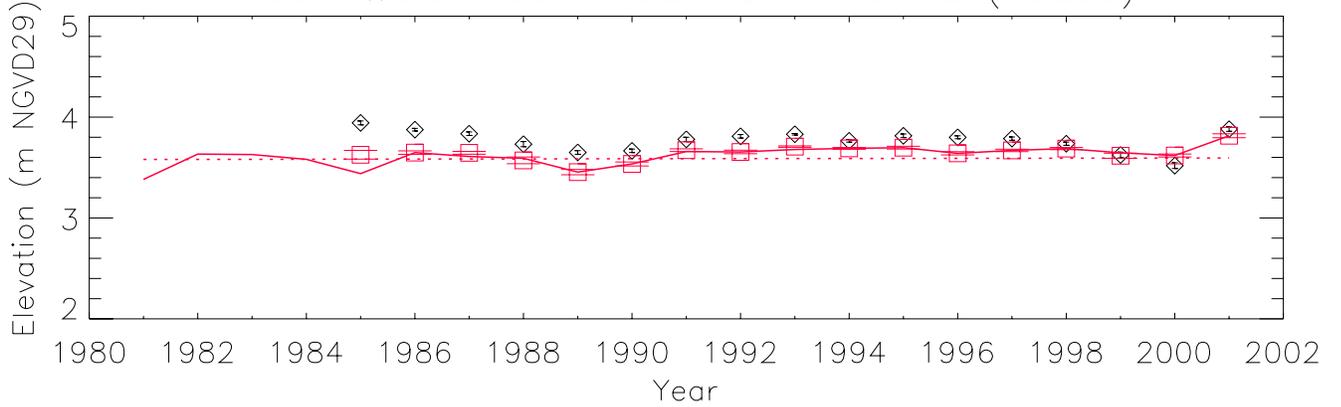
ELM2.5 Raw Data (Obs. N = 5208) – ROTT.S (45\_38)



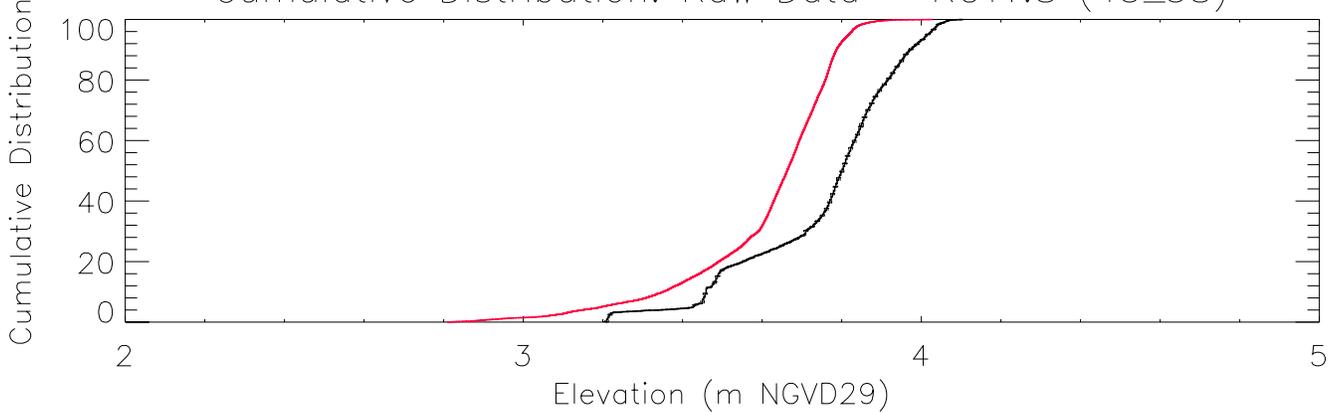
Mean: Season – 95% CI – ROTT.S (45\_38)

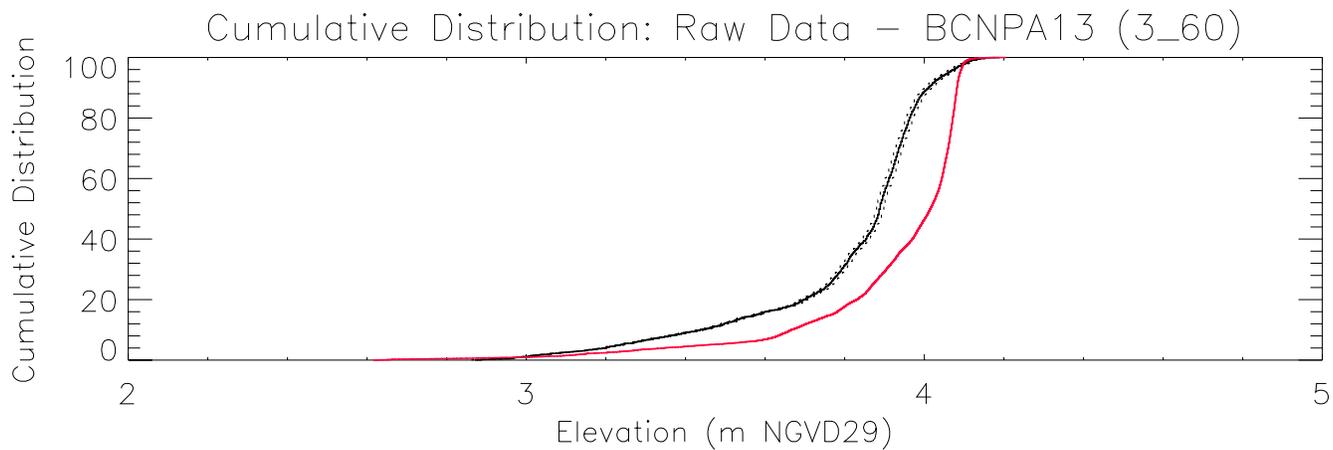
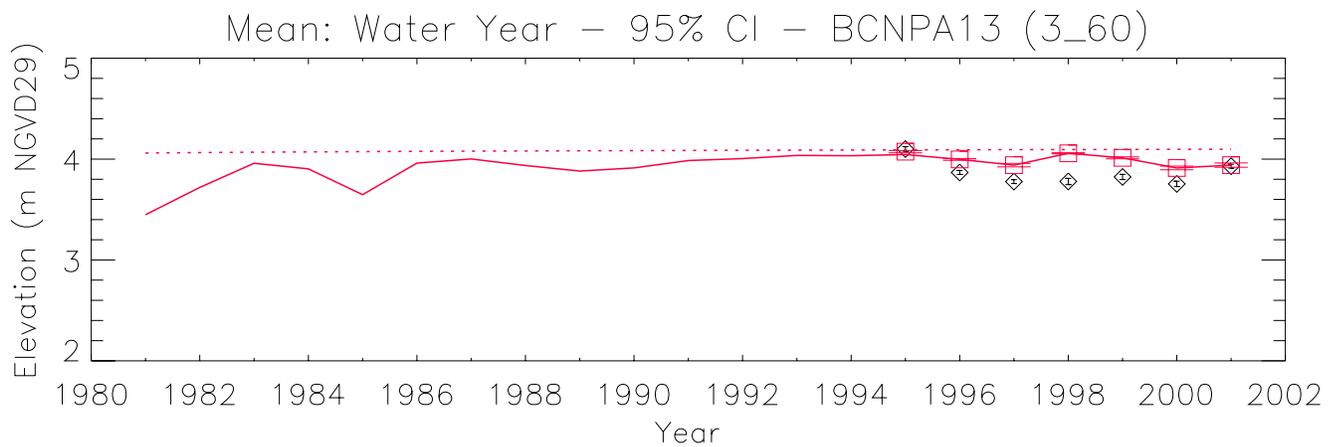
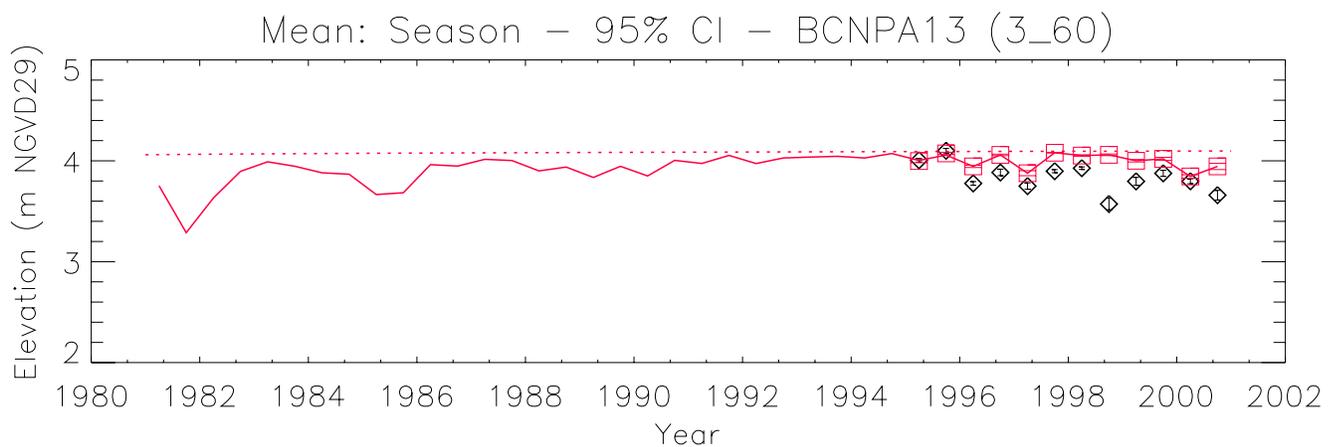
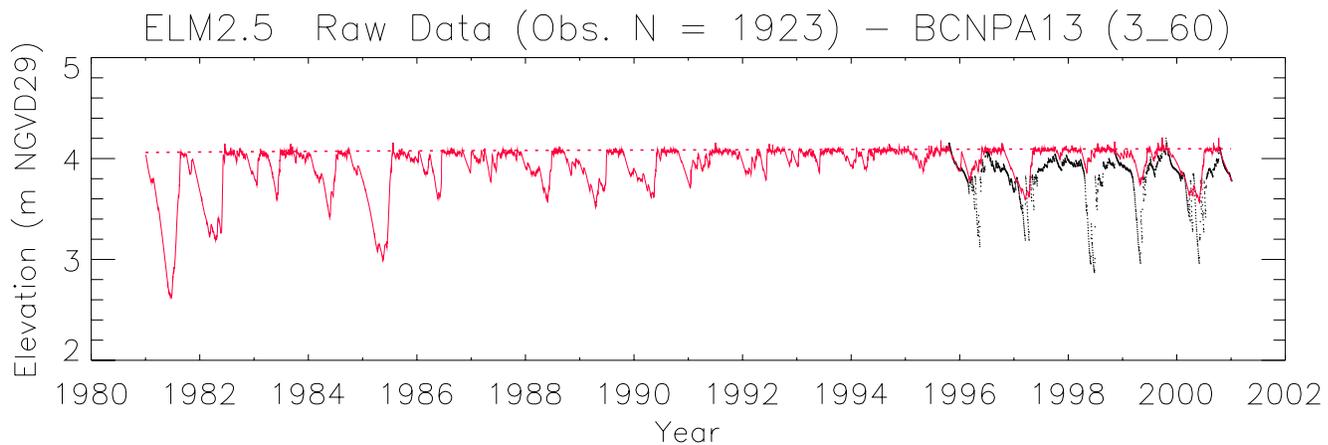


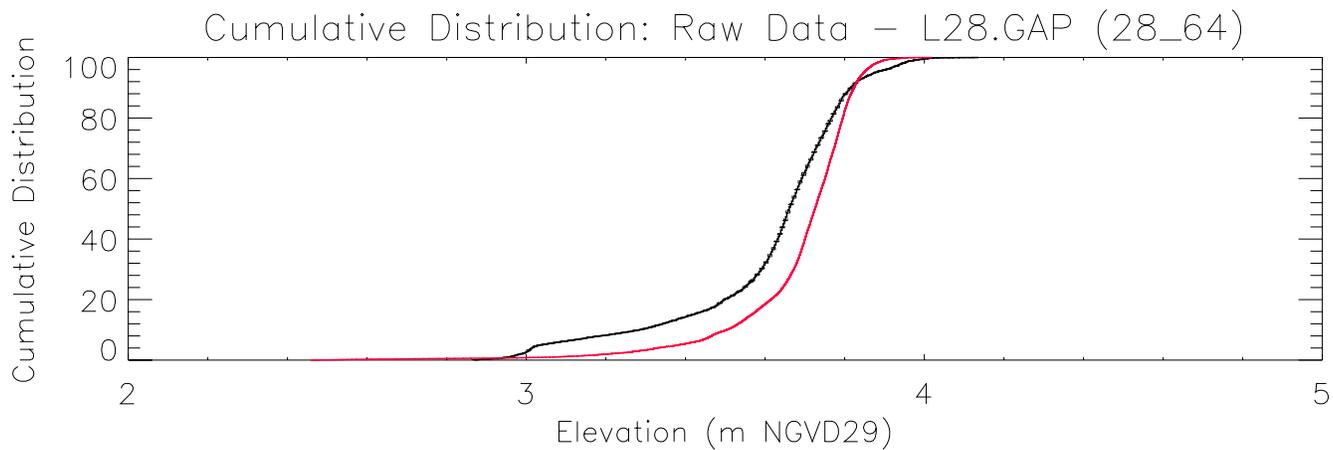
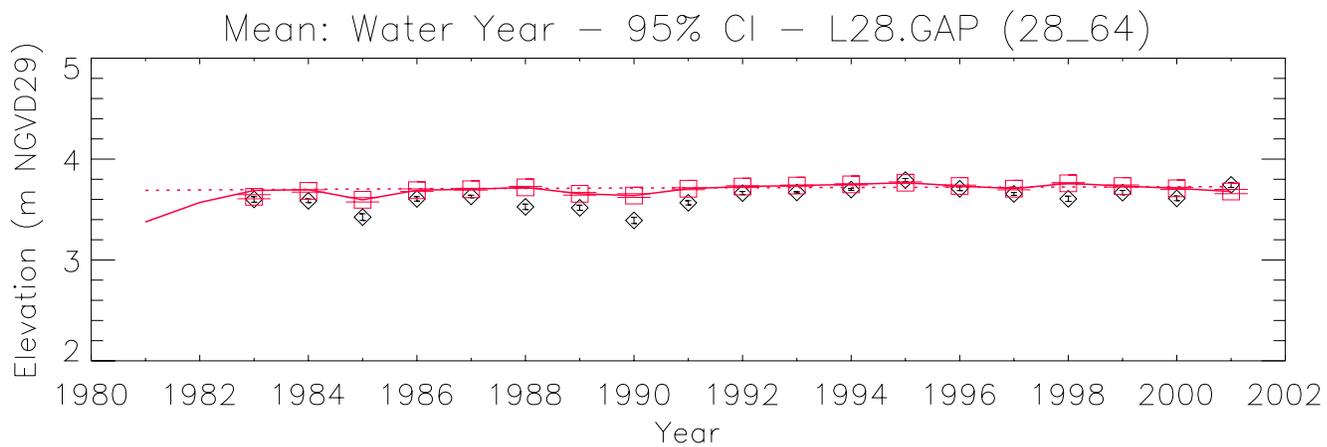
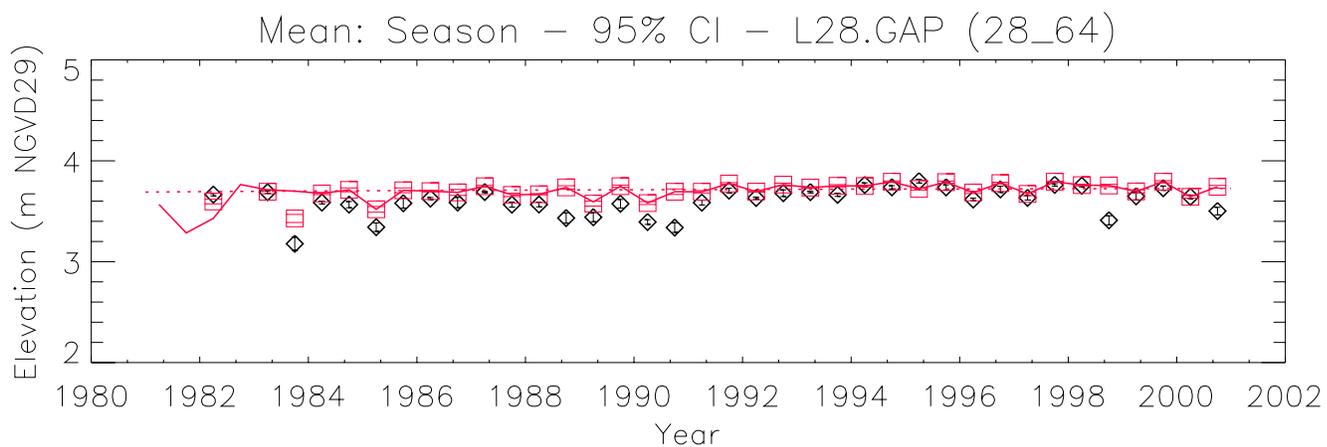
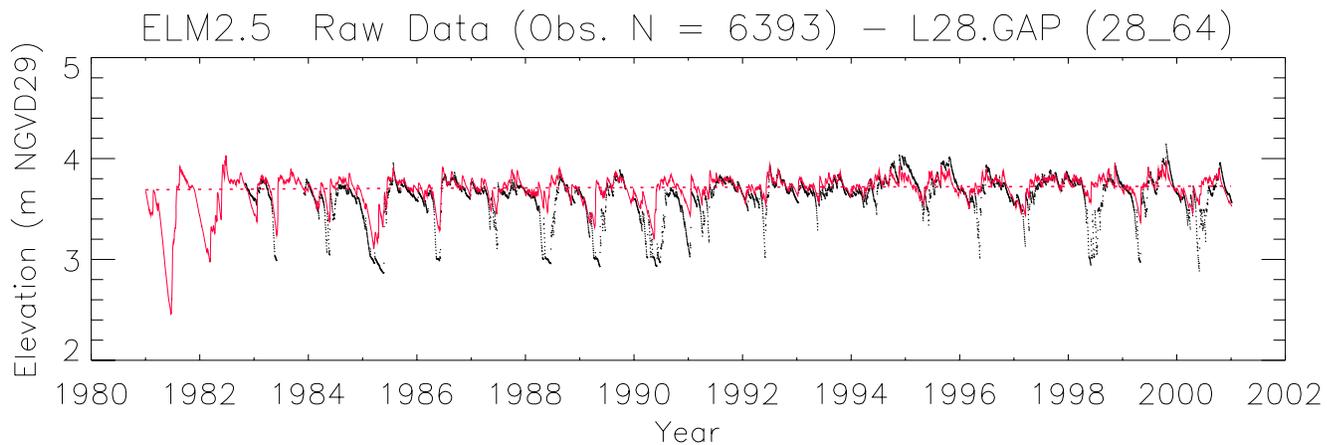
Mean: Water Year – 95% CI – ROTT.S (45\_38)

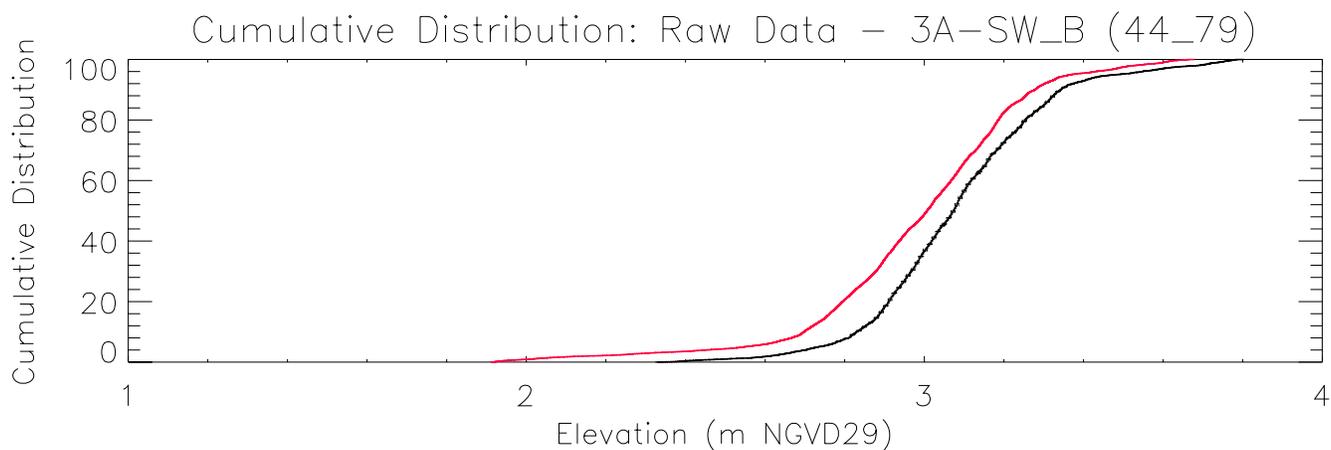
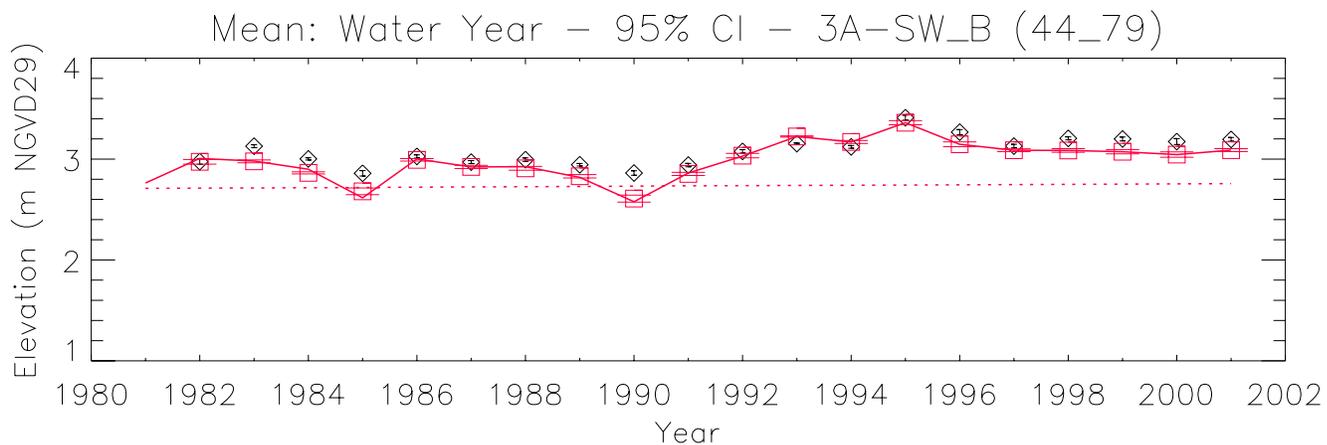
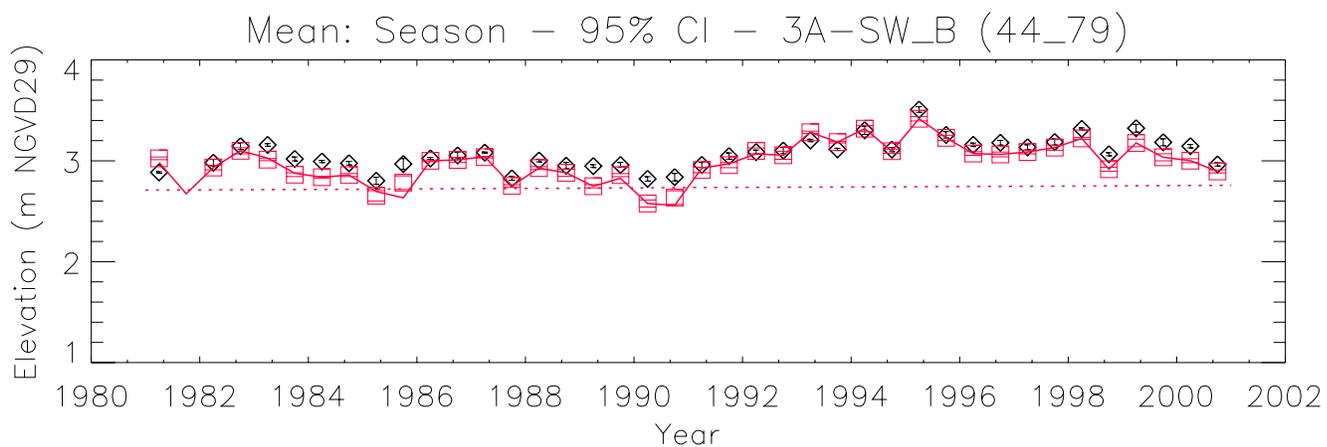
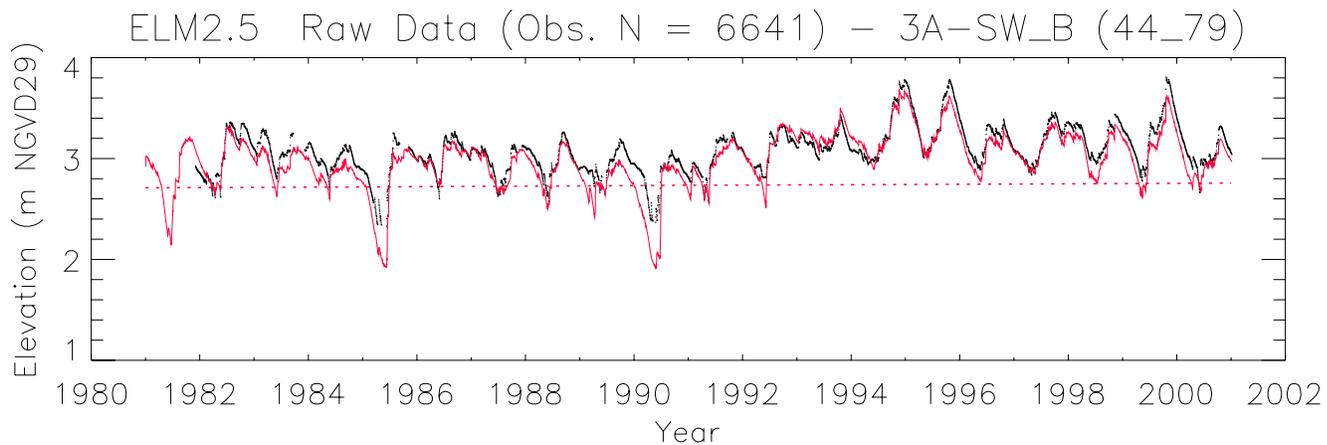


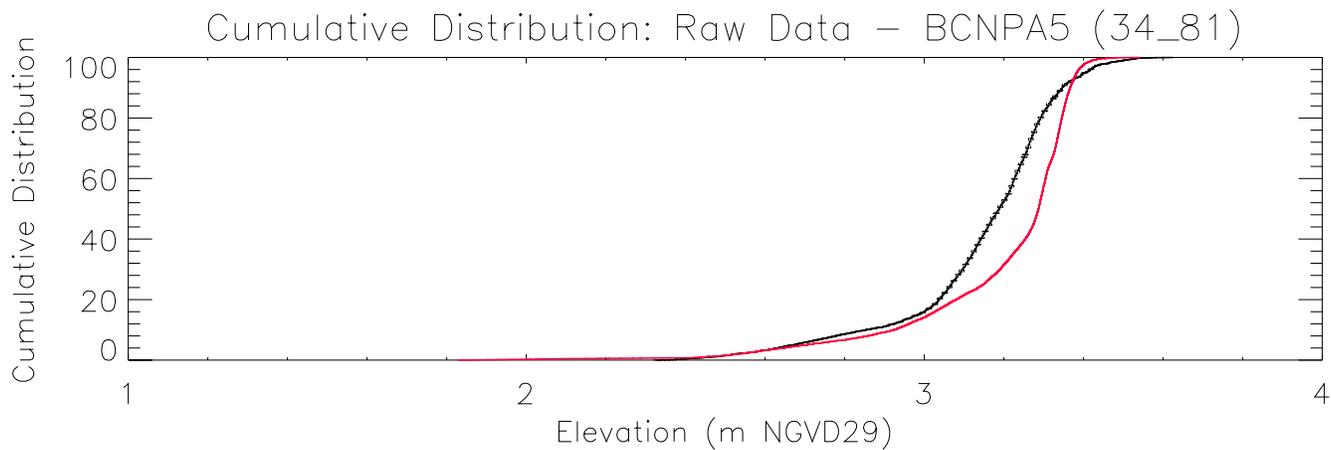
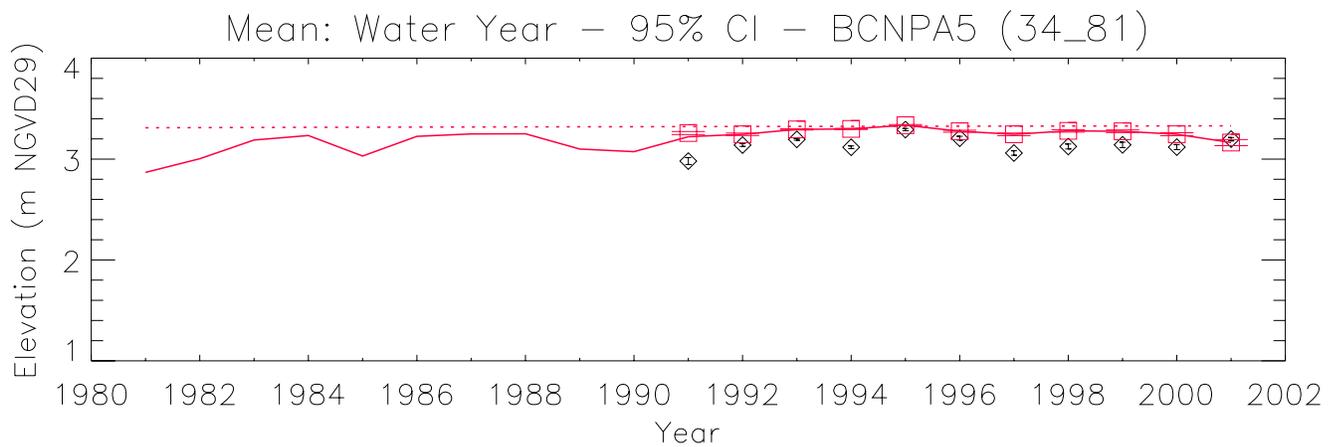
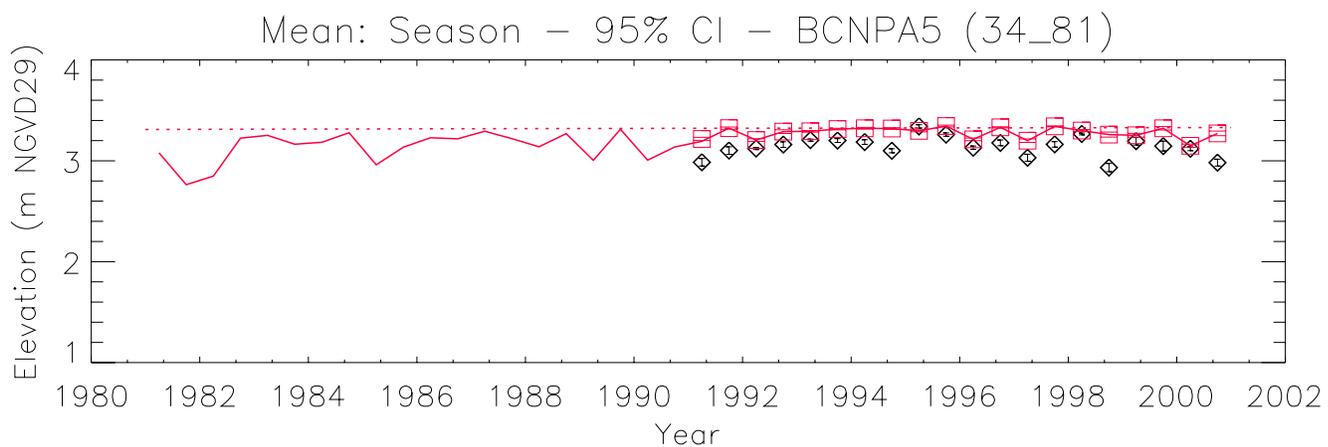
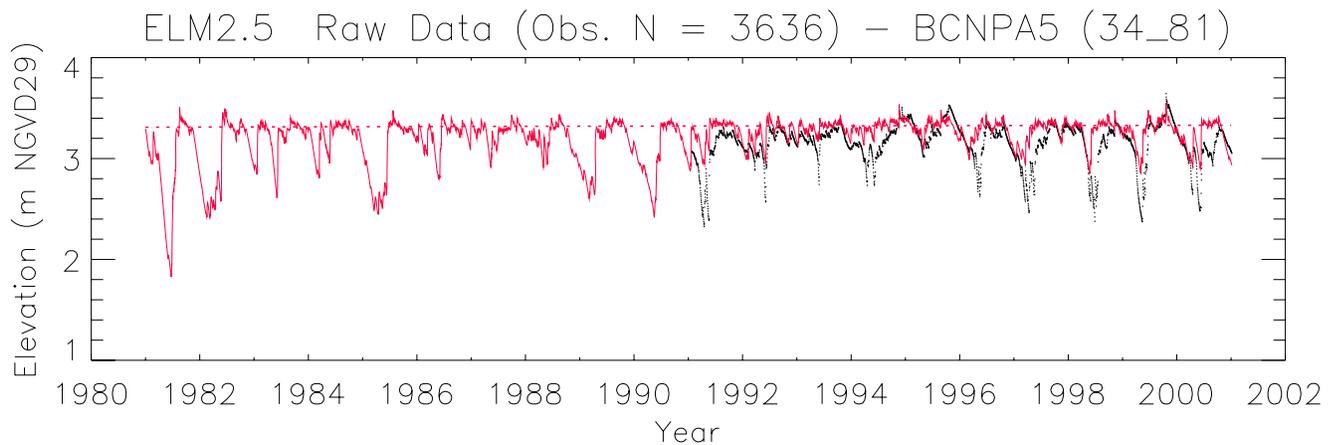
Cumulative Distribution: Raw Data – ROTT.S (45\_38)

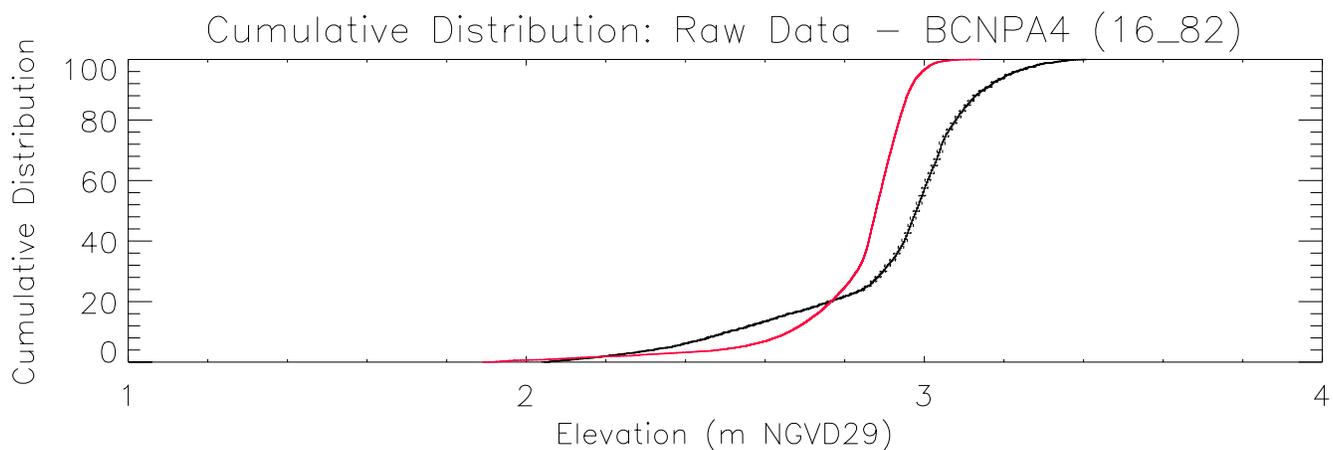
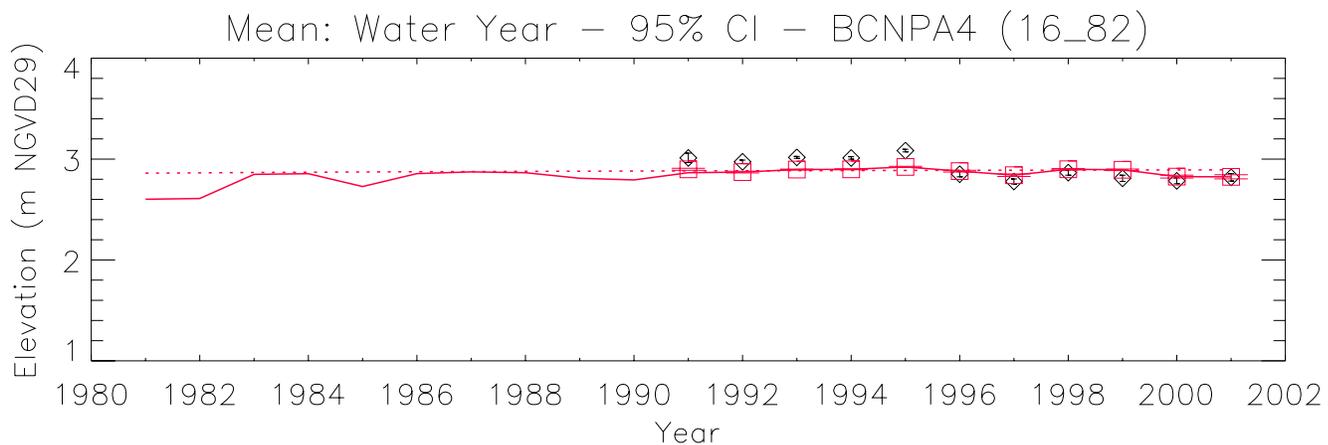
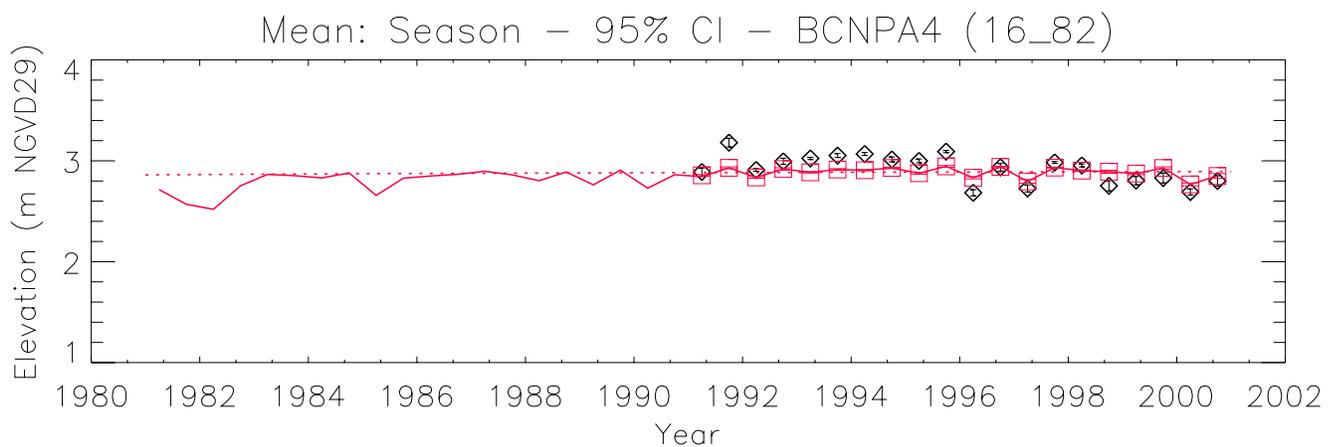
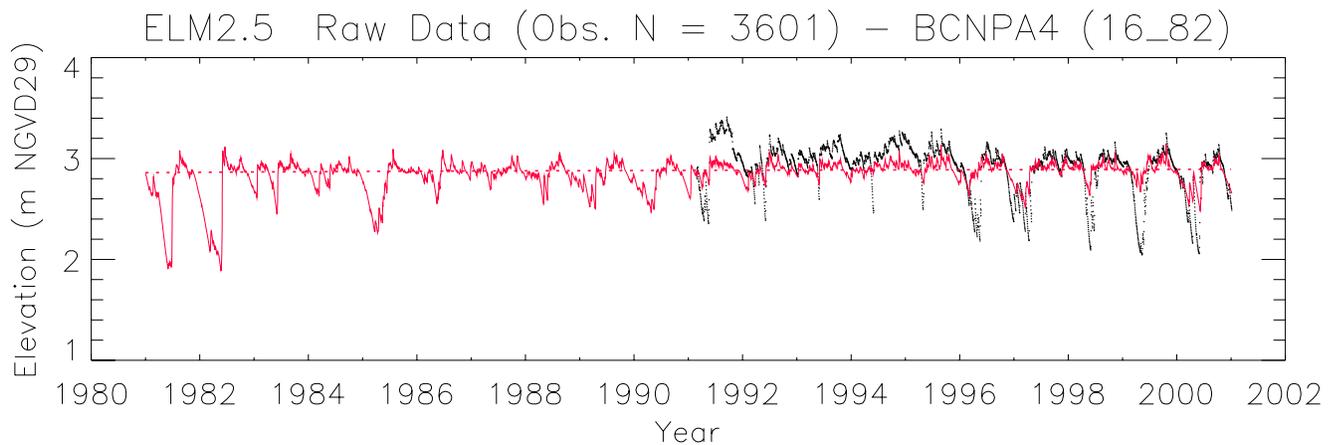


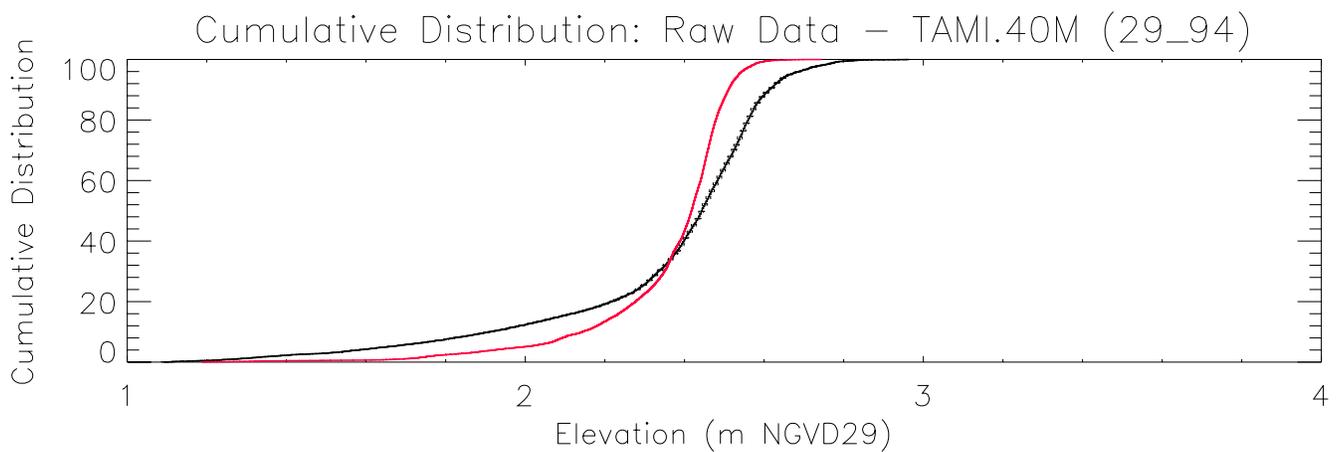
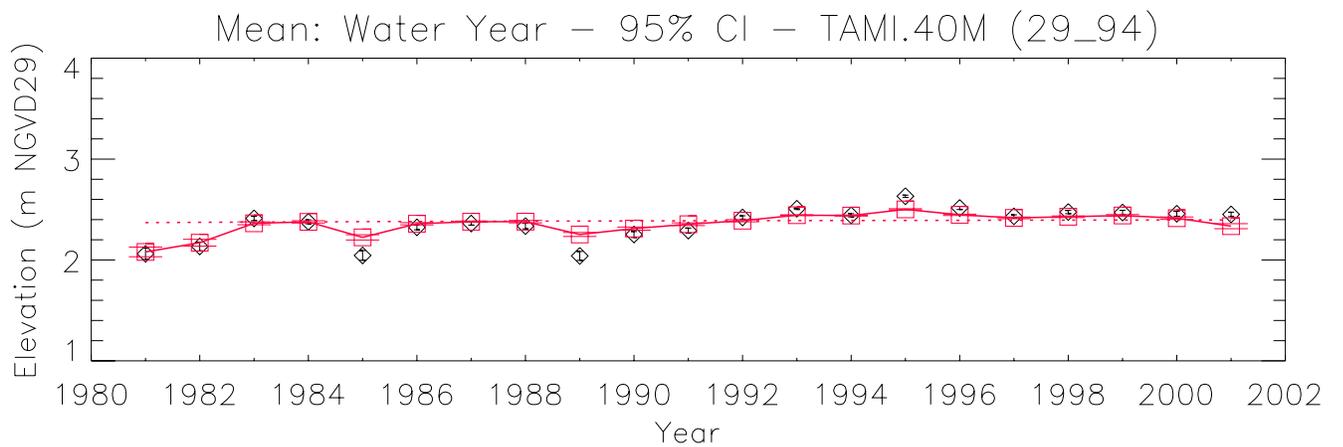
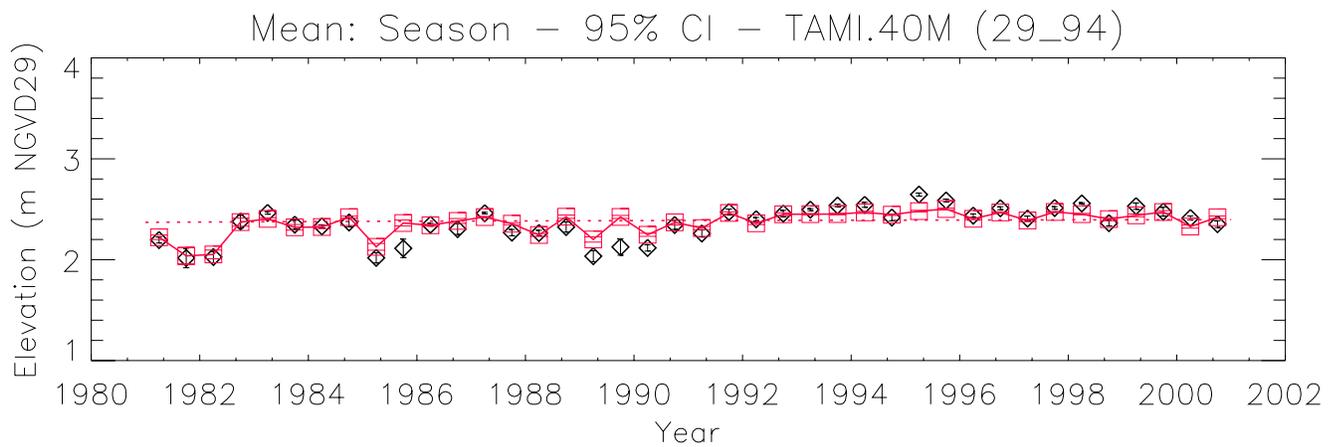
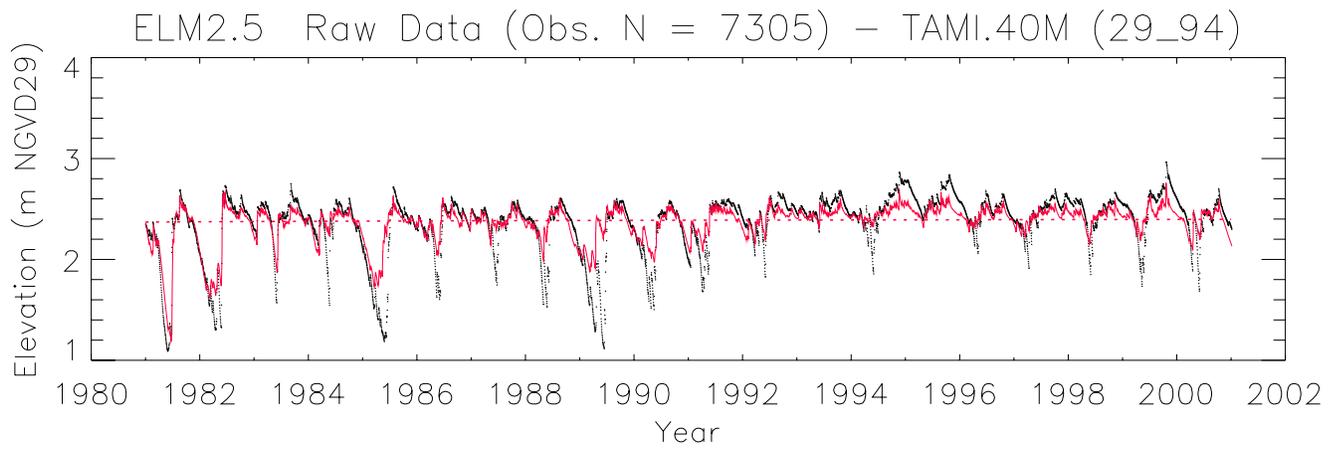


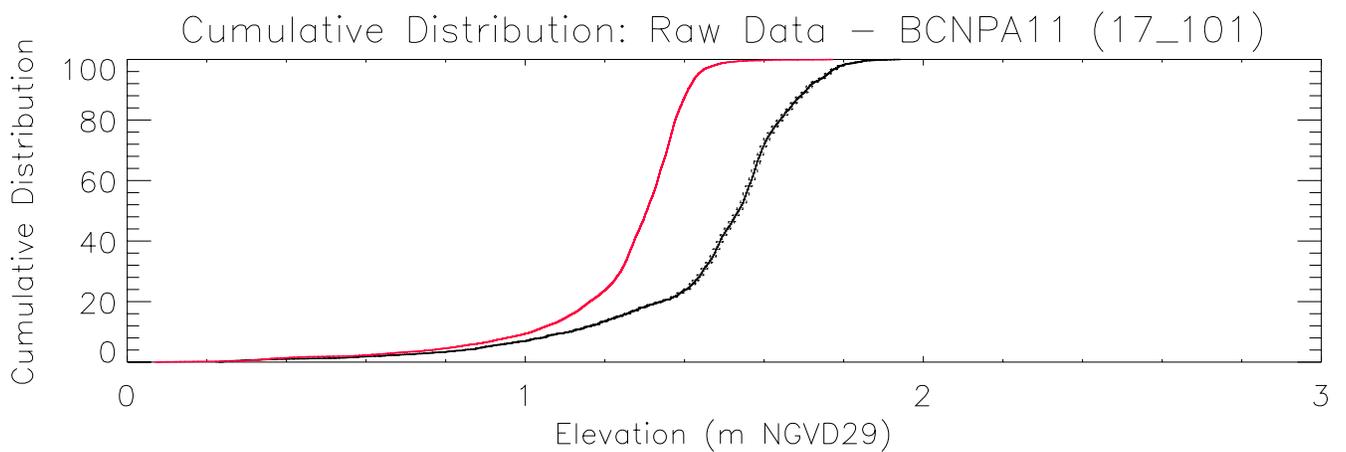
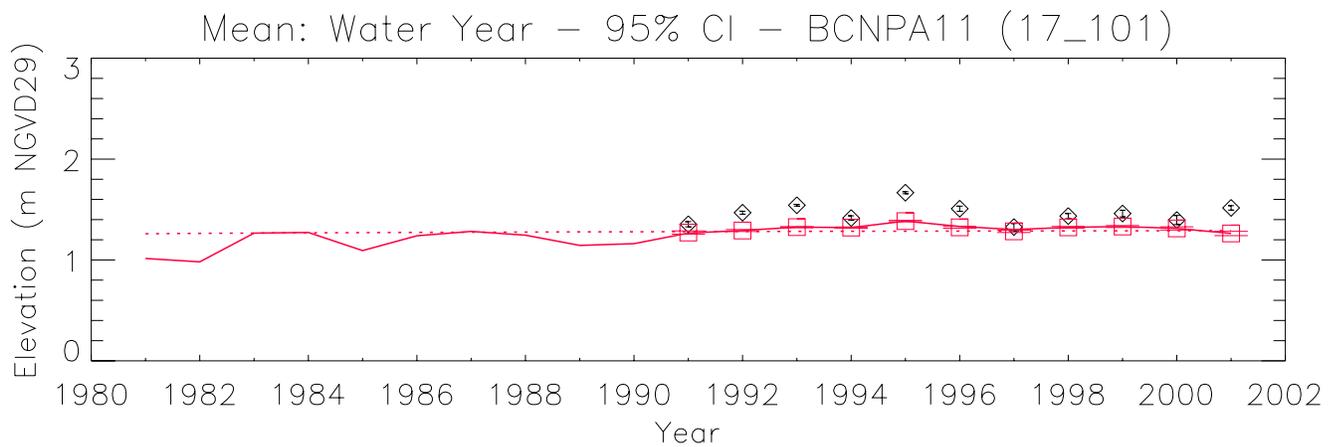
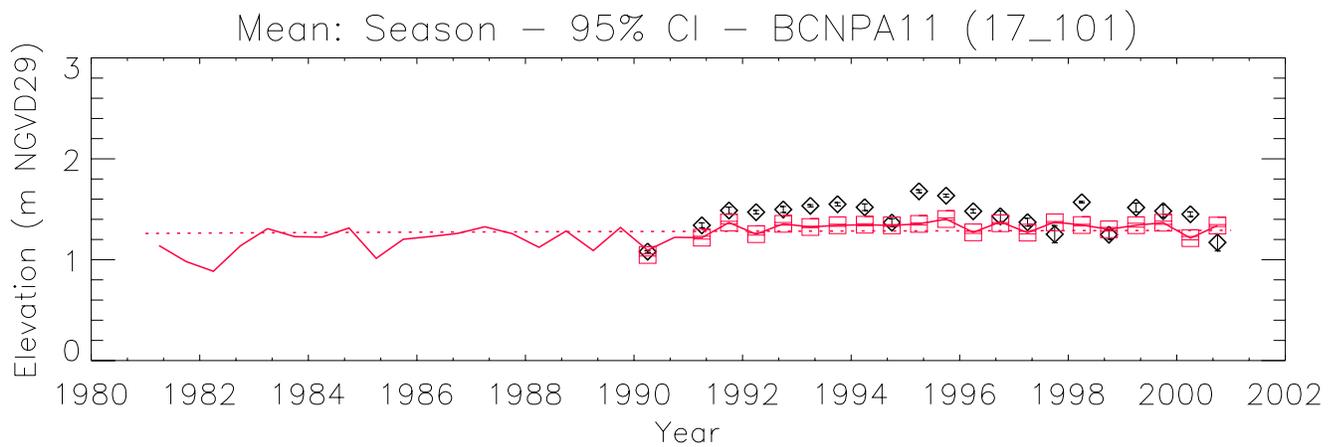
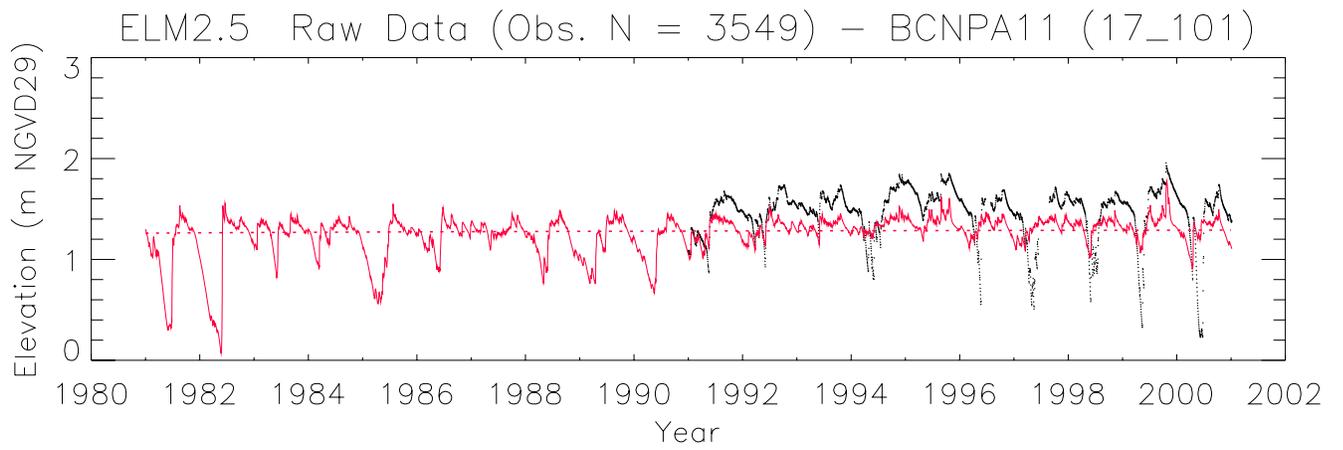


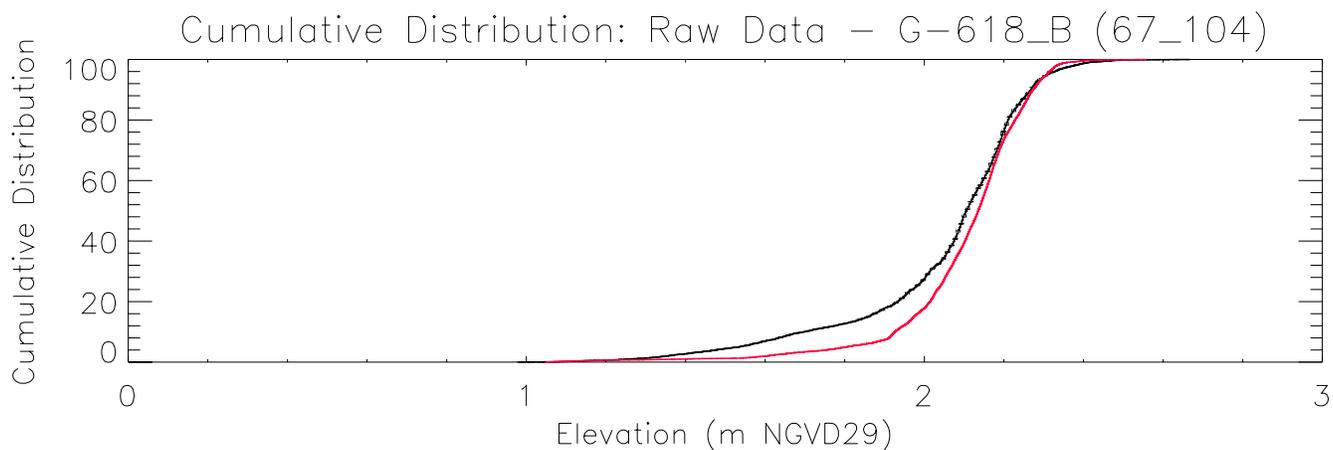
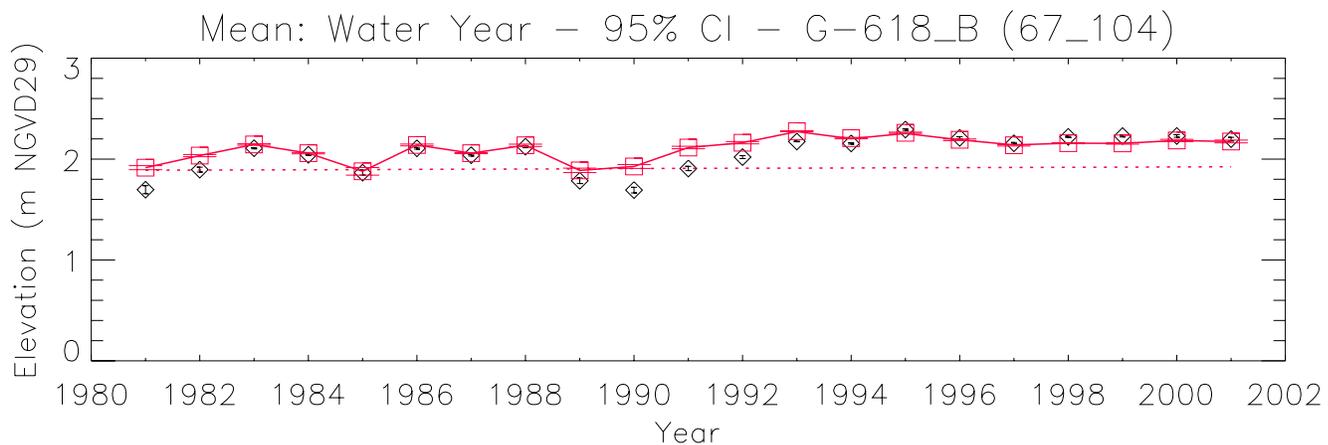
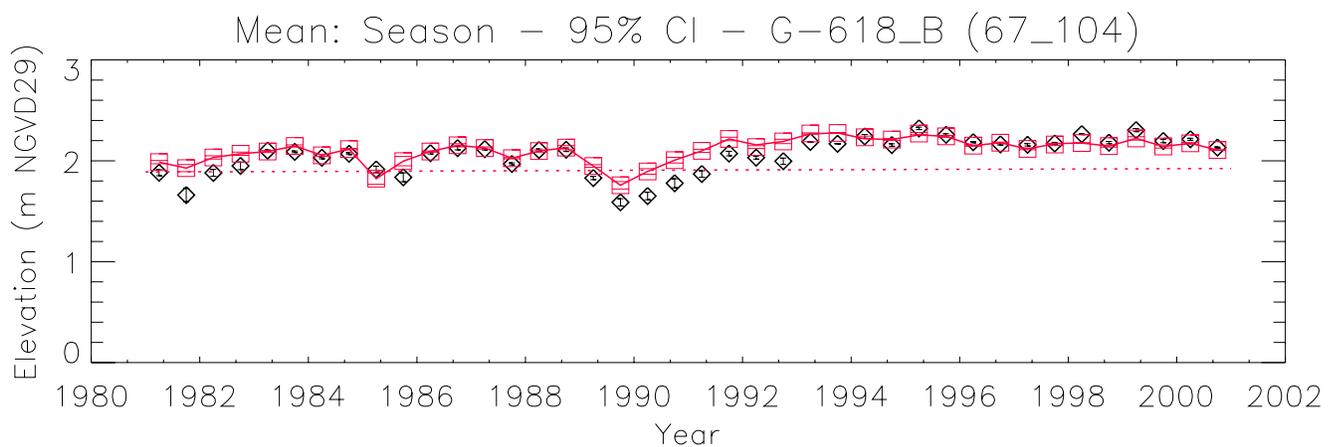
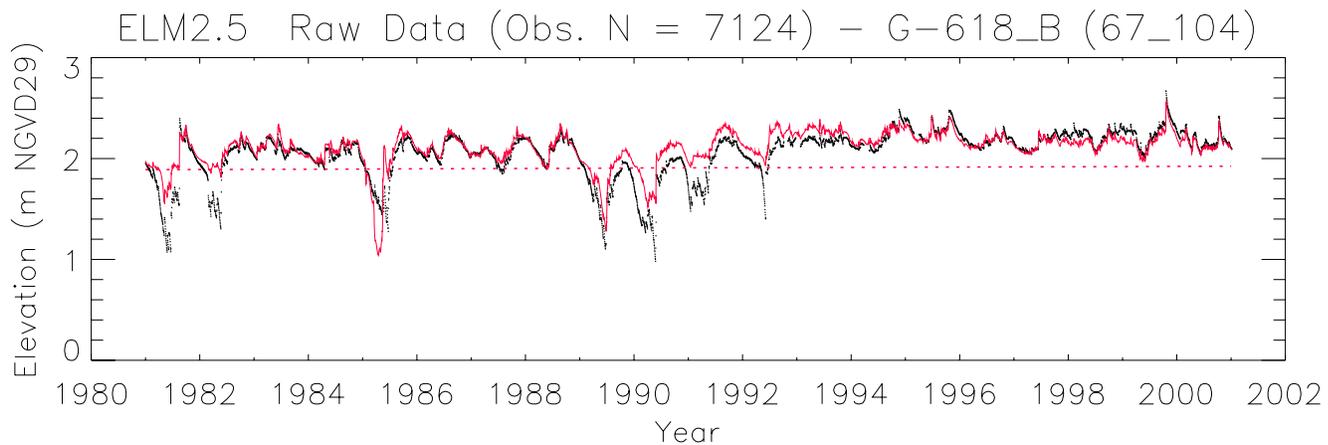




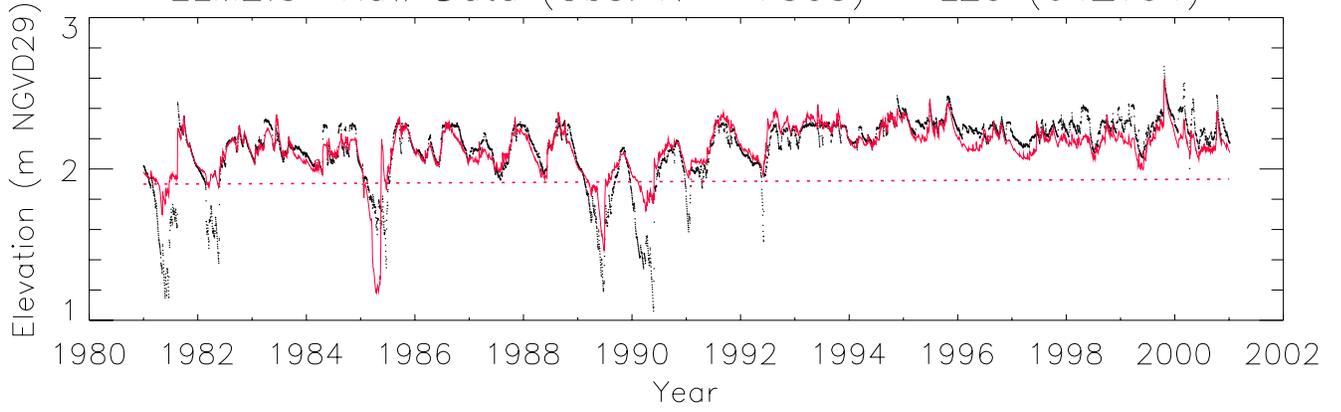




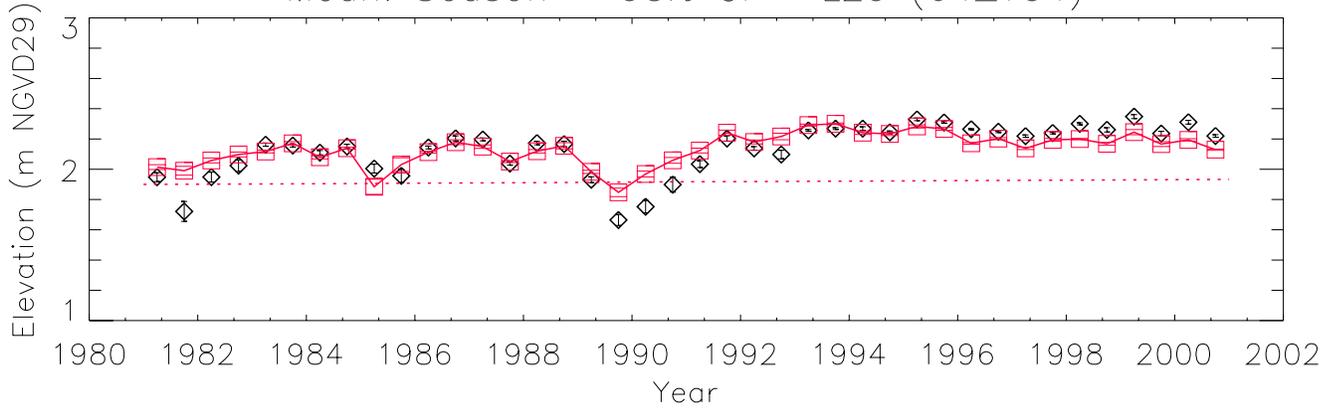




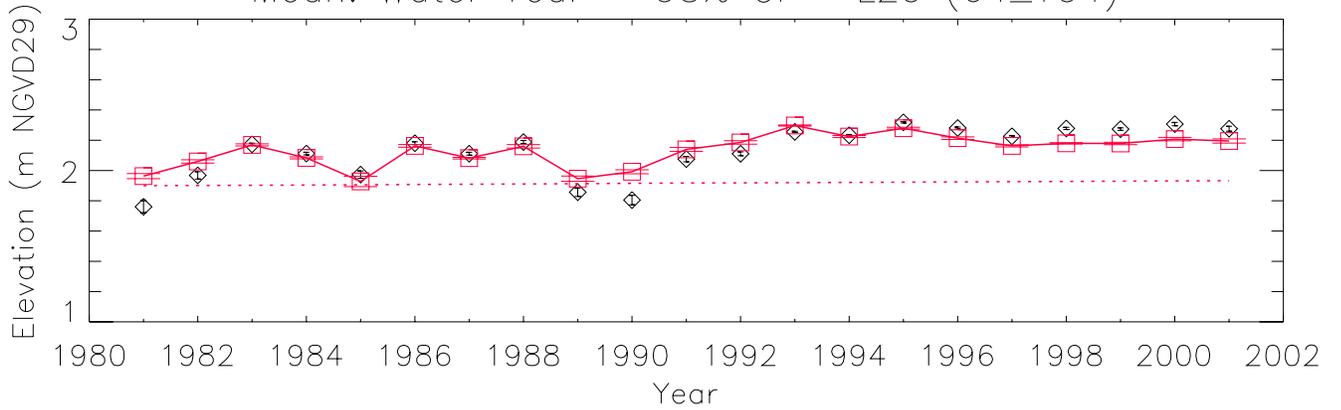
ELM2.5 Raw Data (Obs. N = 7305) – L29 (64\_104)



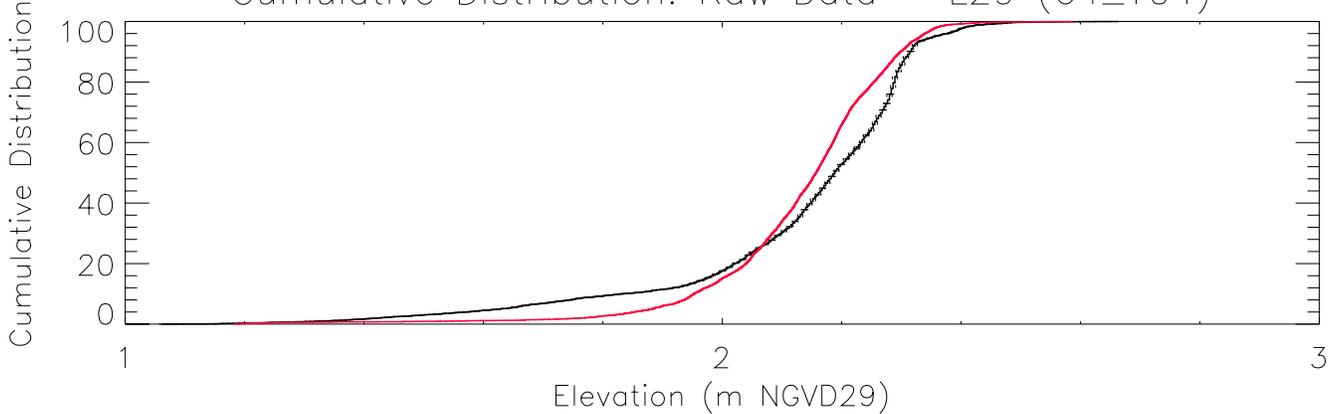
Mean: Season – 95% CI – L29 (64\_104)

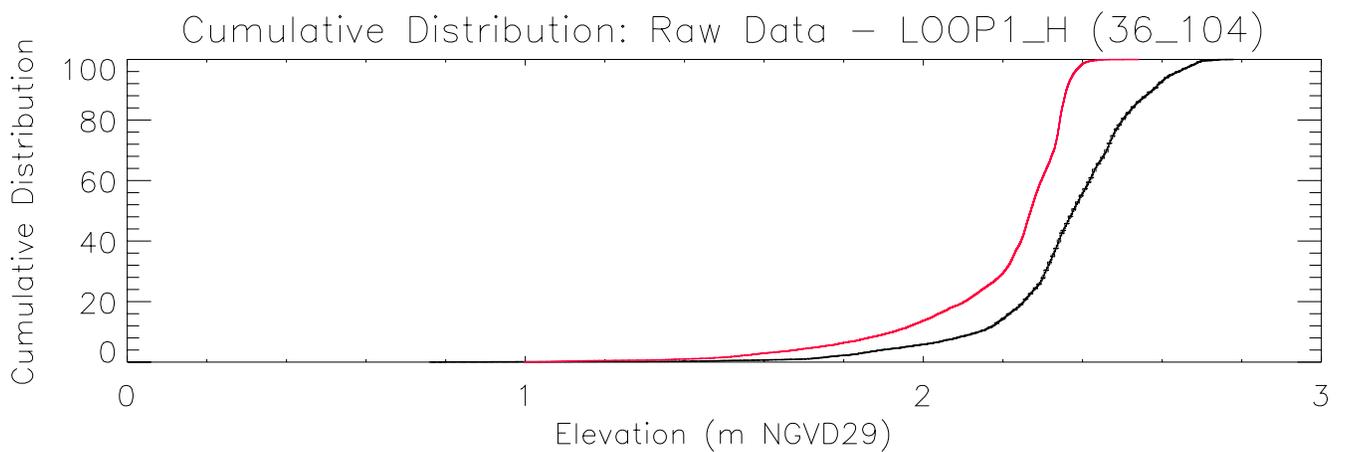
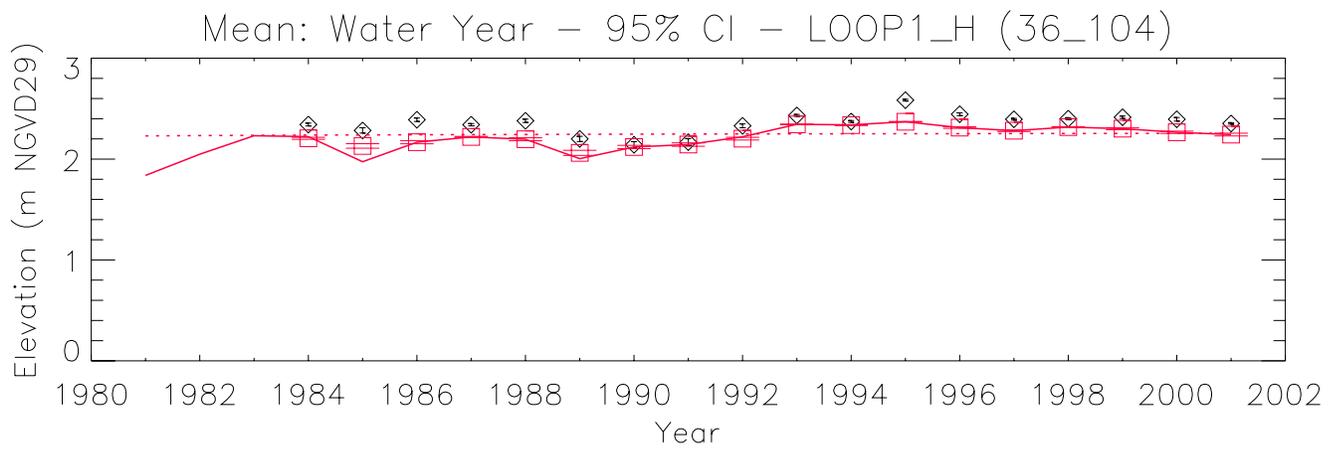
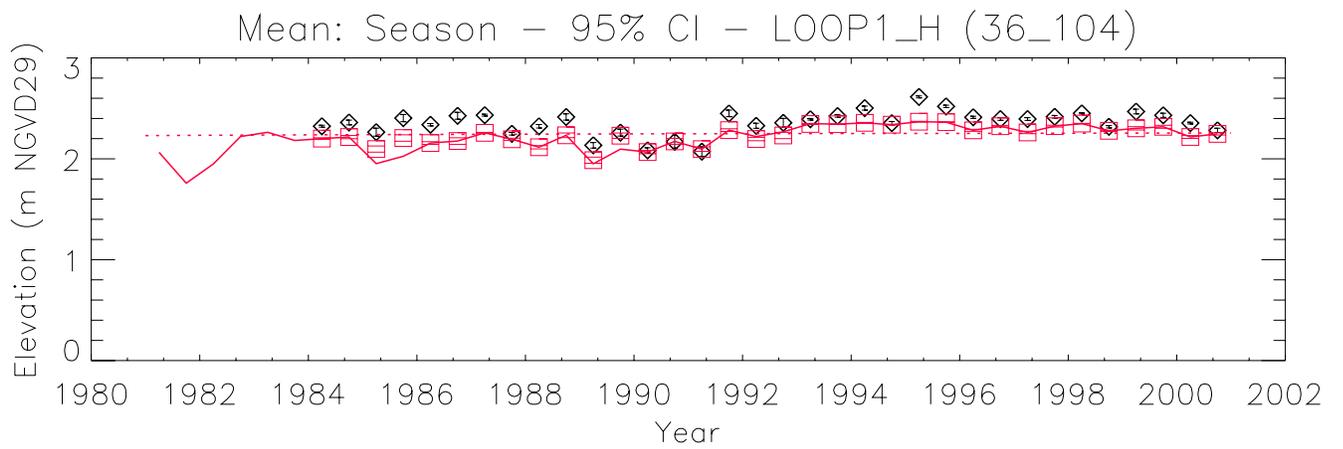
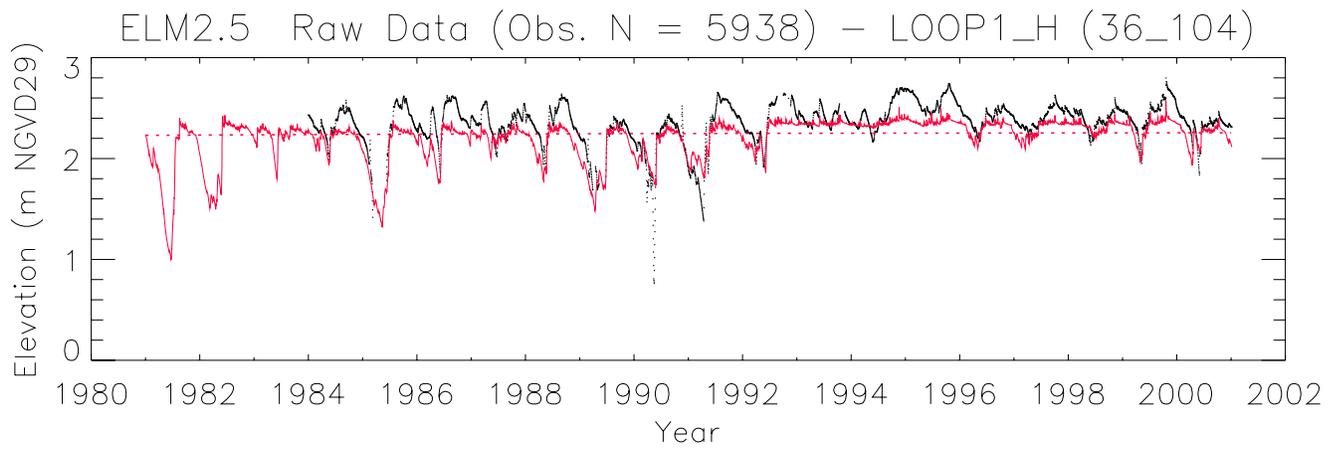


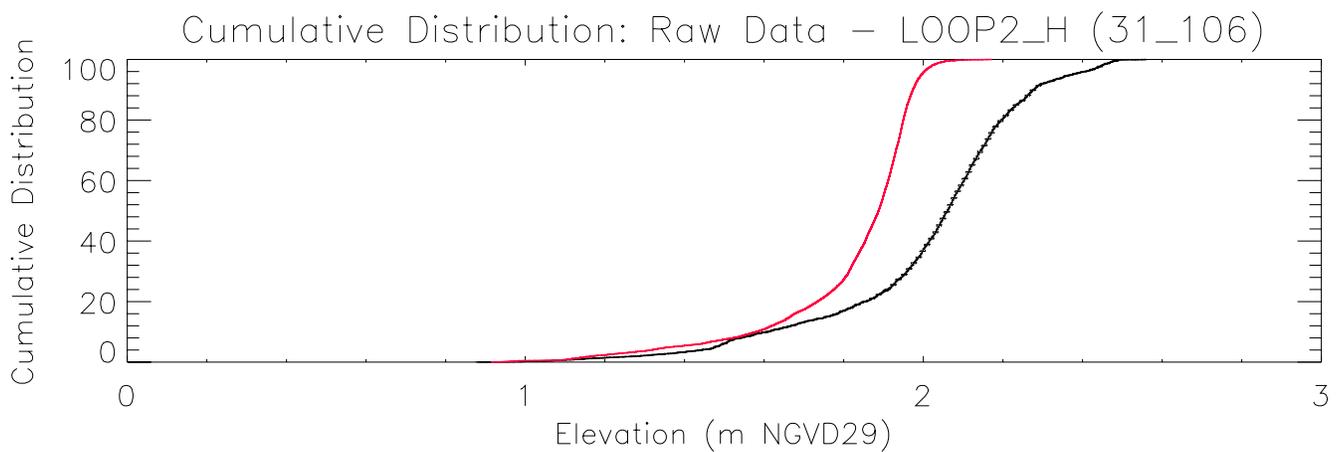
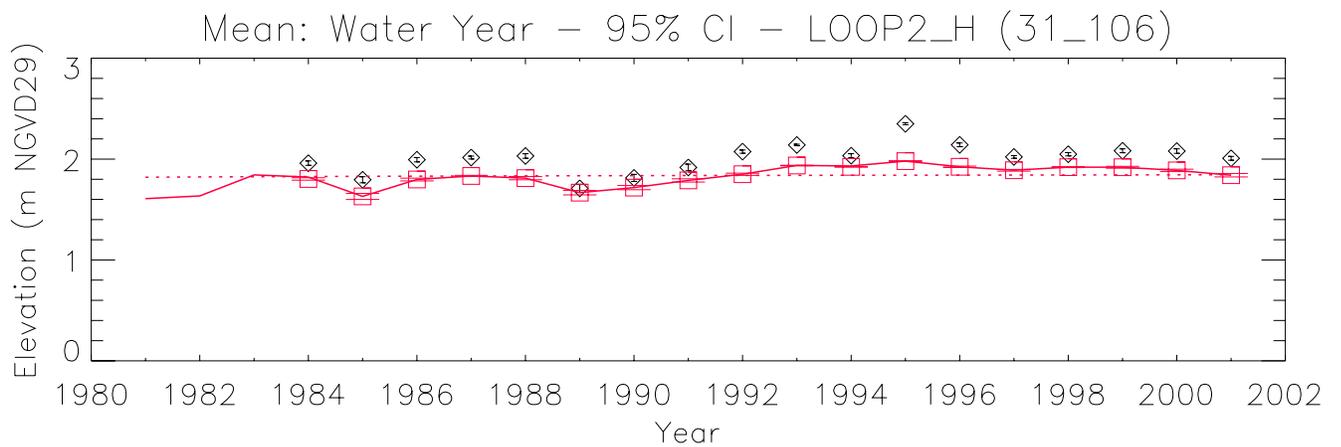
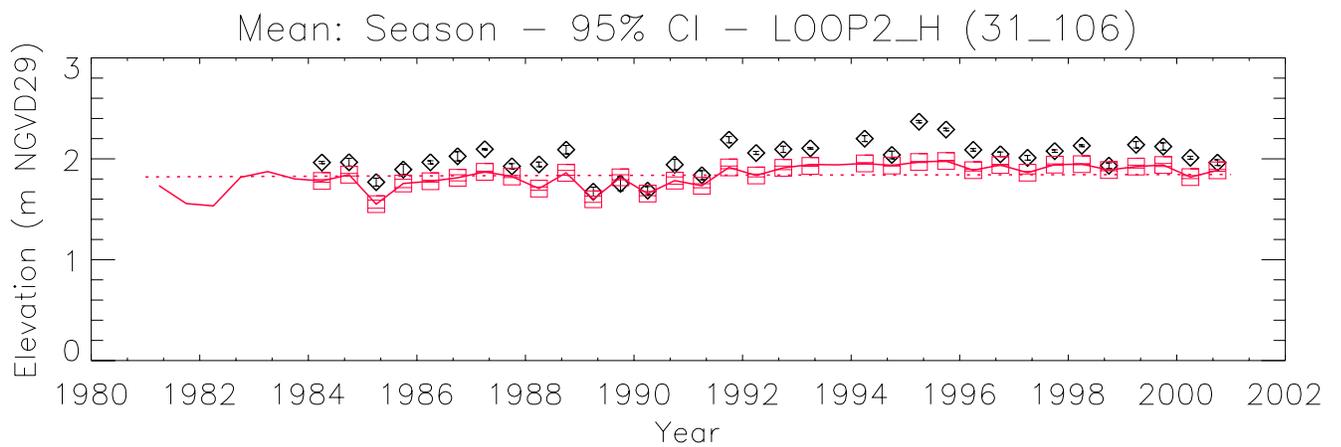
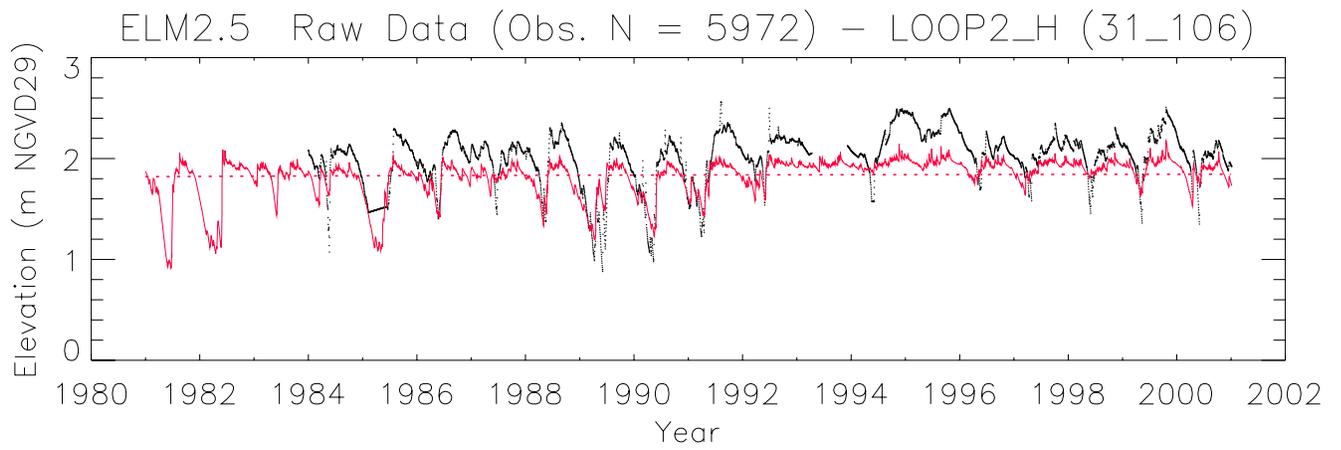
Mean: Water Year – 95% CI – L29 (64\_104)

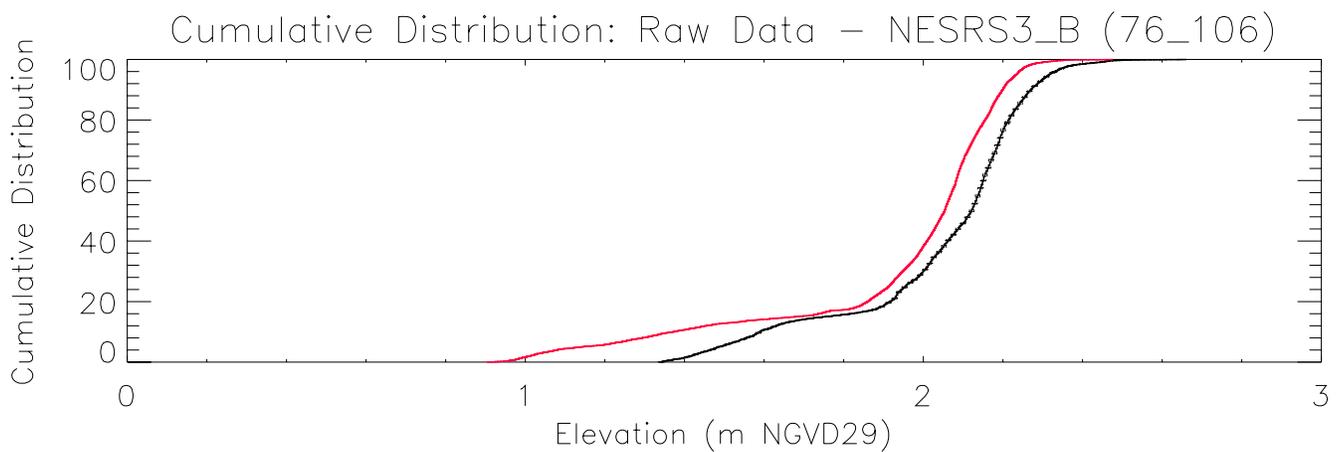
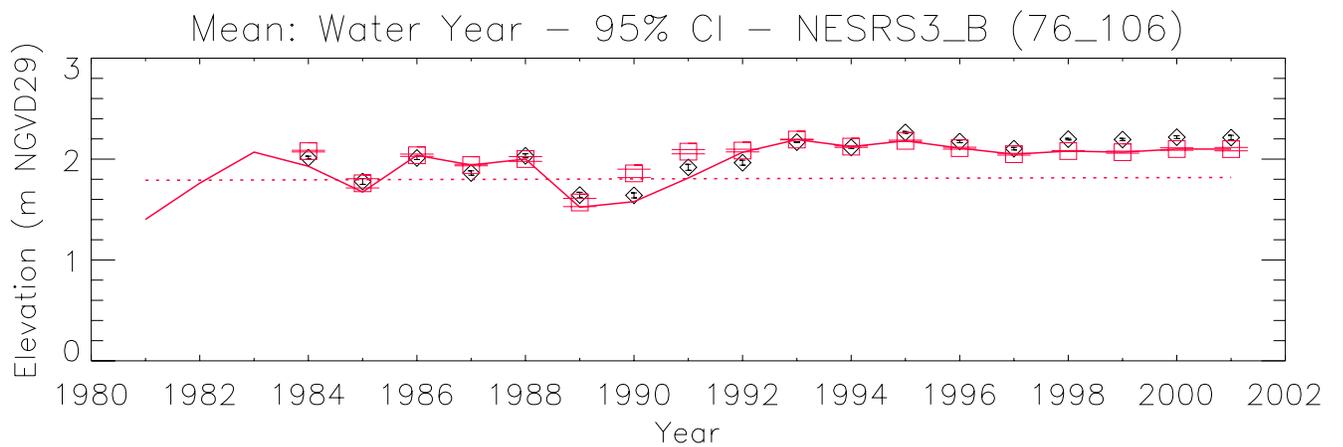
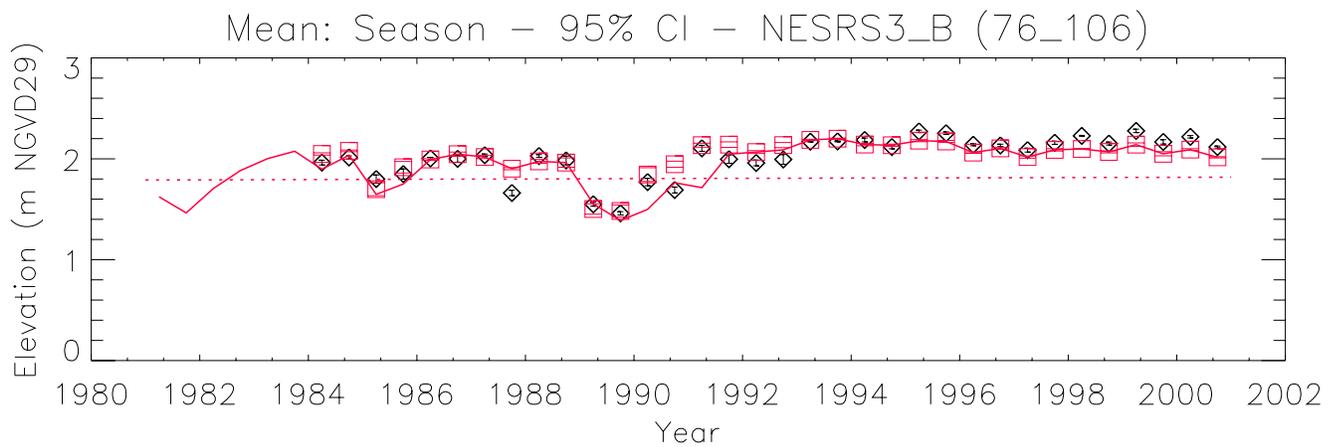
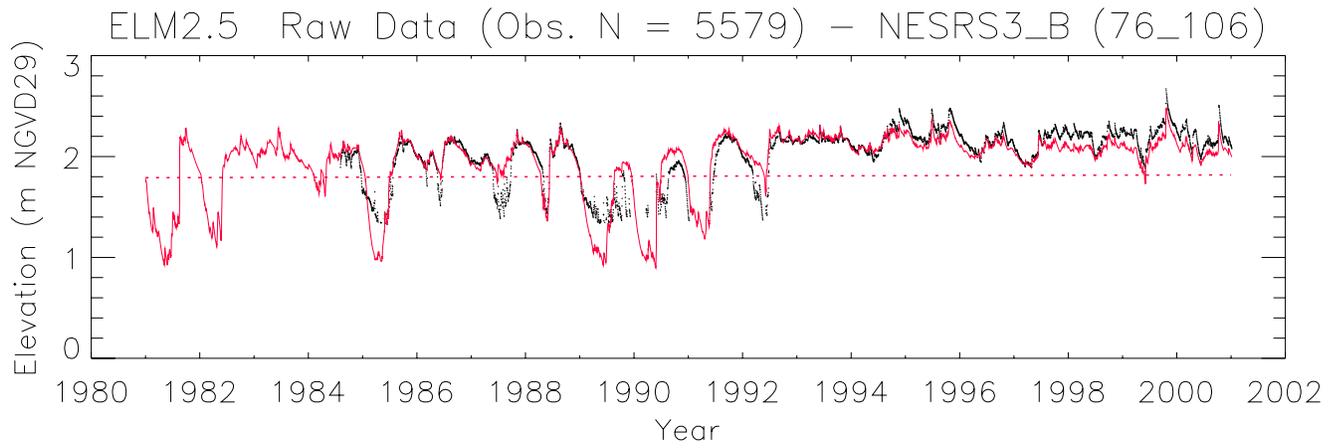


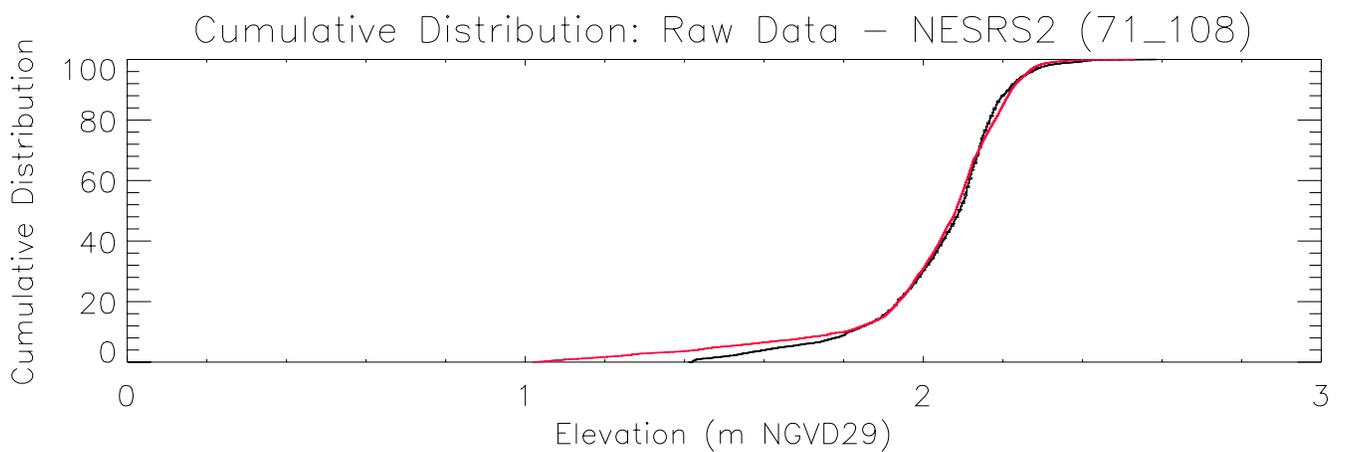
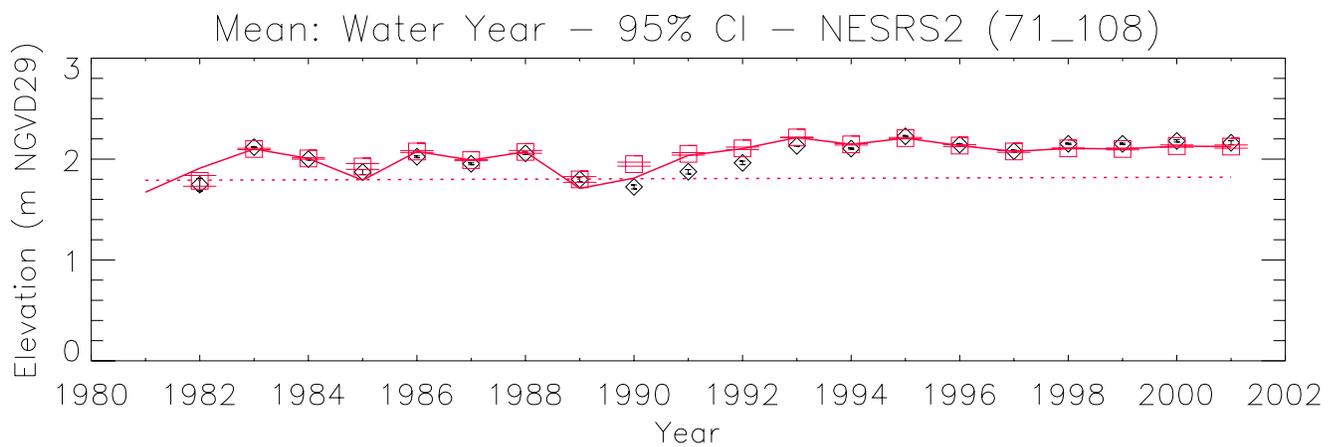
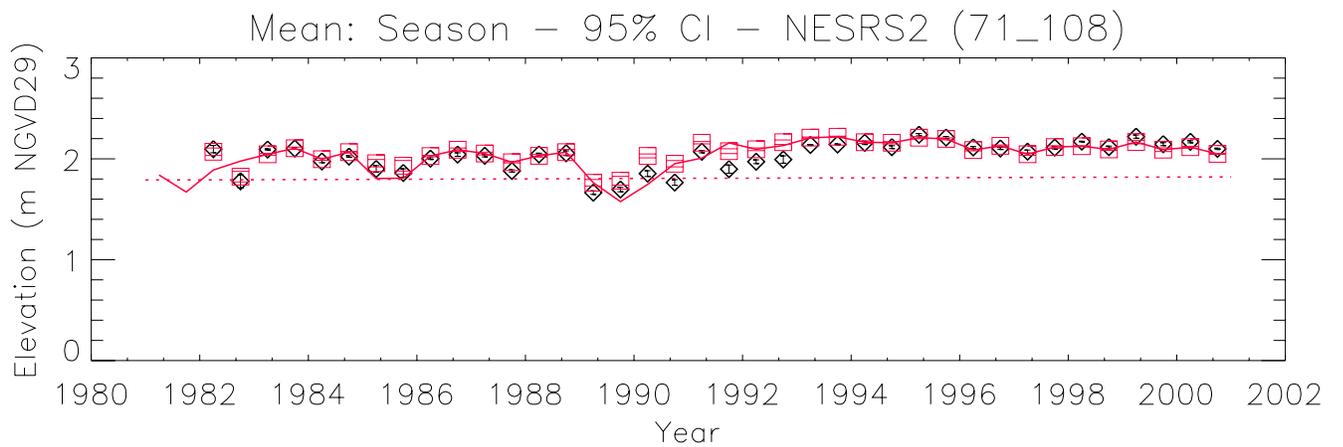
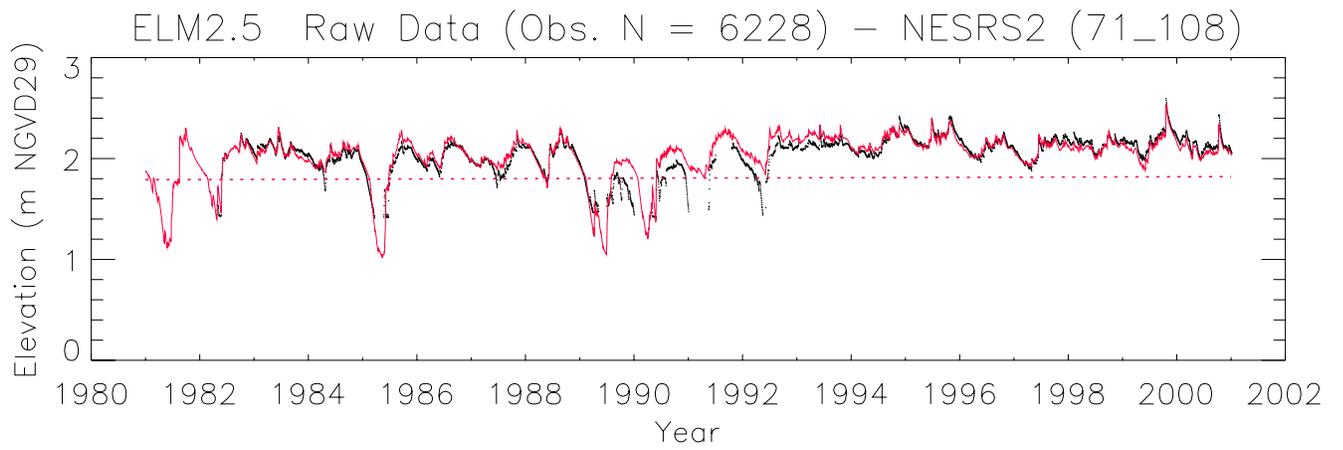
Cumulative Distribution: Raw Data – L29 (64\_104)

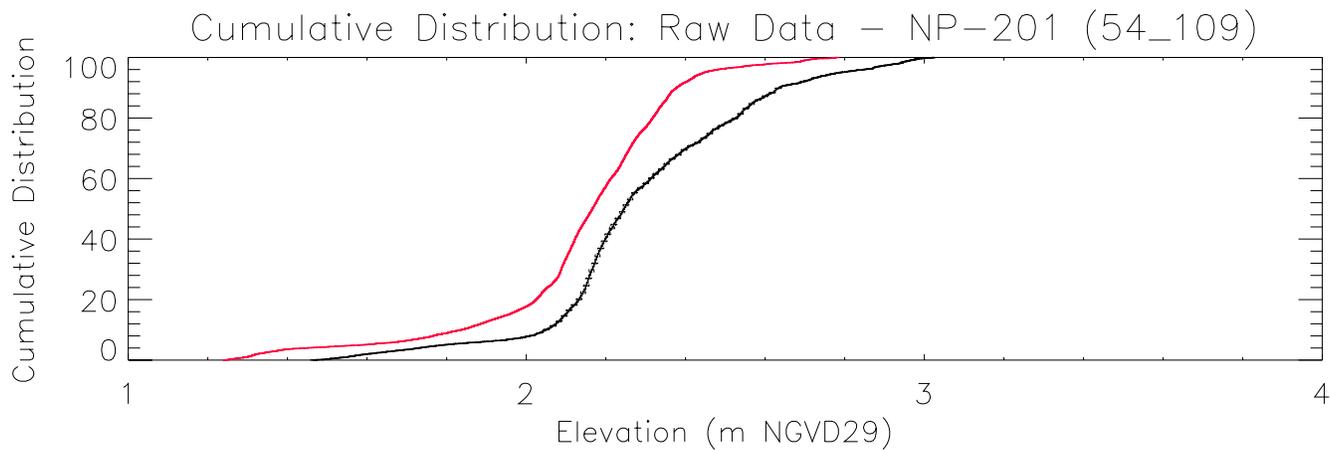
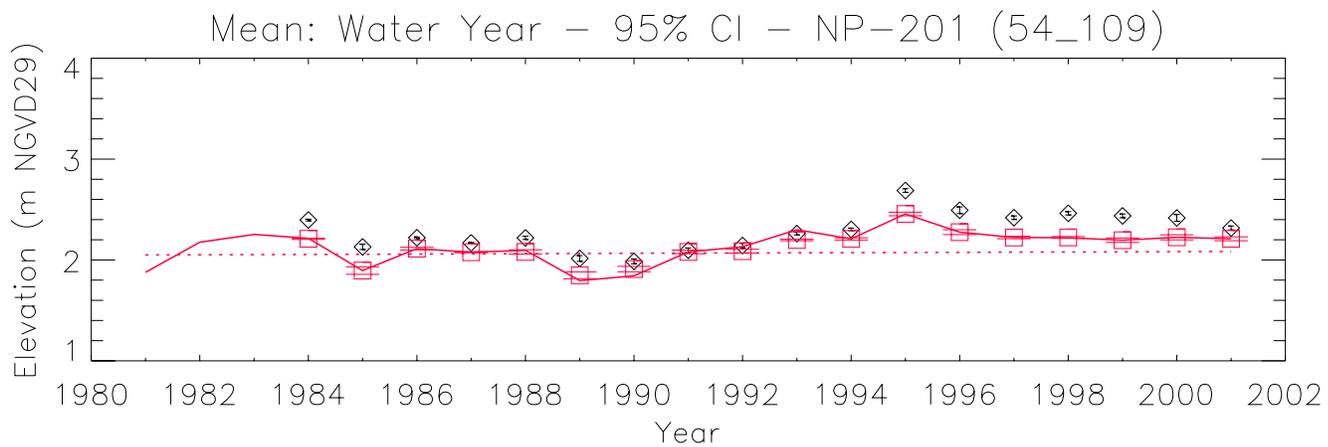
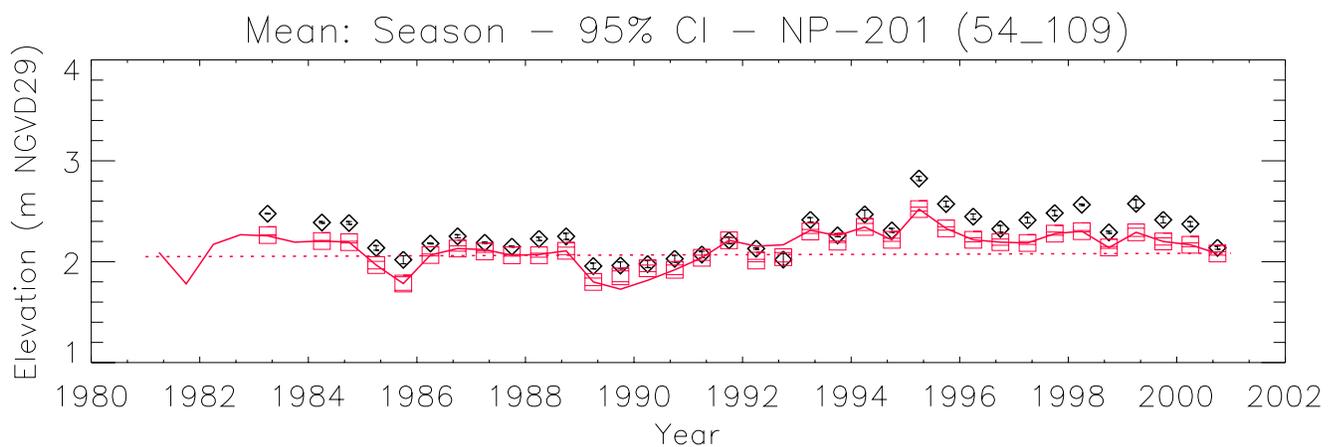
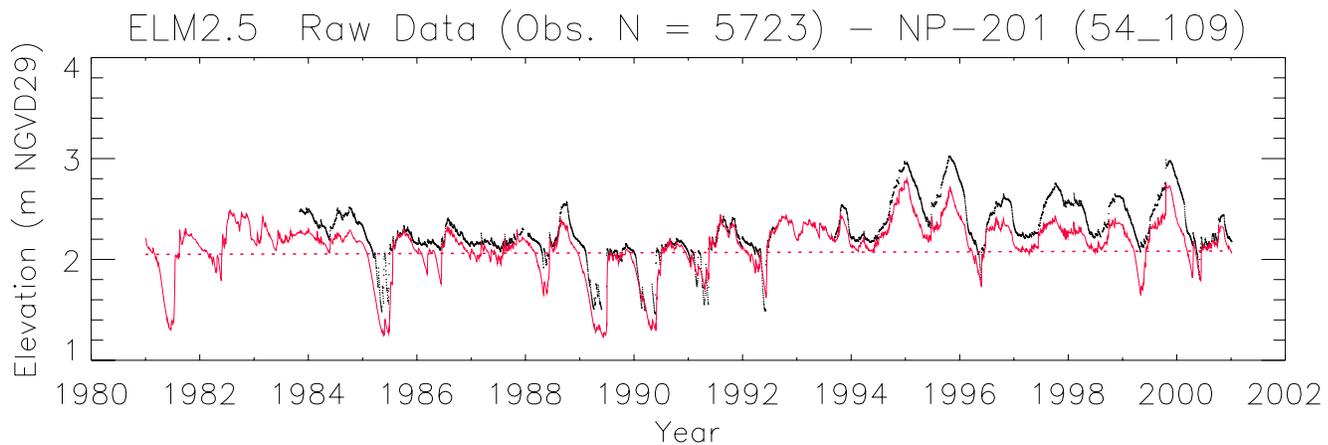


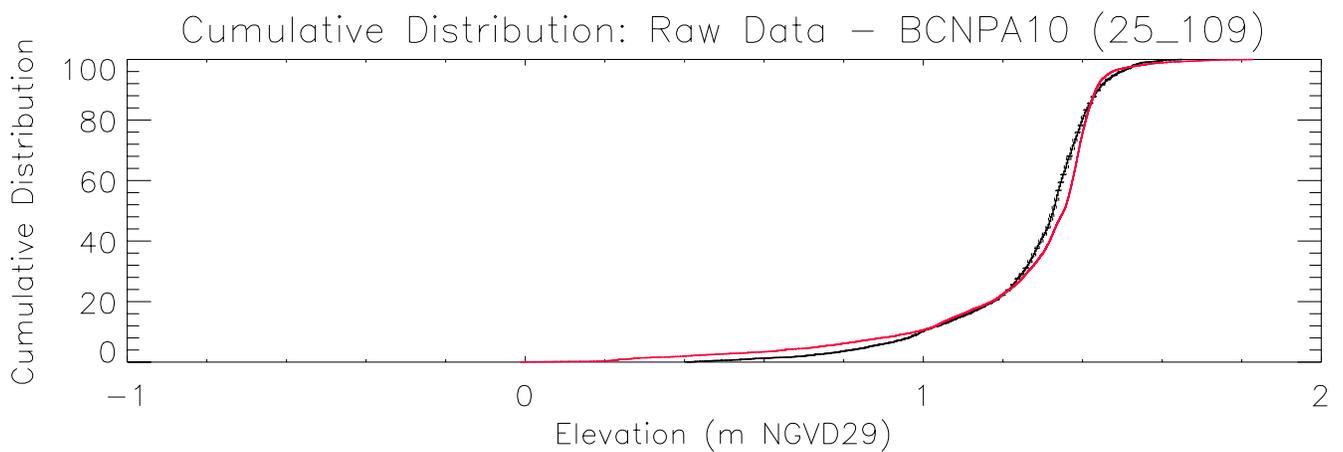
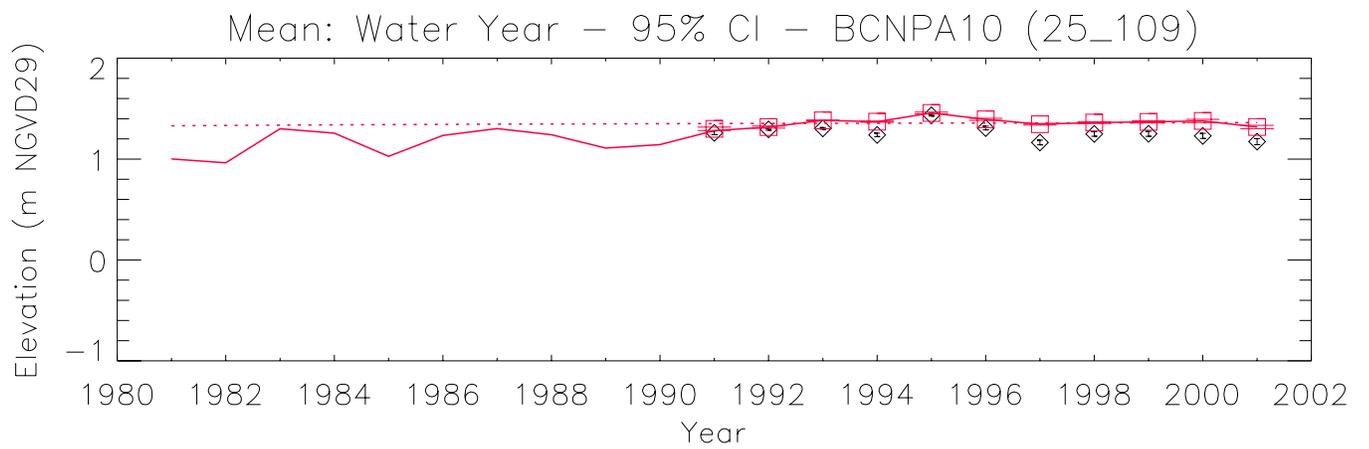
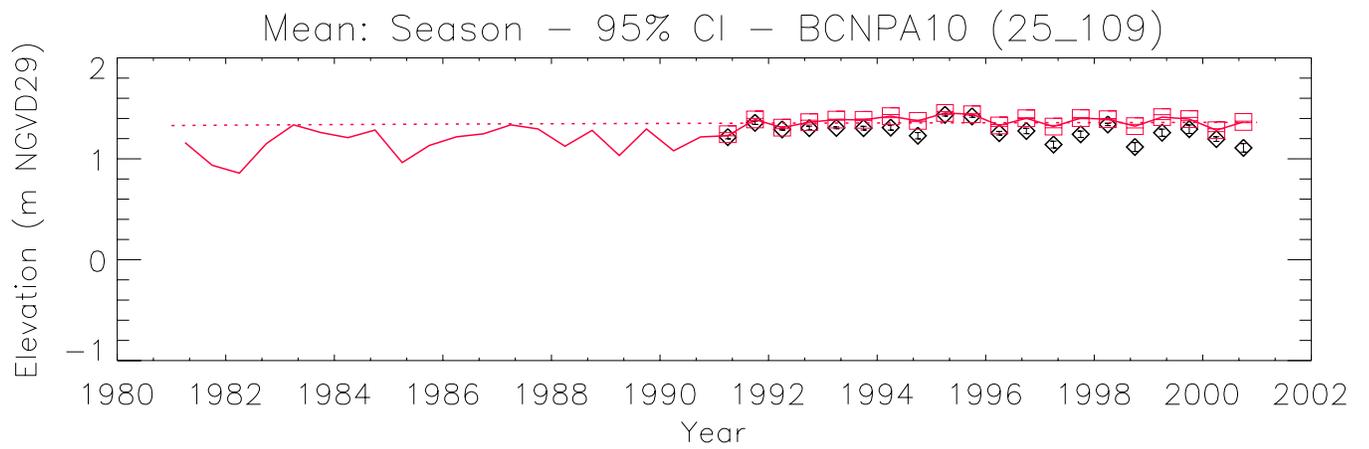
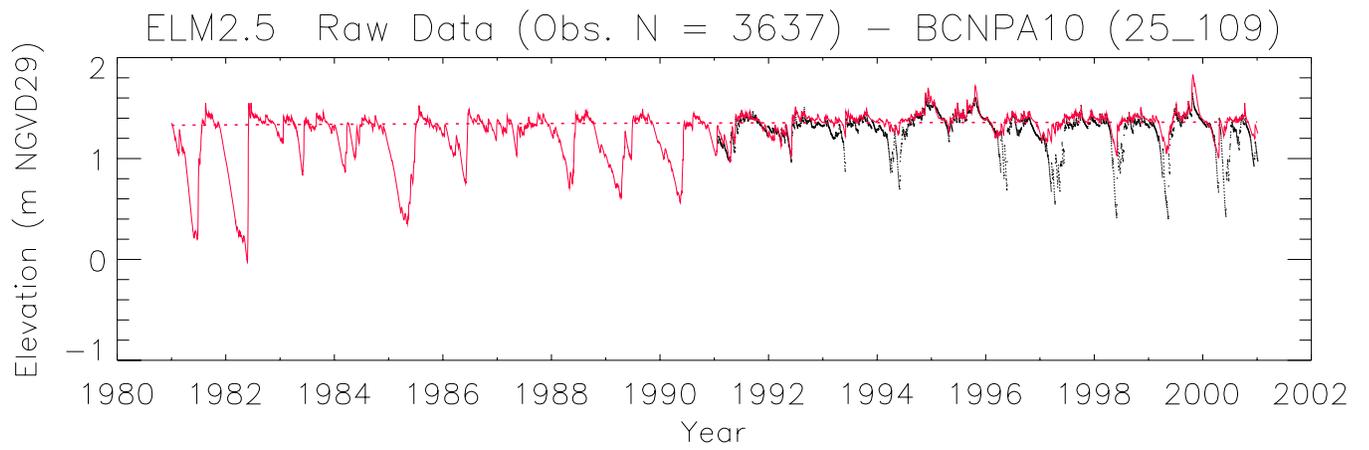


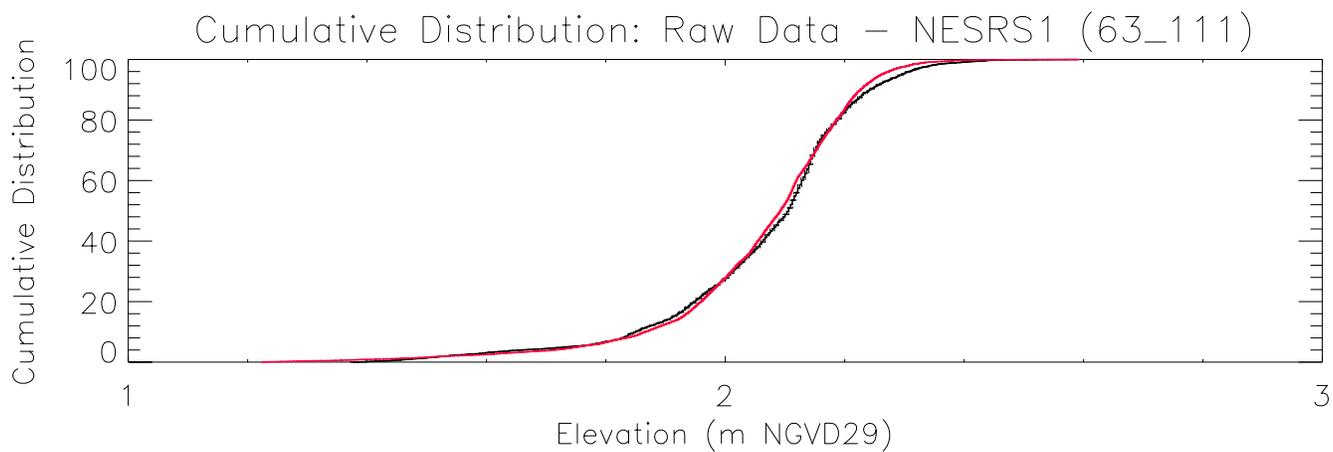
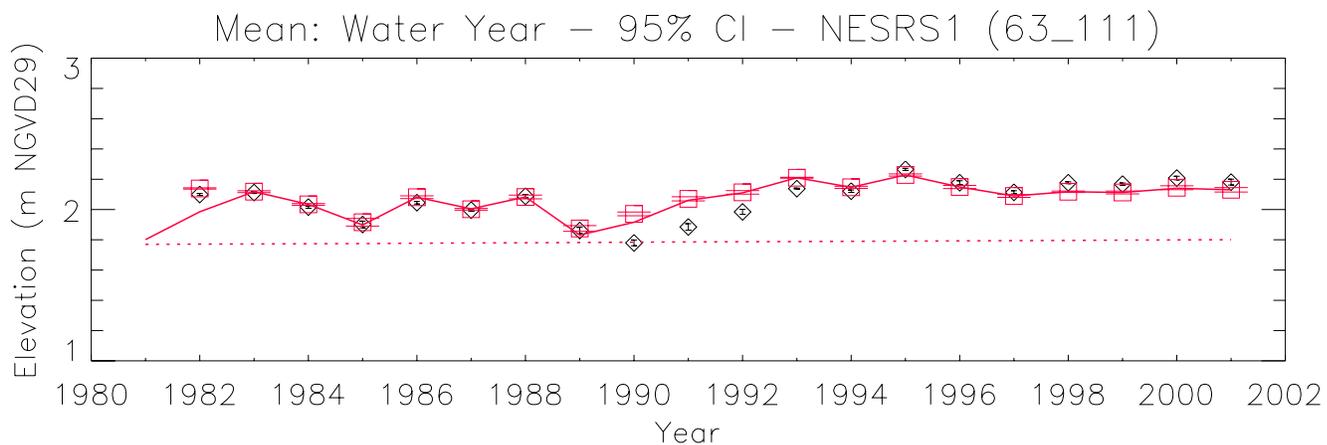
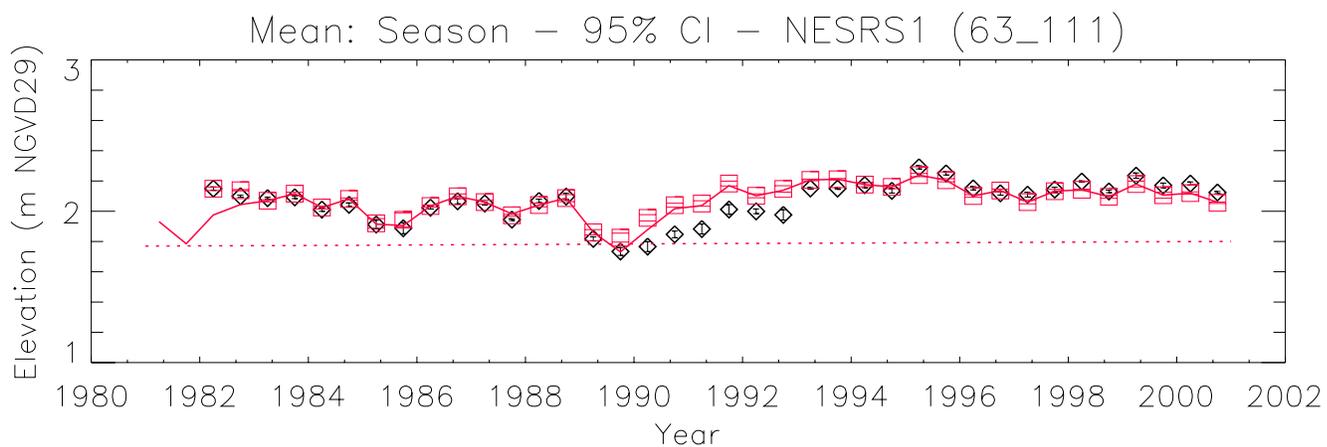
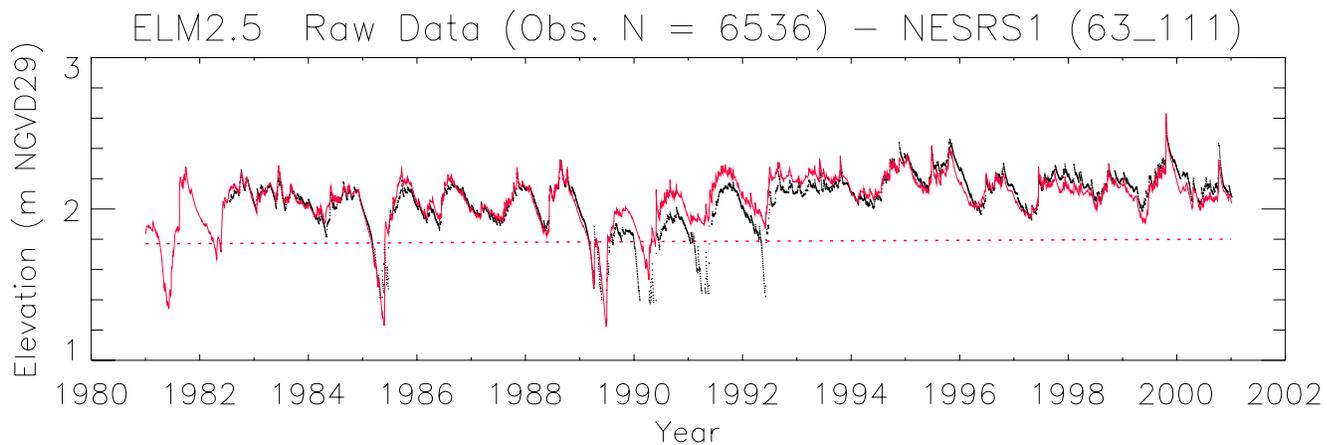


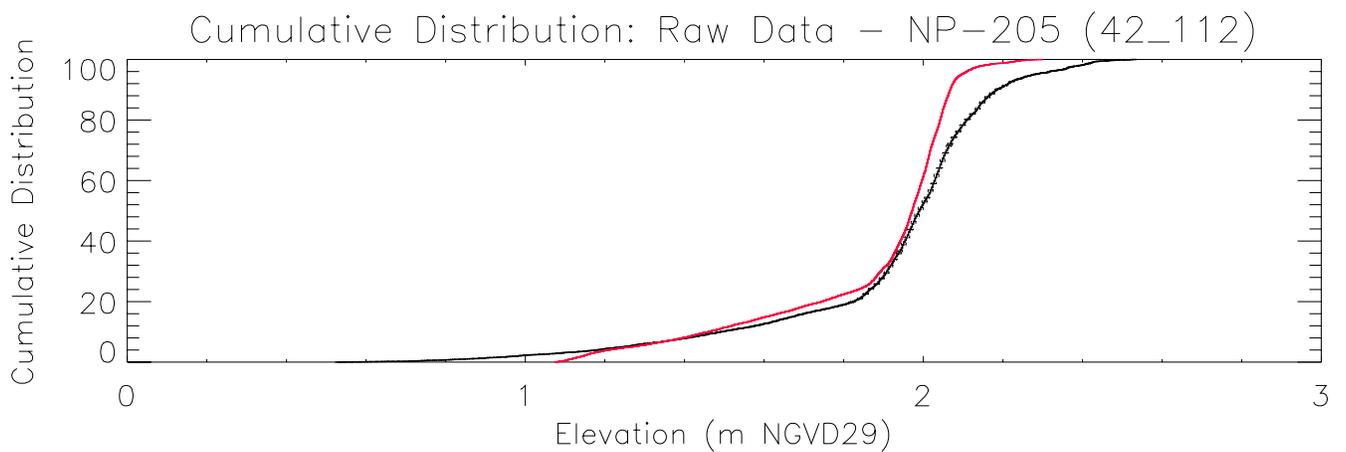
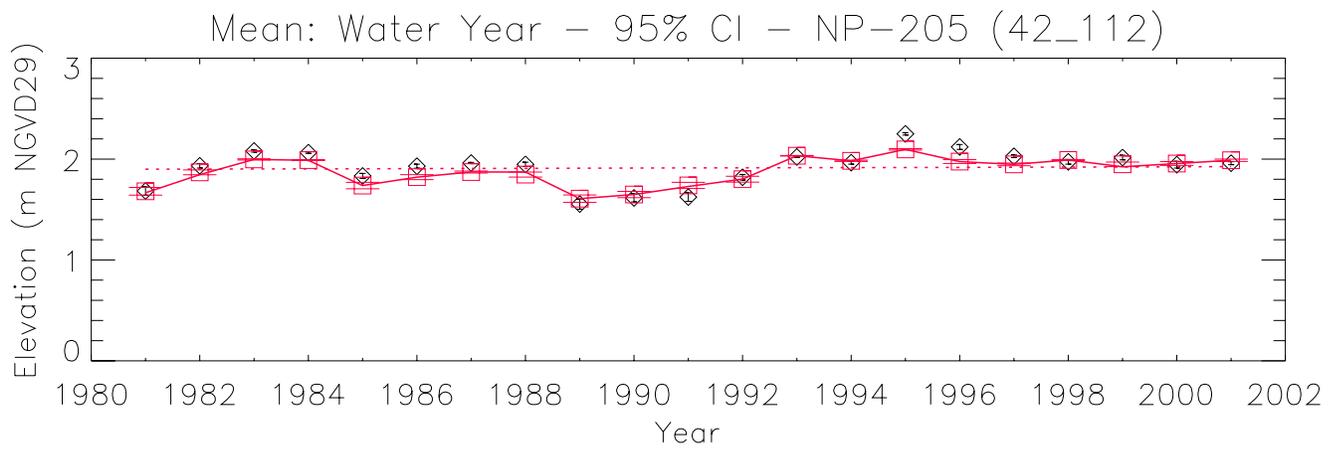
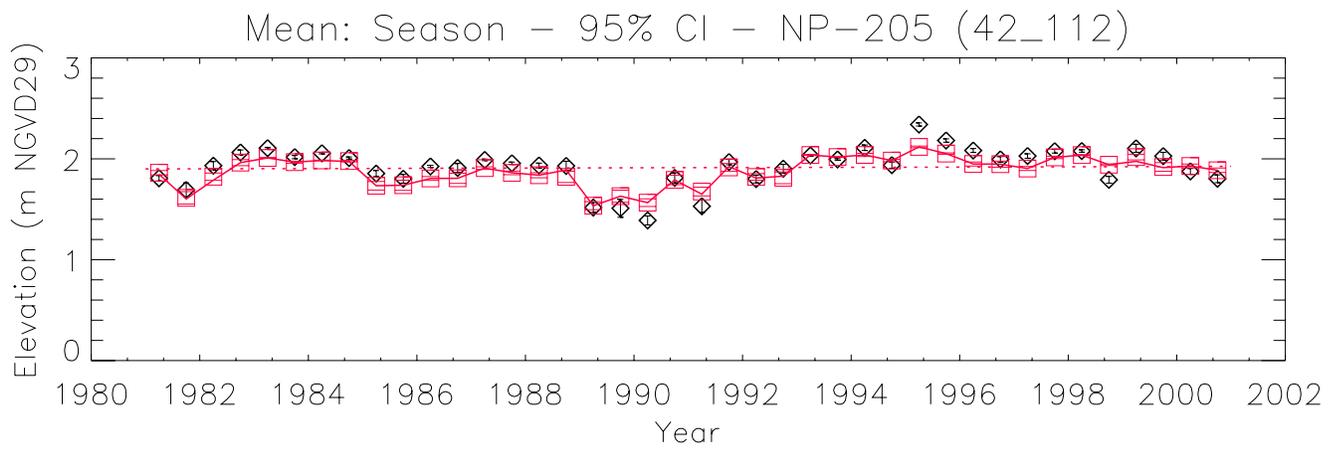
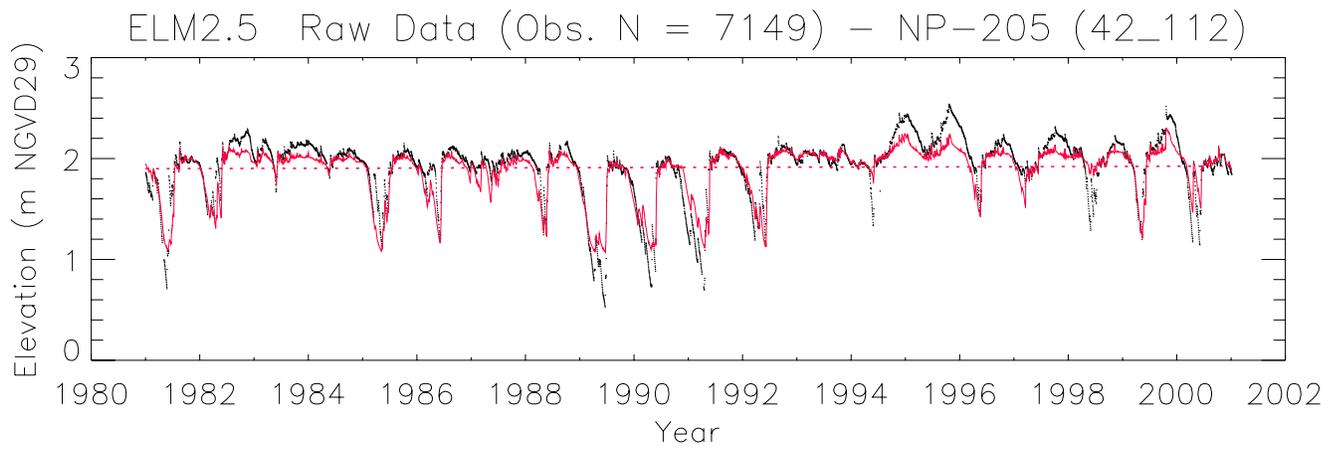


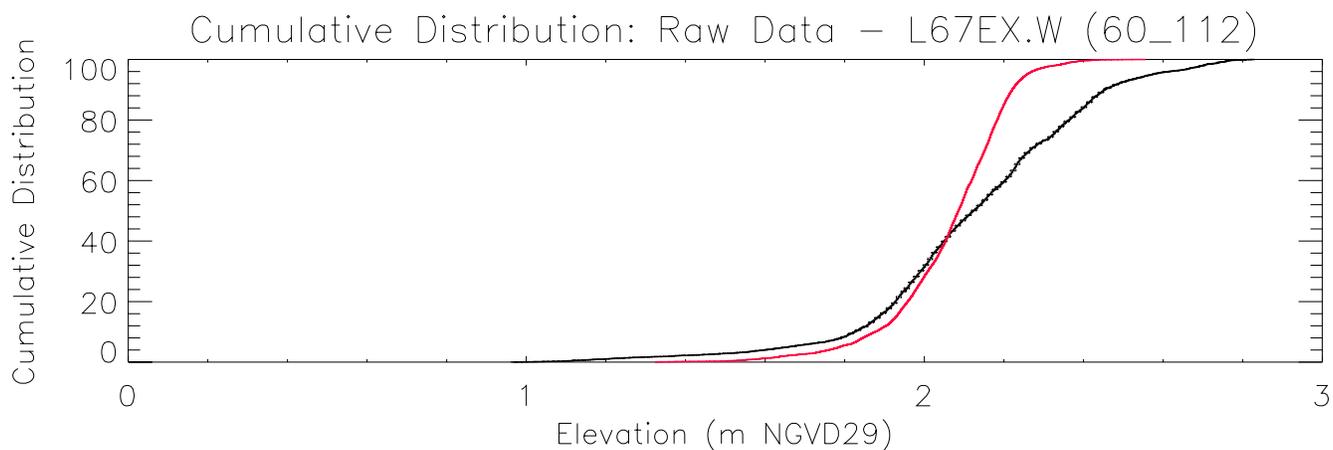
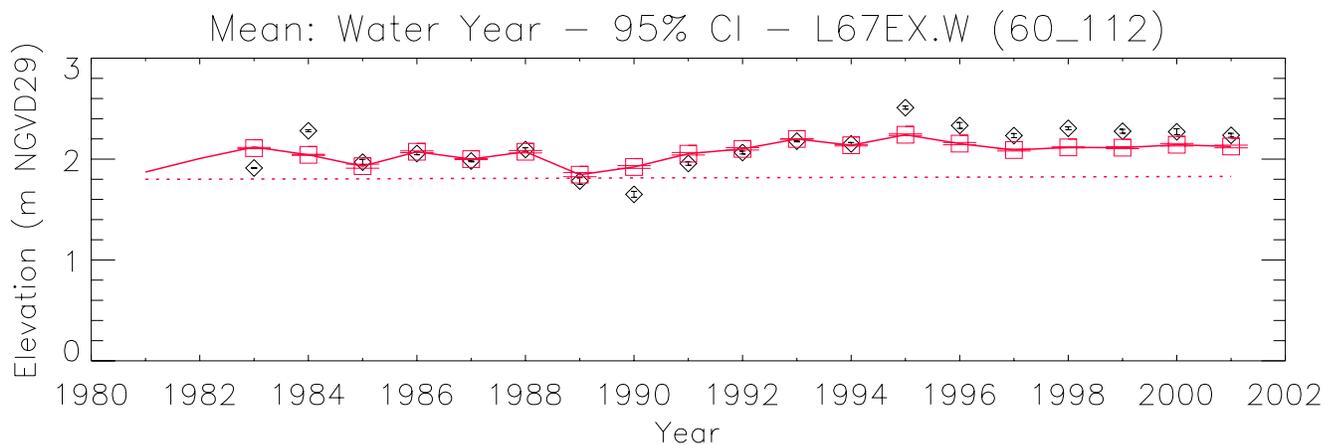
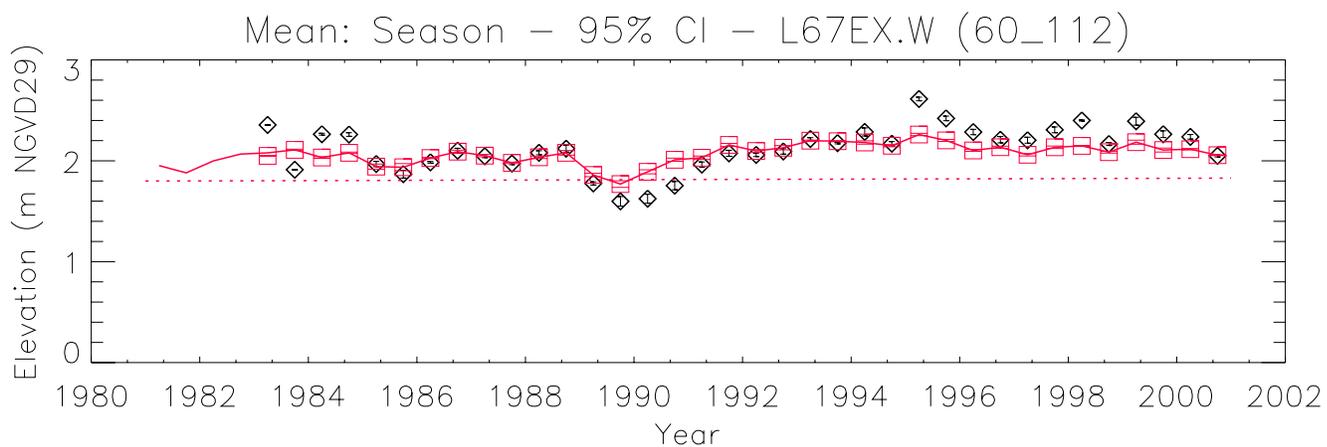
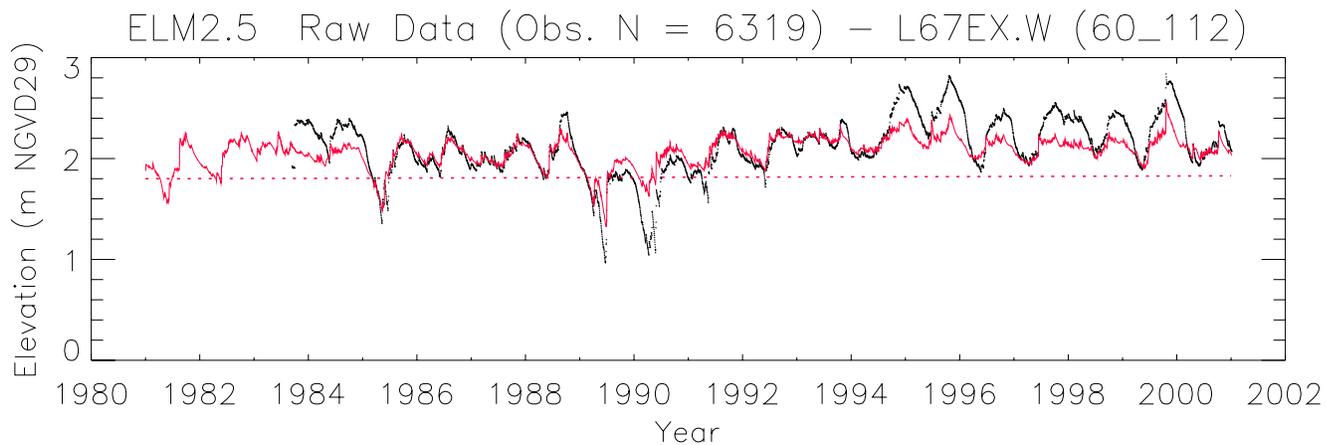


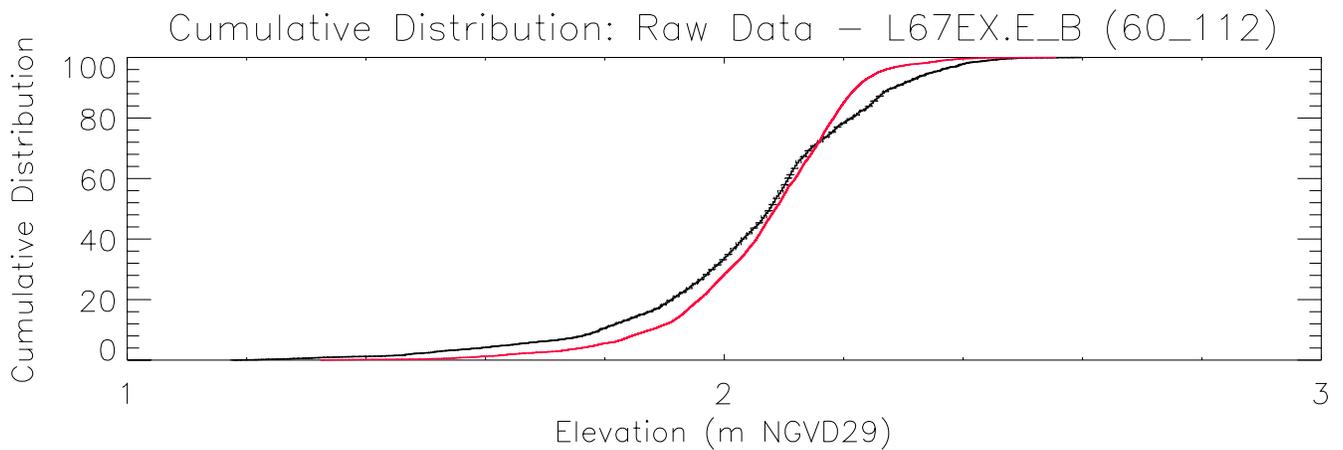
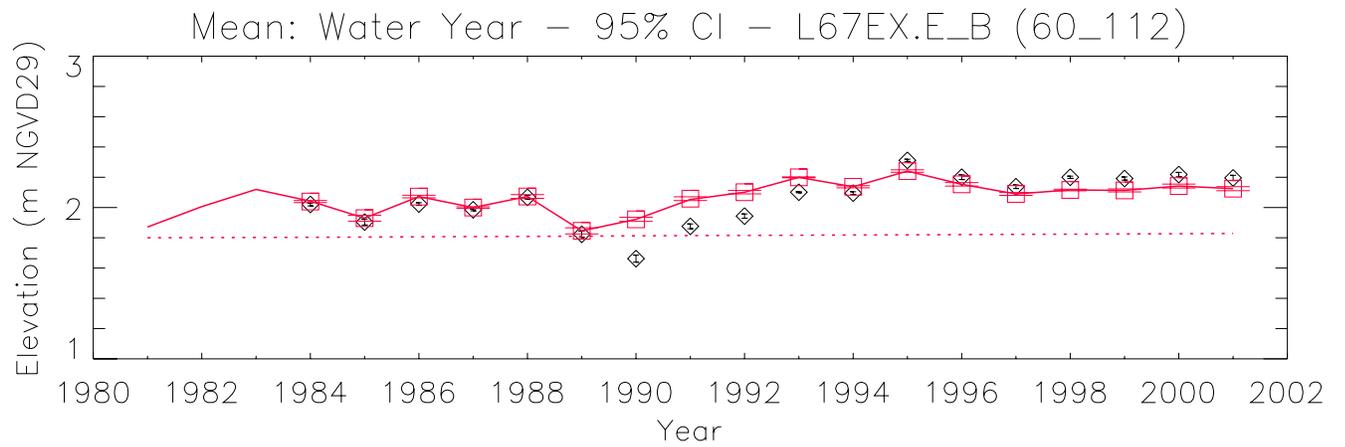
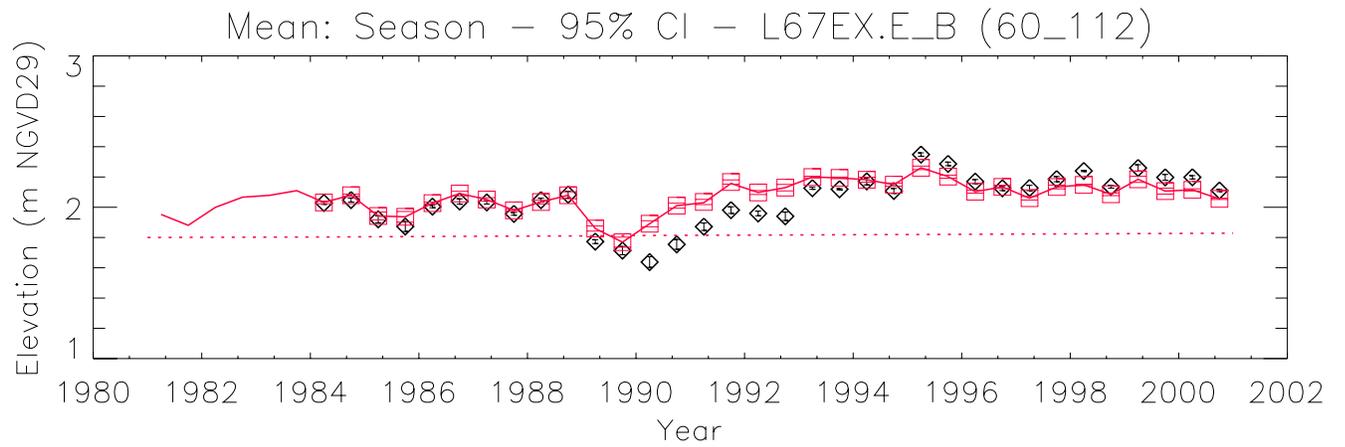
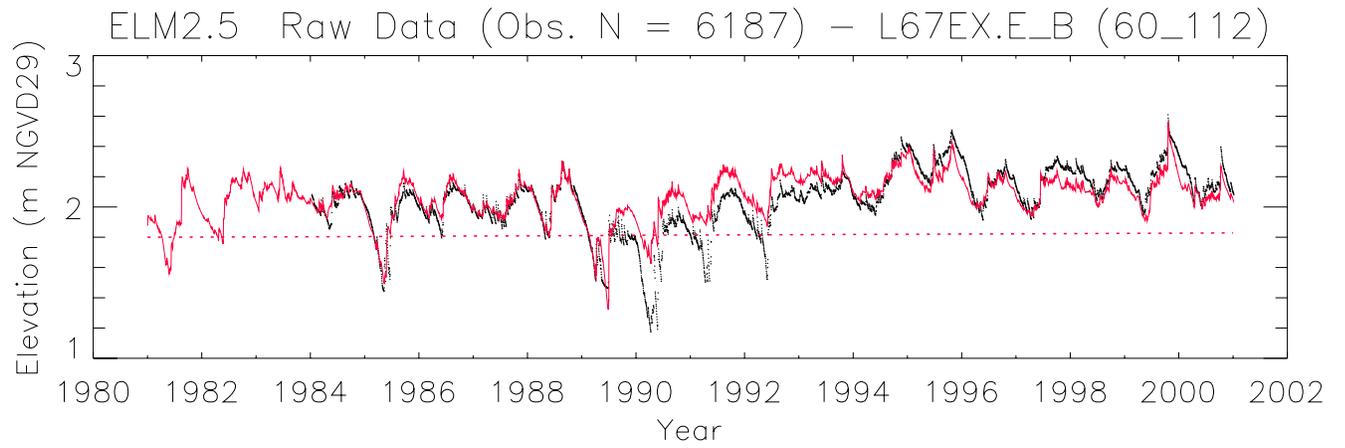


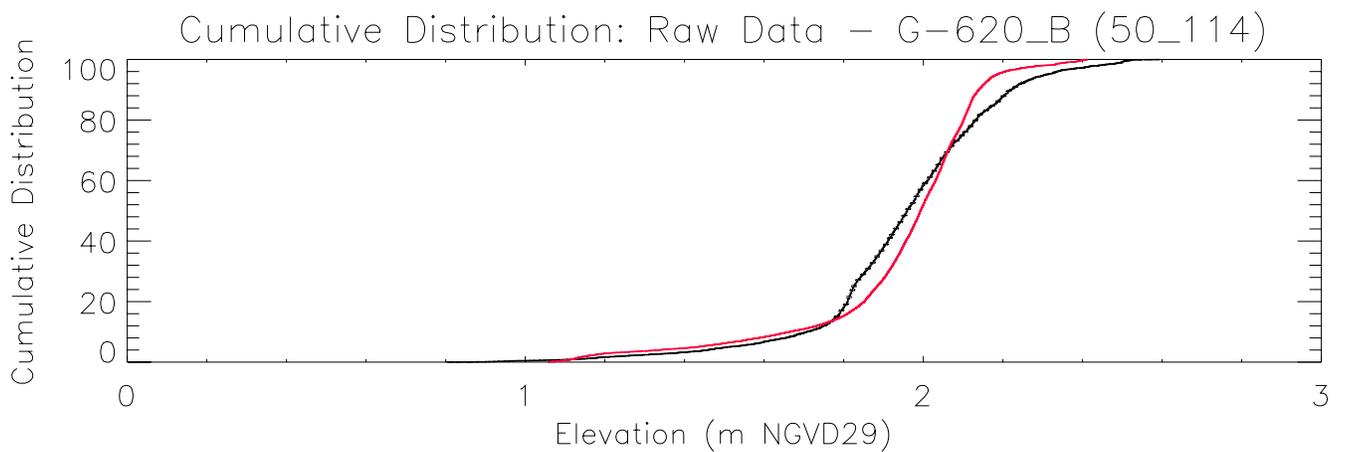
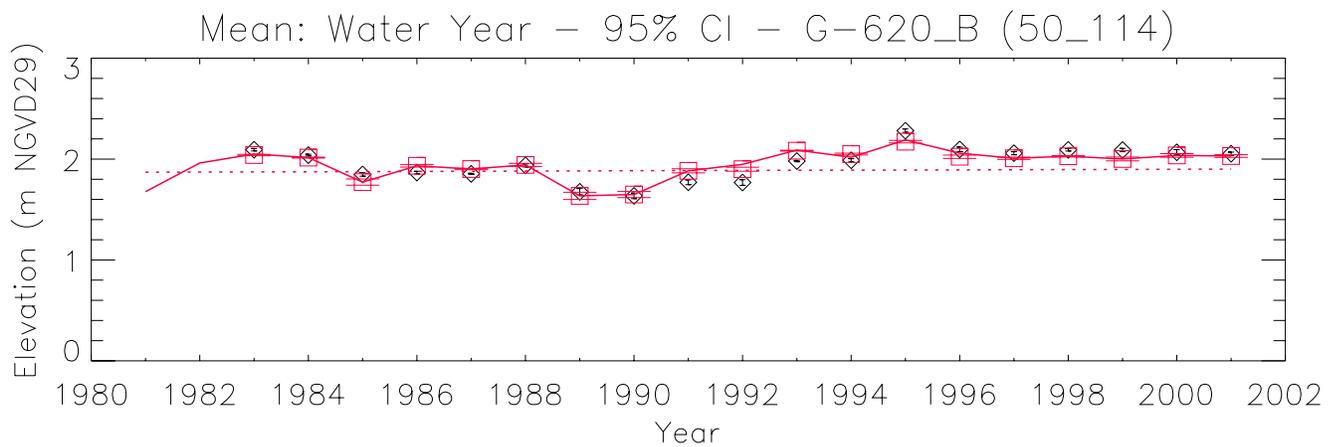
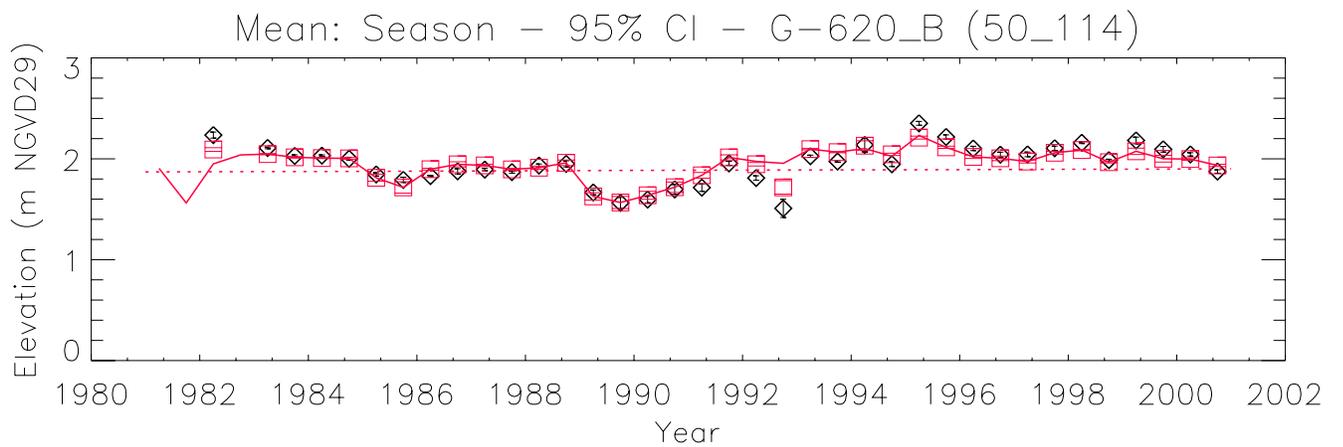
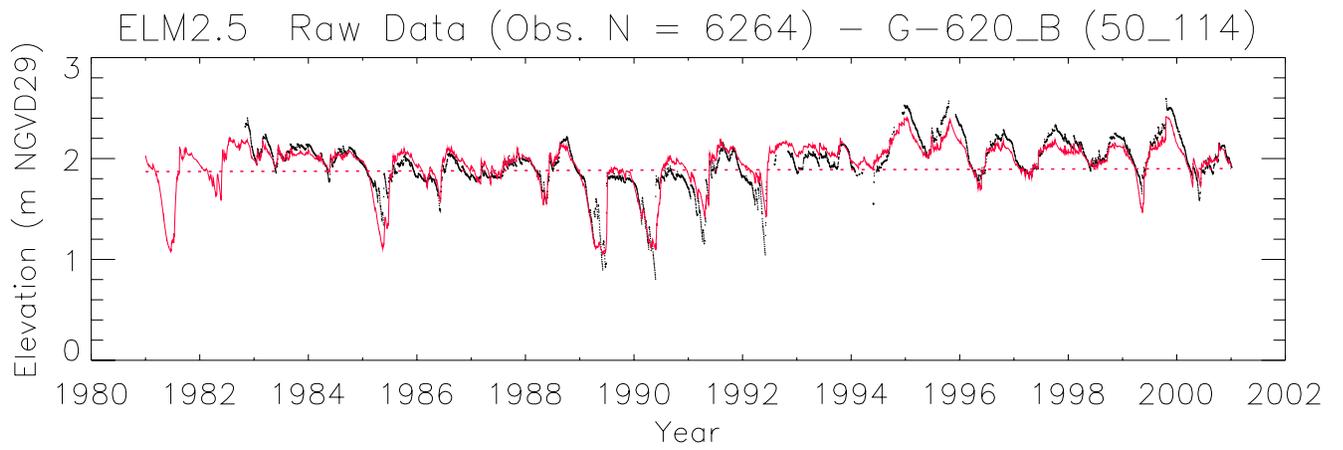


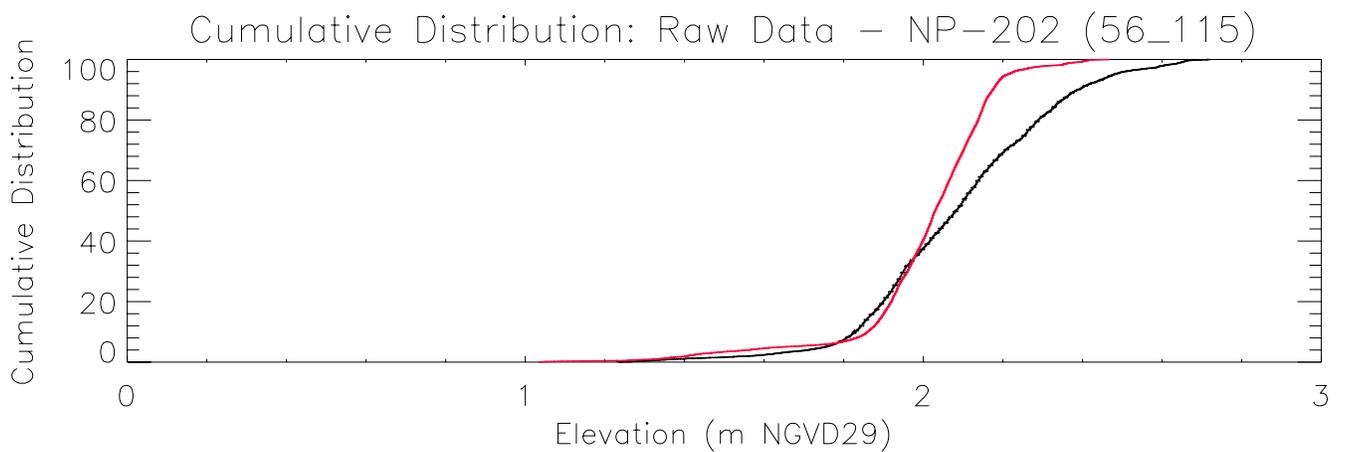
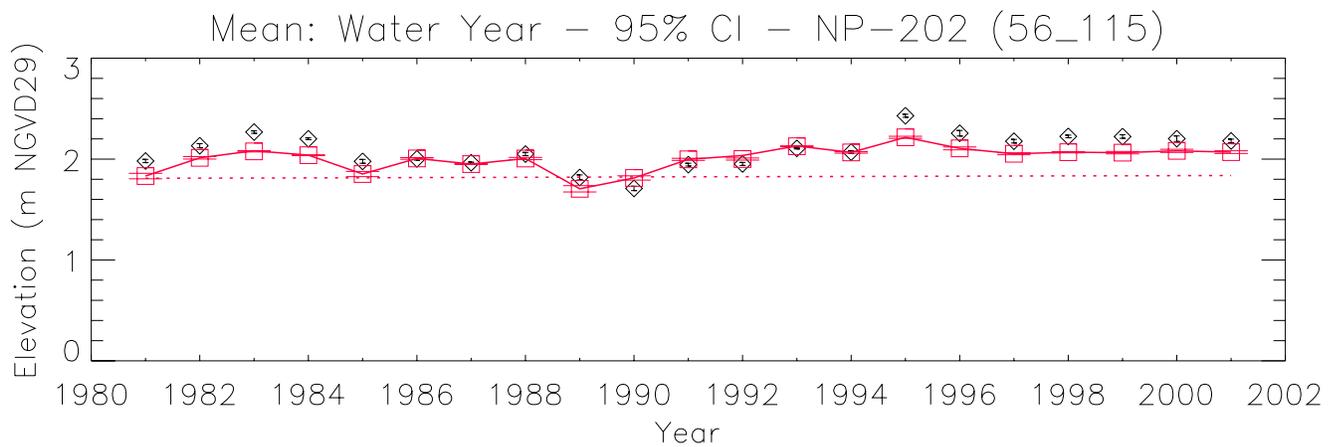
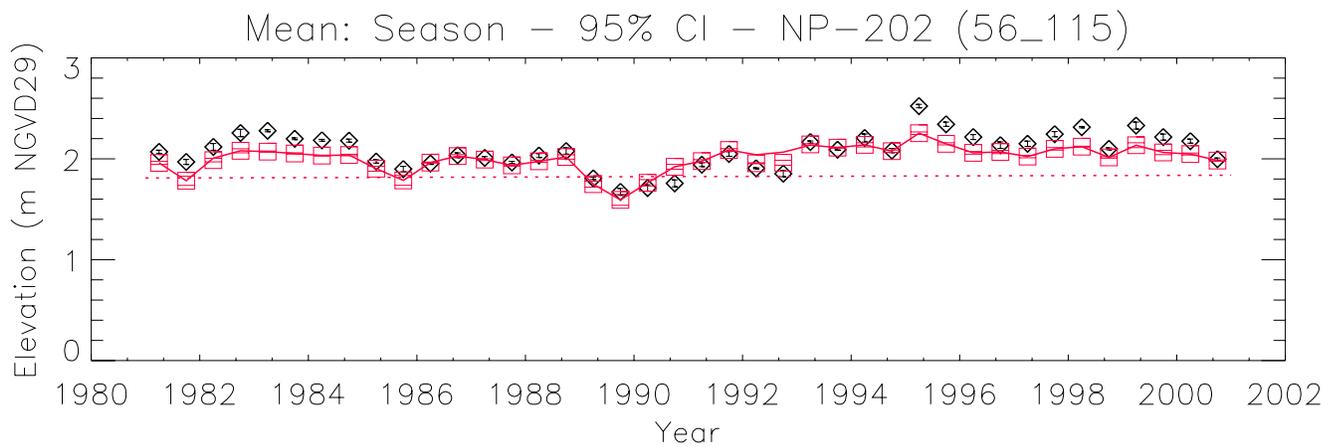
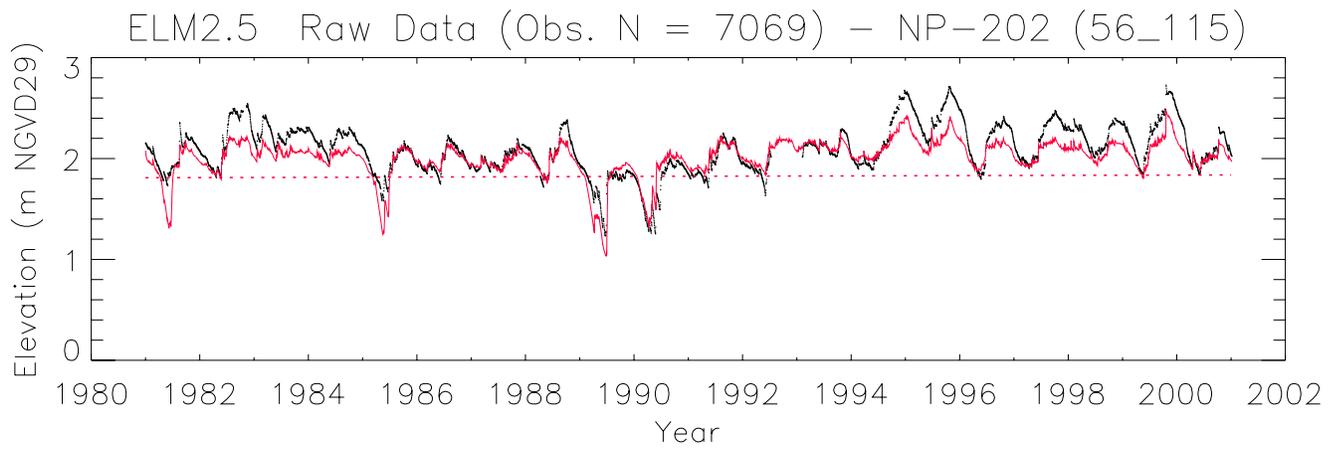


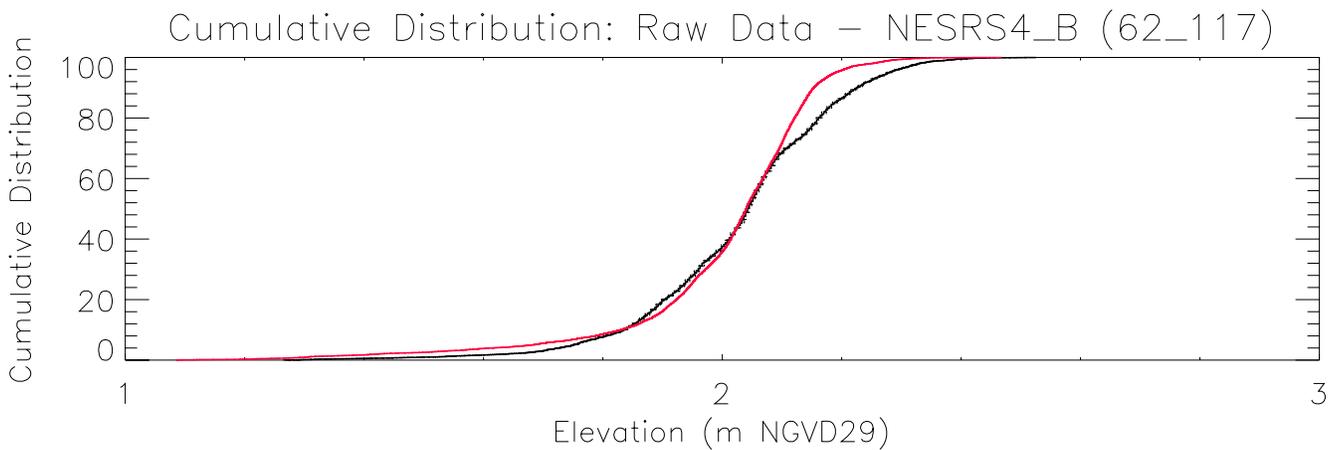
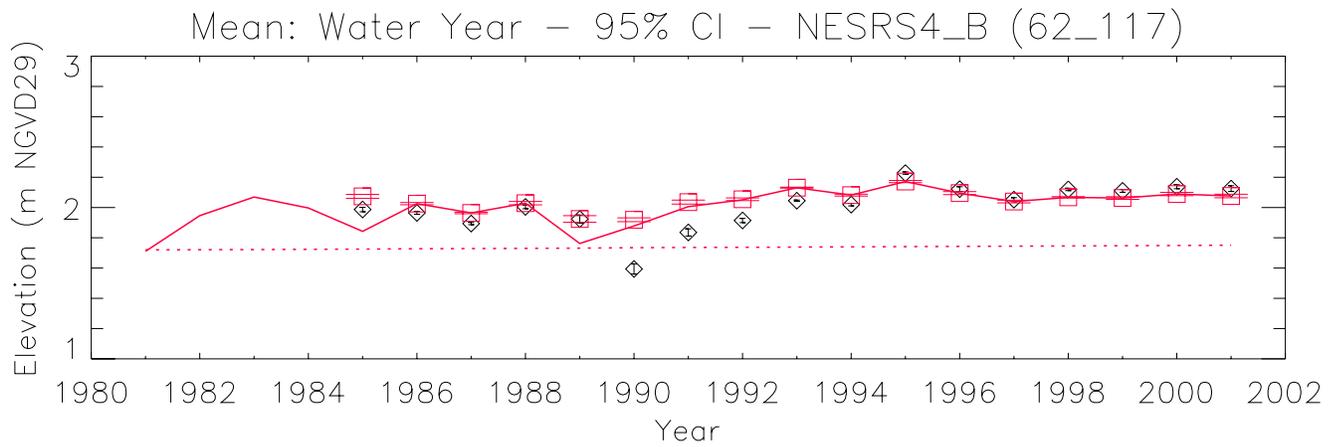
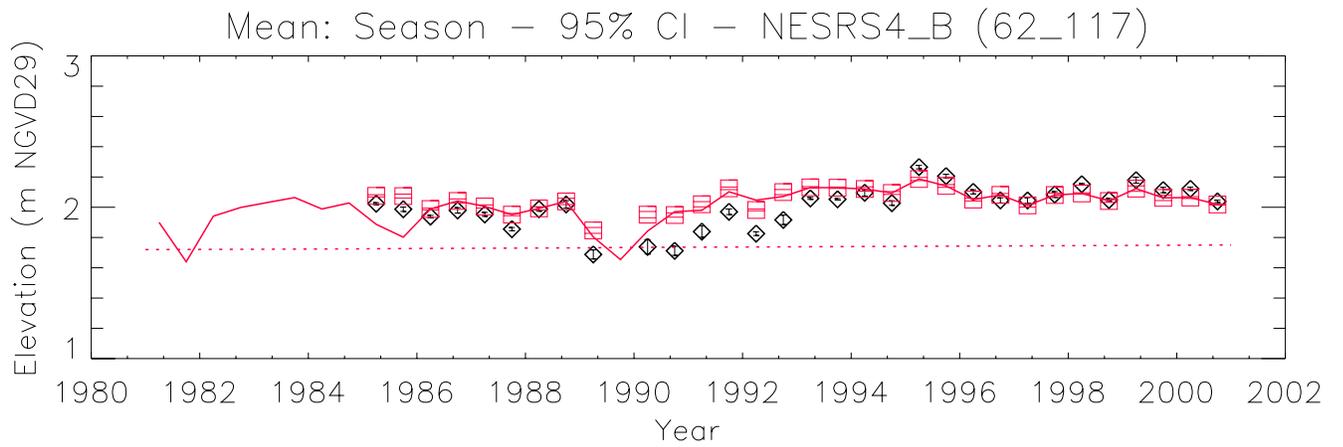
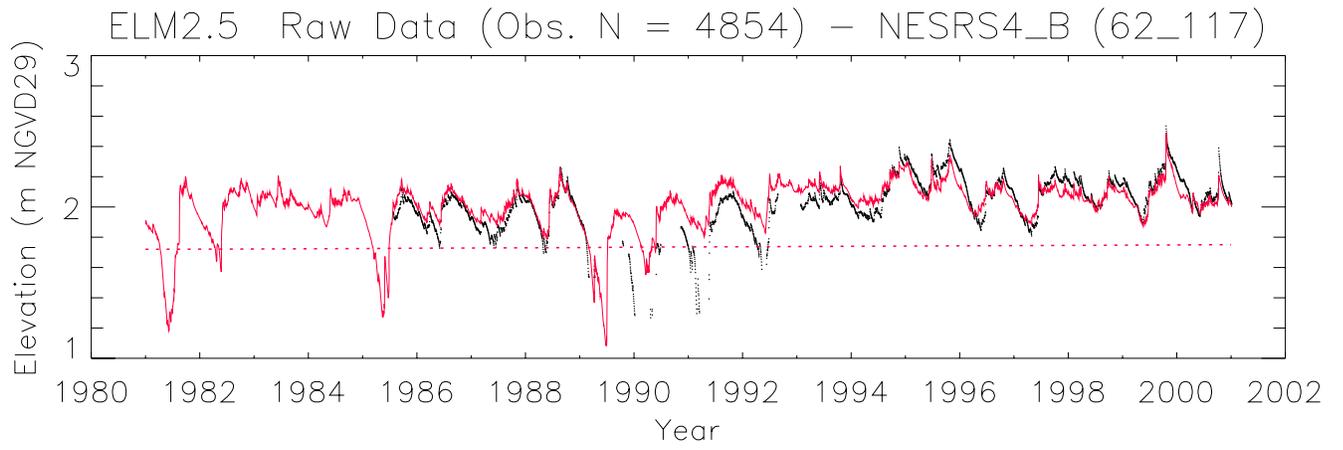


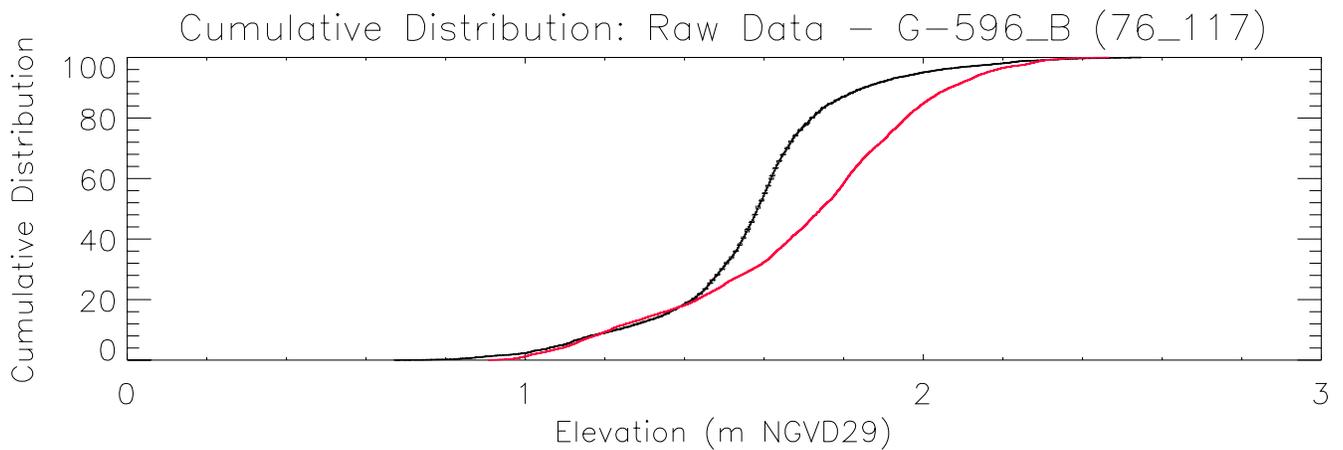
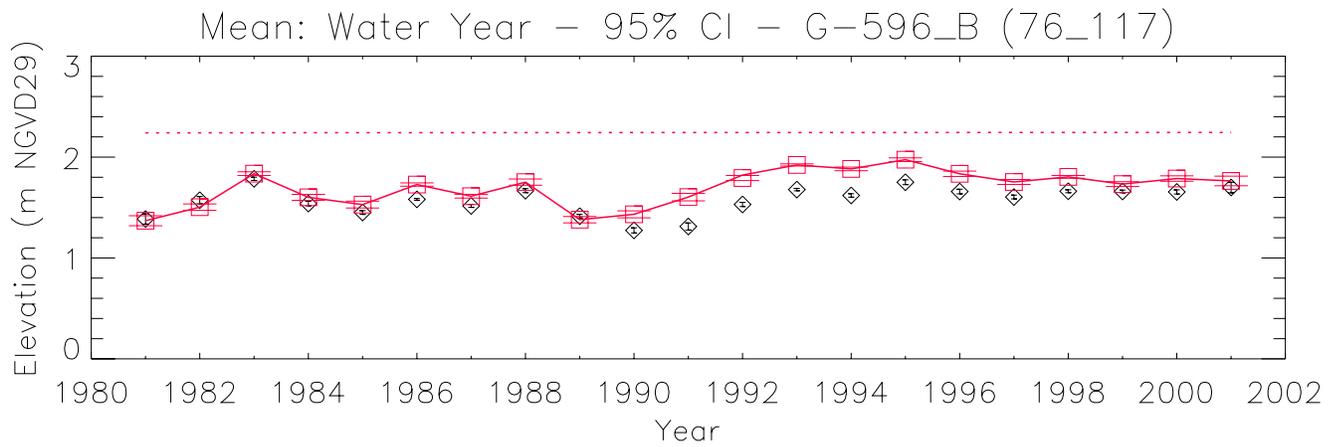
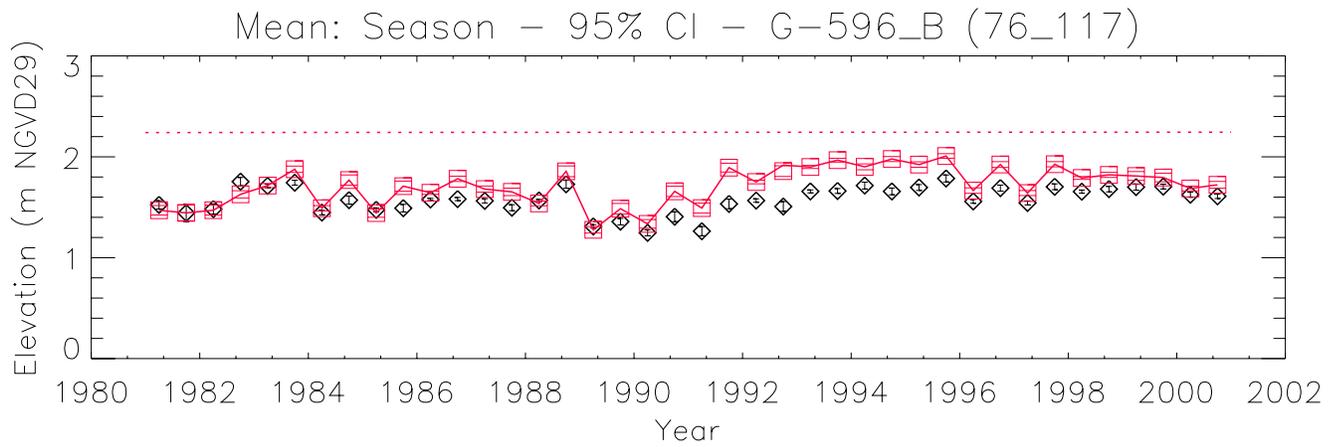
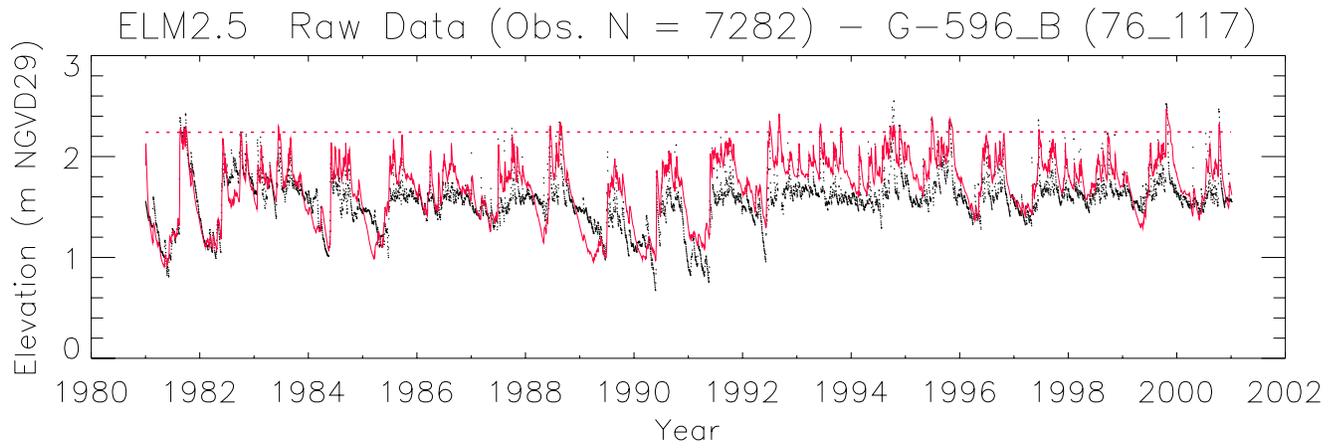


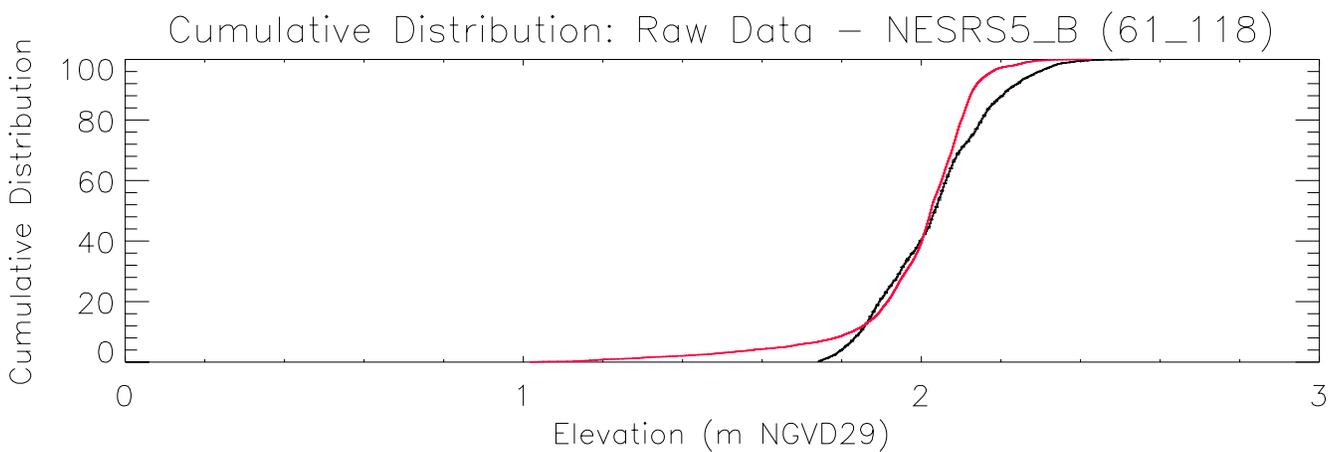
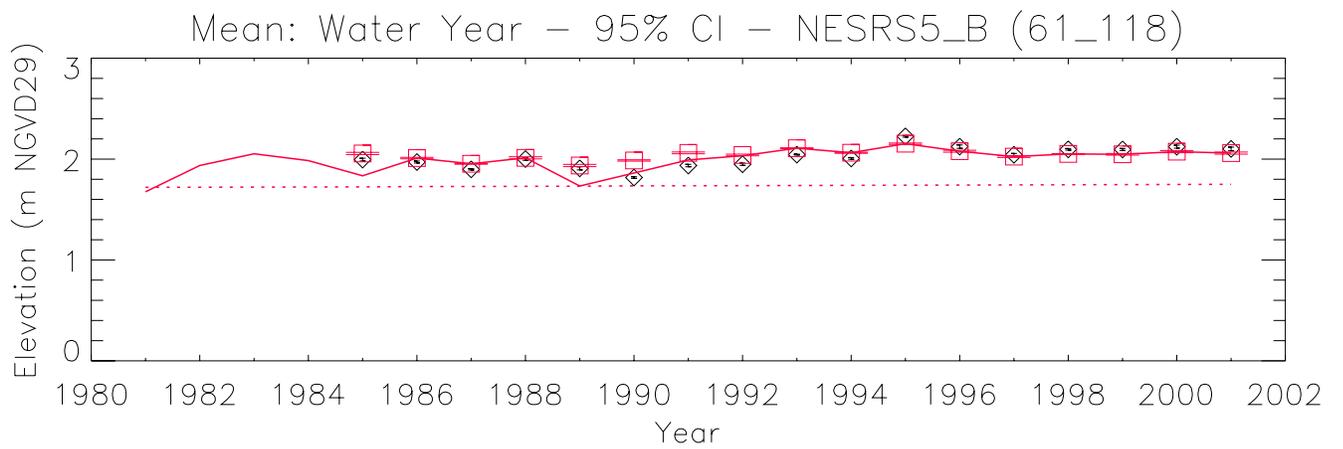
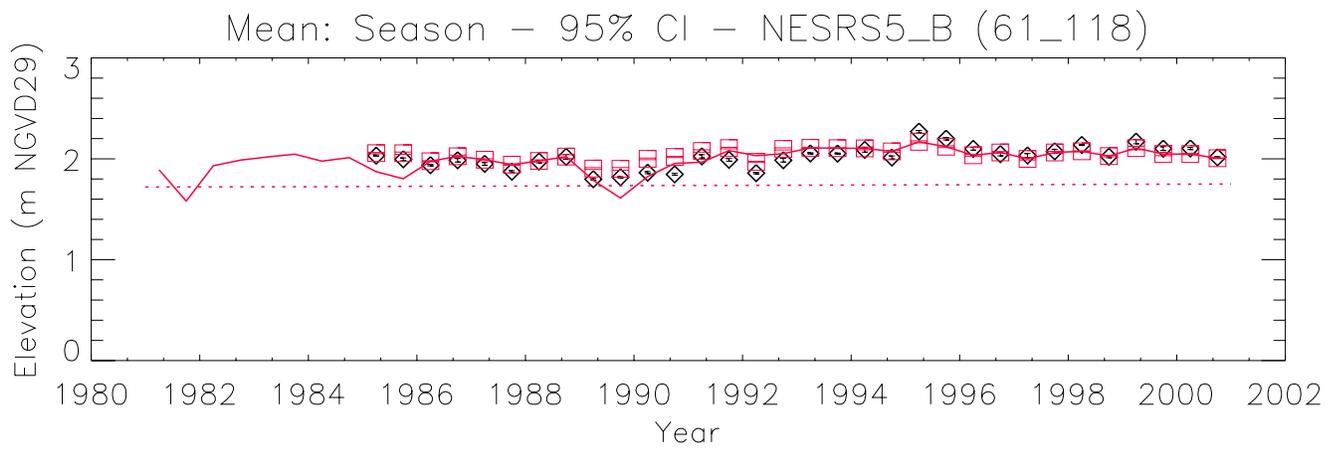
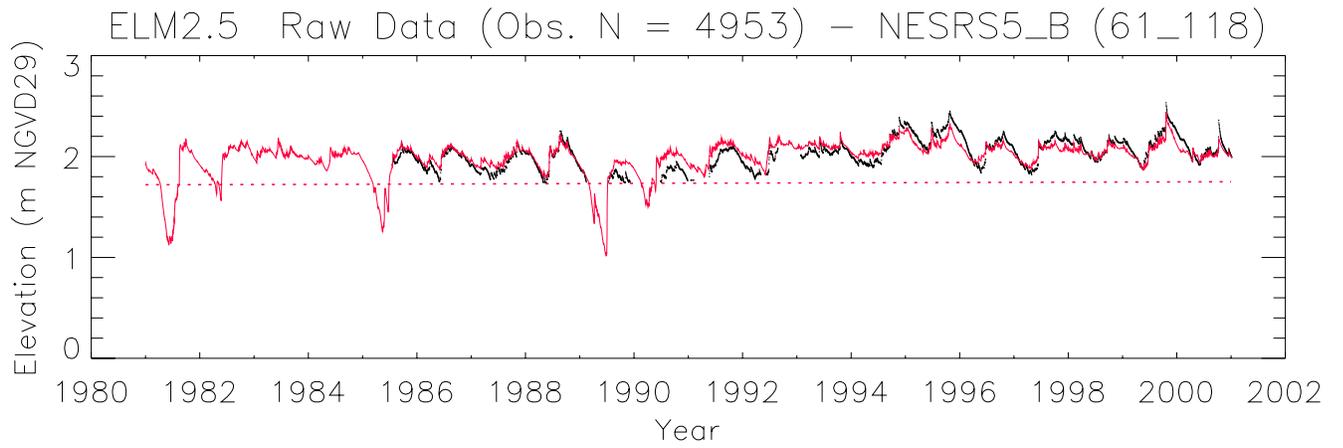


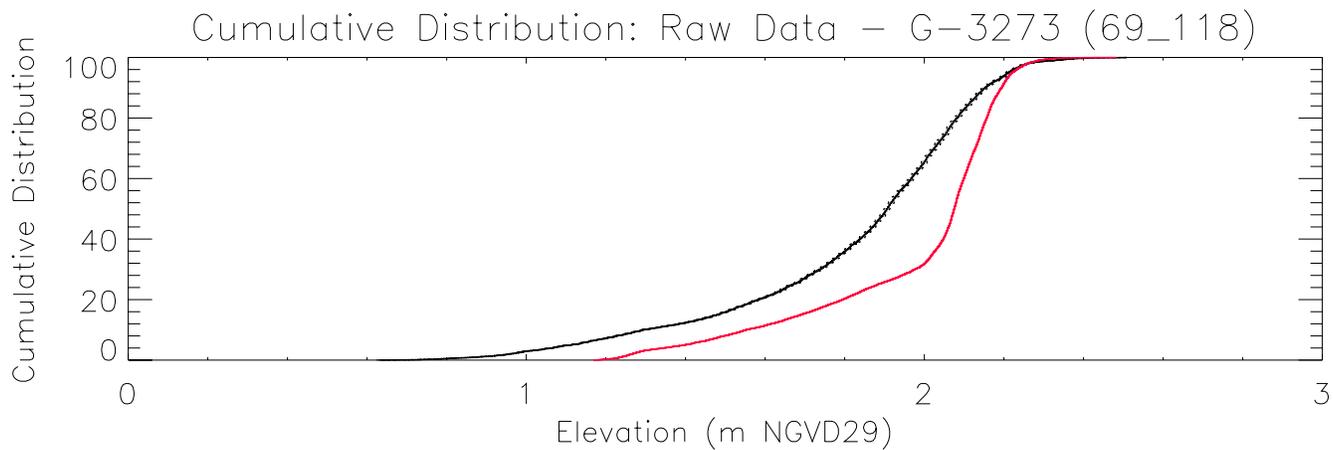
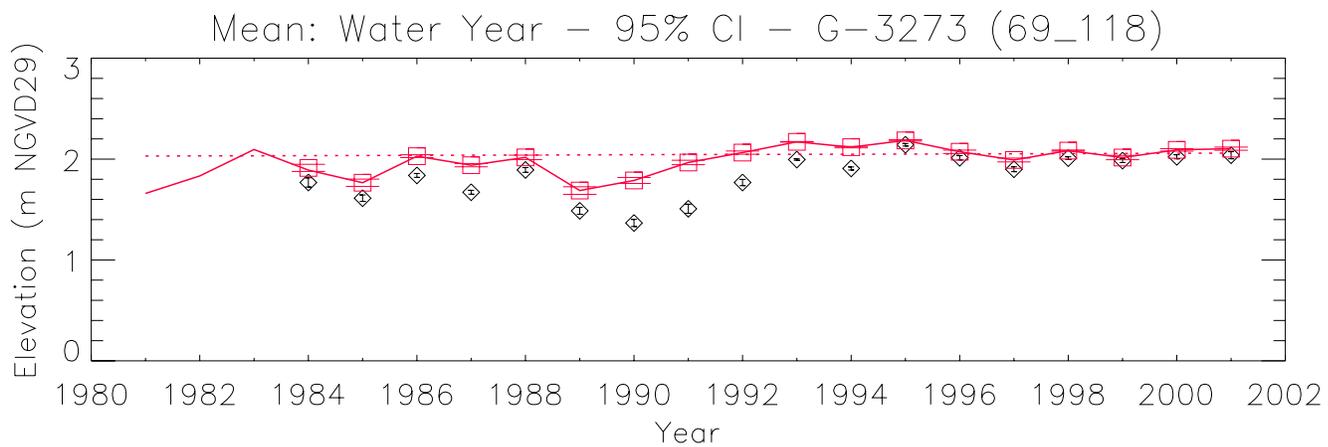
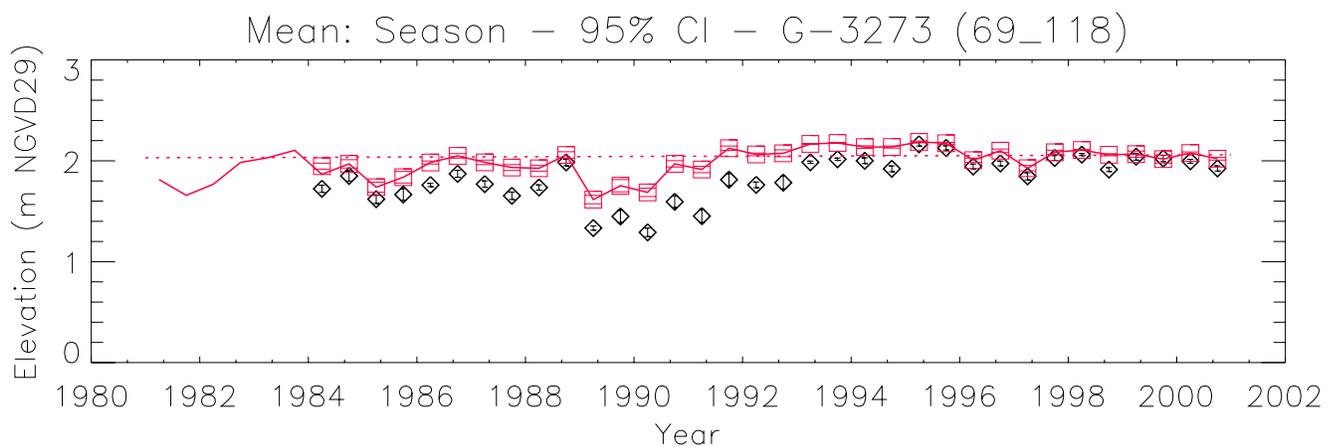
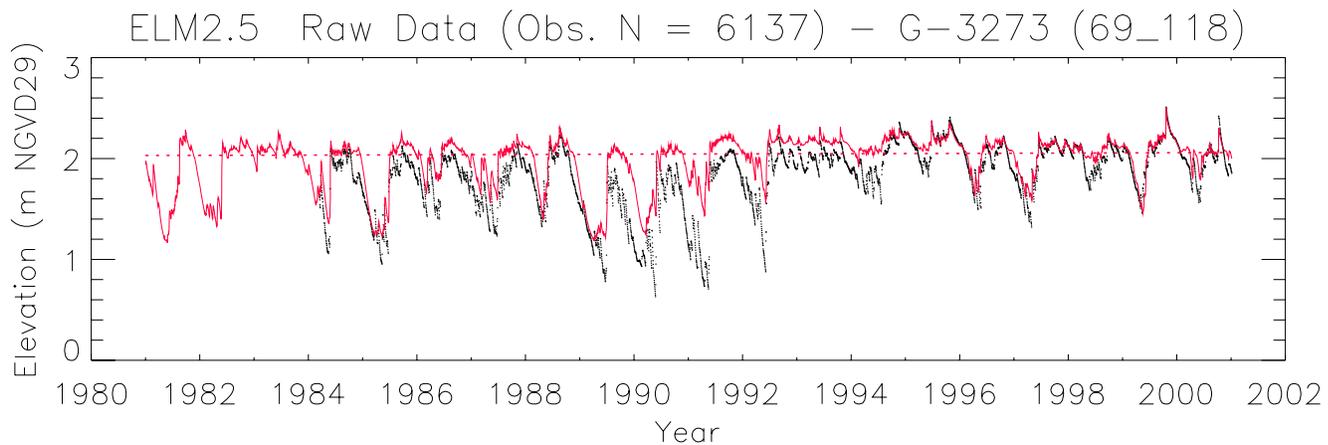


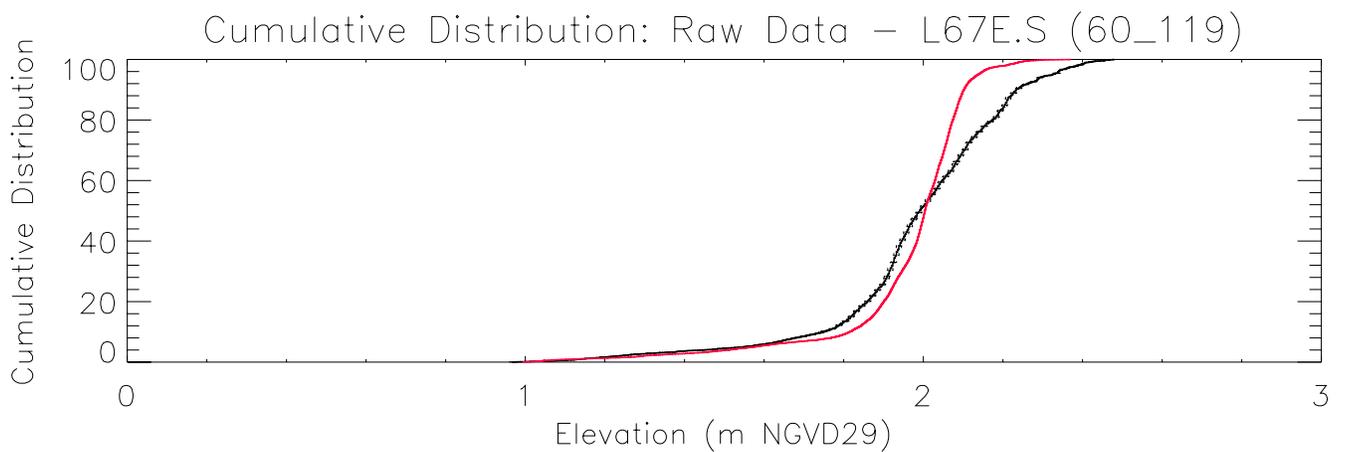
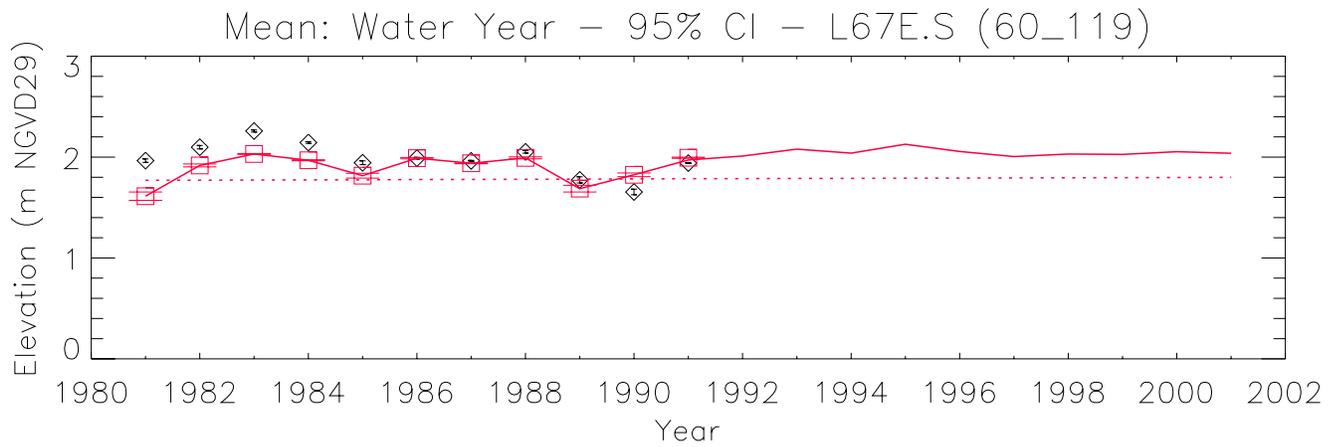
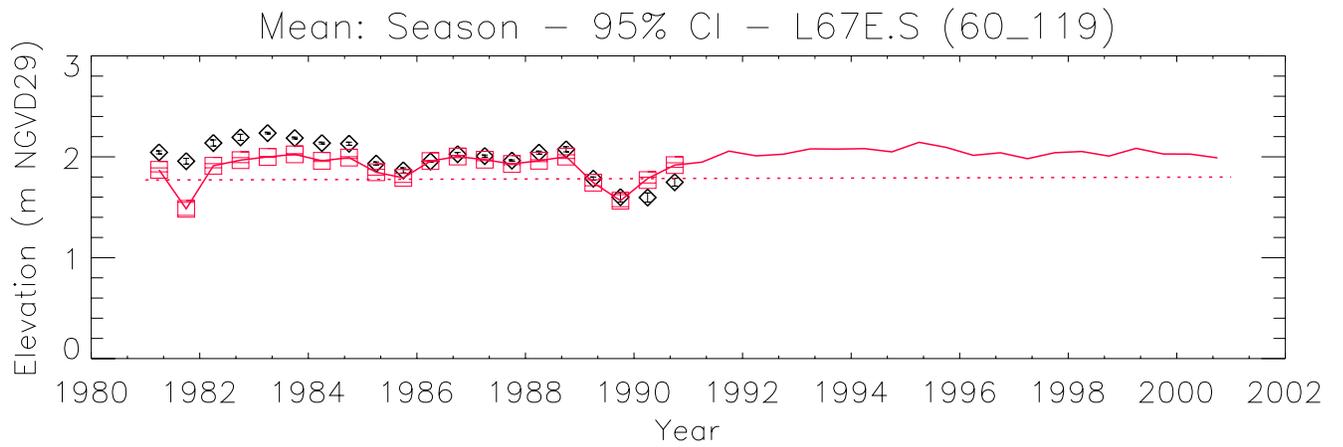
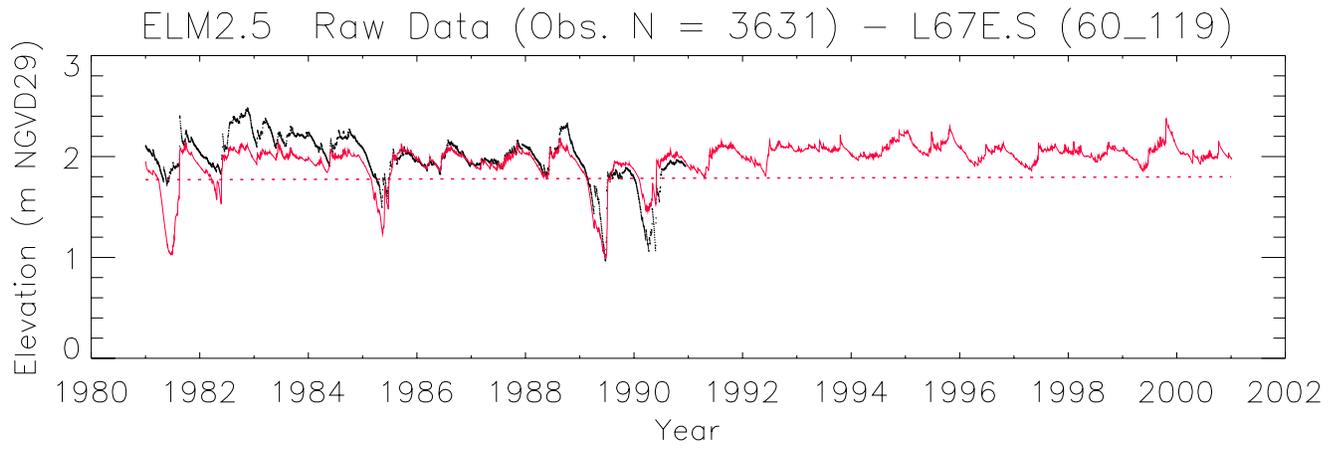


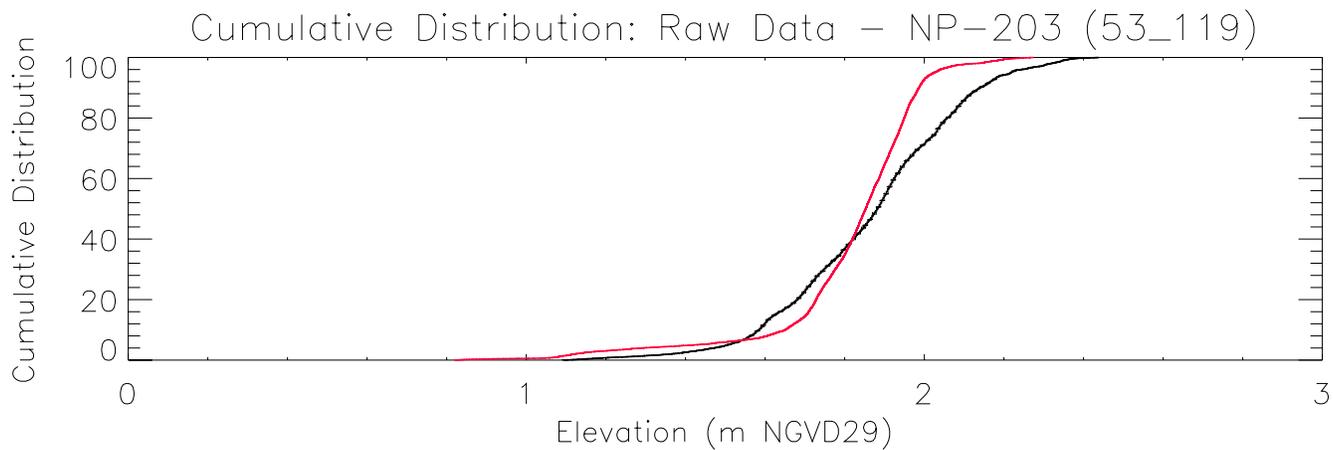
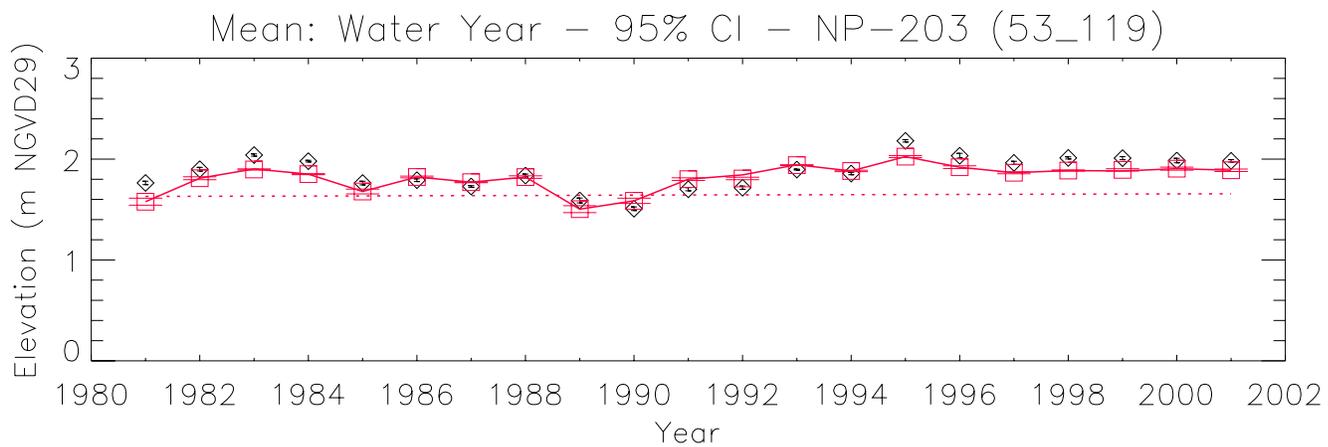
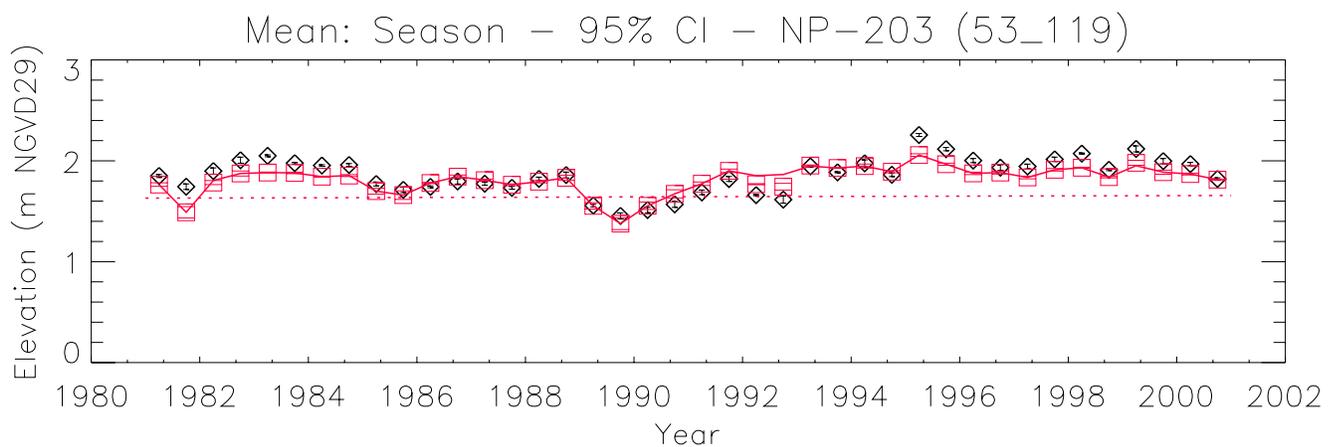
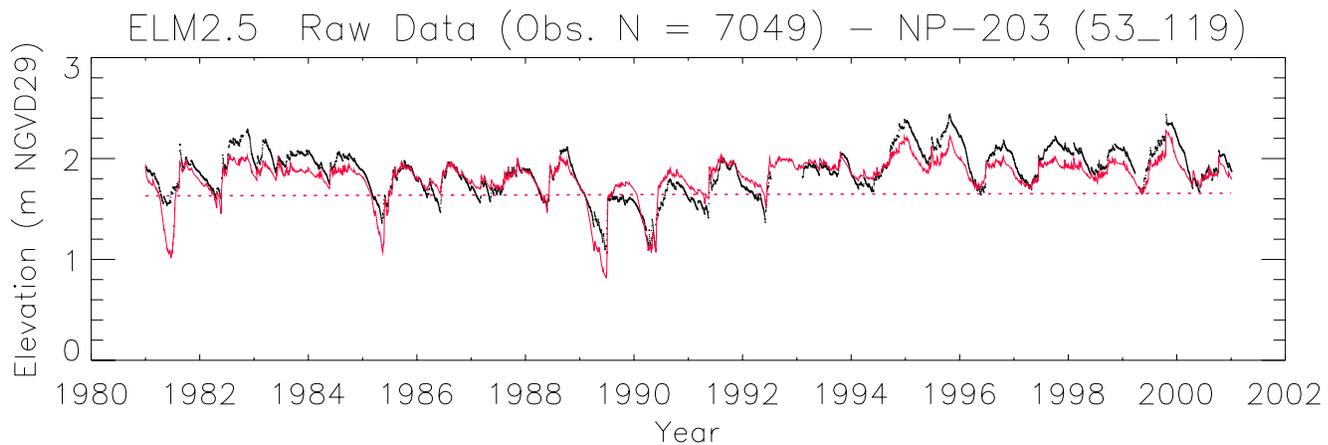


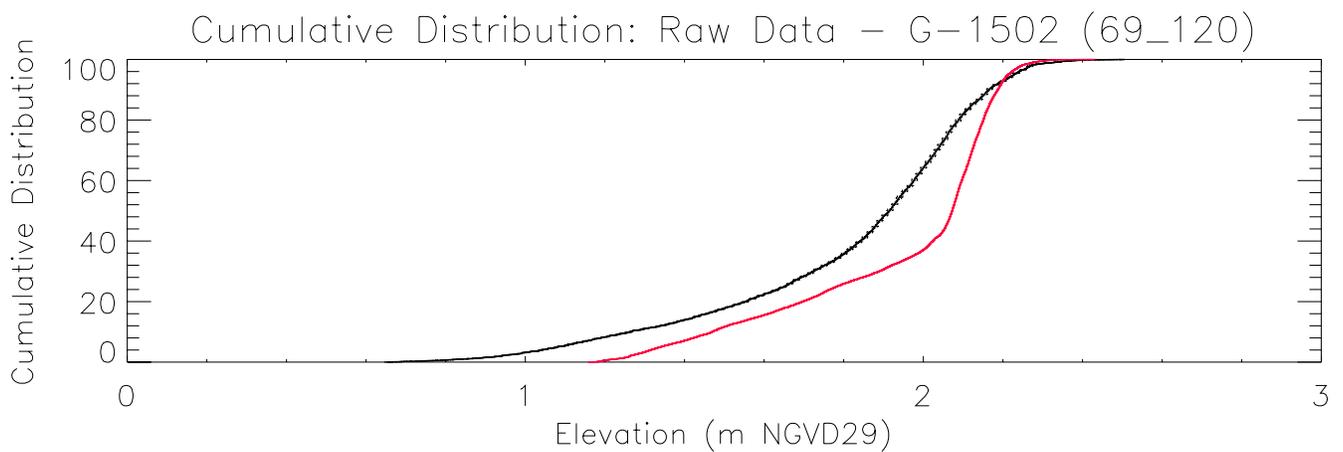
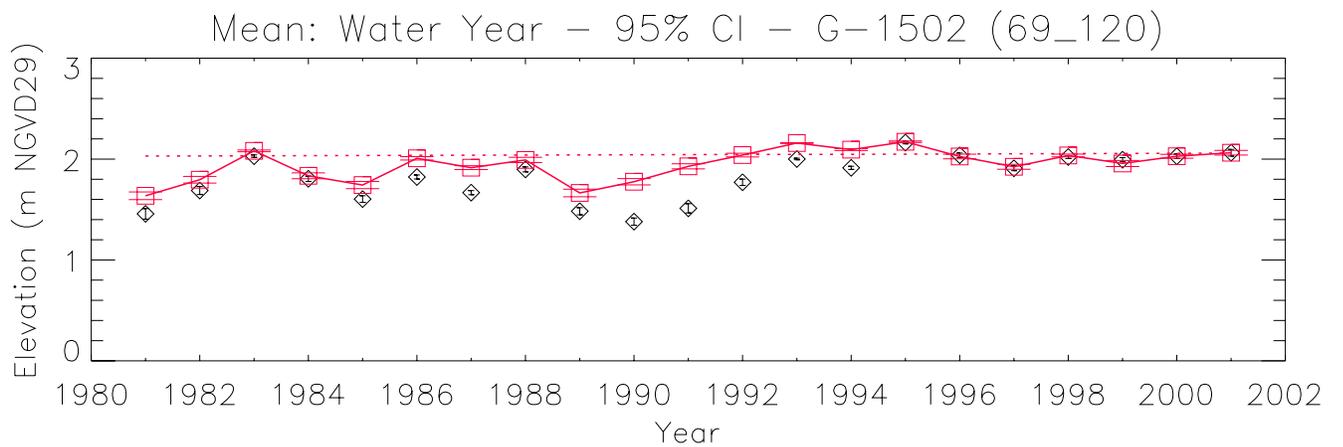
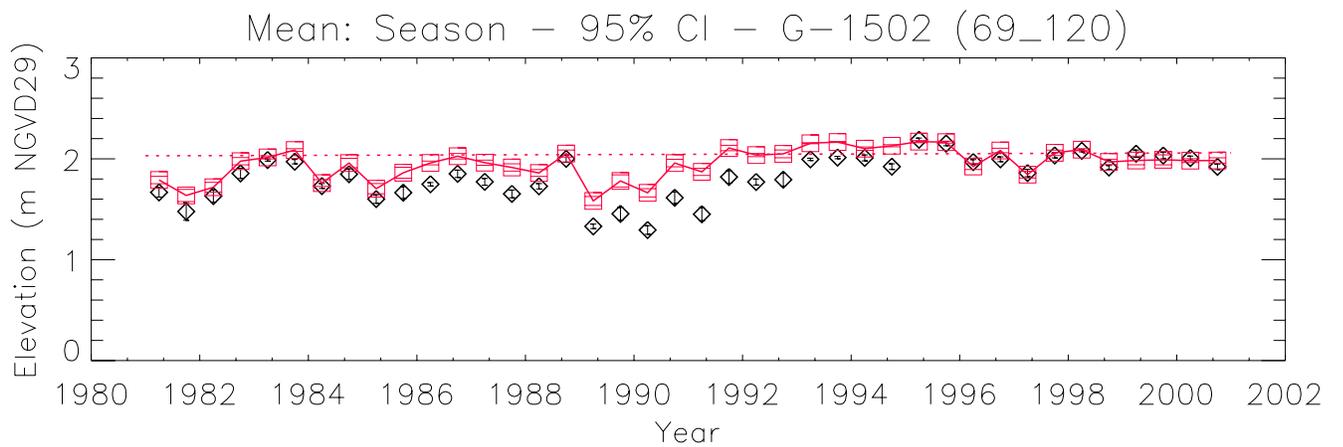
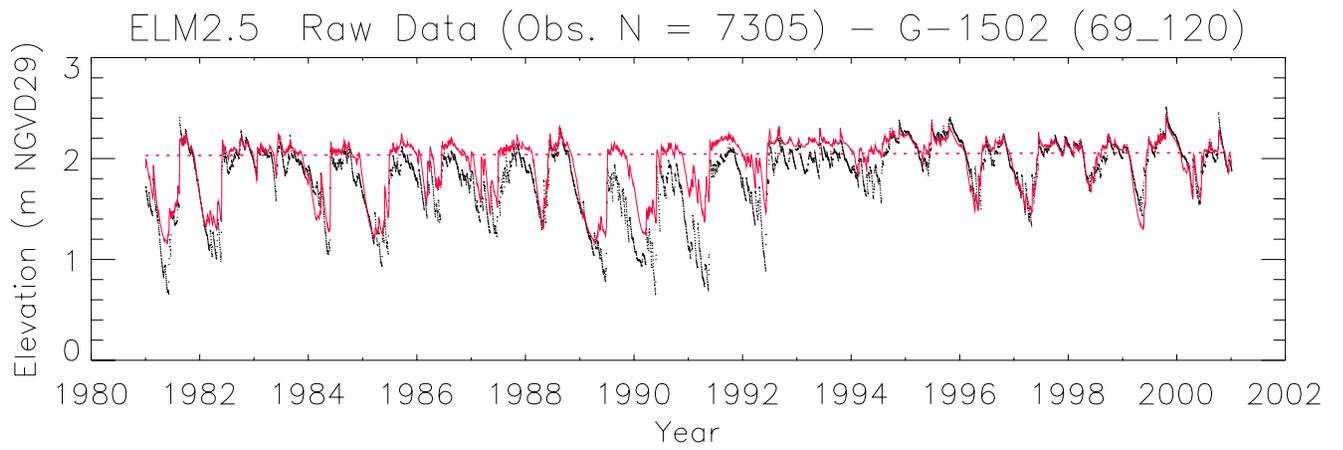


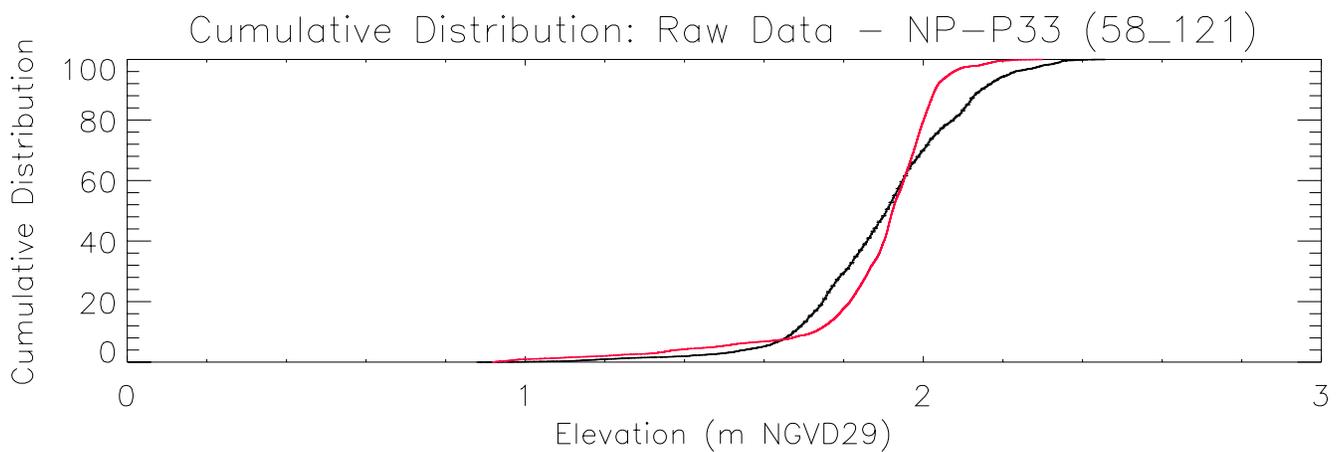
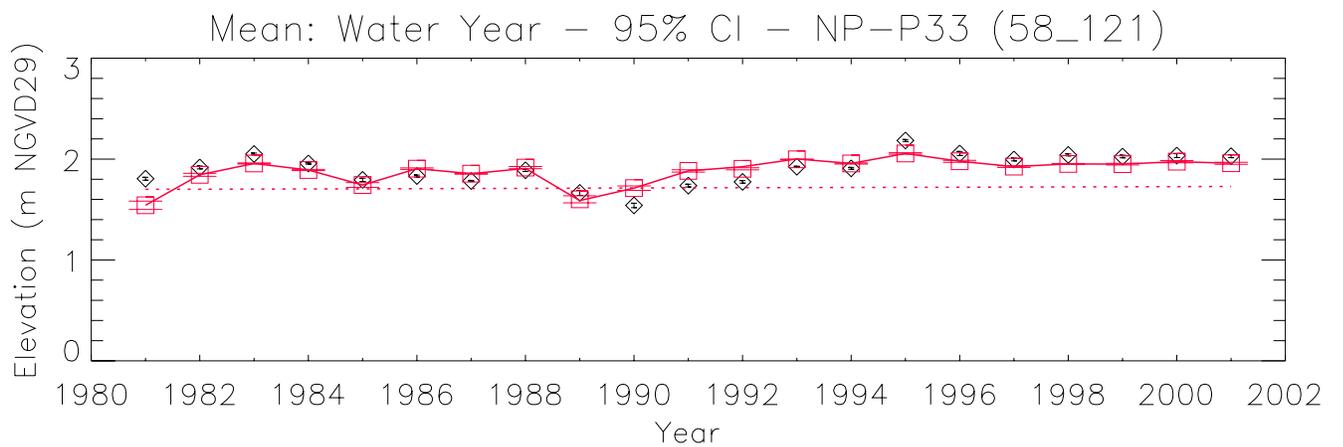
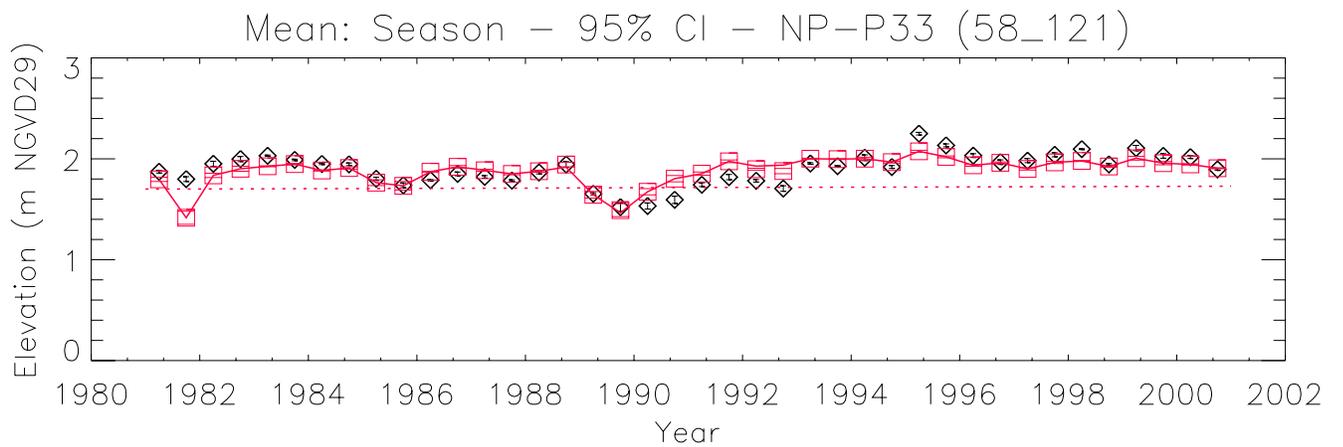
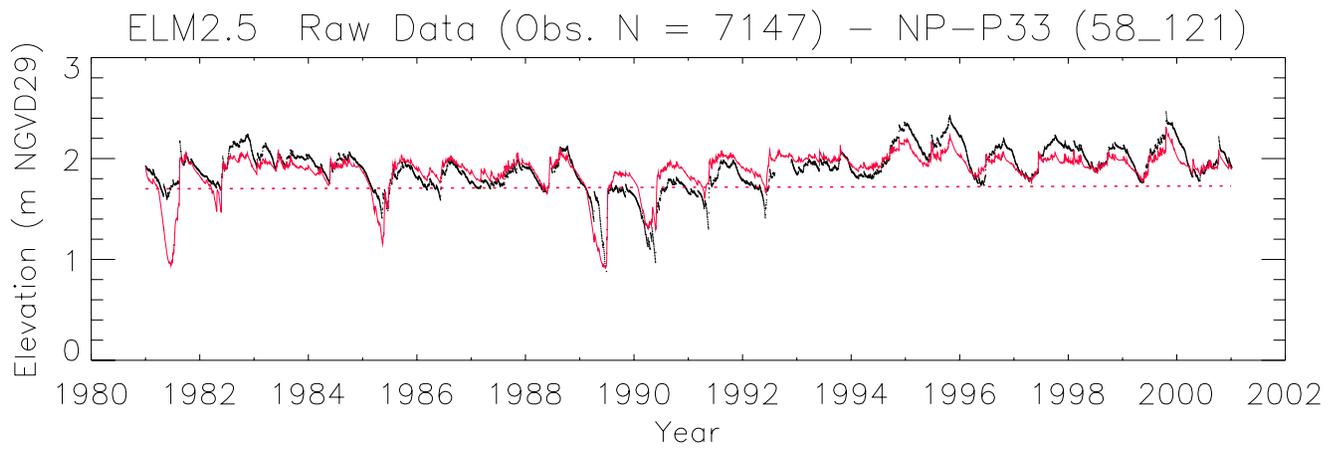


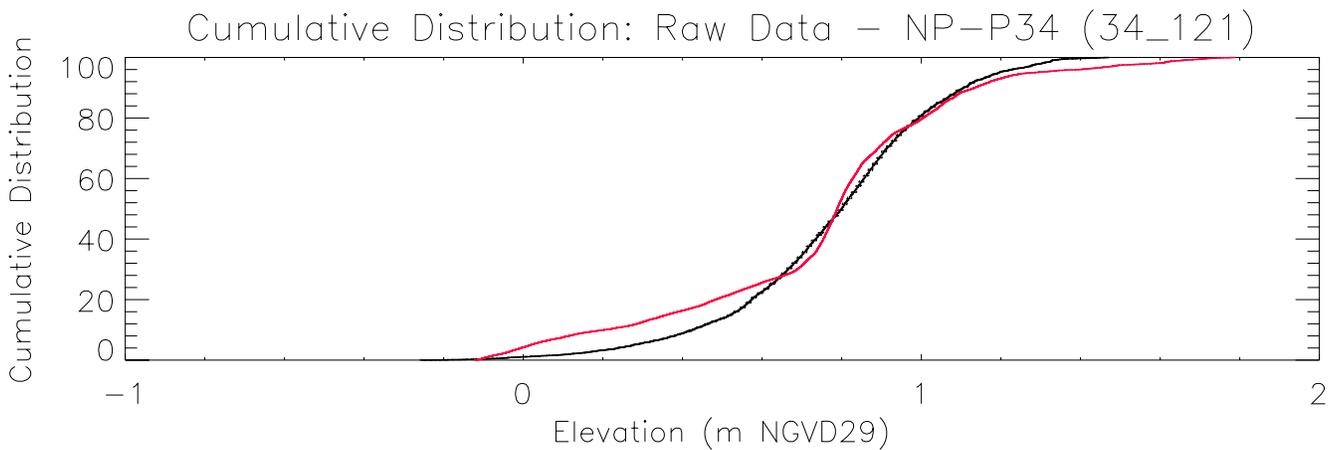
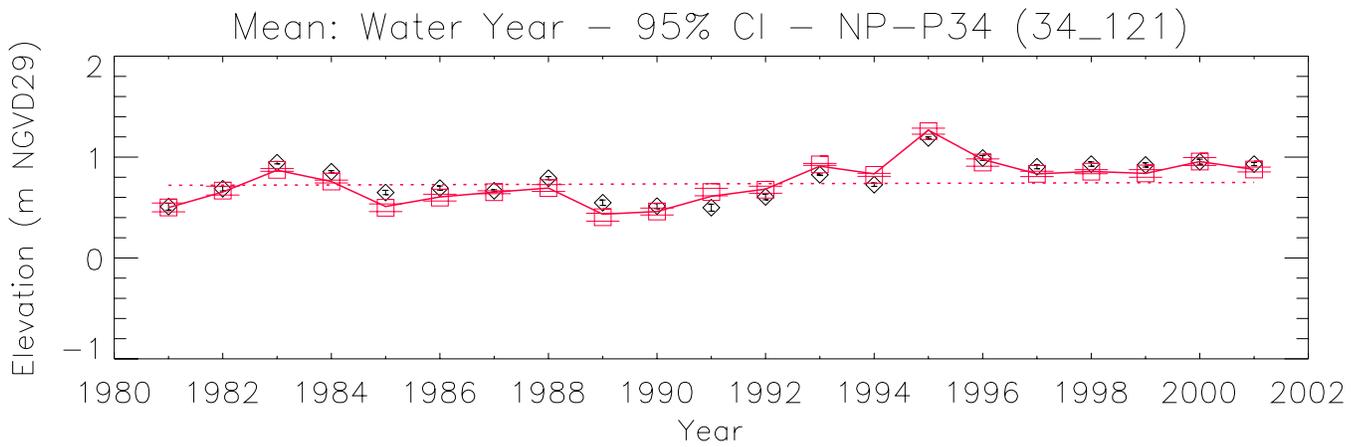
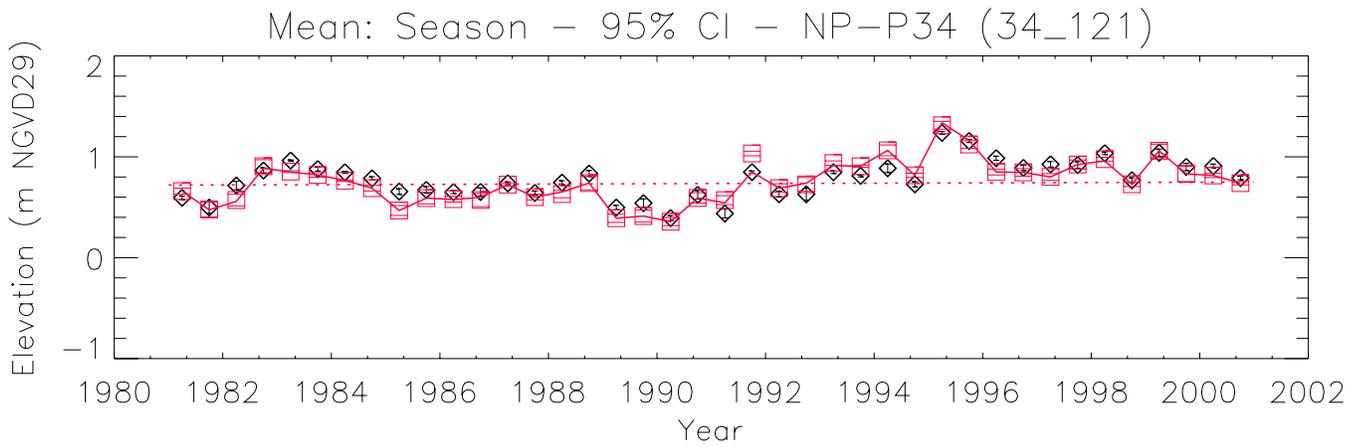
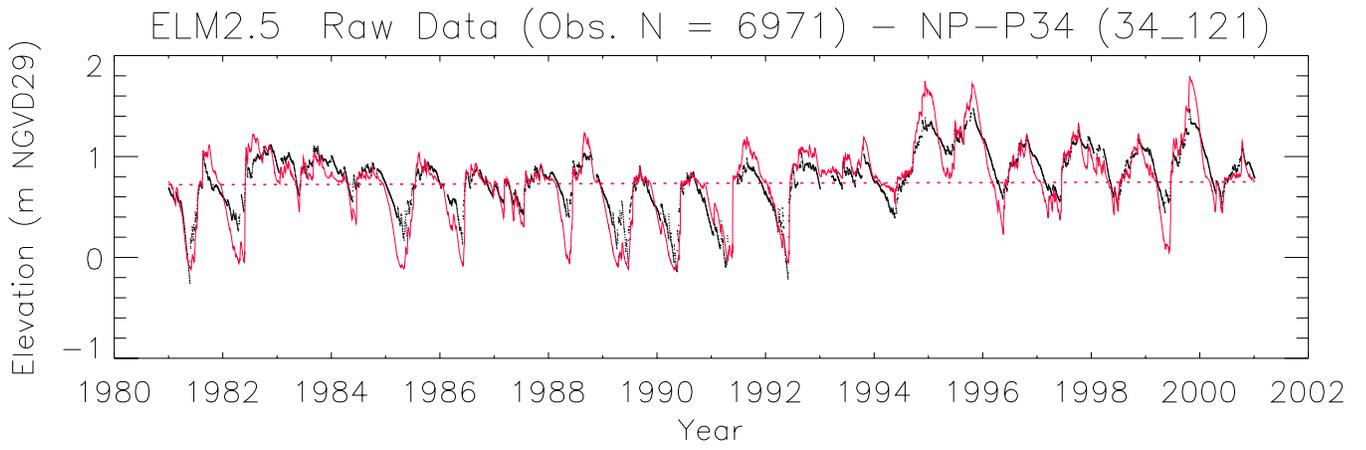


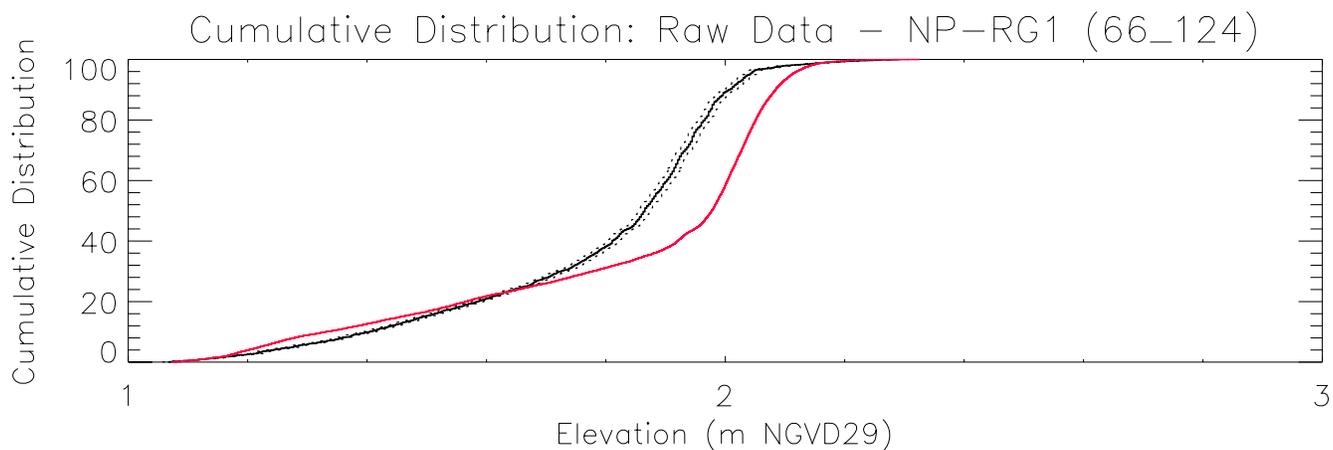
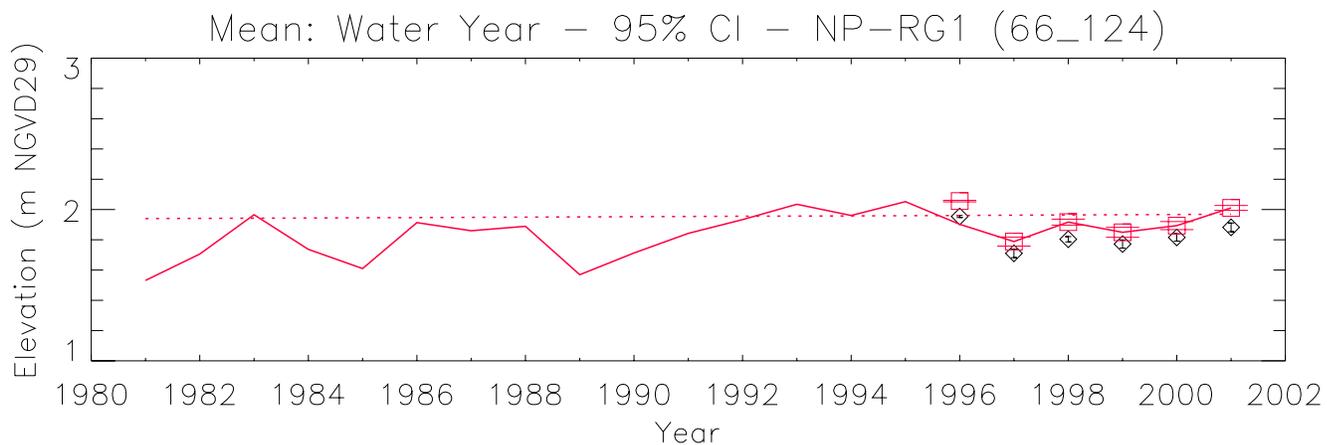
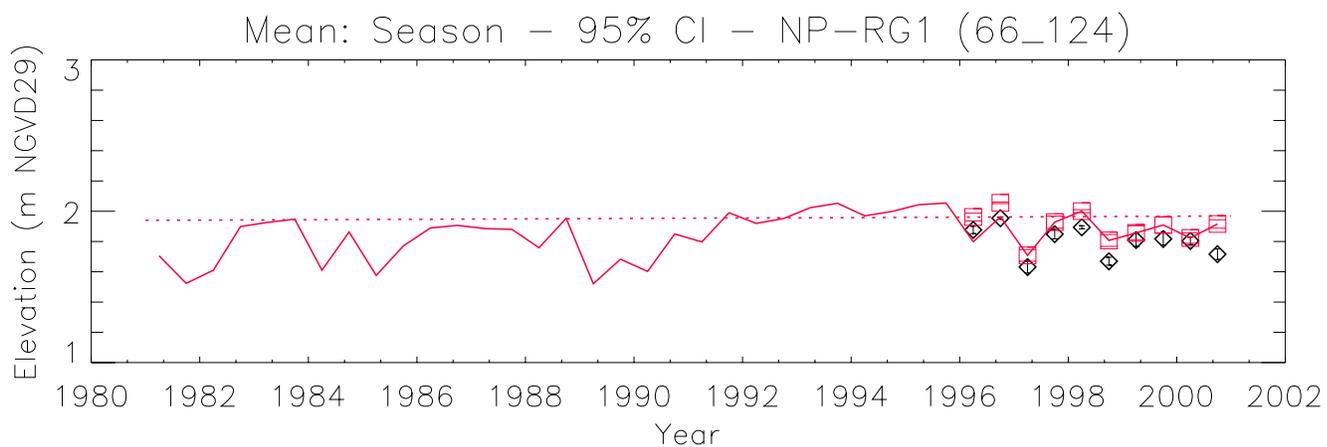
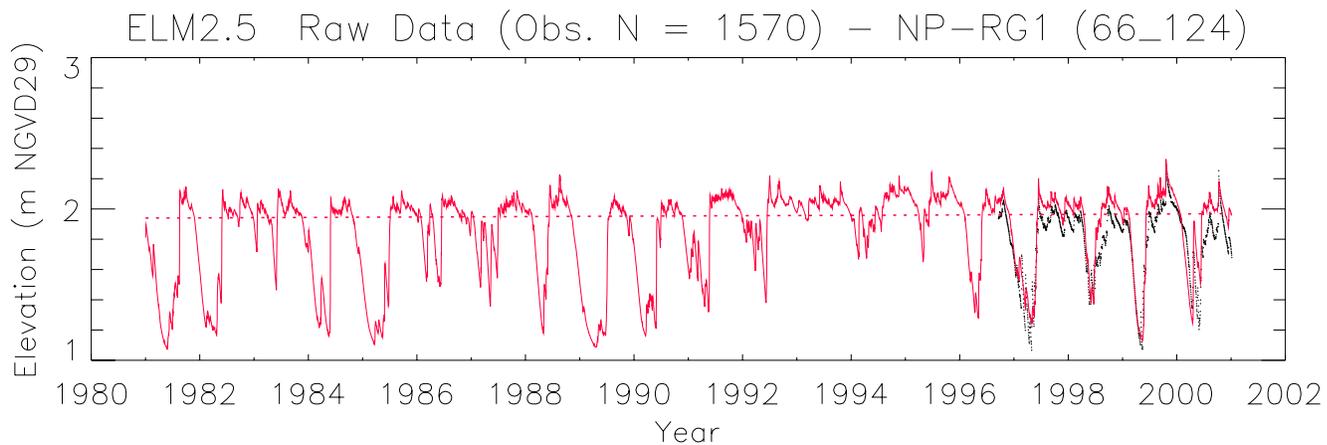


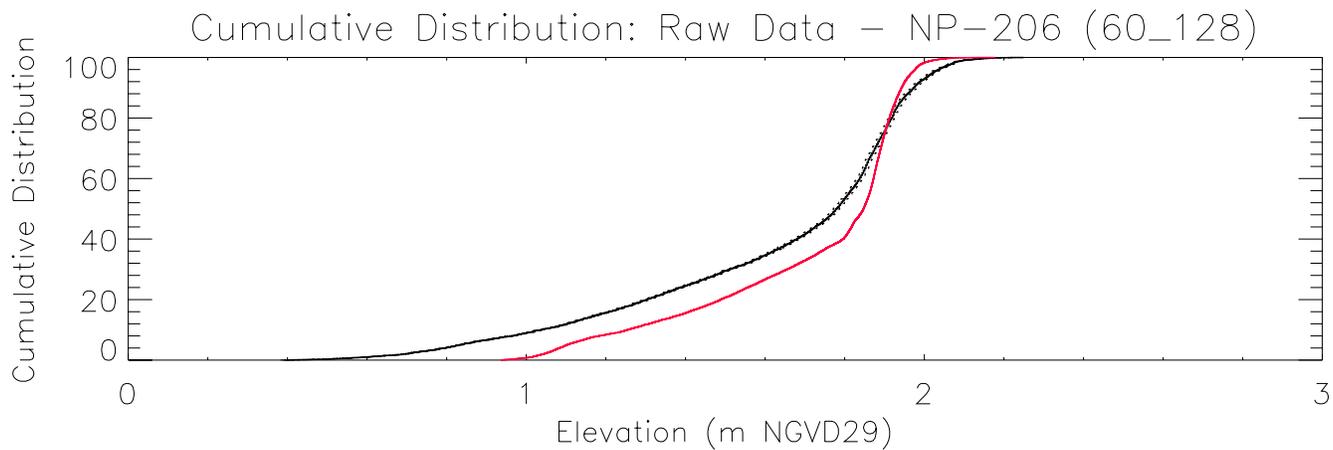
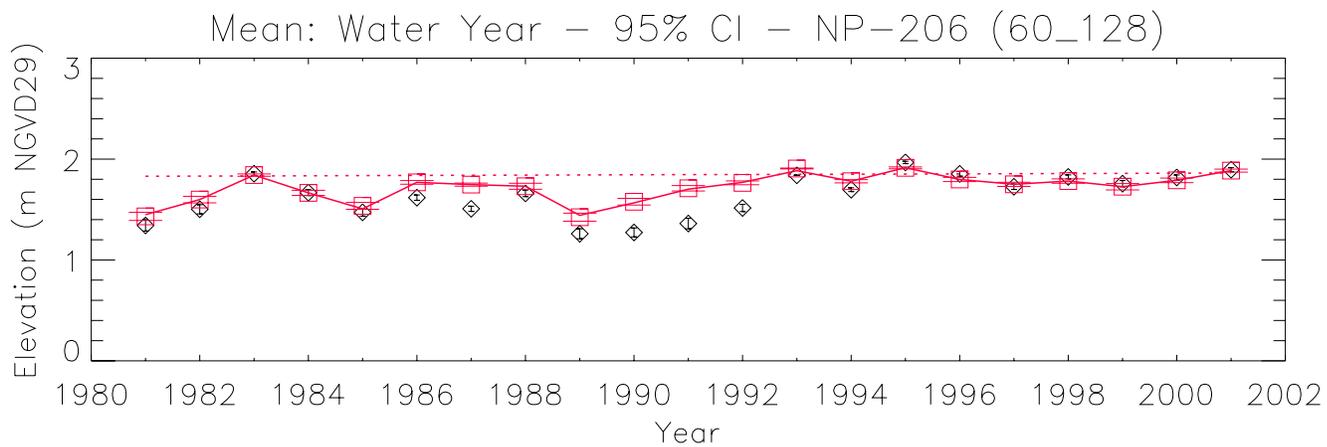
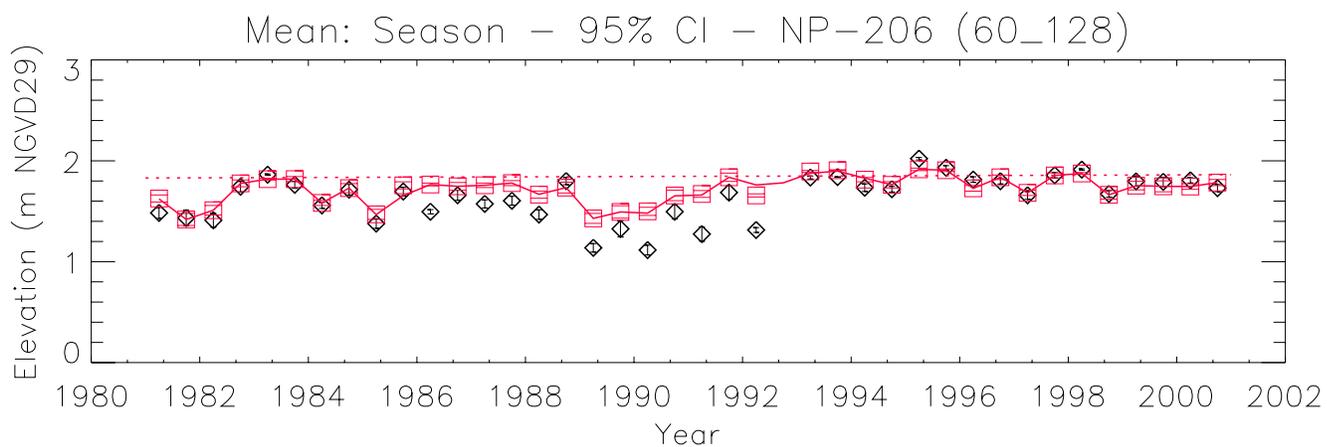
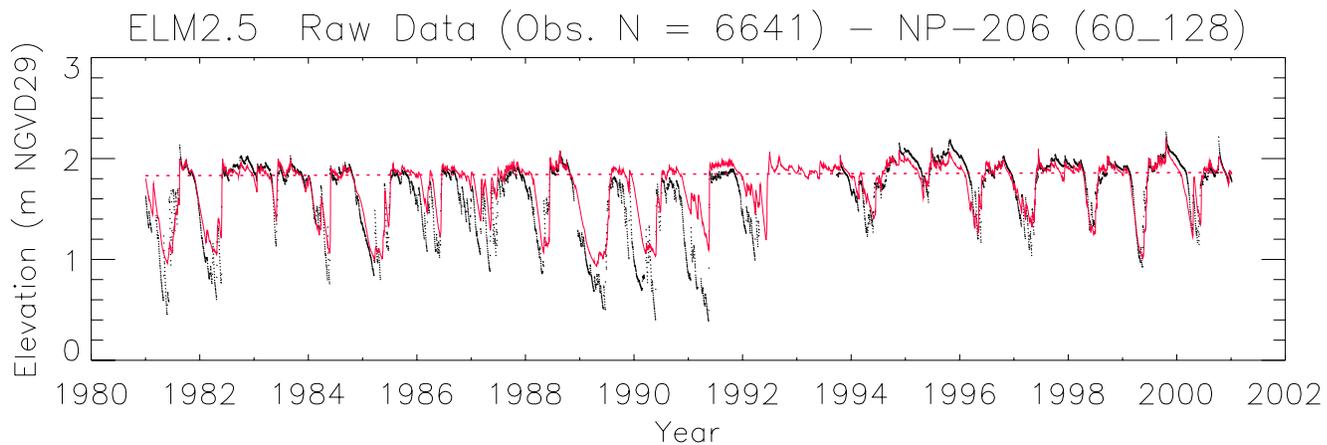


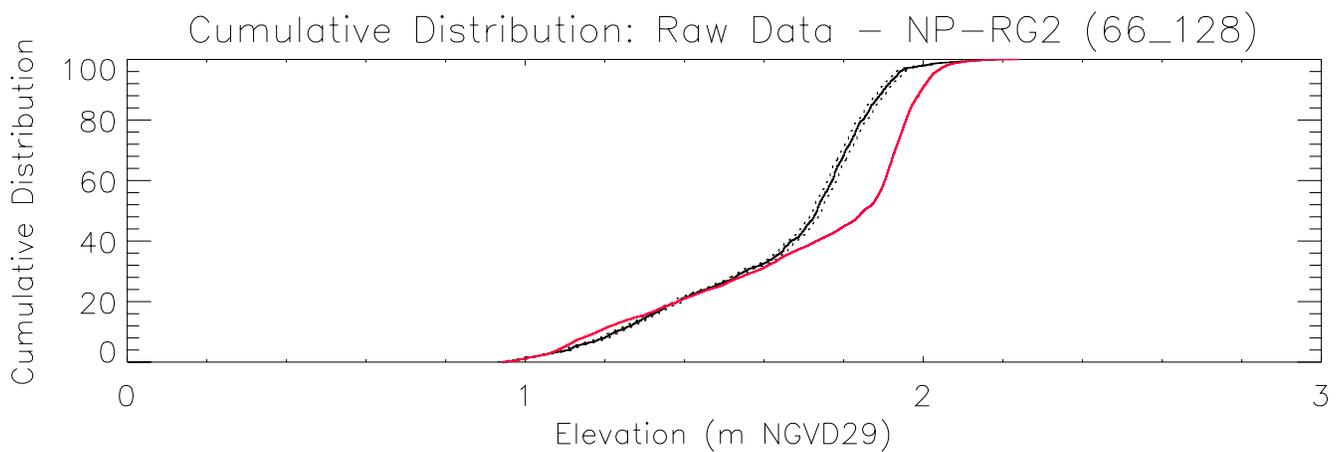
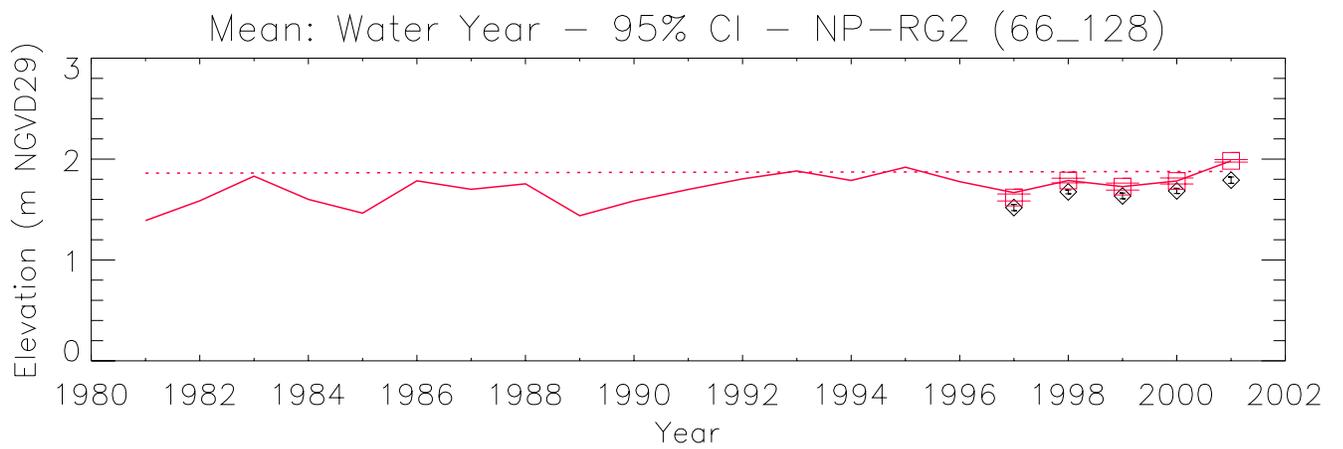
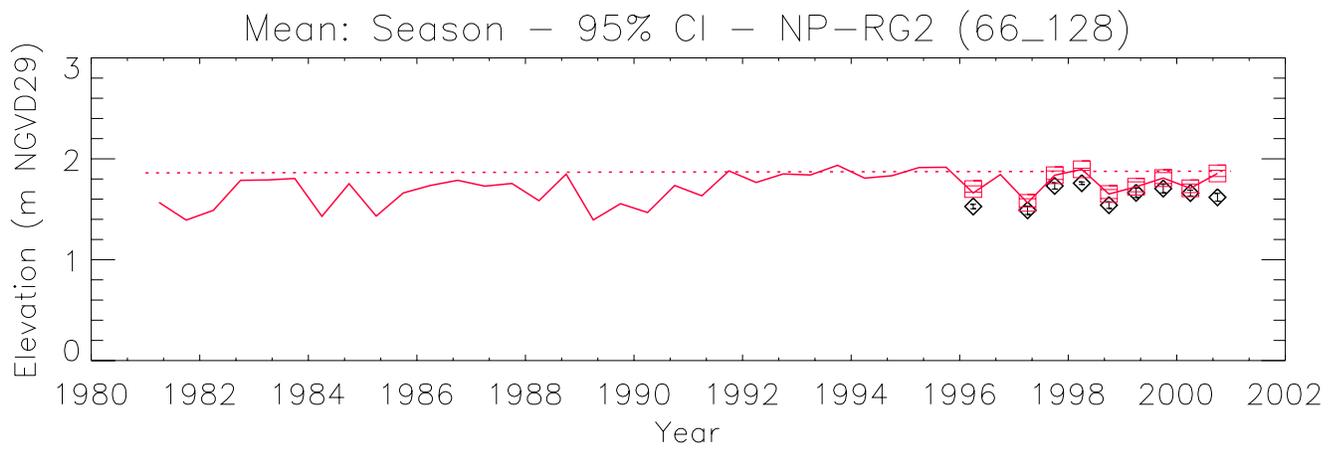
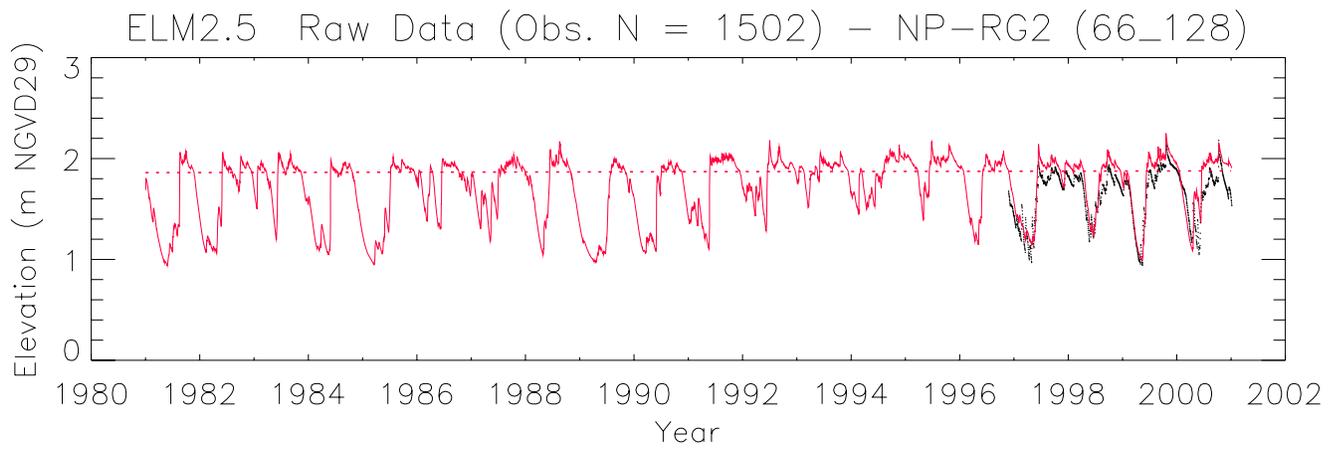


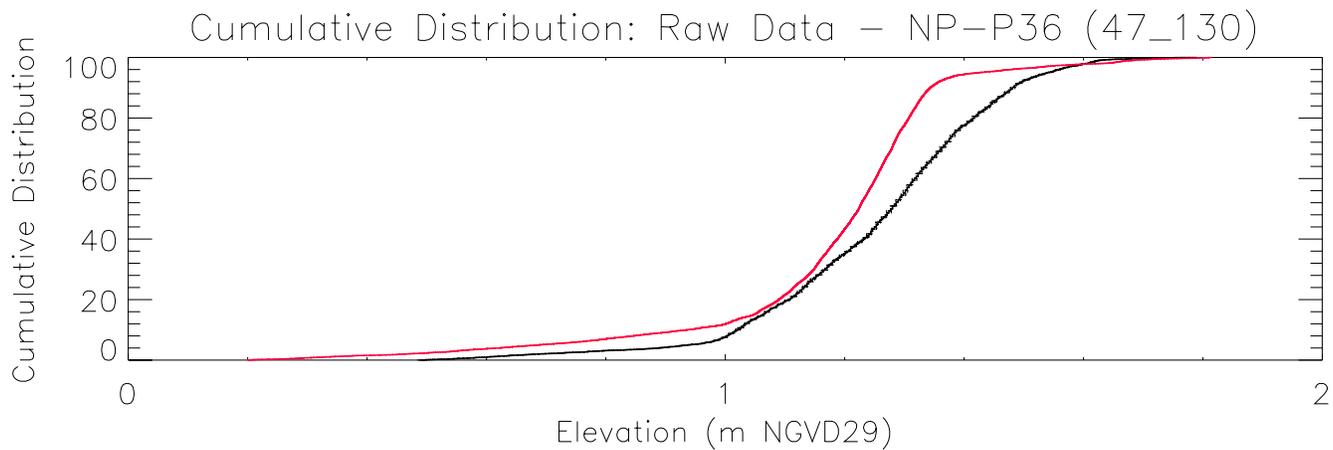
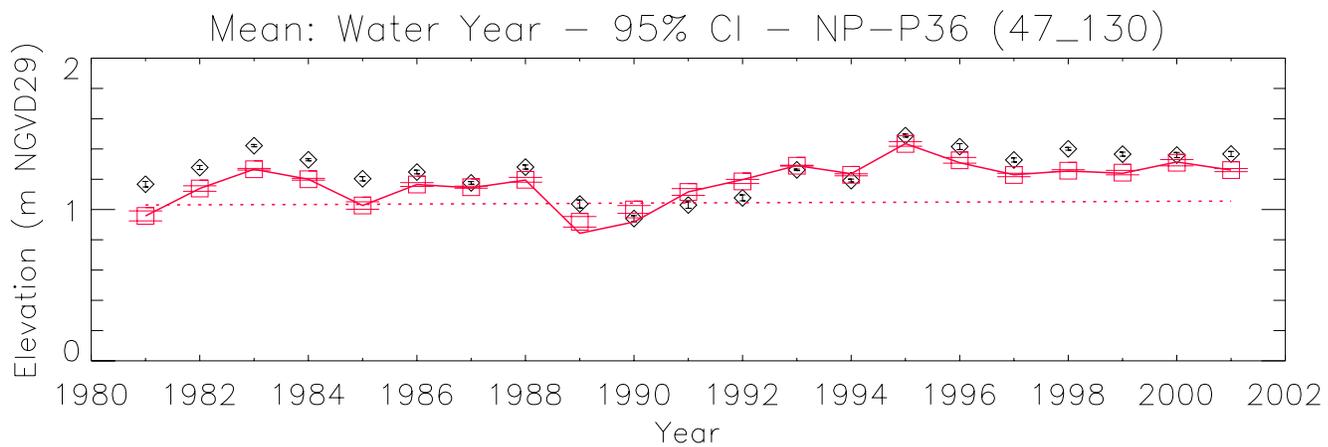
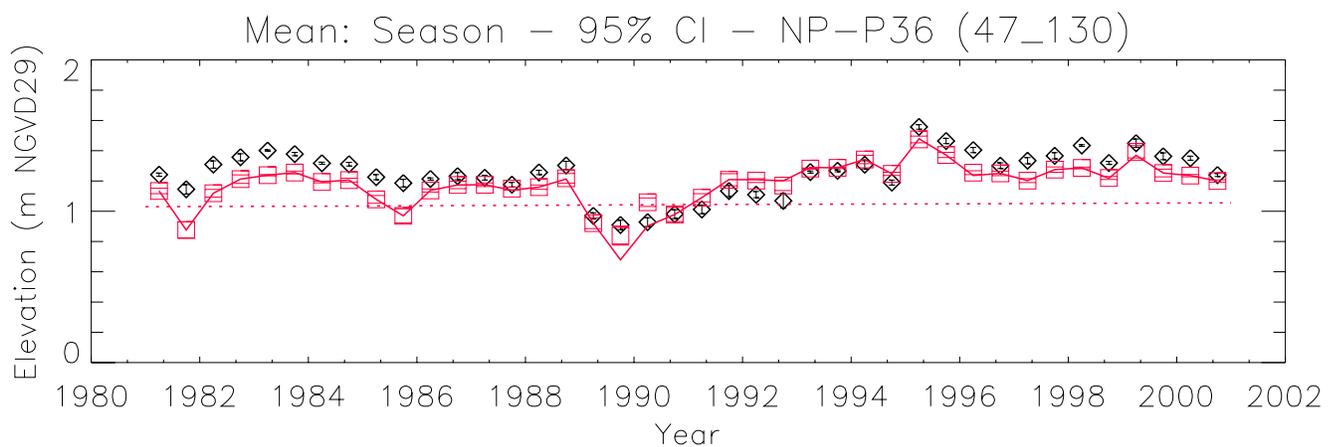
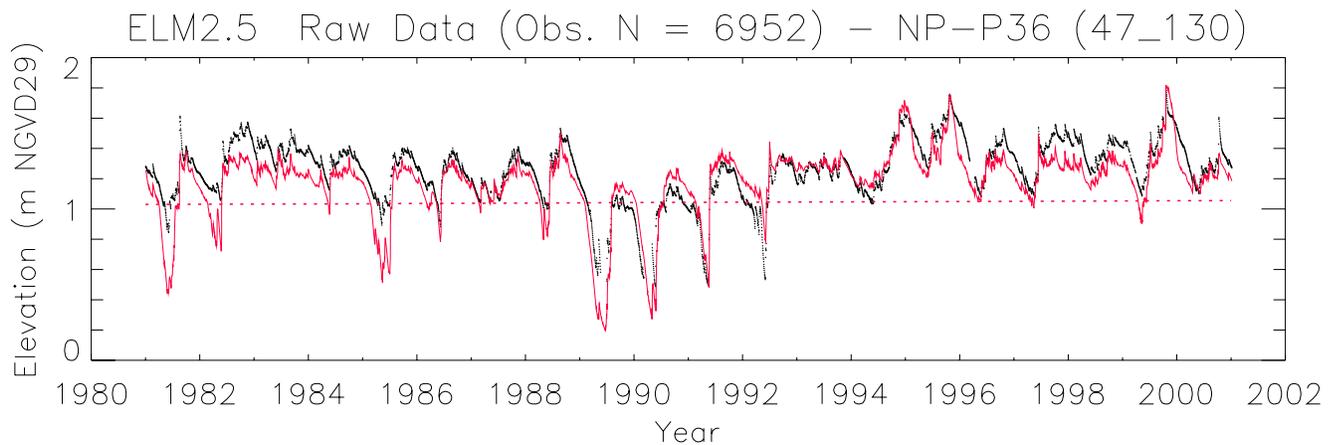


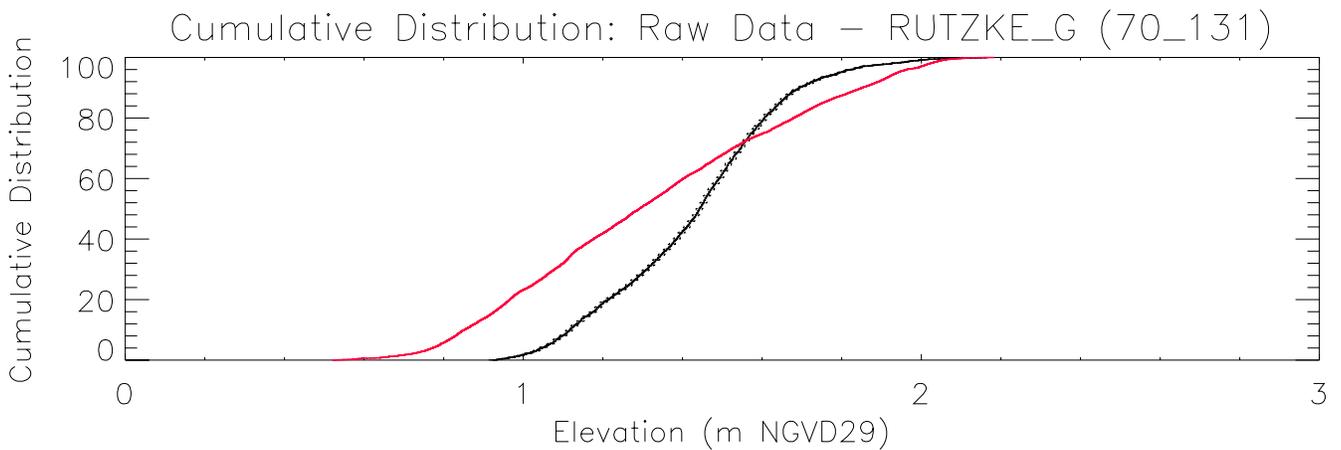
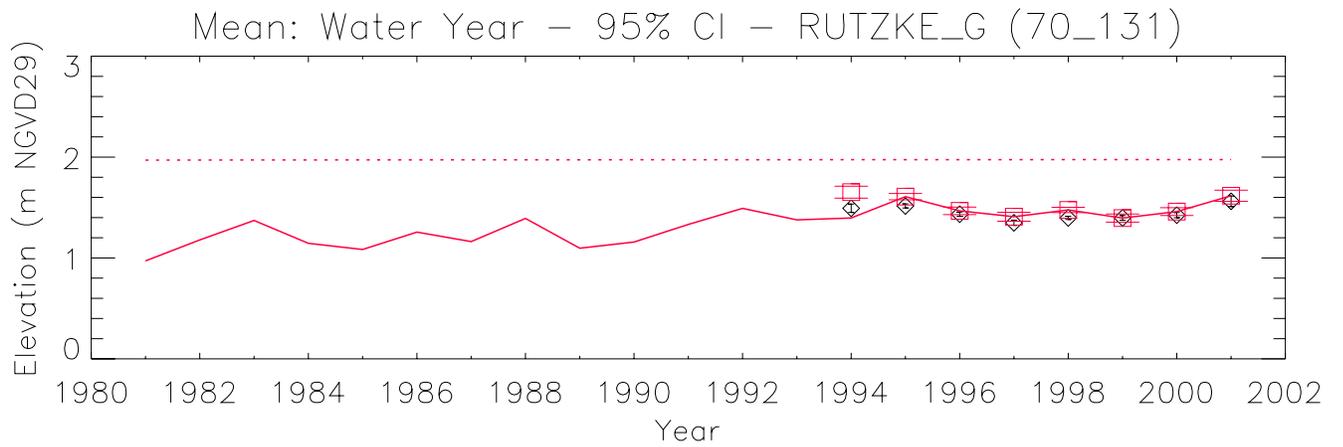
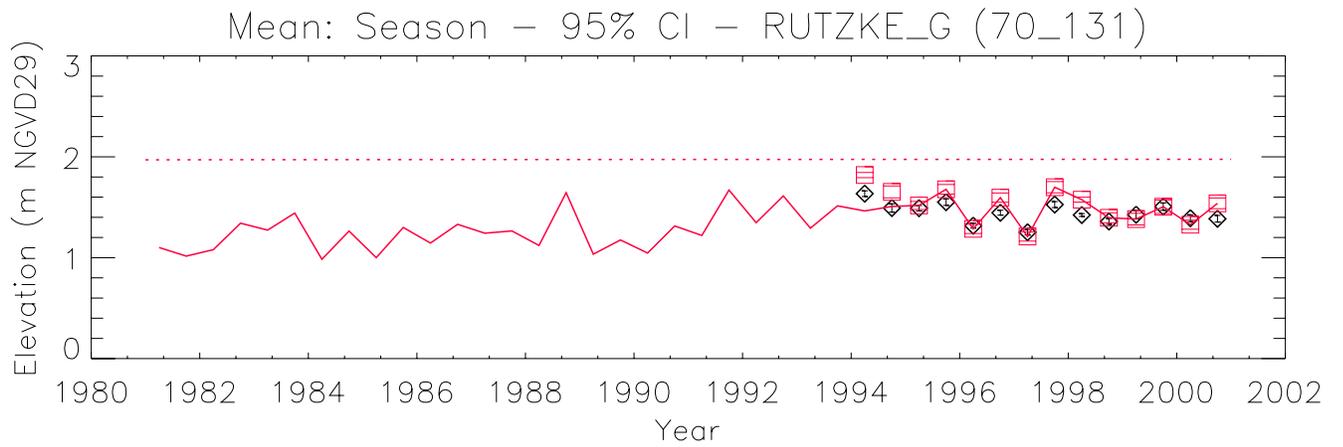
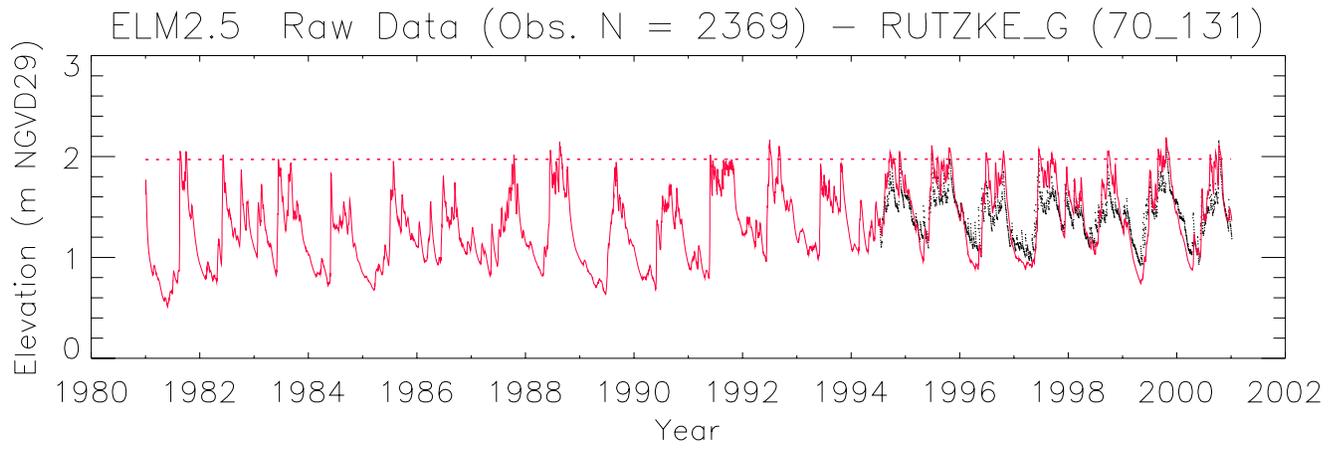


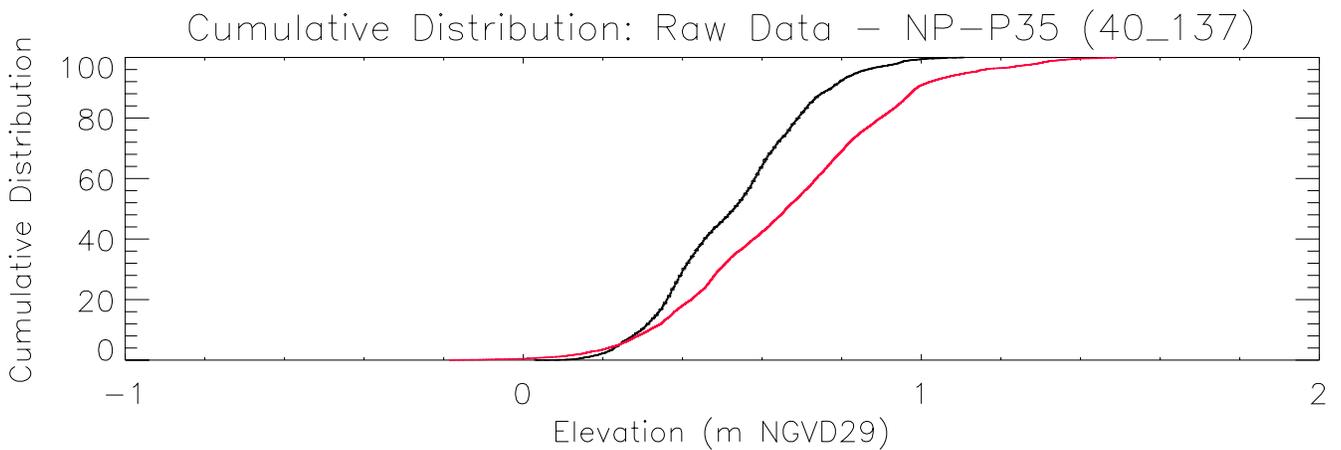
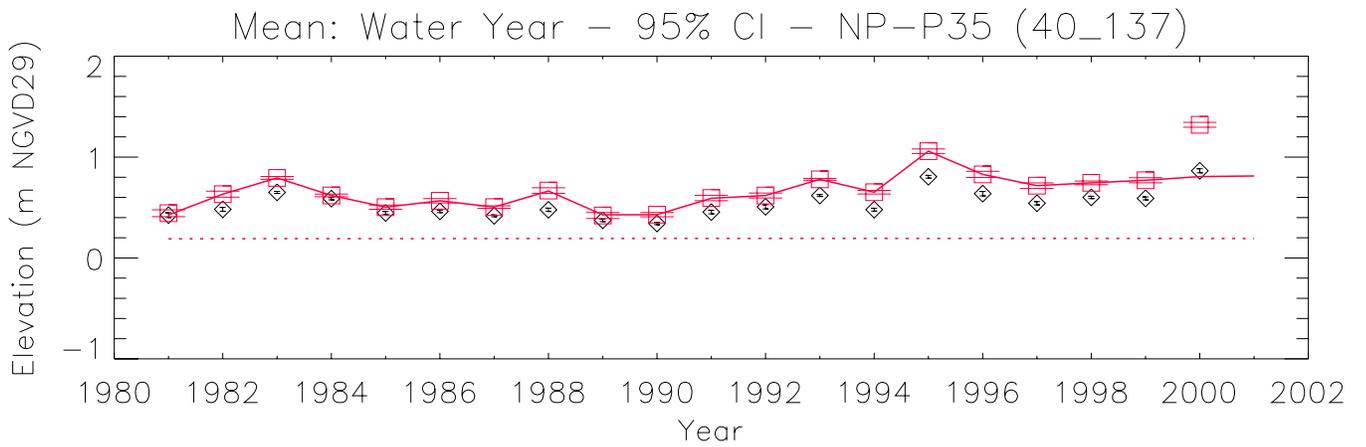
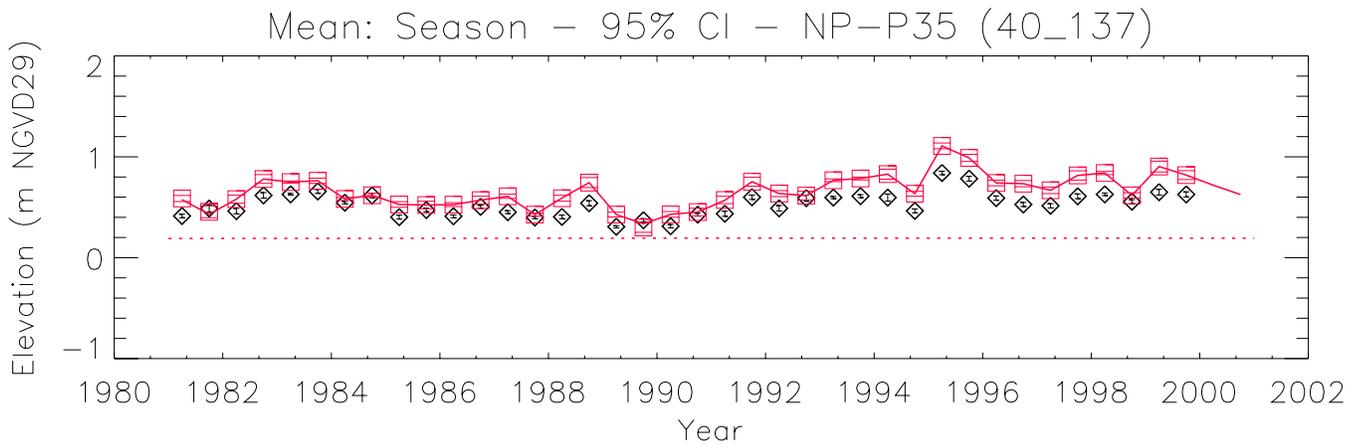
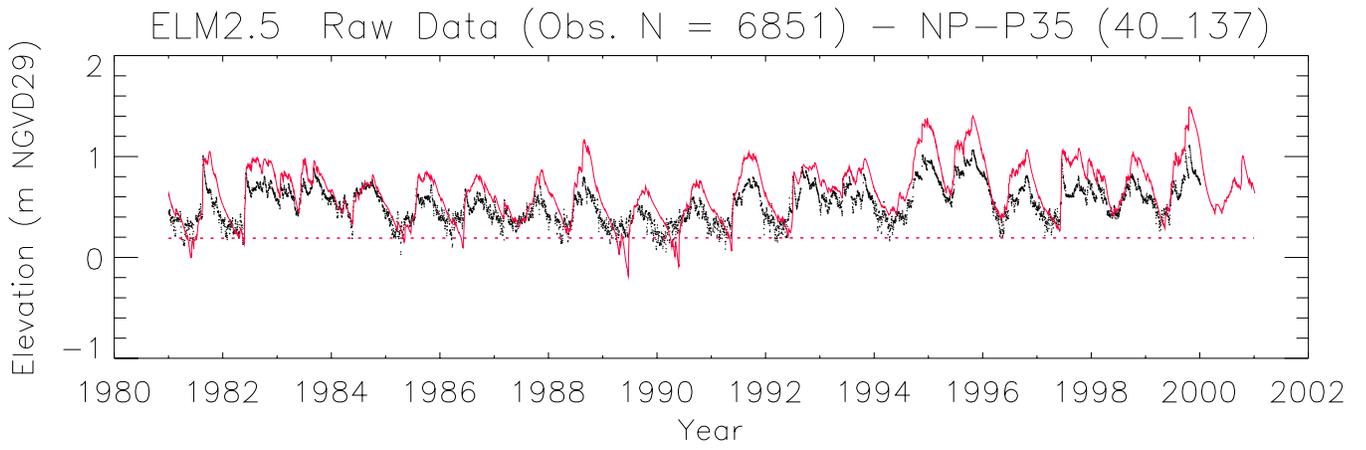


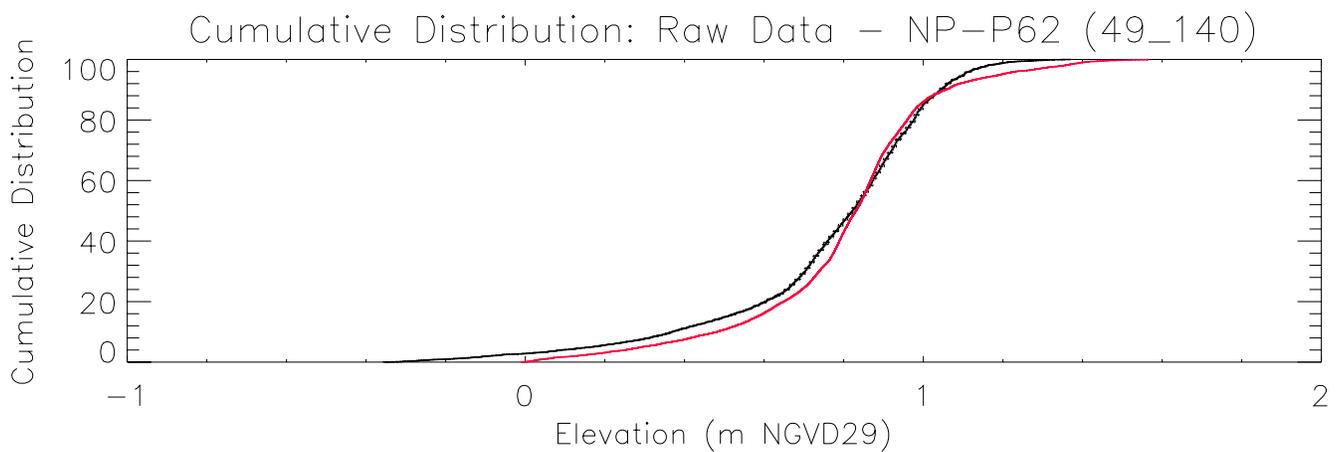
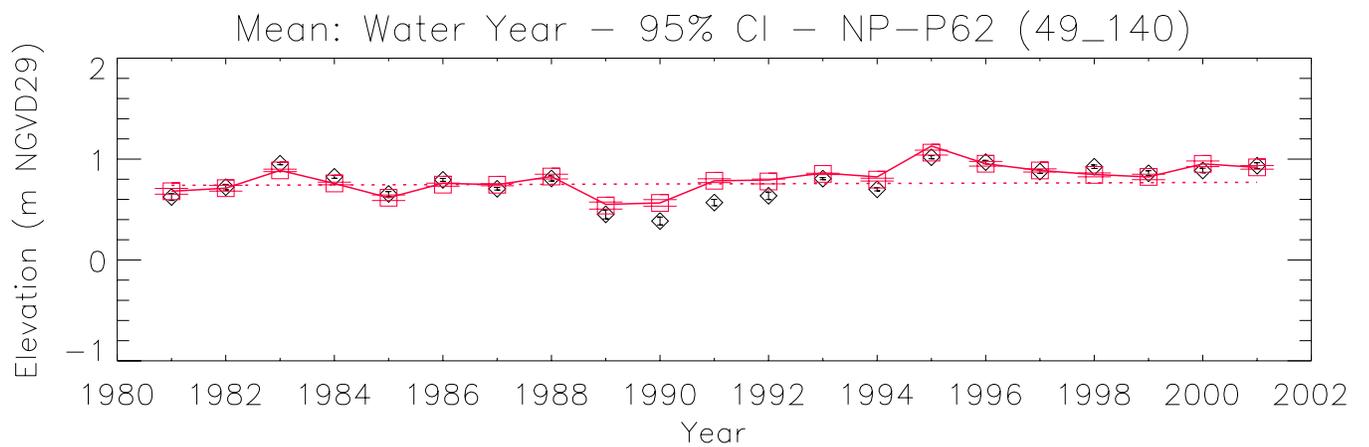
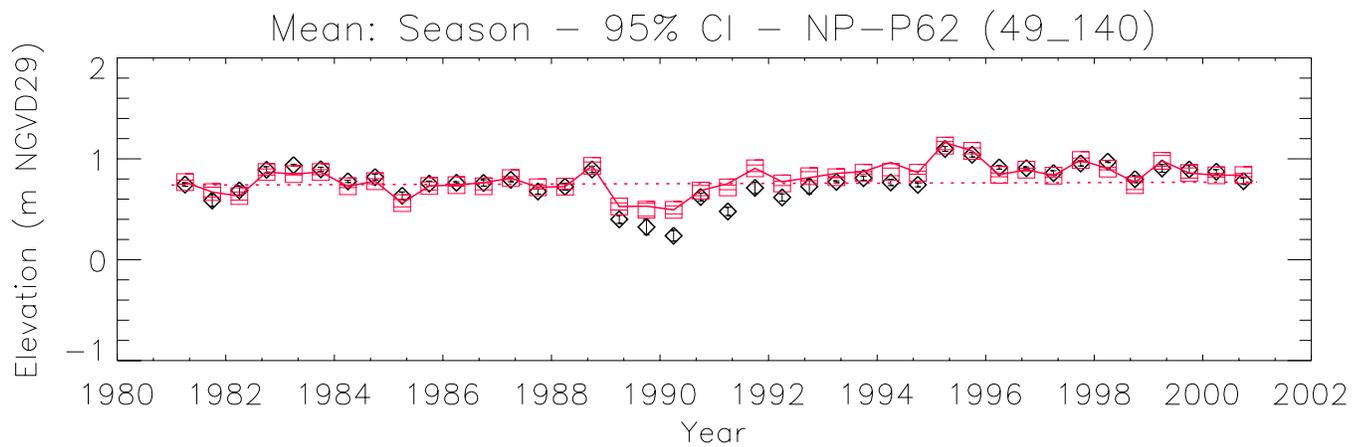
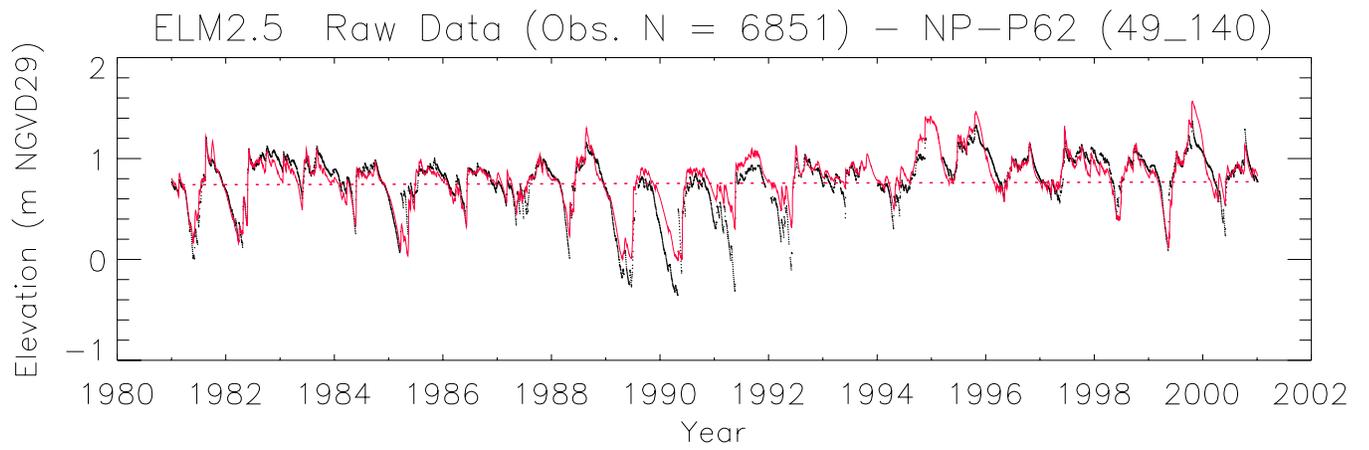


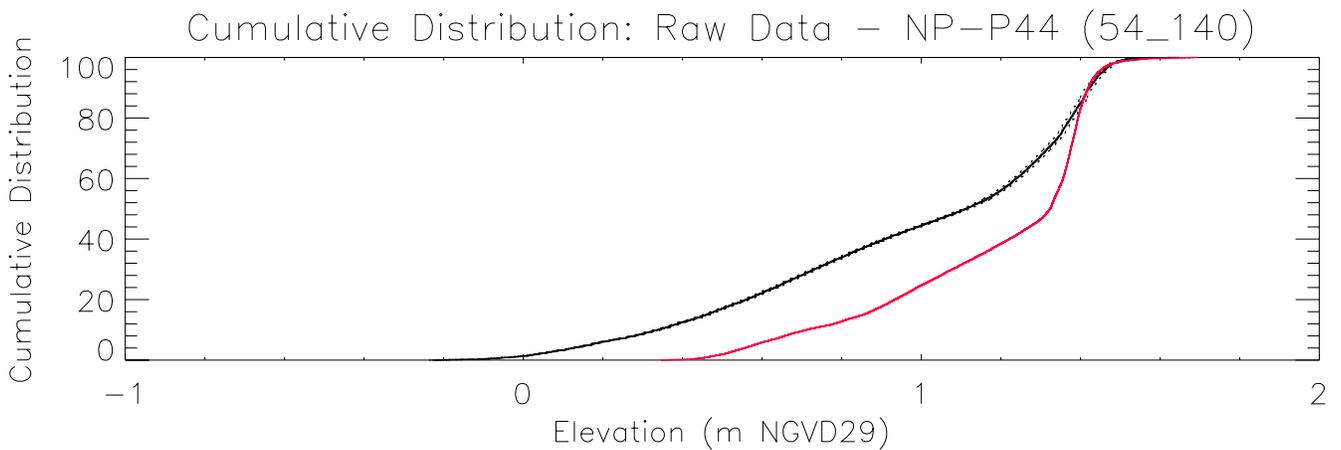
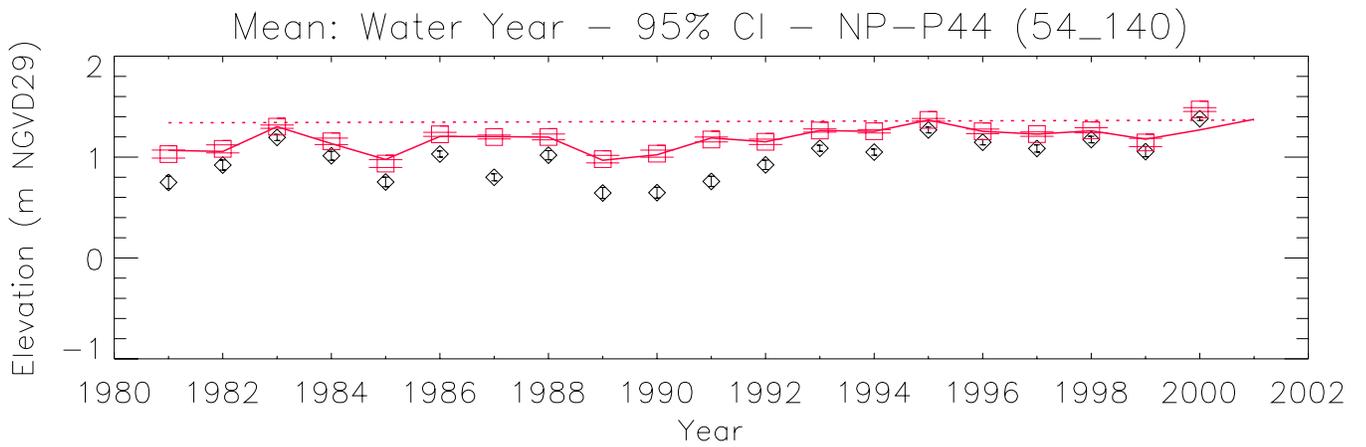
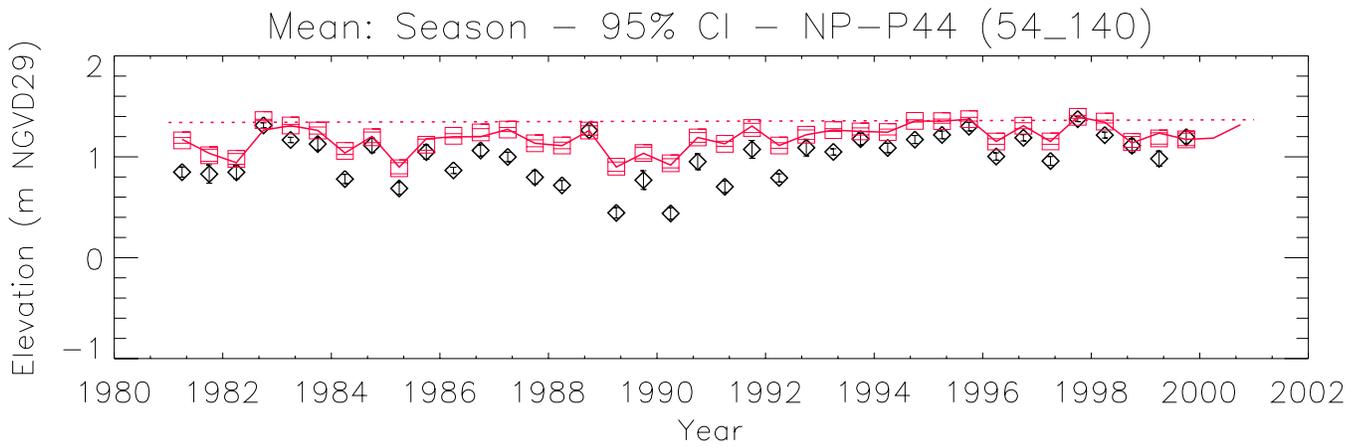
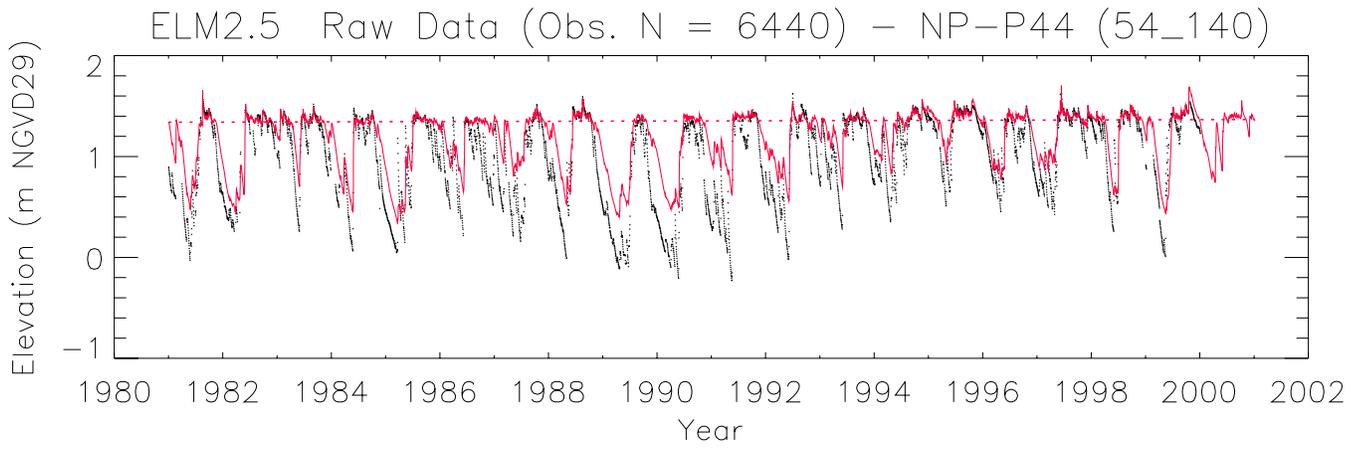


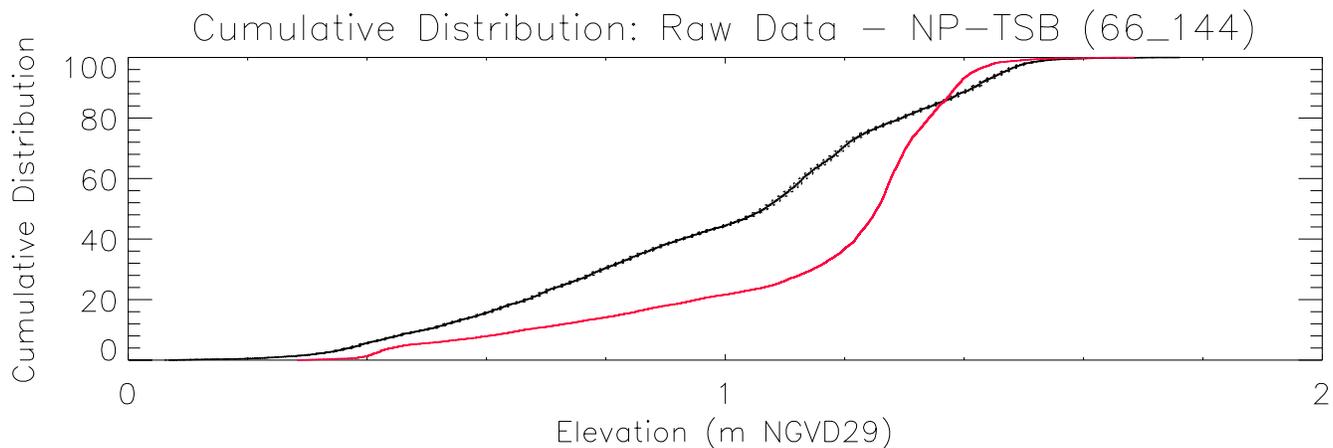
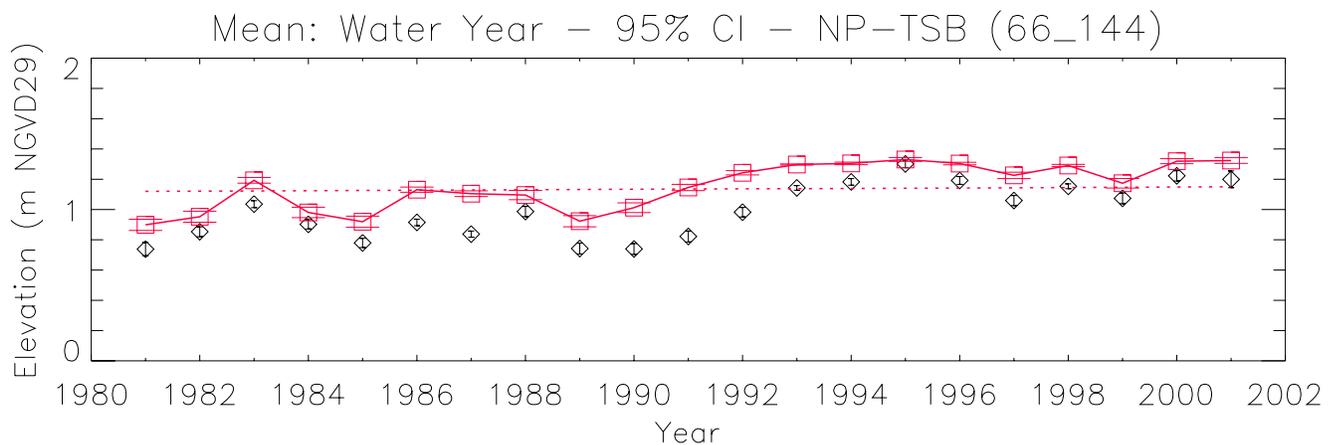
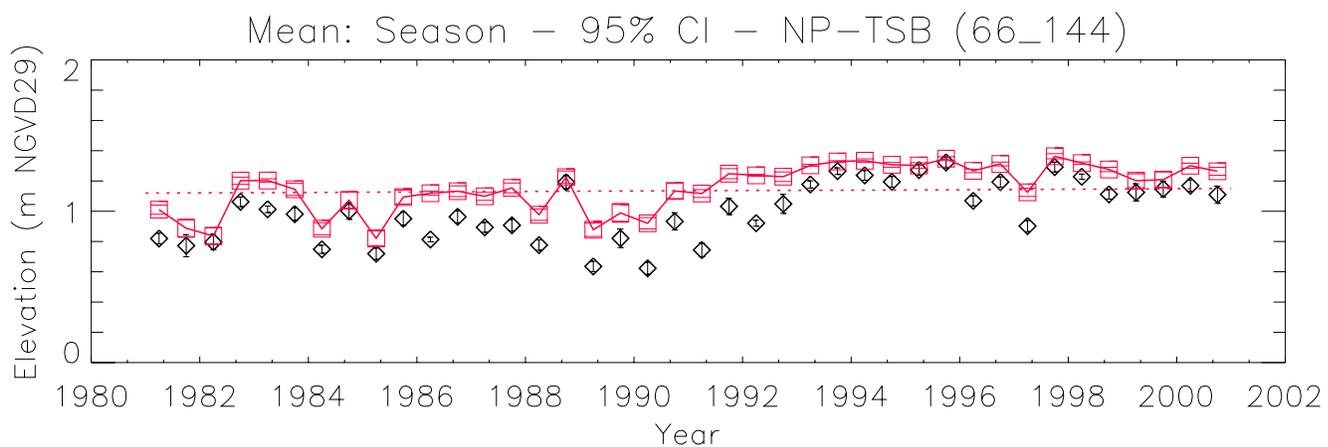
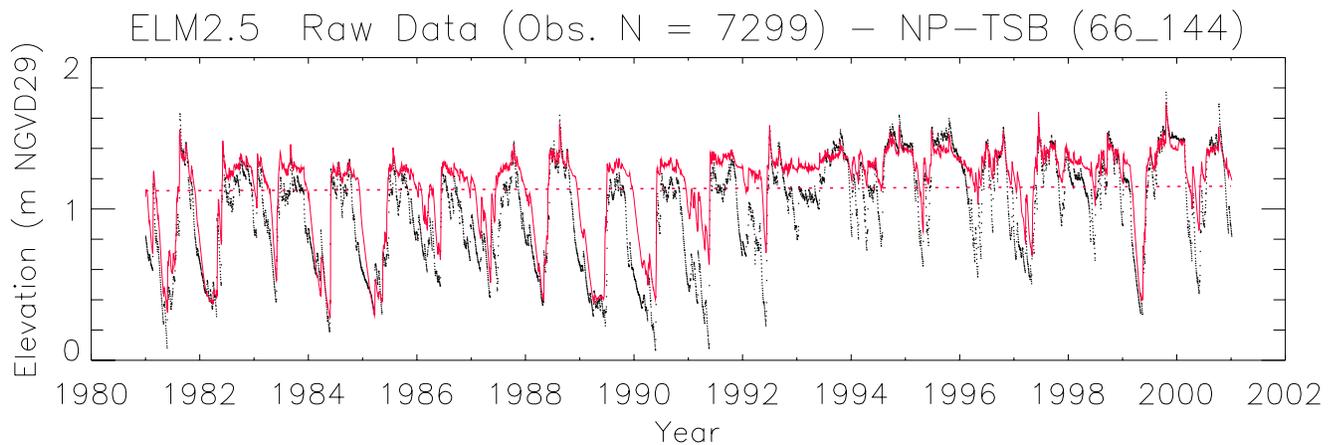


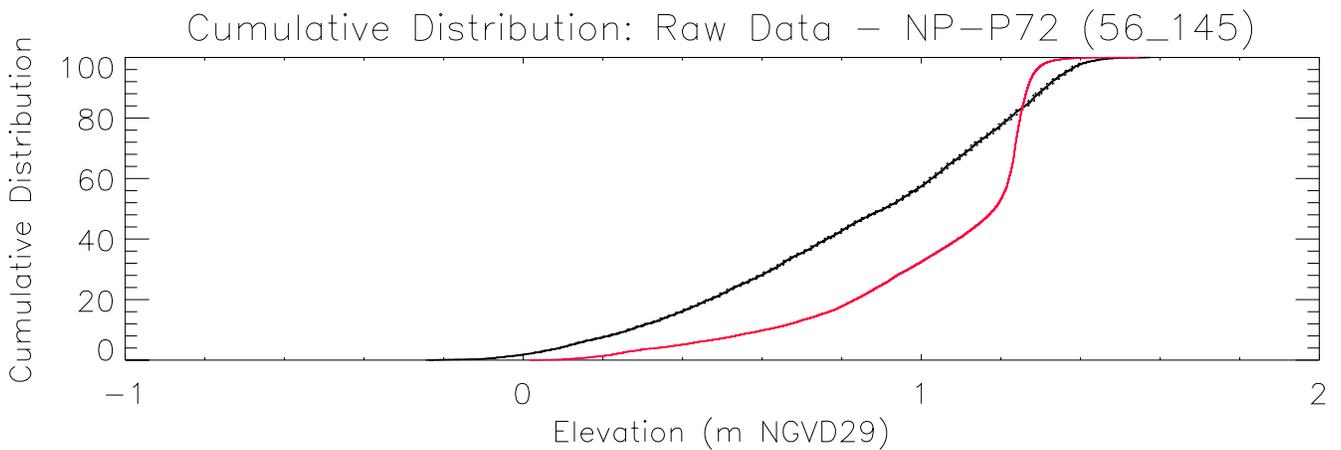
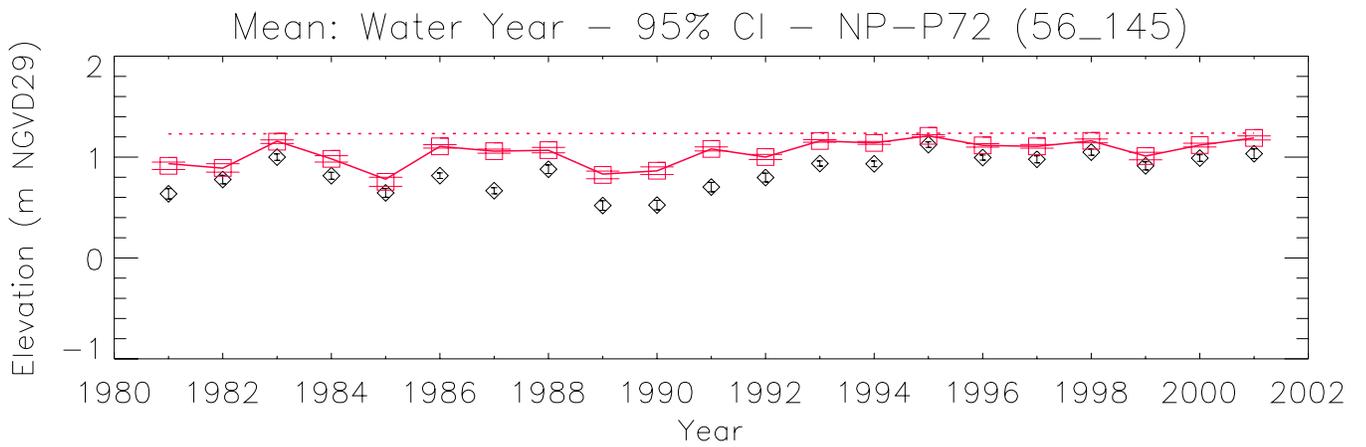
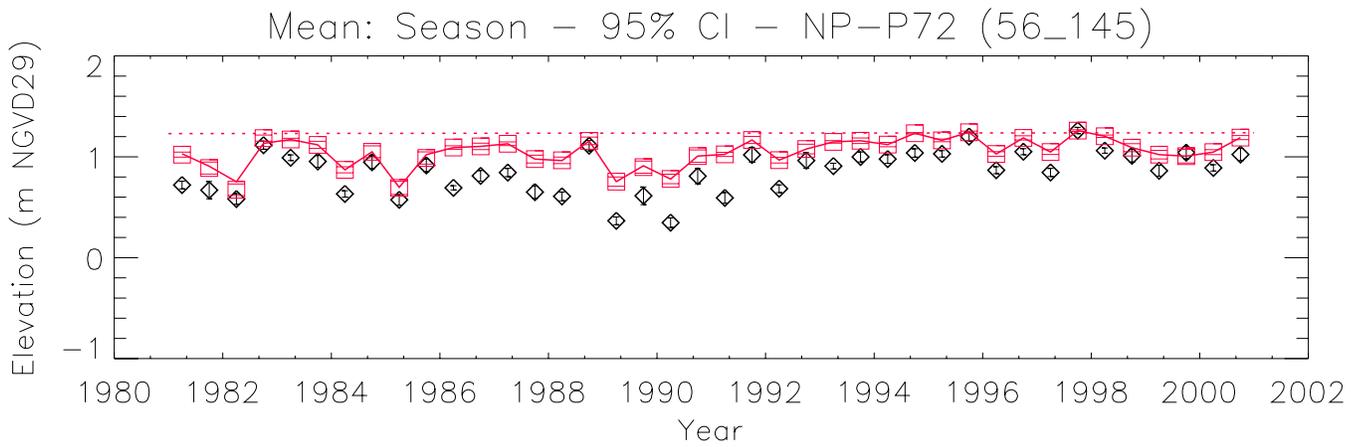
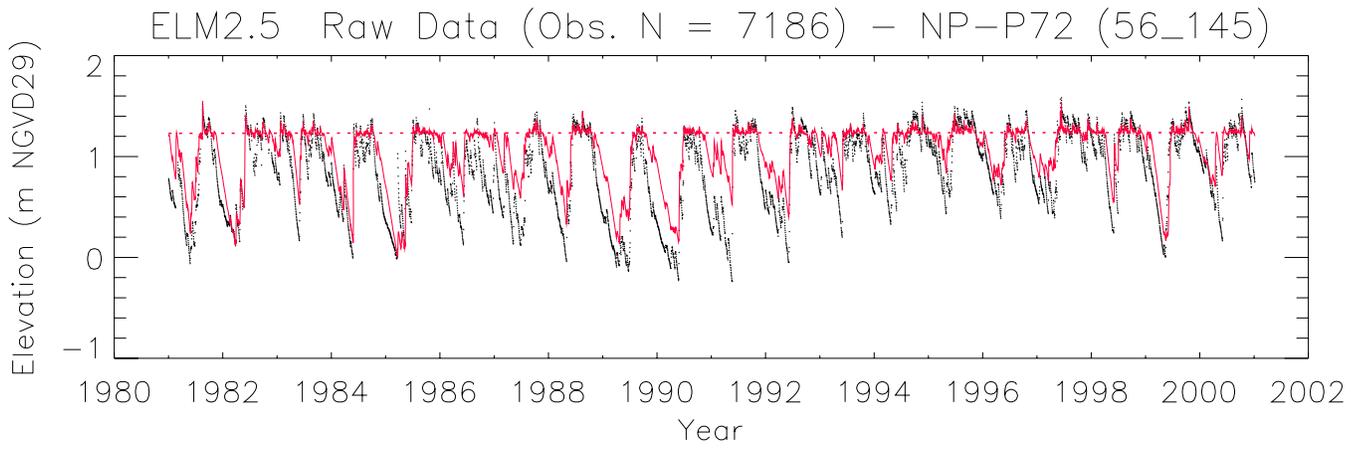


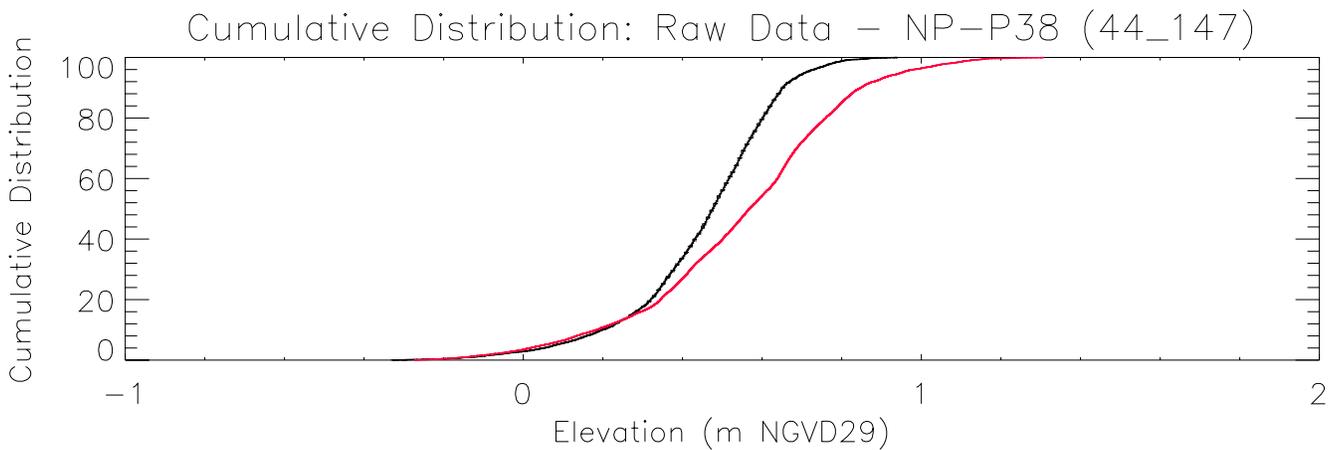
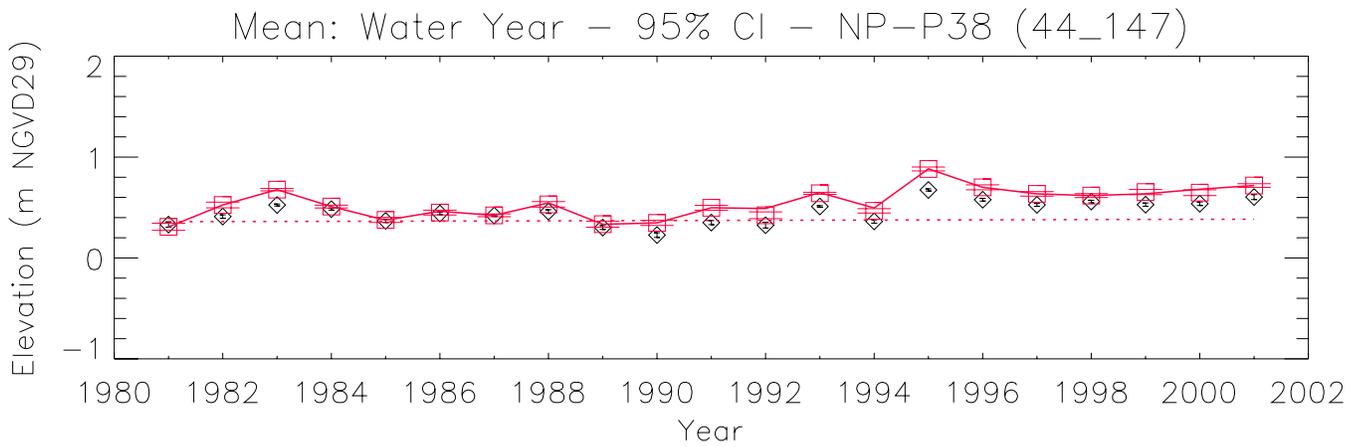
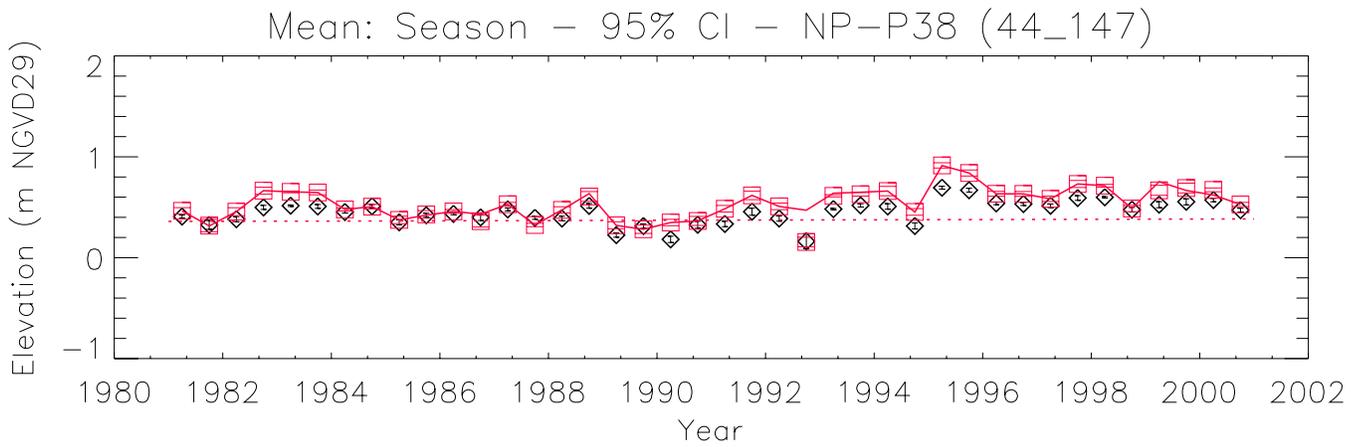
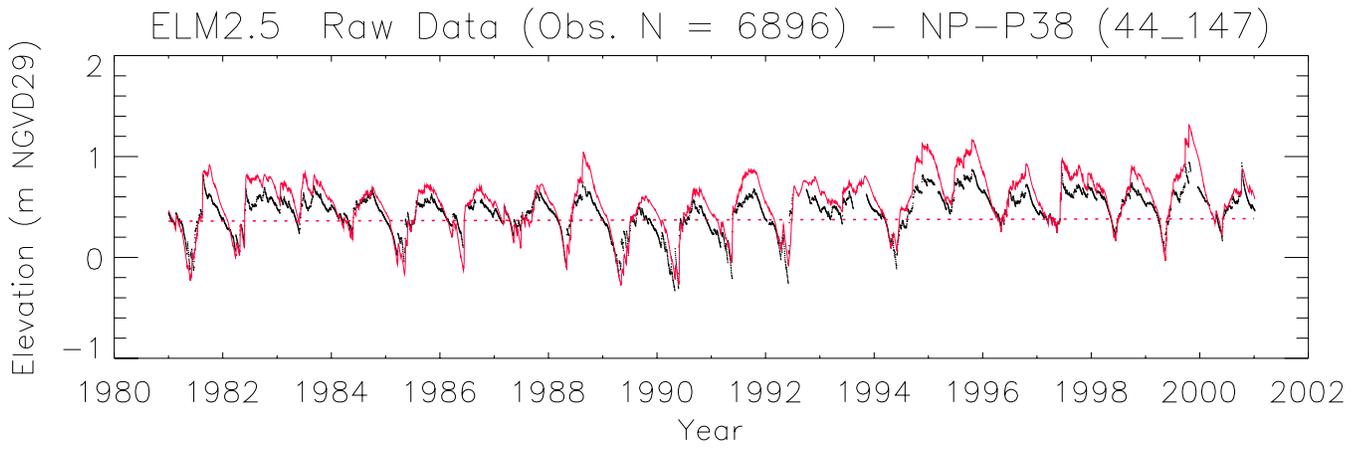


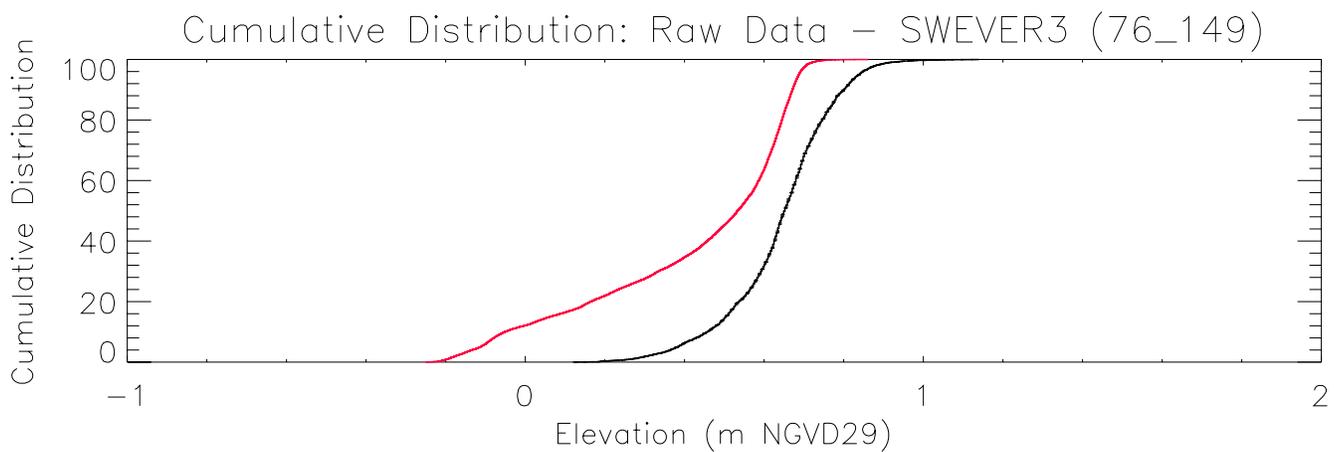
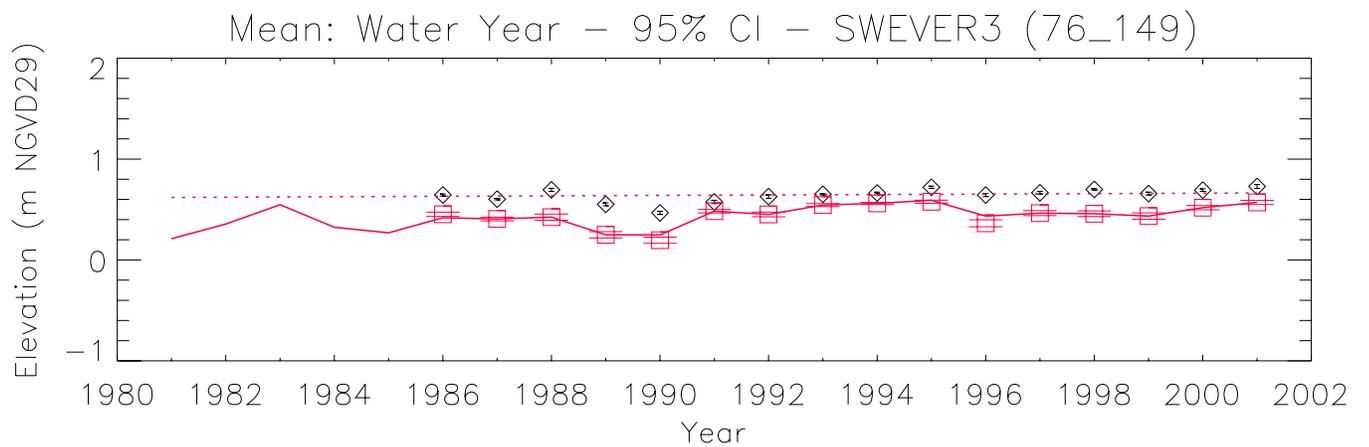
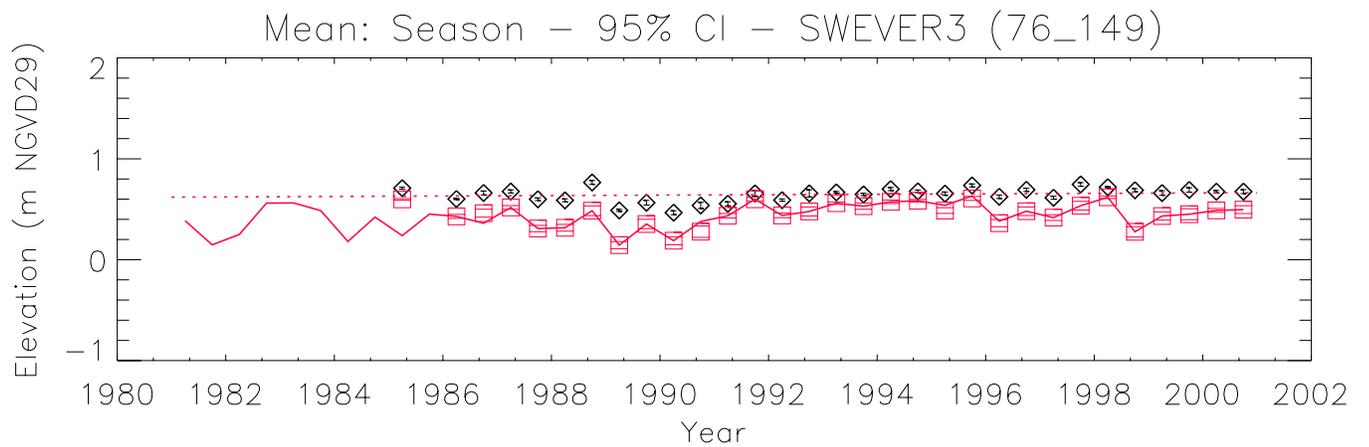
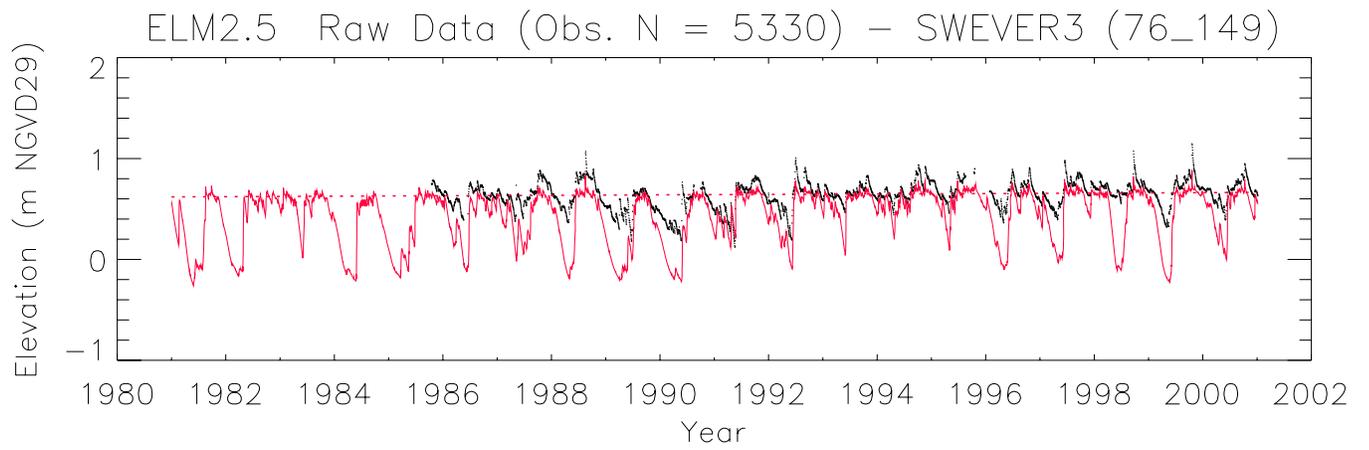


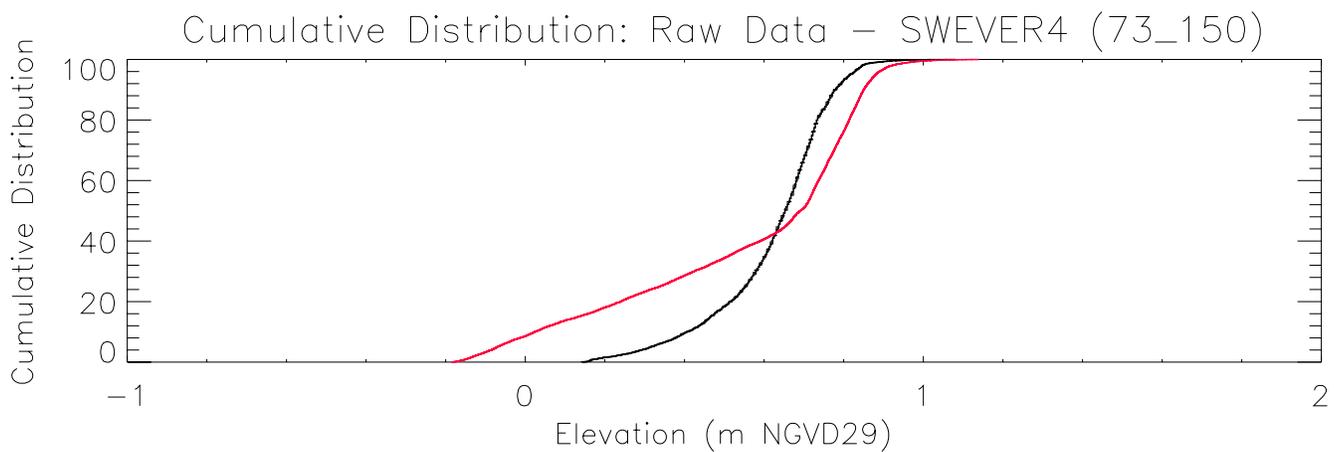
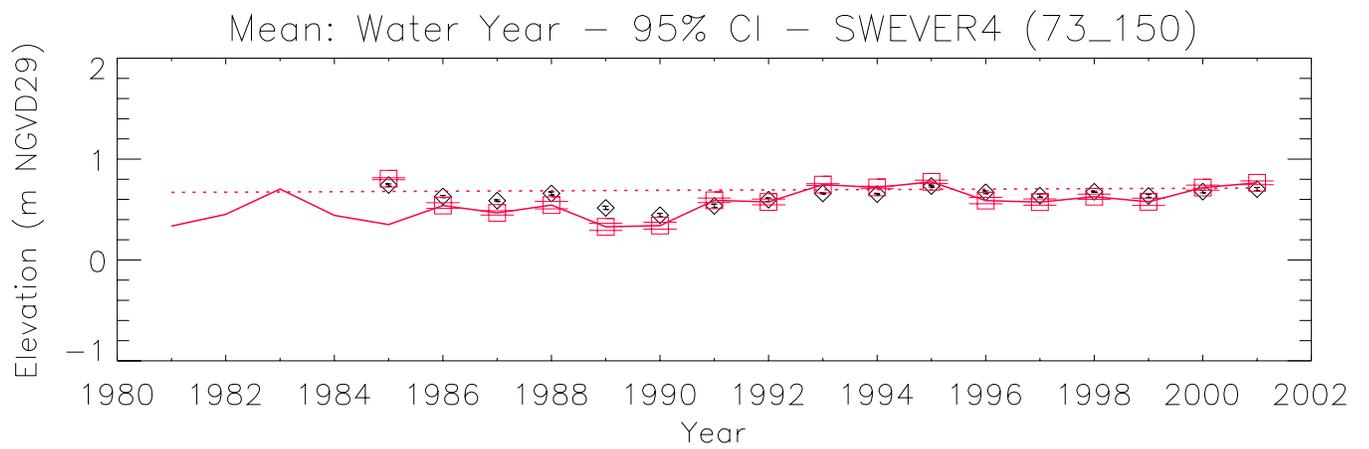
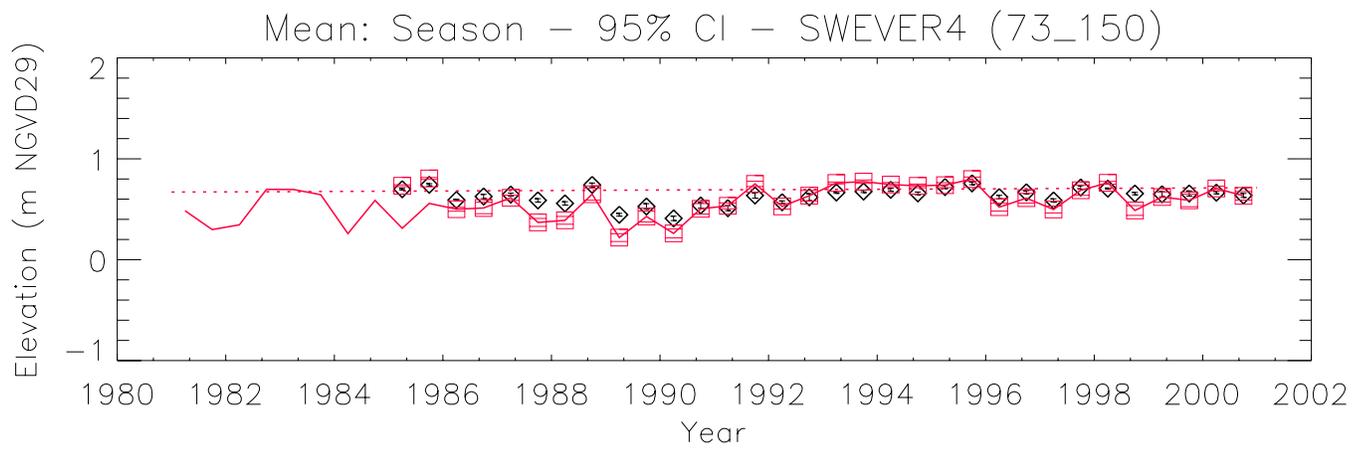
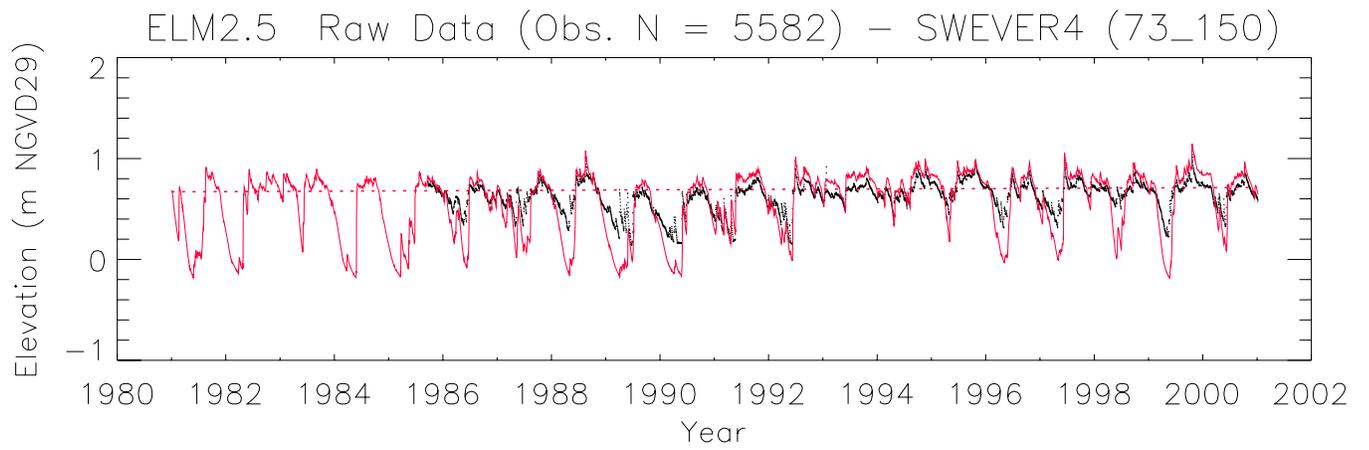


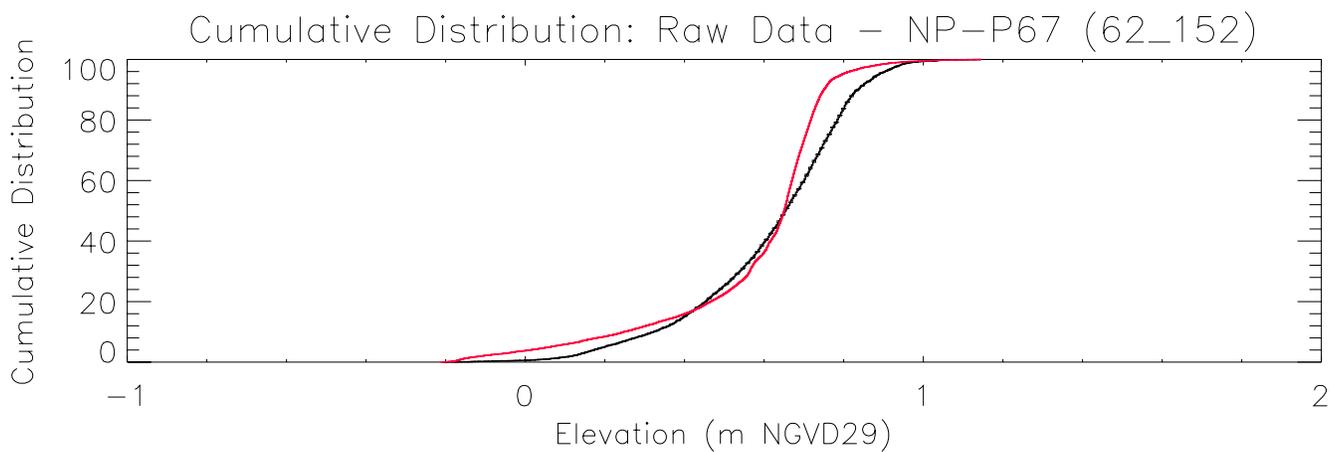
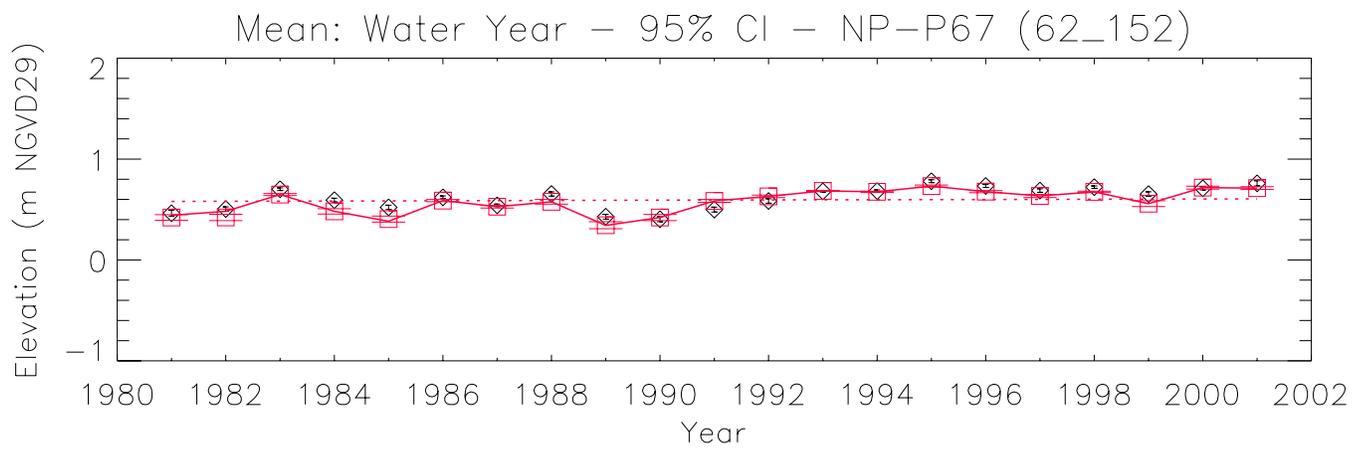
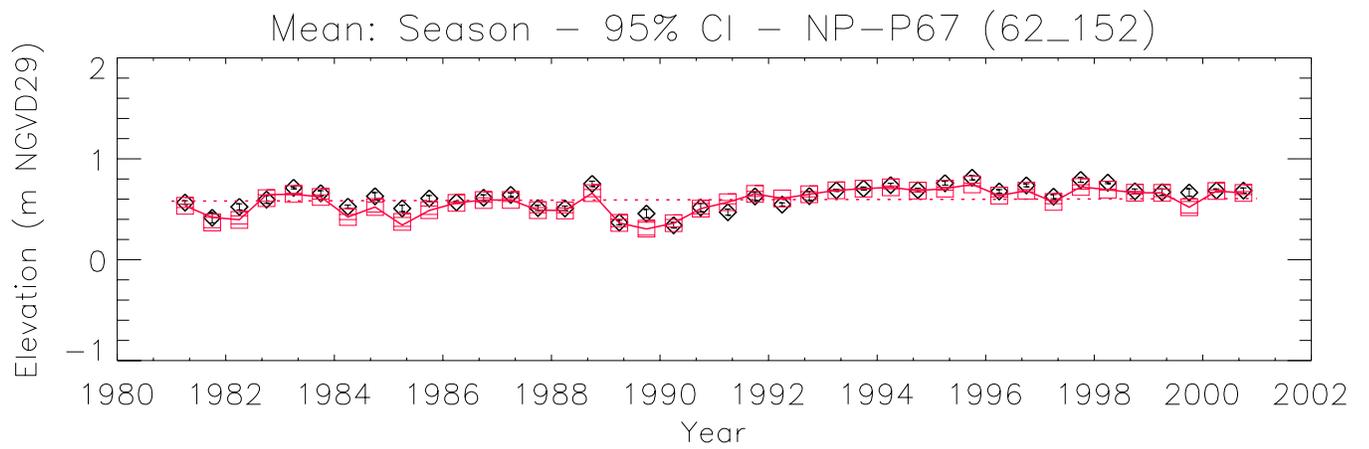
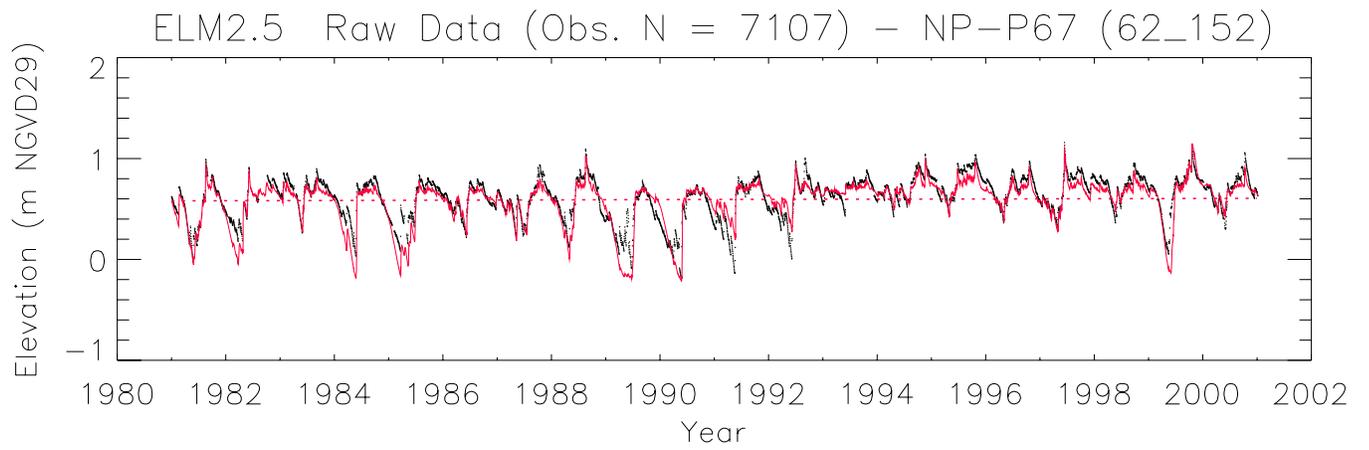


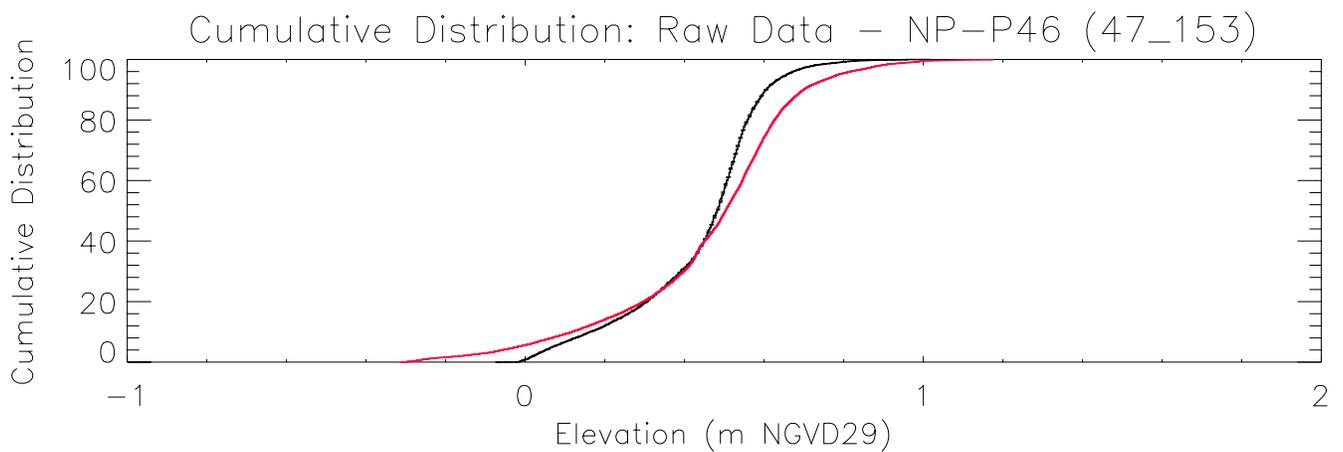
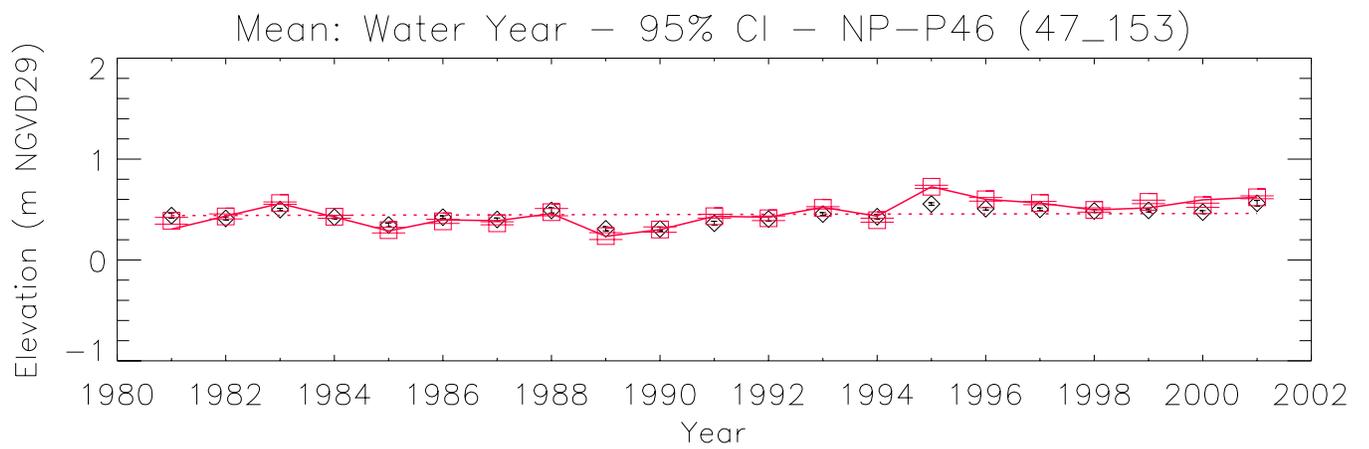
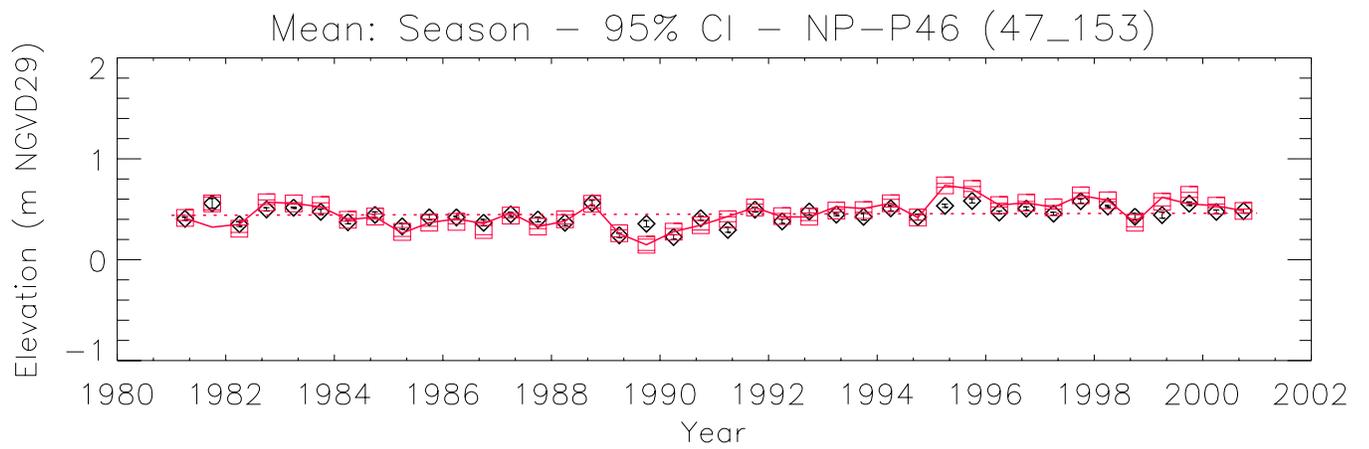
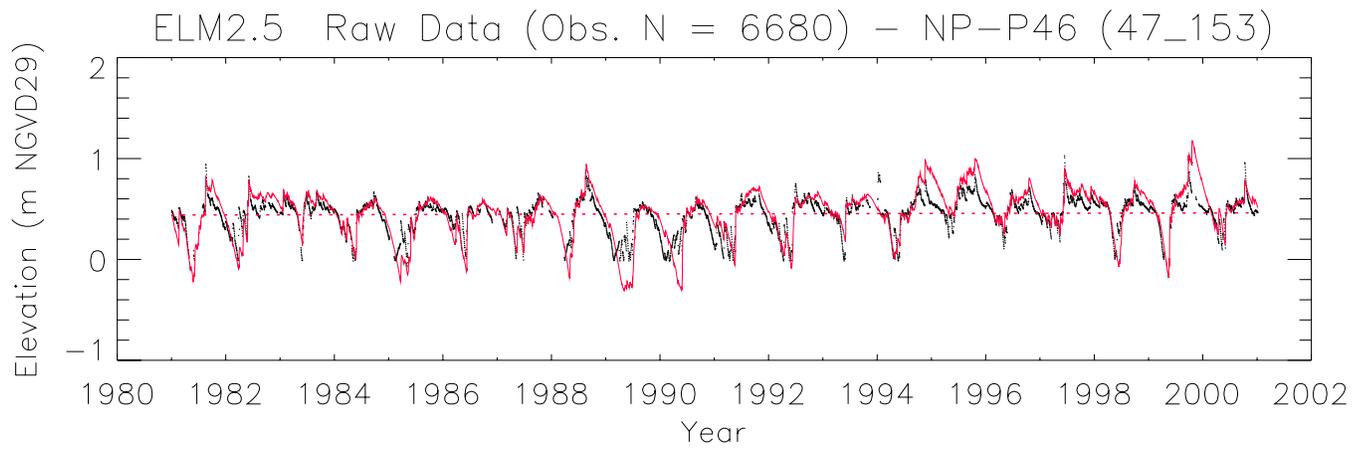


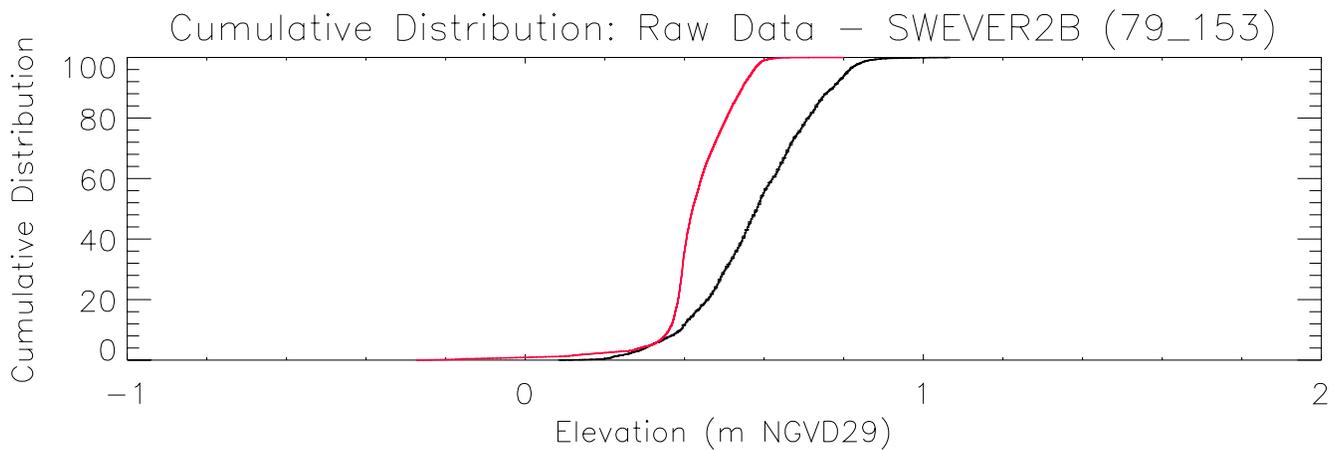
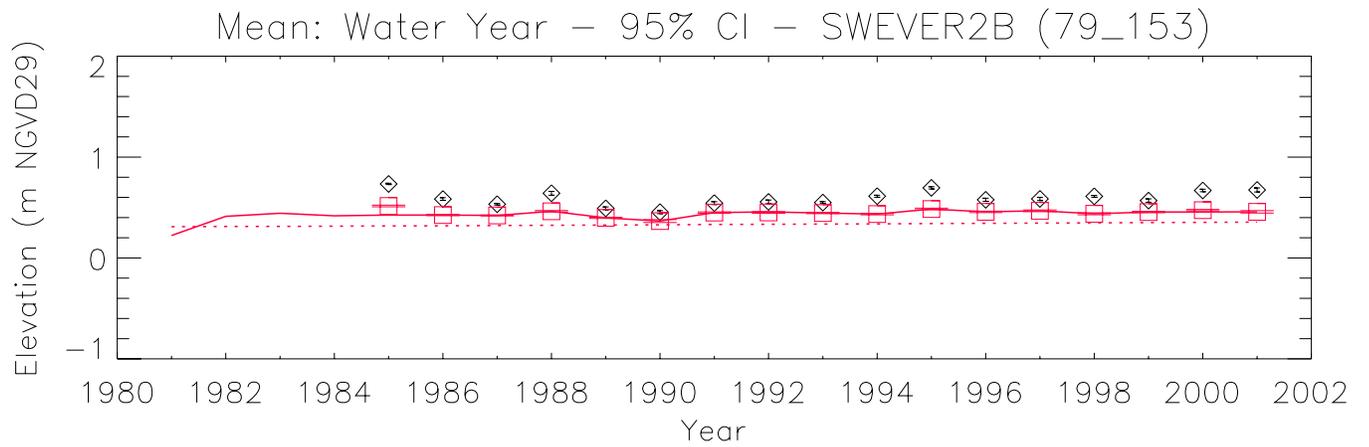
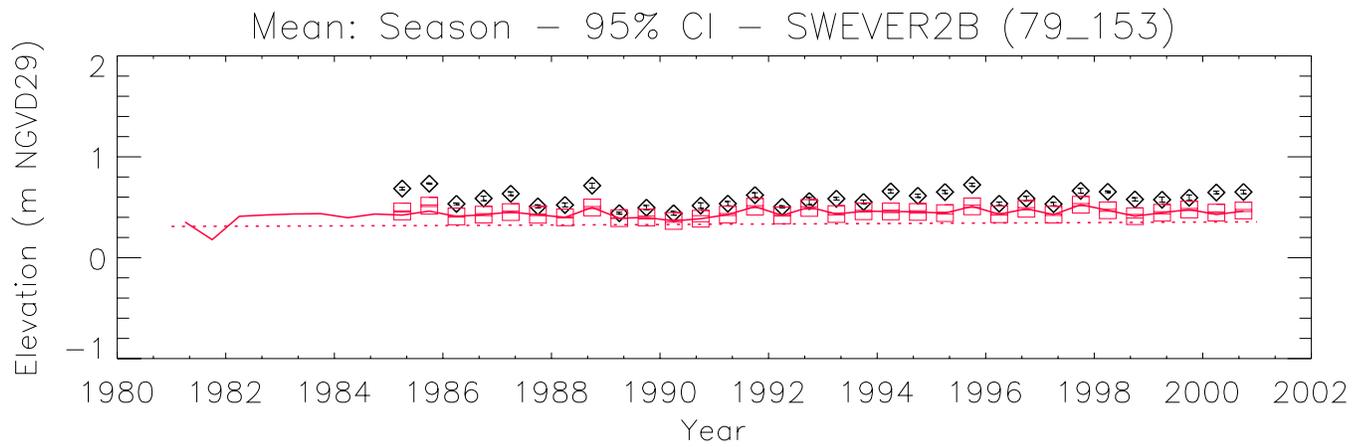
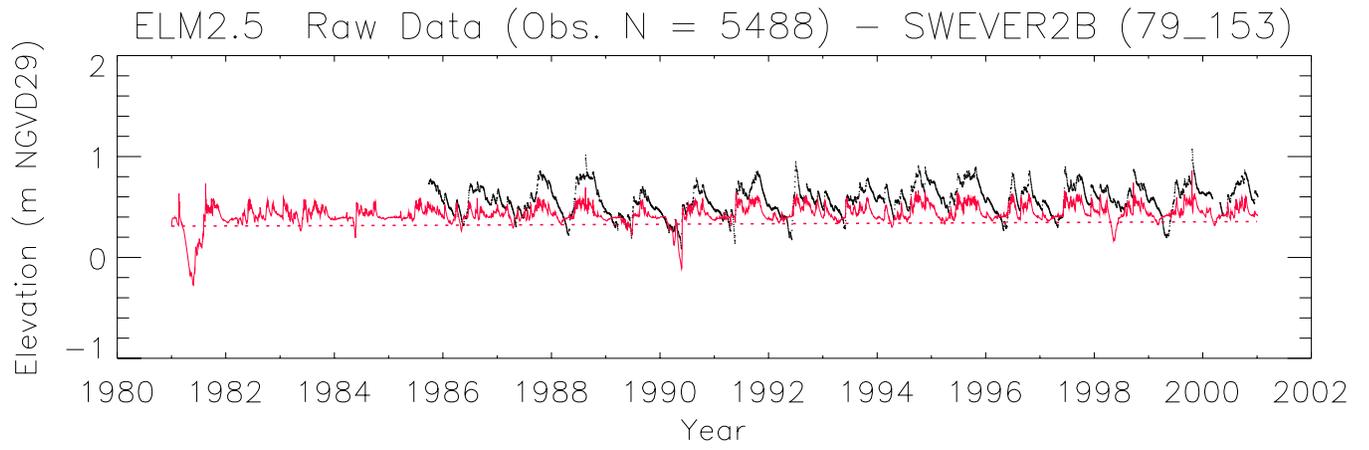


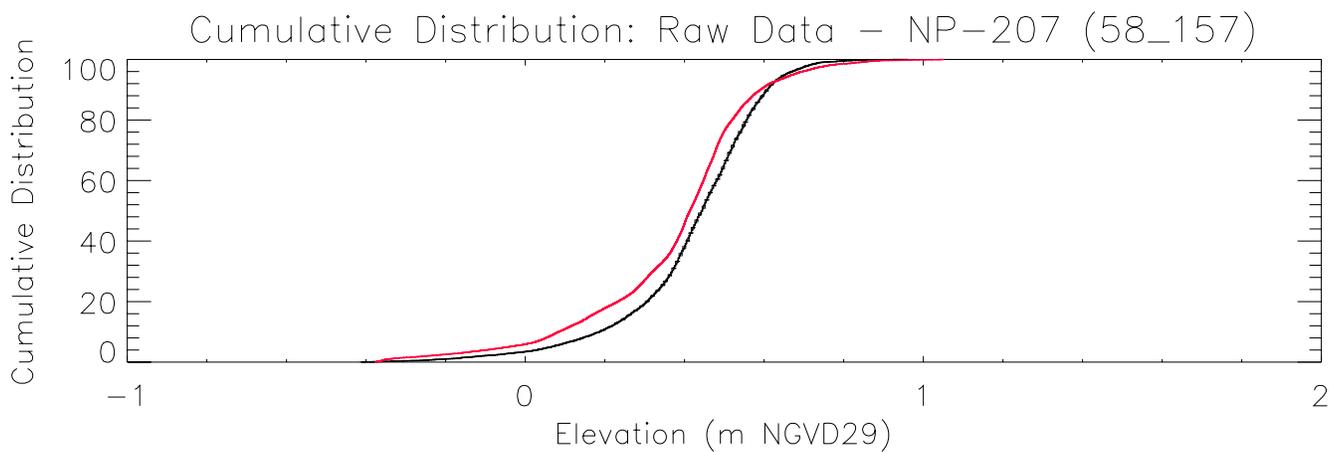
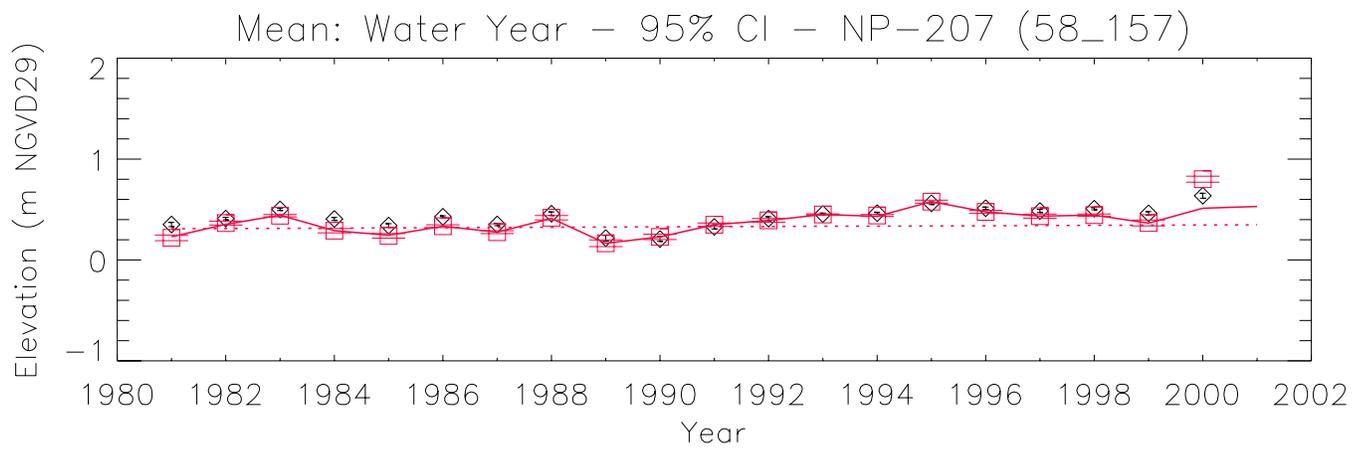
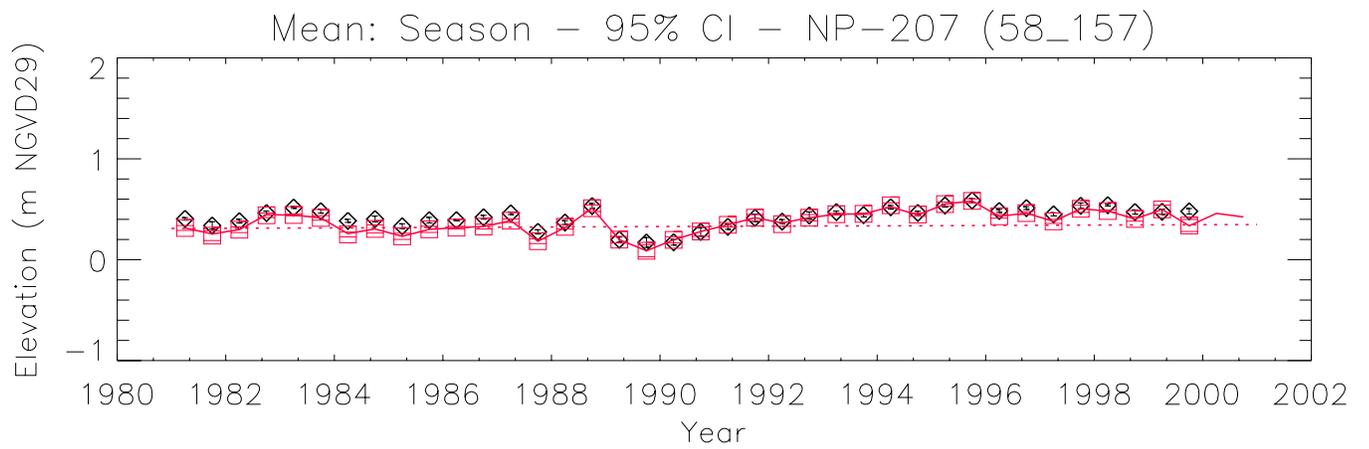
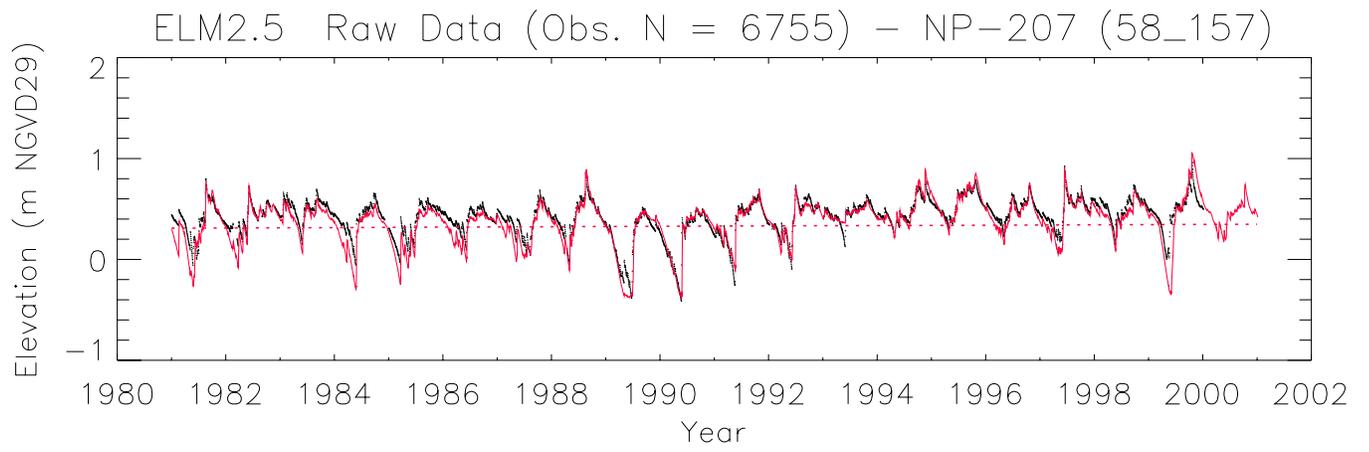


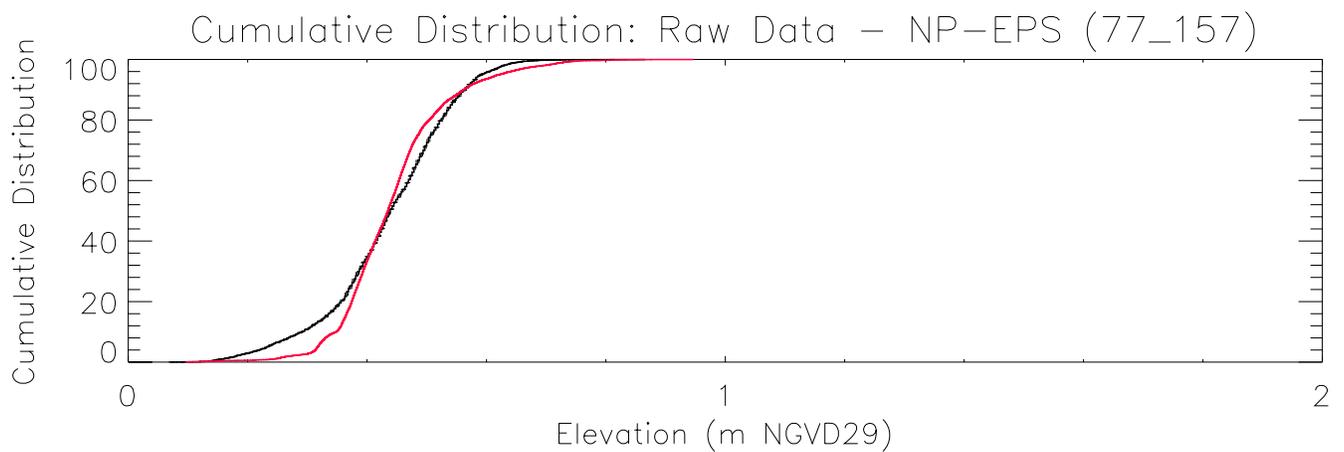
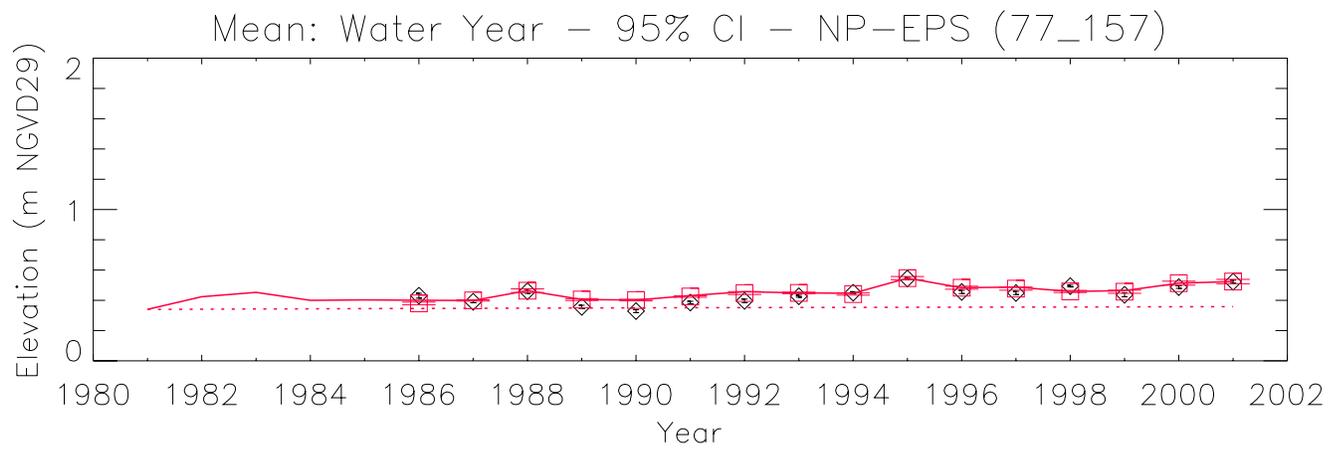
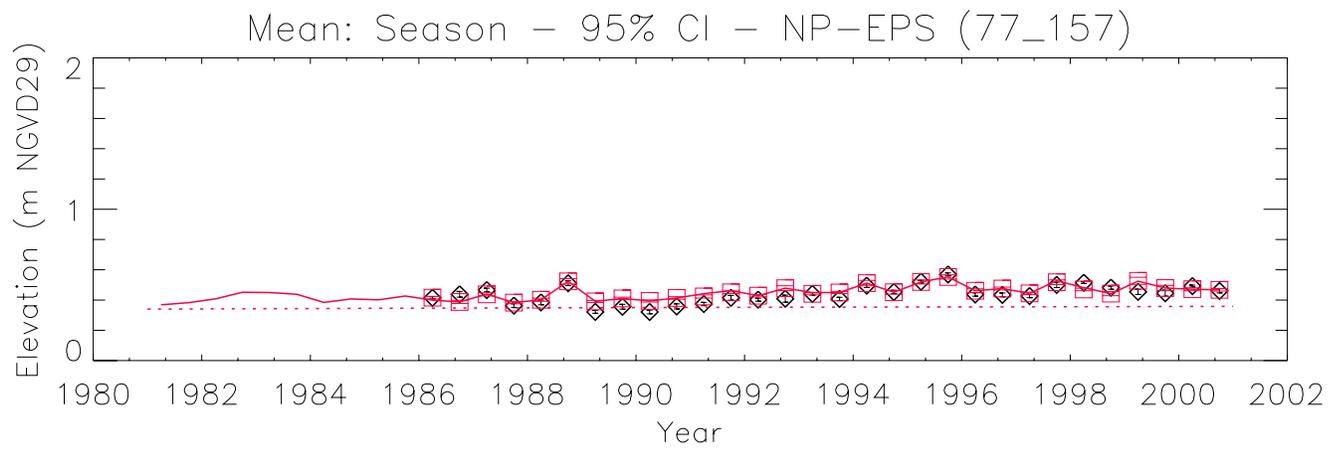
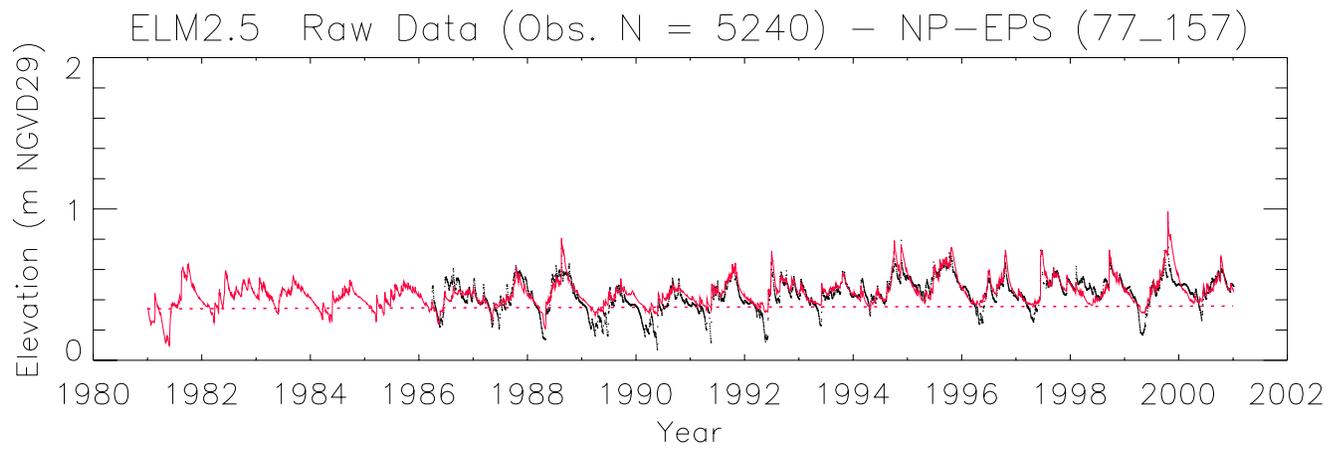


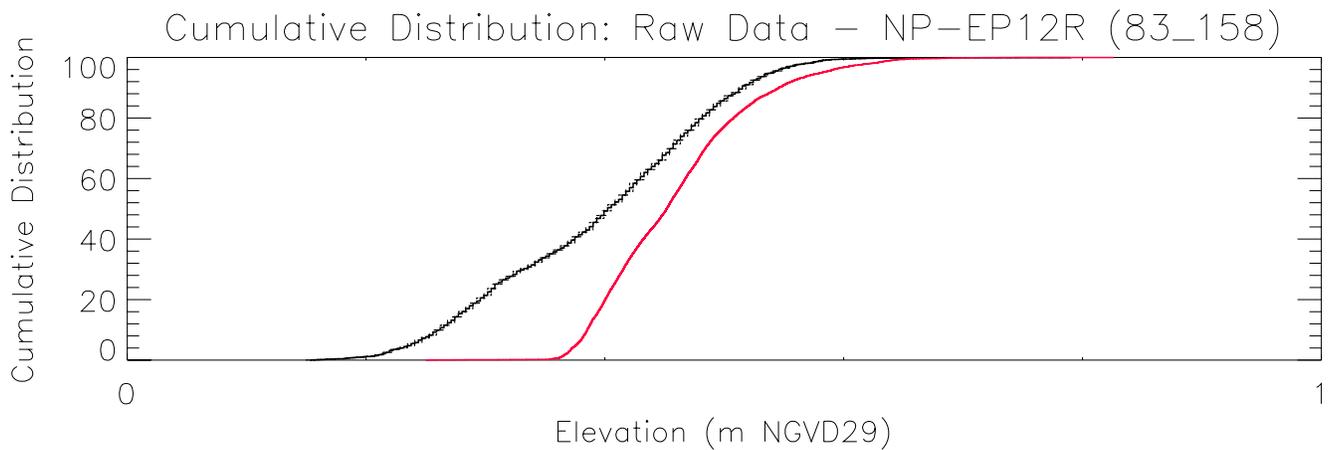
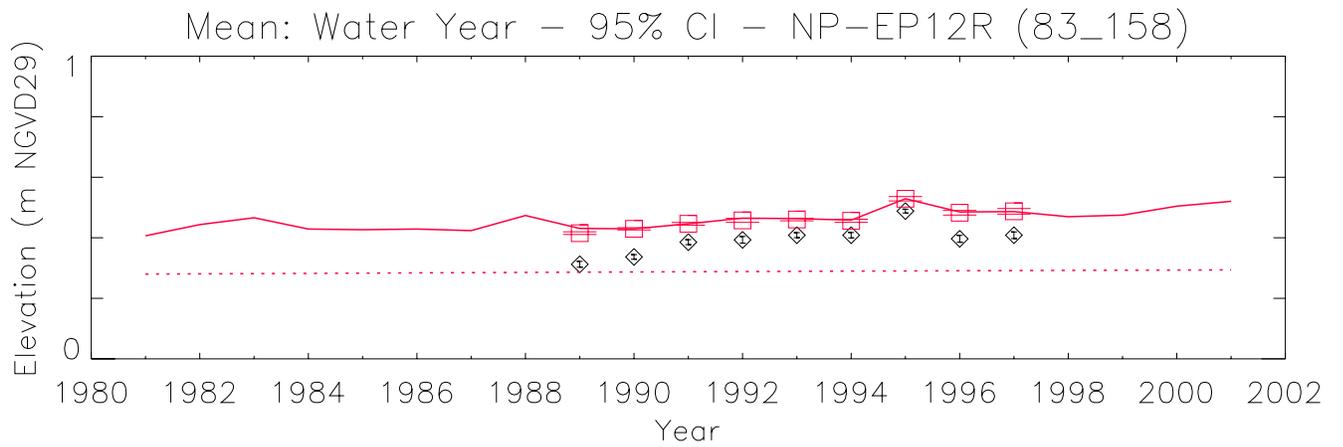
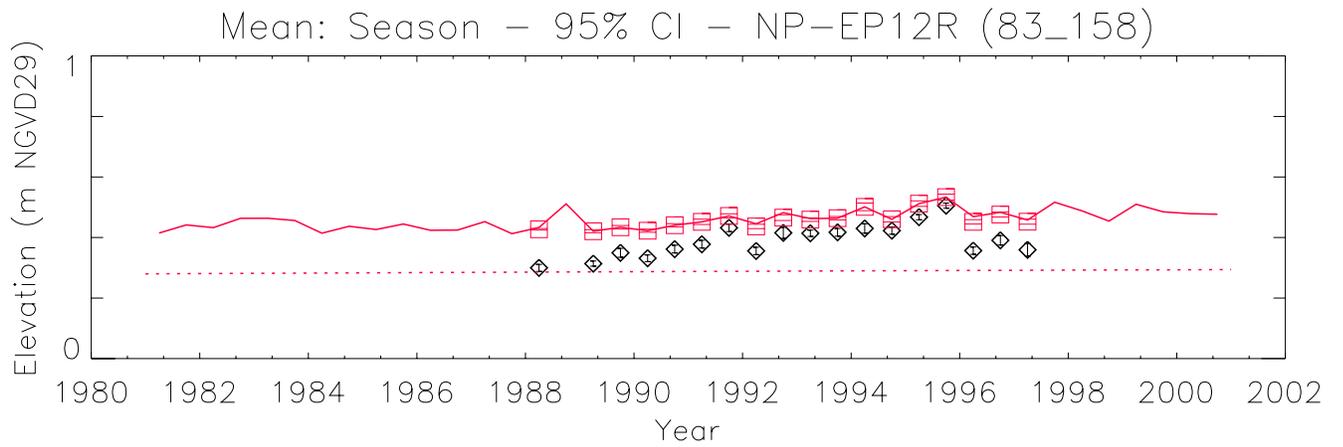
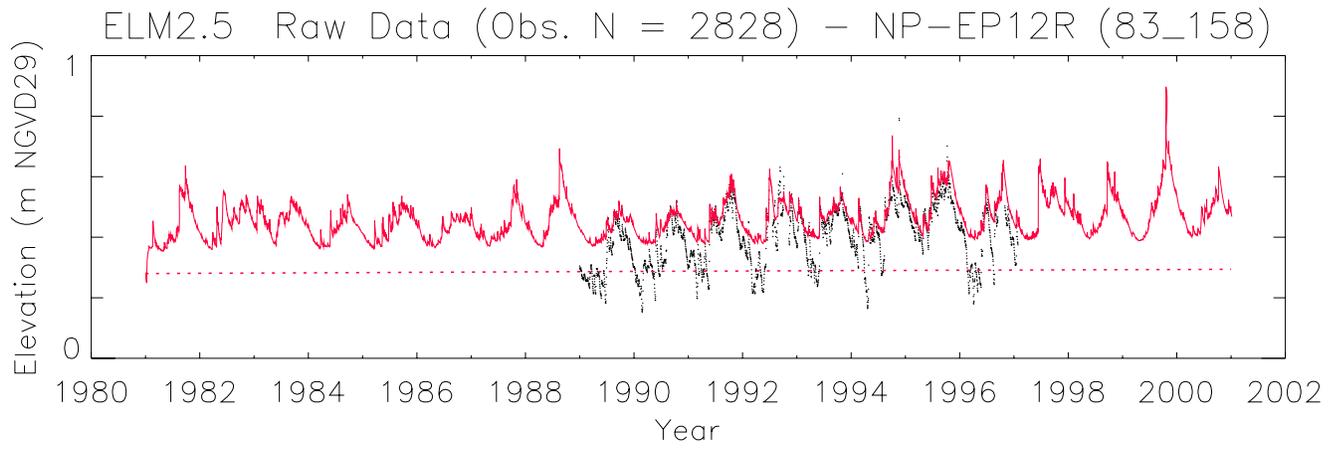


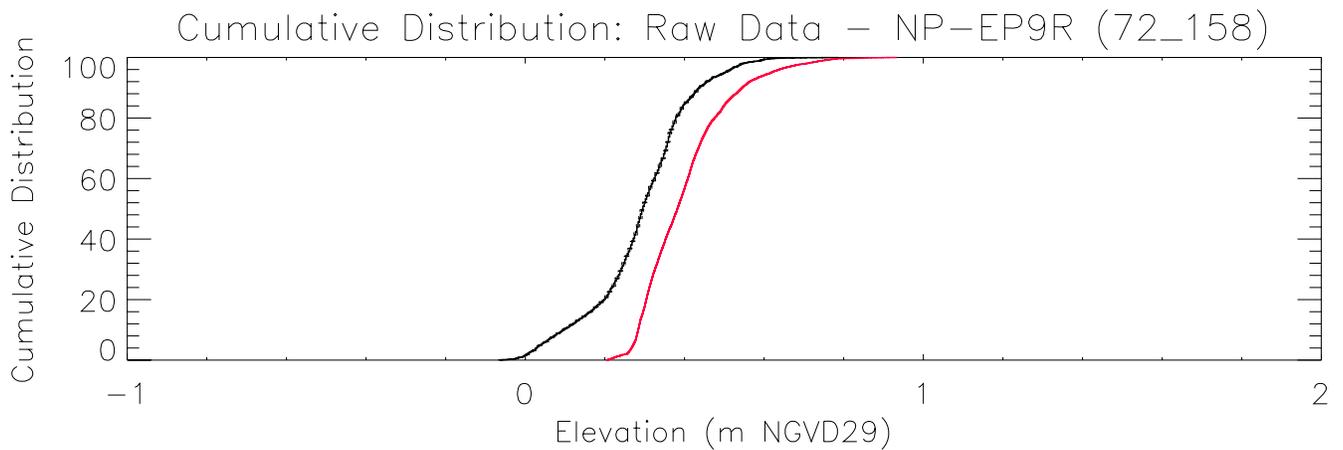
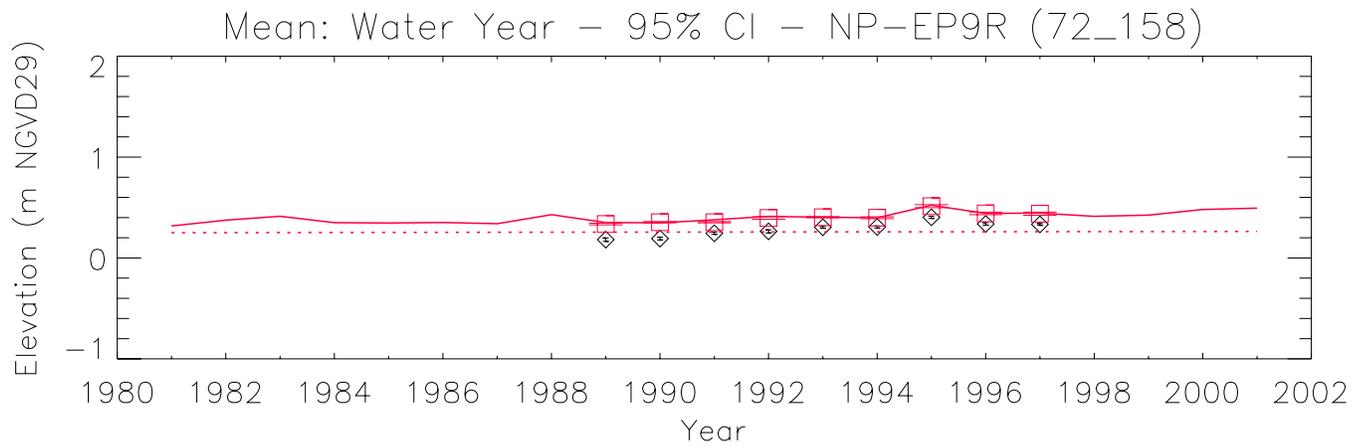
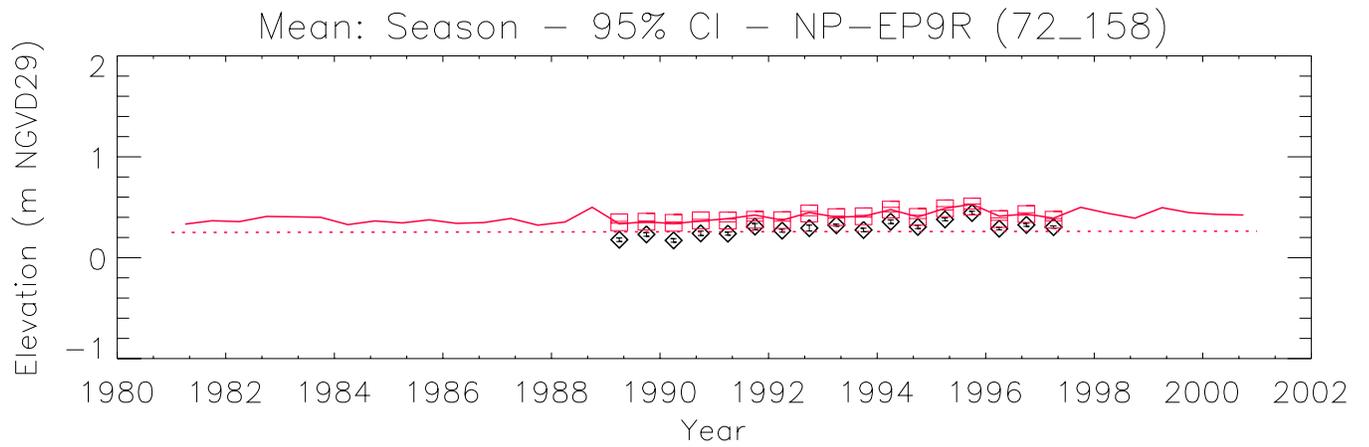
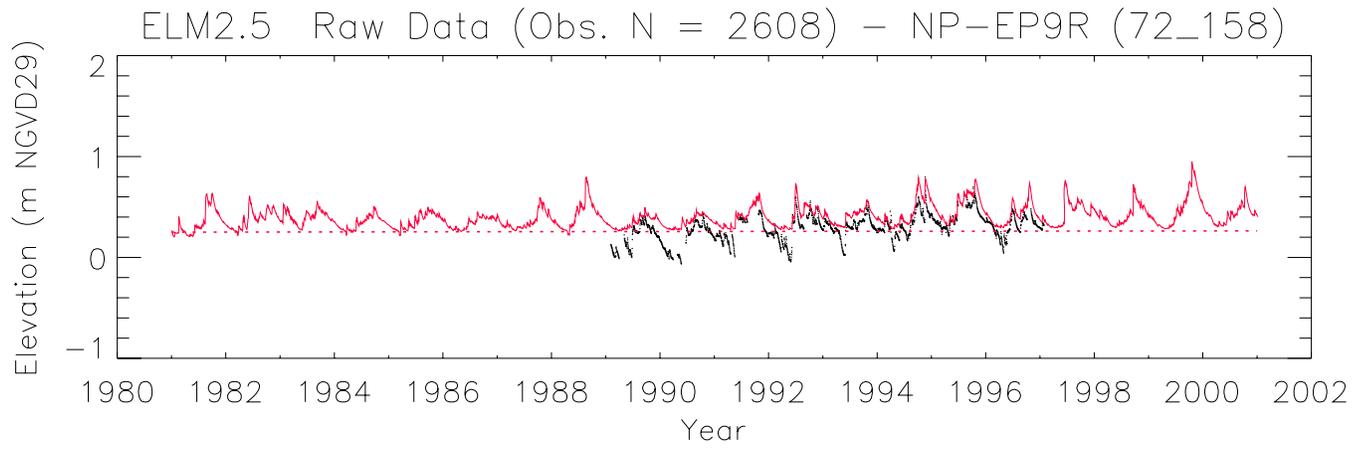












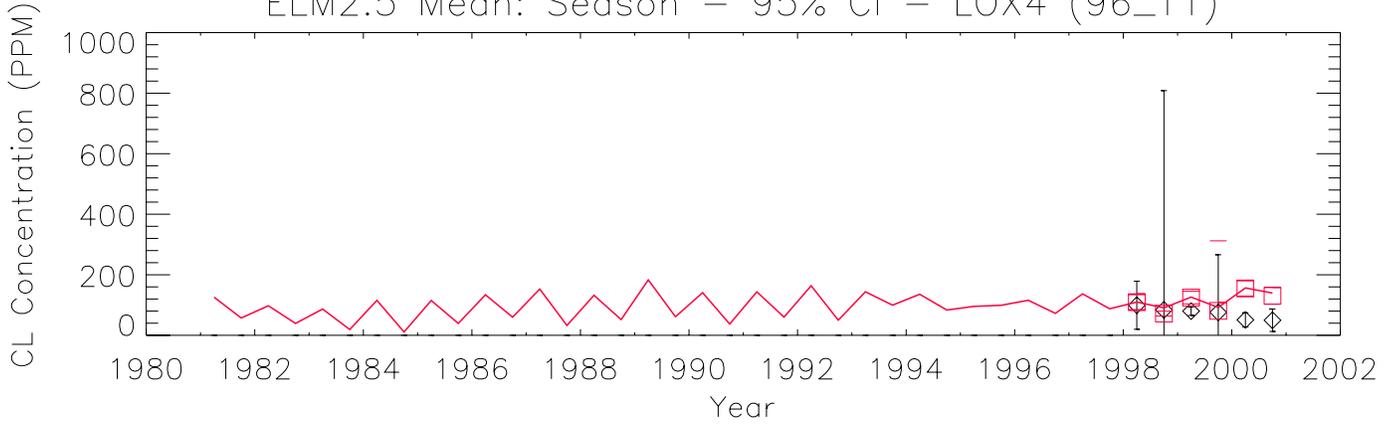
### **6.13 Appendix E: Time series & CFDs: CL**

Figures E.1 – E.78. Time series plots of water column chloride (CL) concentration and their associated Cumulative Frequency Distributions (CFD) for the period of record 1981-2000 at each monitoring location. The sequence of the figures is based on geographic location of marsh sites, starting in northwest, moving towards the southeast; following the set of plots of all marsh sites, the canal monitoring sites are similarly sequenced. A map of all sites is provided in the Model Performance Chapter.

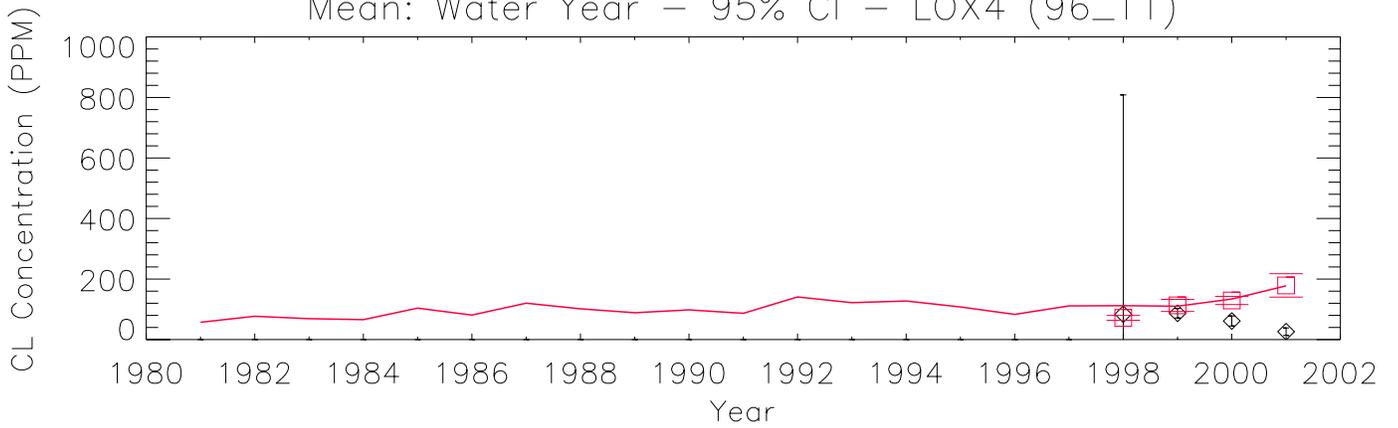
*The model grid cell column and row locations (col\_row) or canal reach identifier (single integer) are shown in parentheses of each plot's title.*

- a) All data were aggregated into arithmetic mean values by wet and dry seasons within water years; the continuous lines pass through mean of all daily data points for each season; the mean of paired simulated & observed values are shown in red boxes and black diamonds, respectively; the 95% Confidence Interval (CI) of the paired means are shown by the "\_\_\_" symbols in the red for the model and black for the observed data.
- b) All data aggregated into arithmetic mean values by water year, with the same treatment as in plot a).
- c) The cumulative frequency distributions of the simulated and observed (raw, un-aggregated) data; the 95% confidence interval for observed data is shown in the dashed black lines. Note that only paired simulated and observed data points are used.

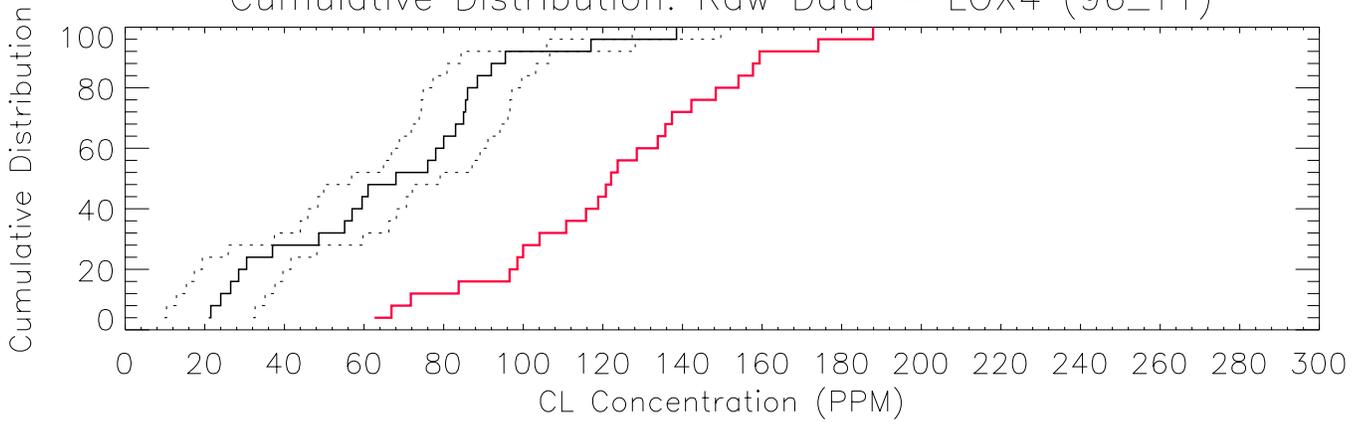
ELM2.5 Mean: Season - 95% CI - LOX4 (96\_11)

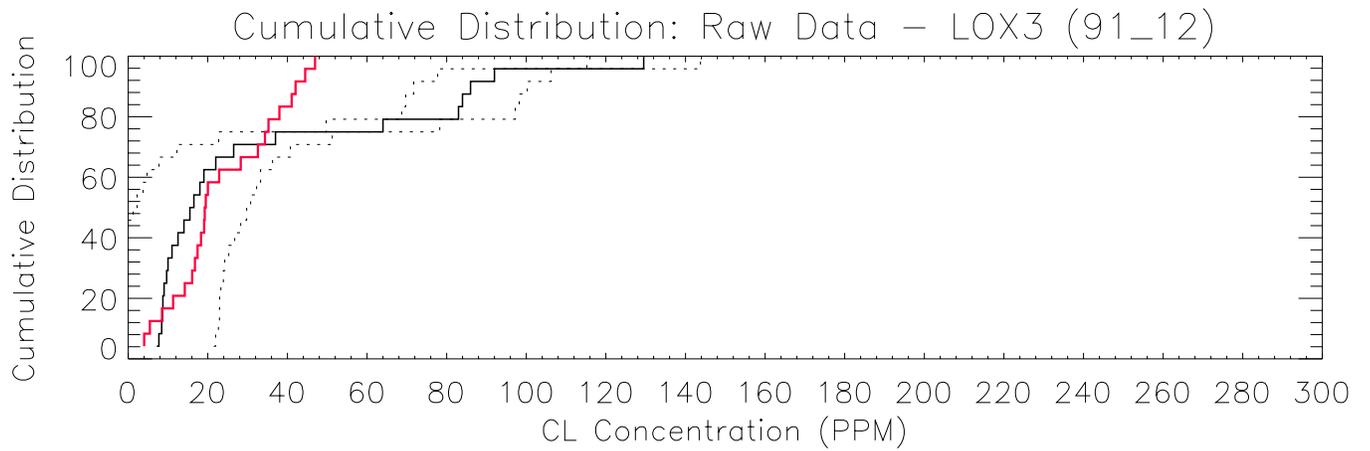
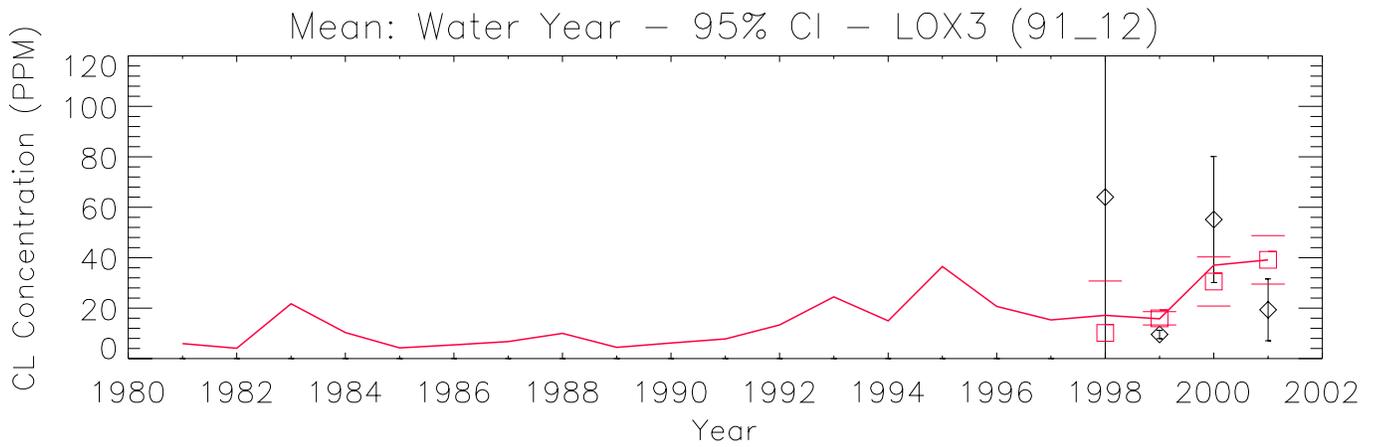
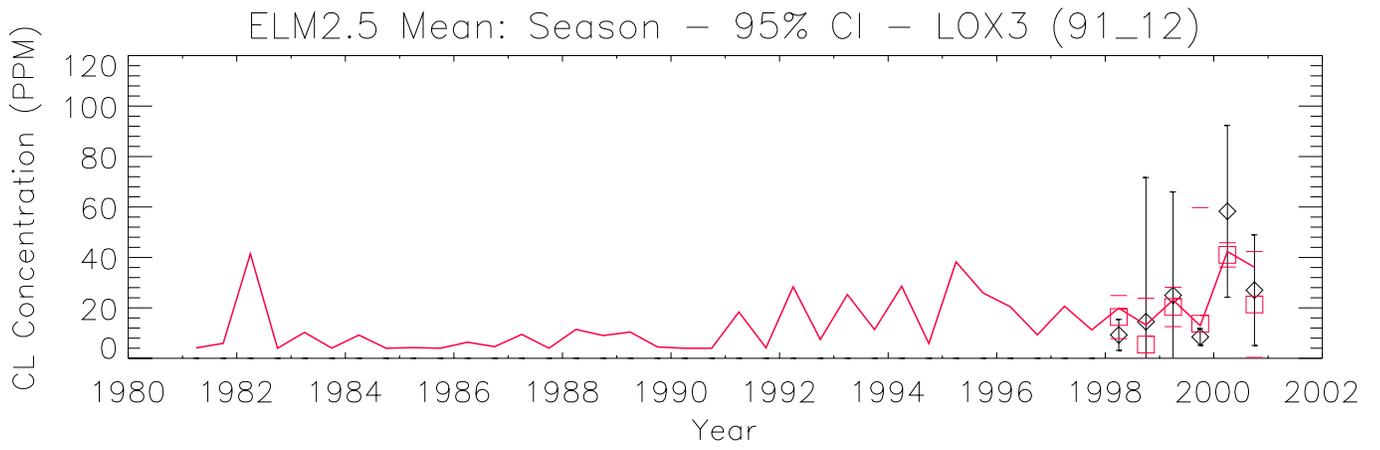


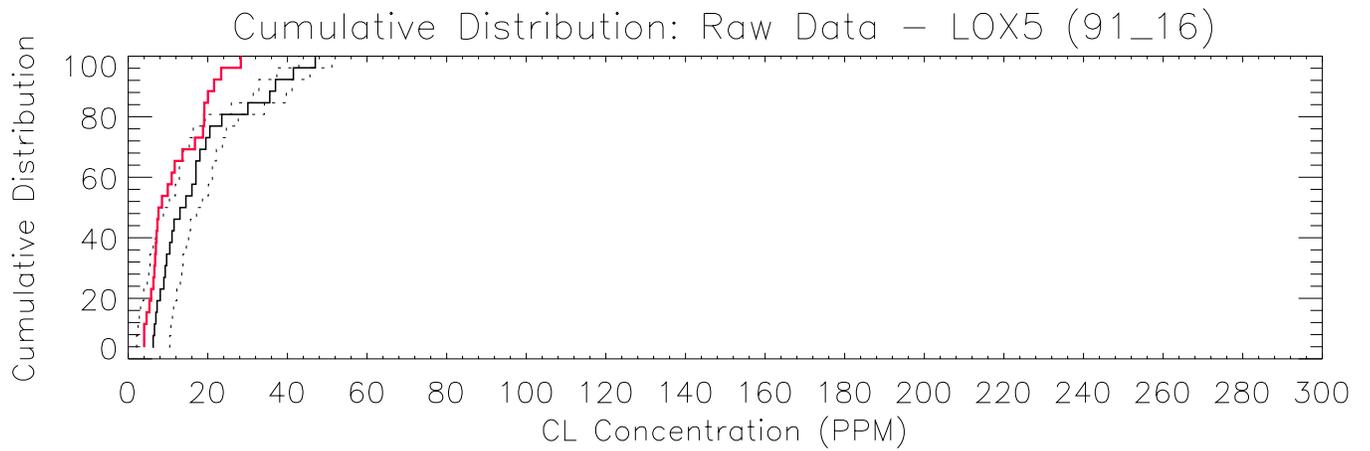
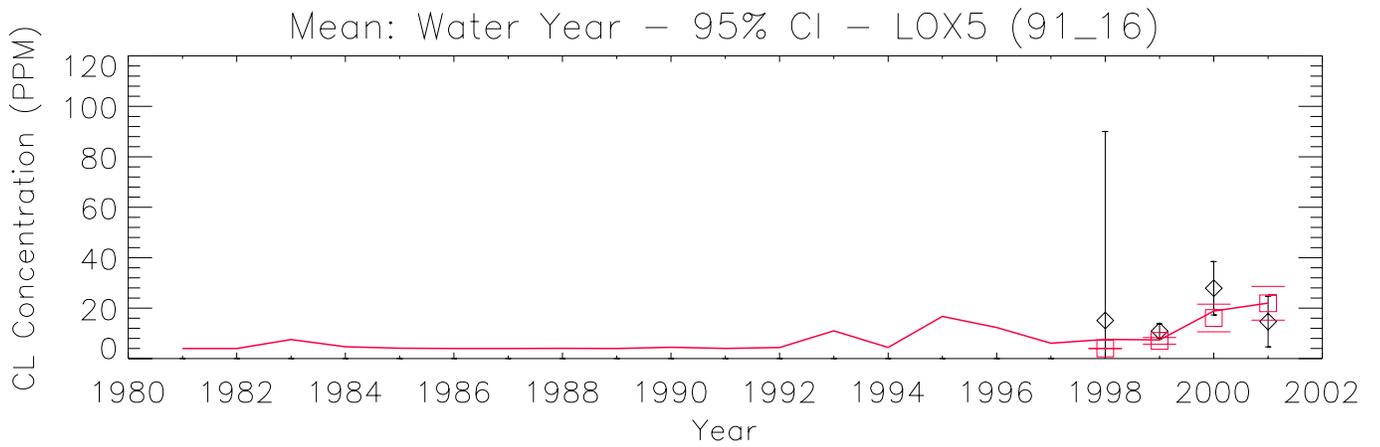
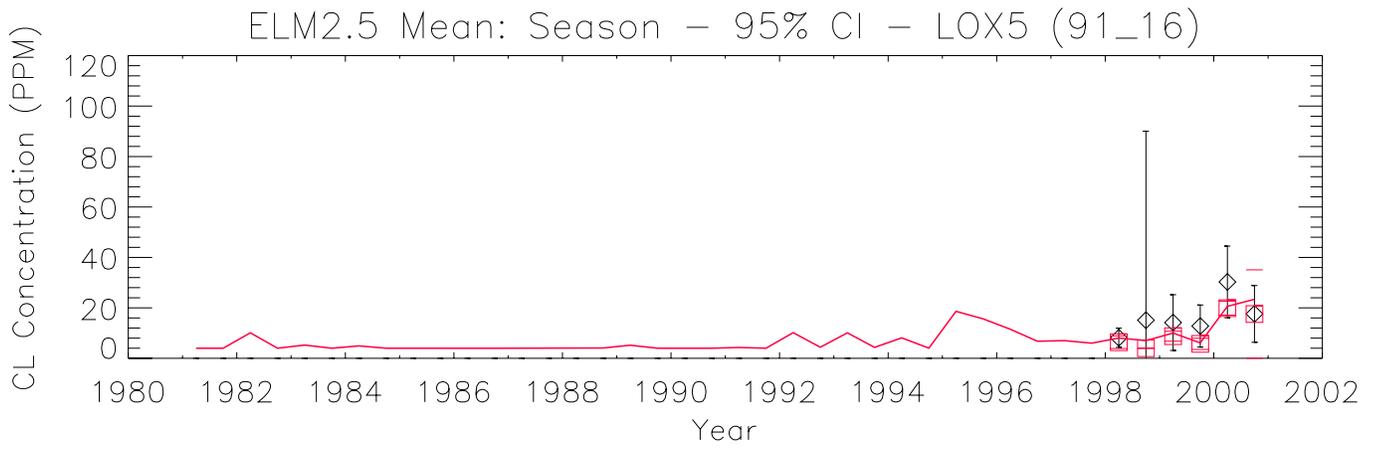
Mean: Water Year - 95% CI - LOX4 (96\_11)

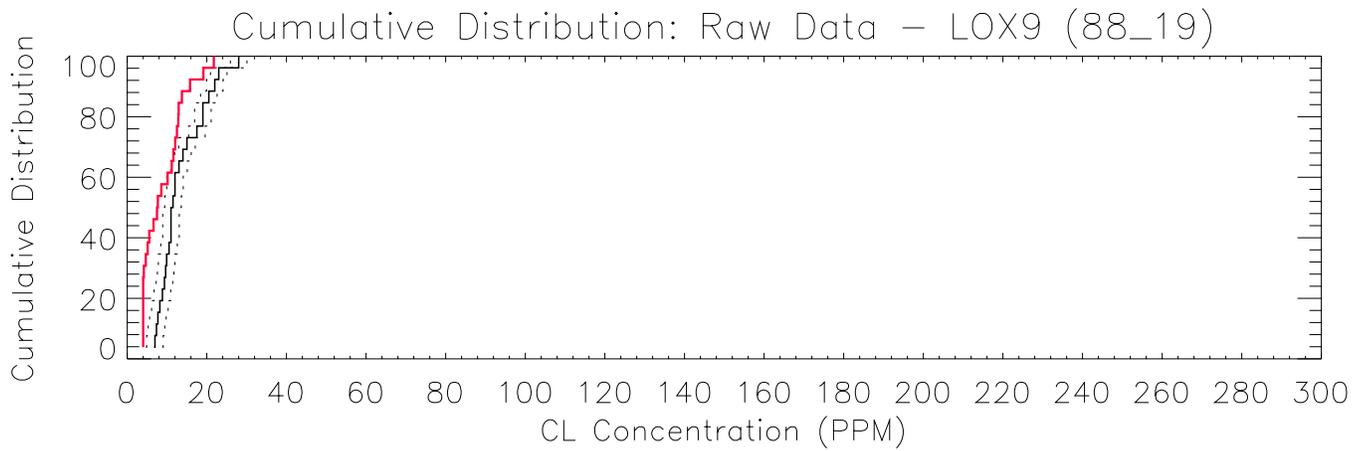
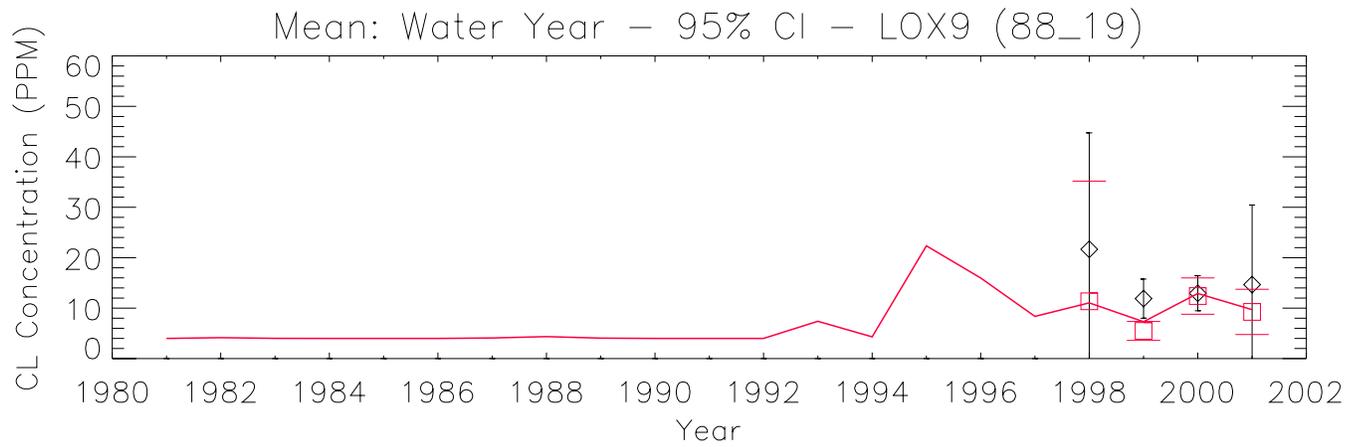
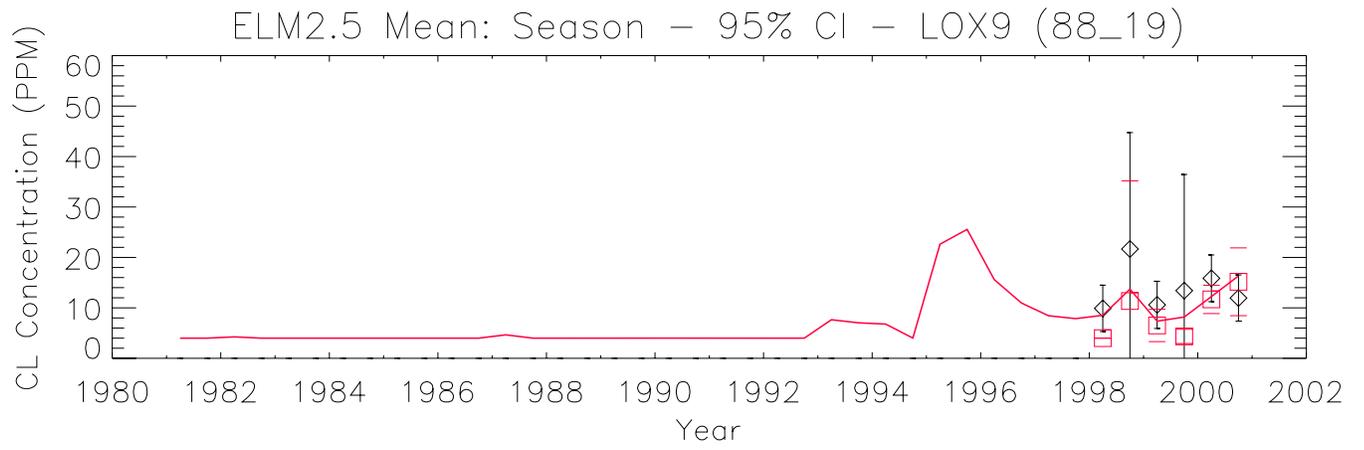


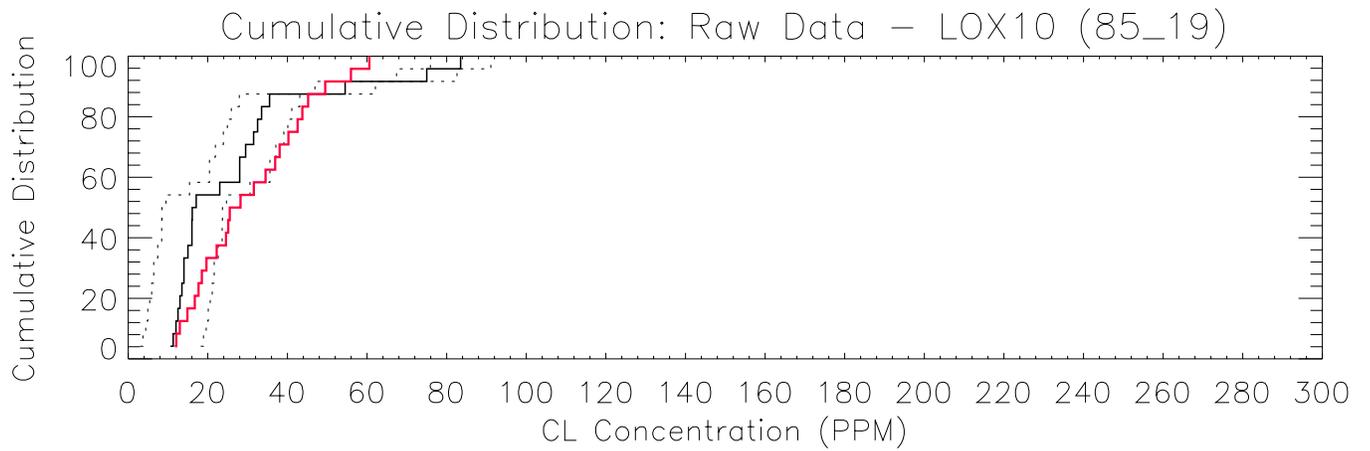
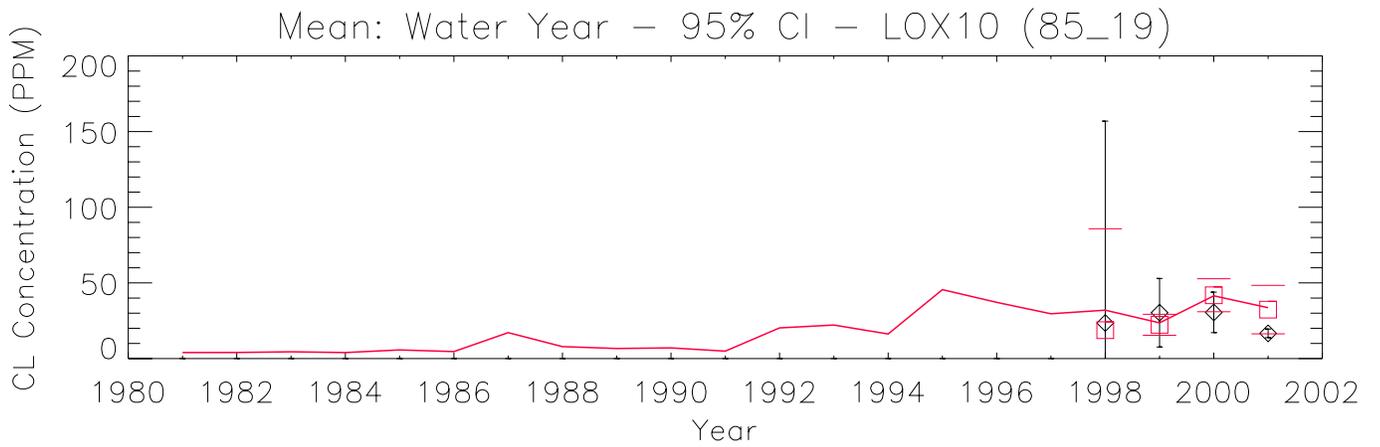
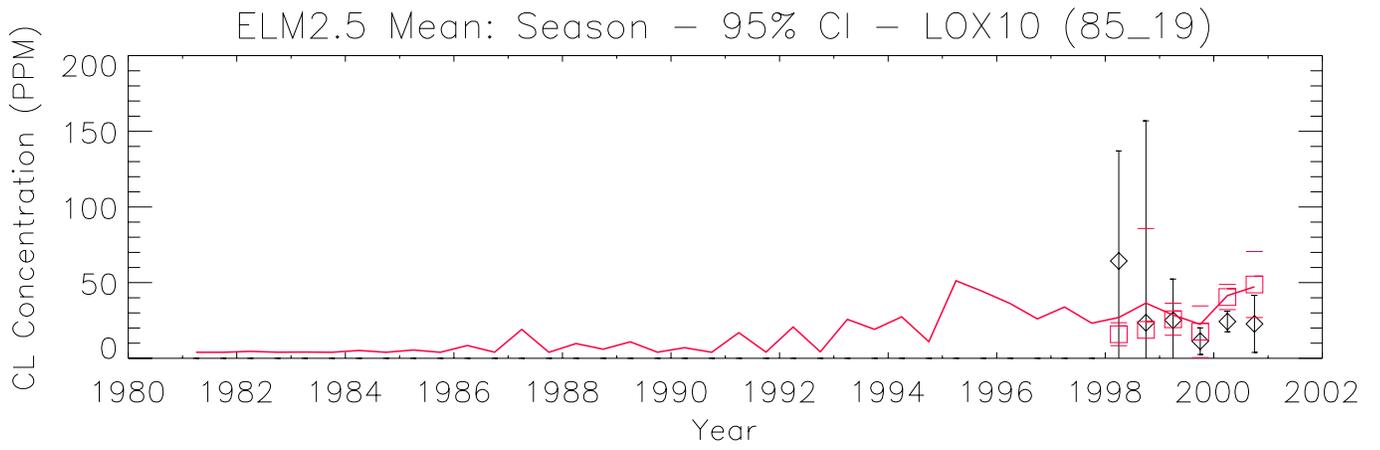
Cumulative Distribution: Raw Data - LOX4 (96\_11)

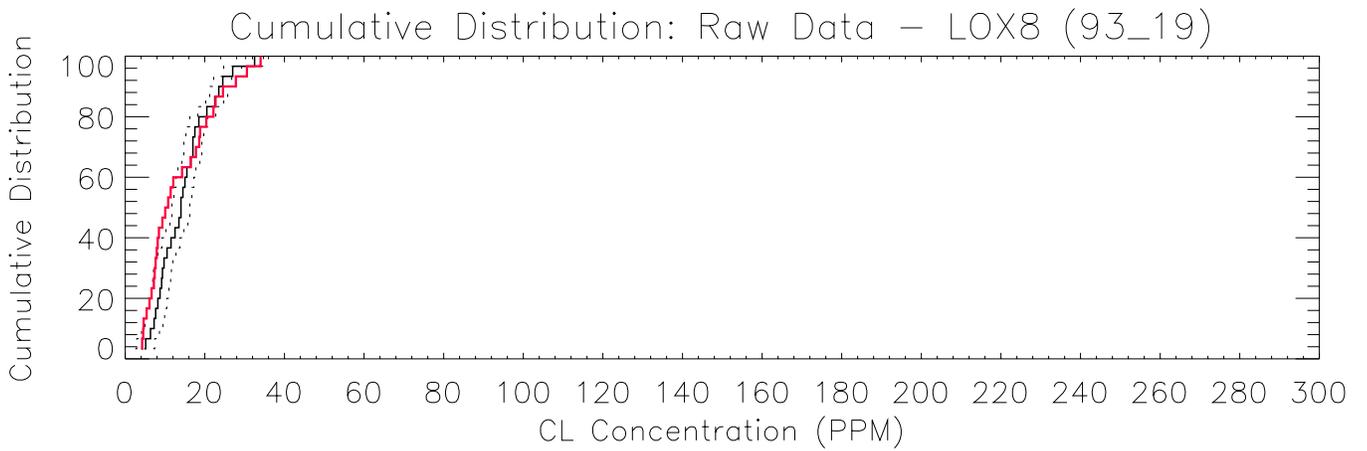
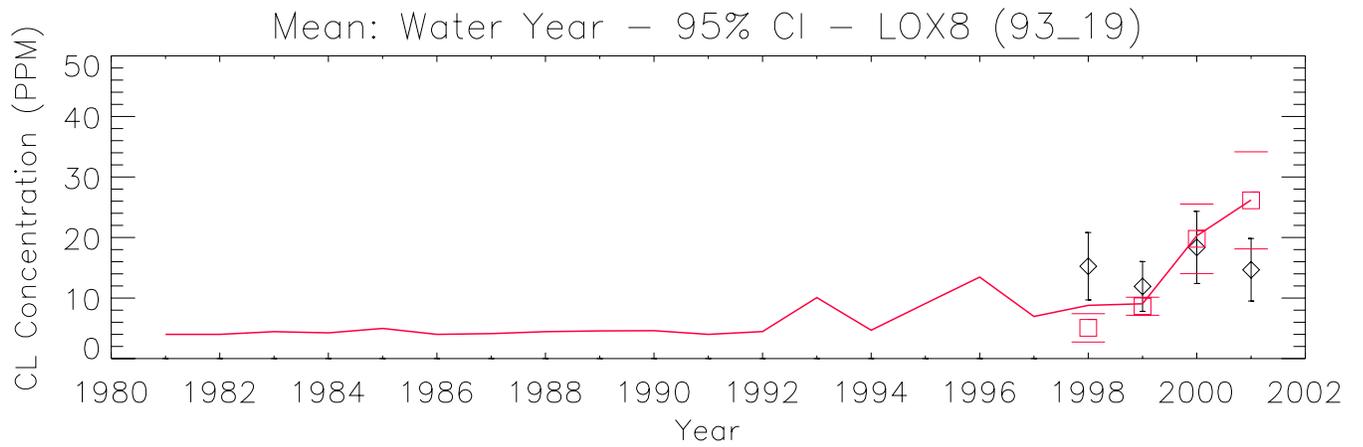
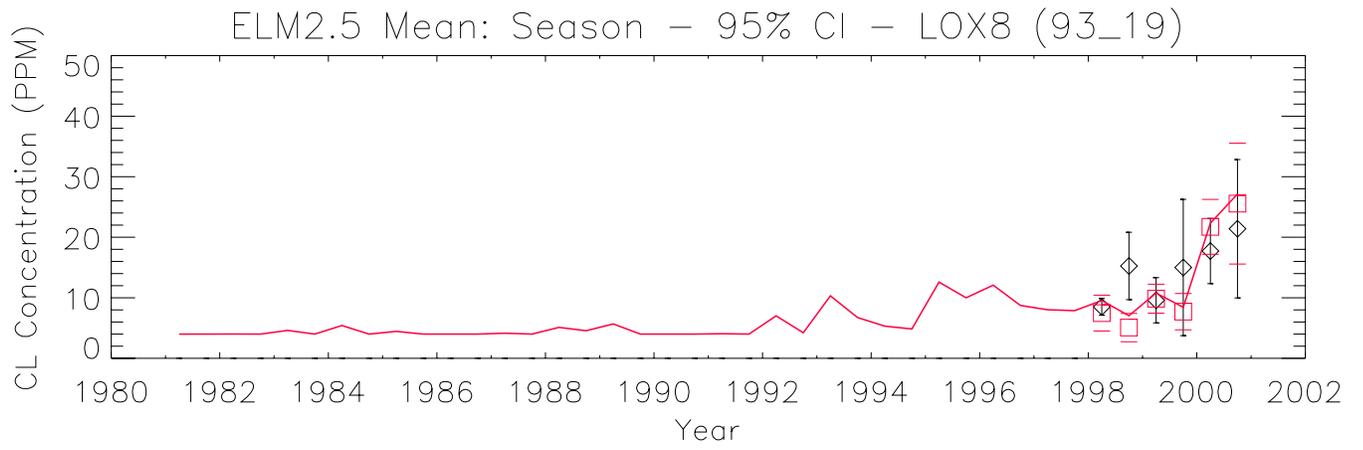


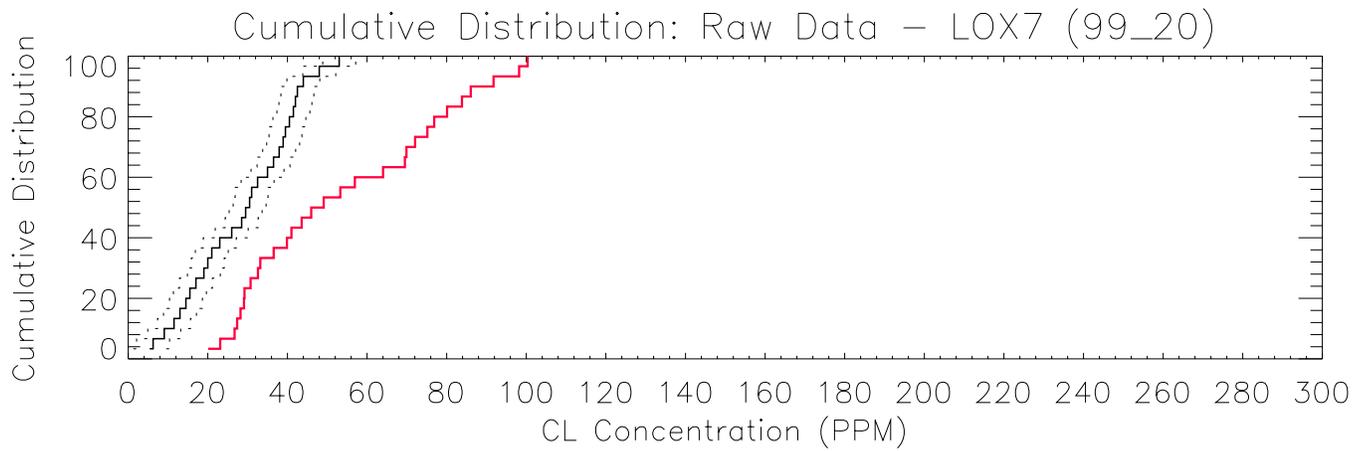
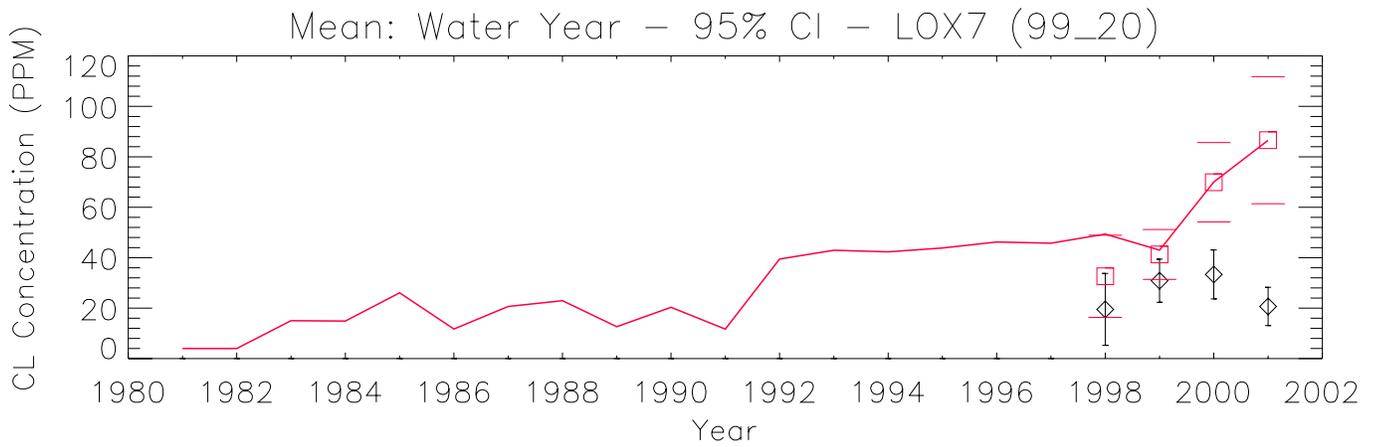
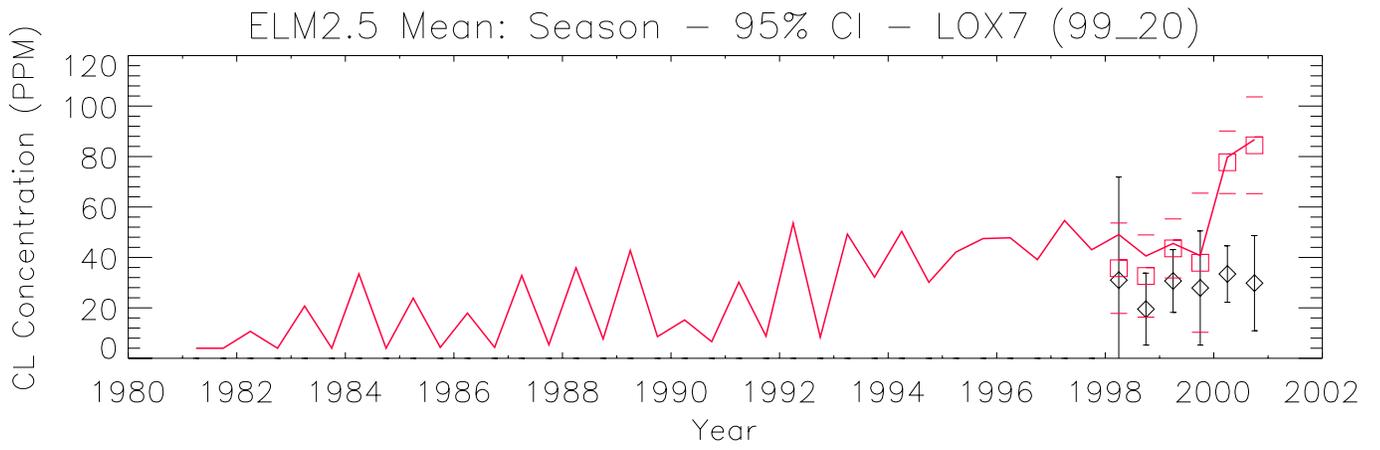


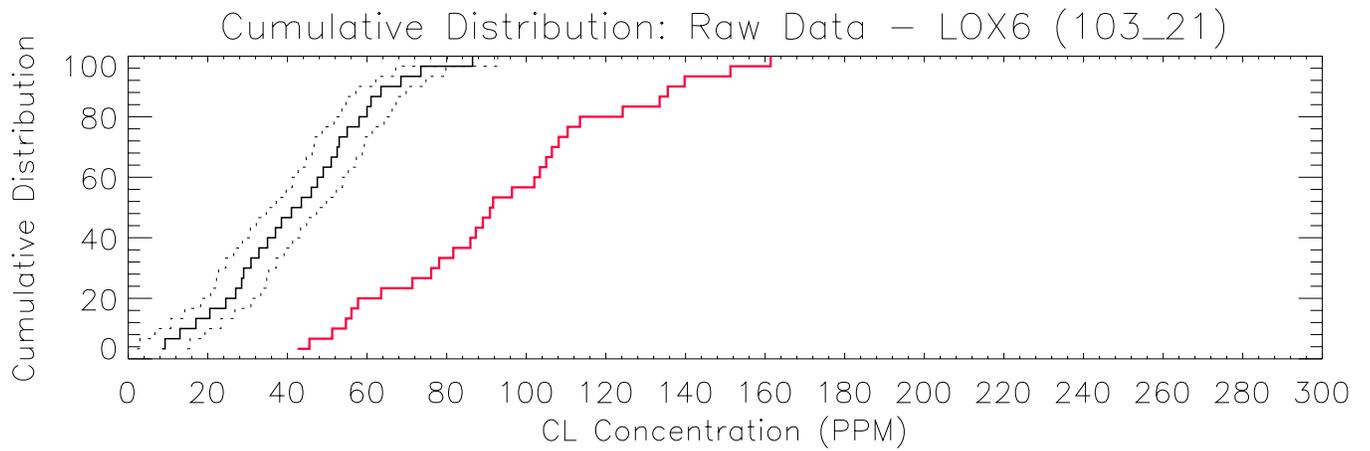
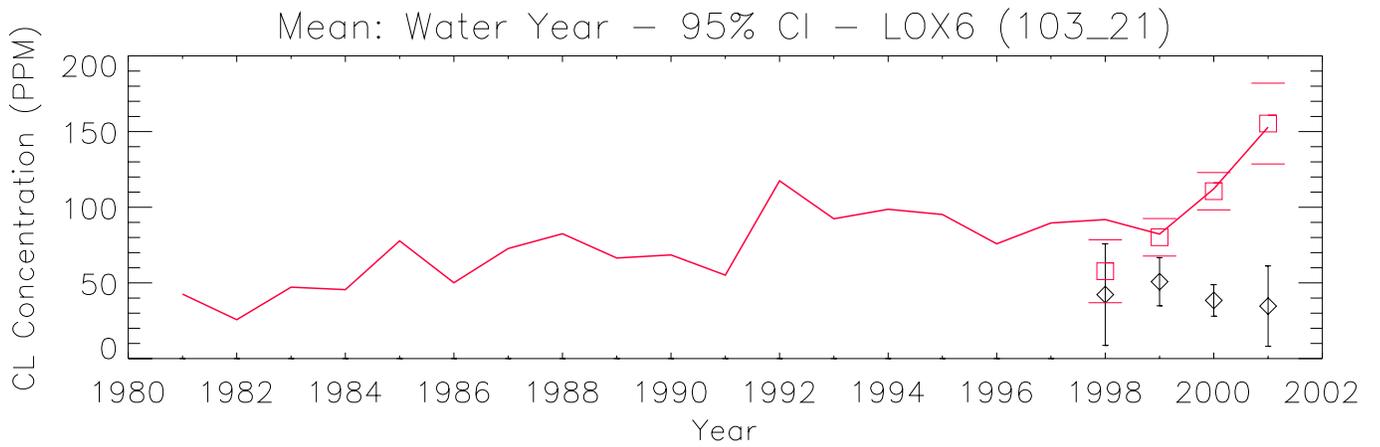
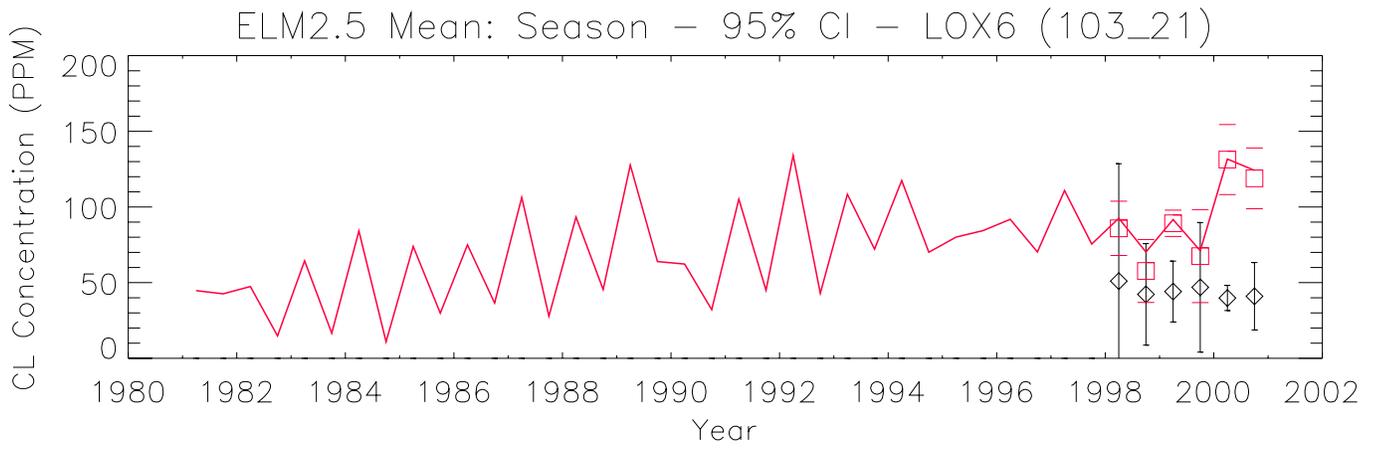


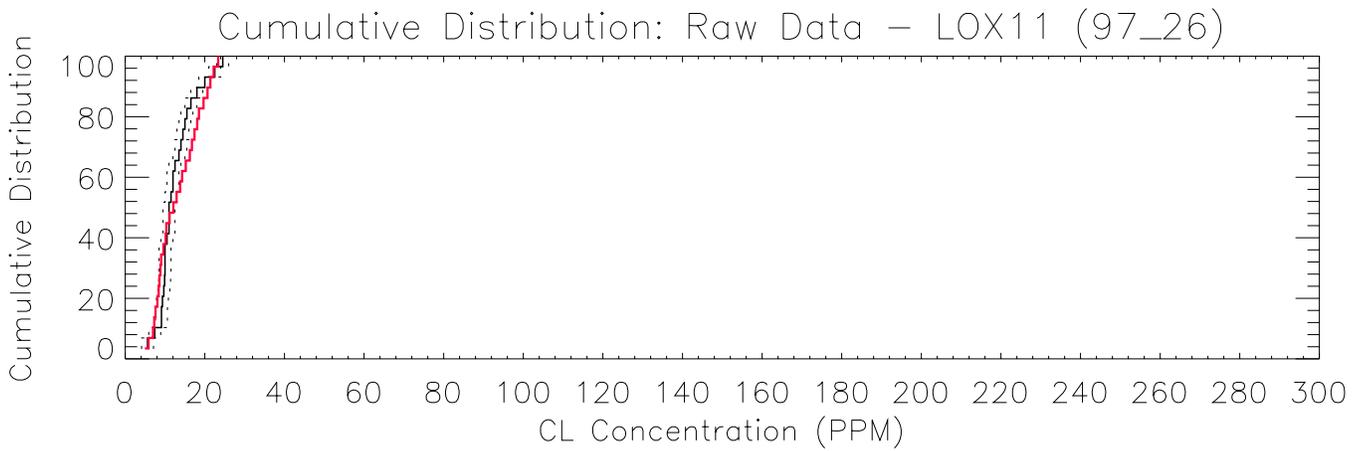
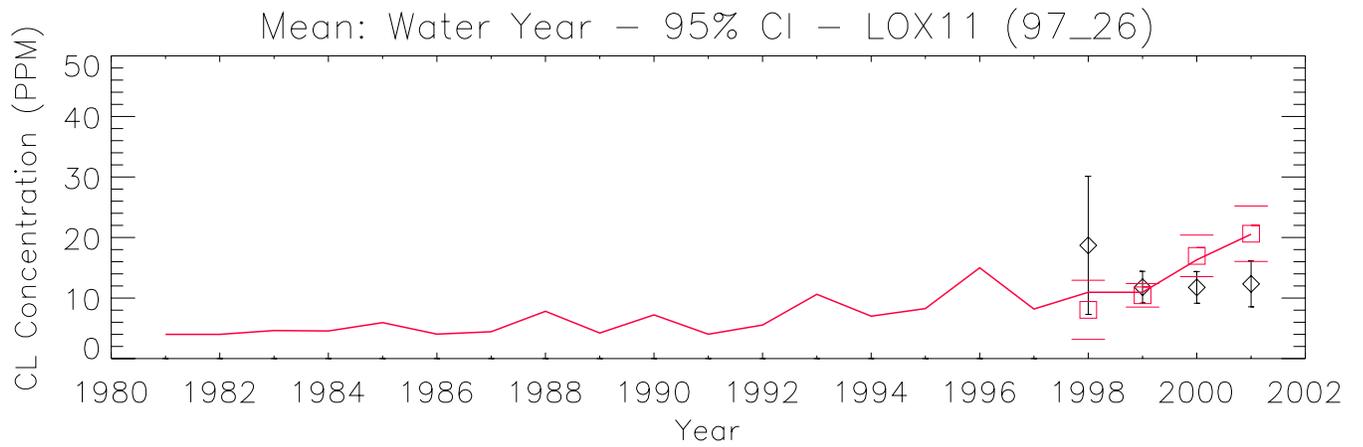
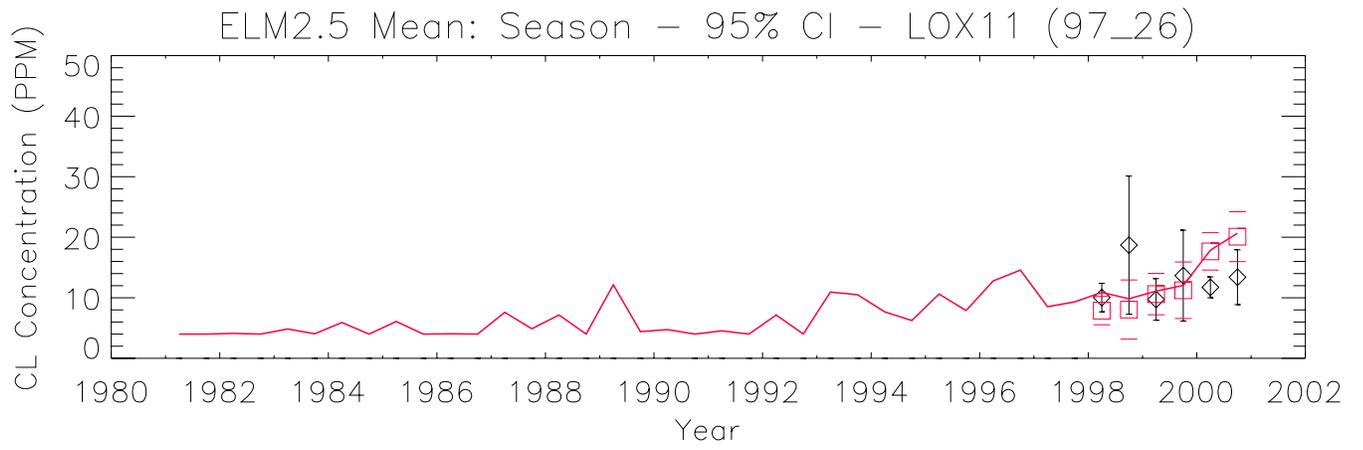


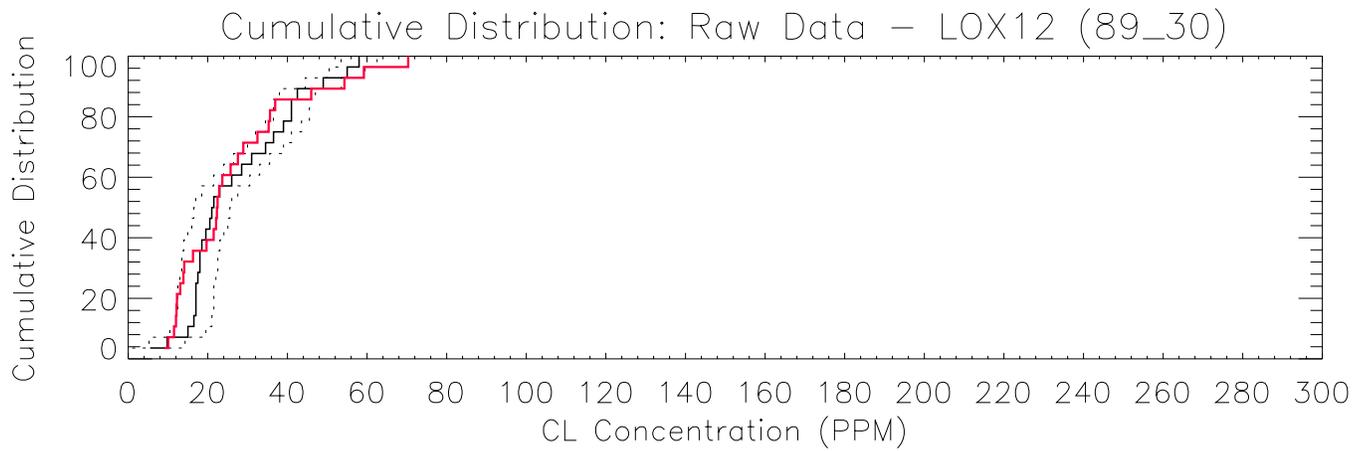
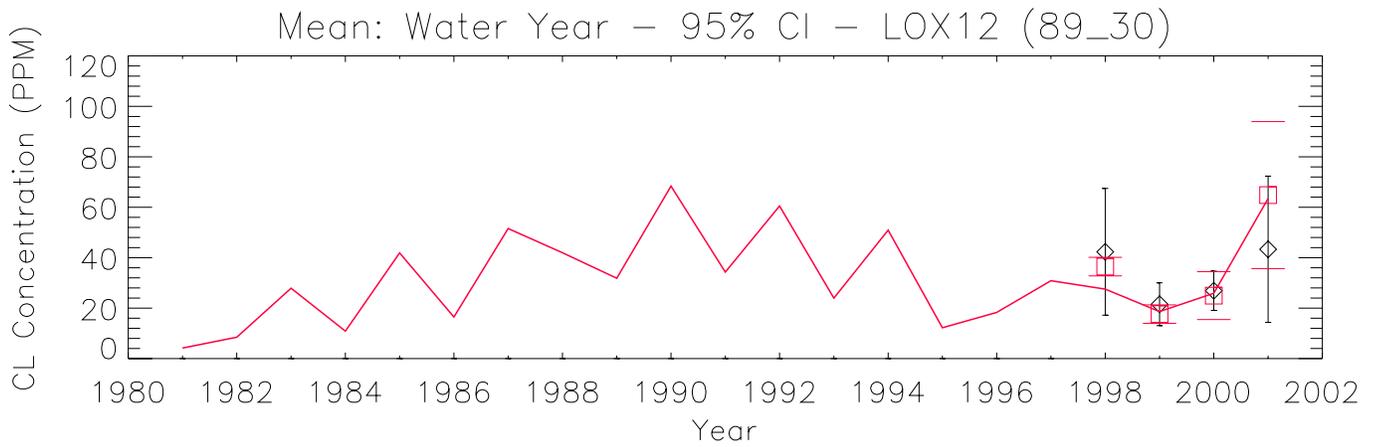
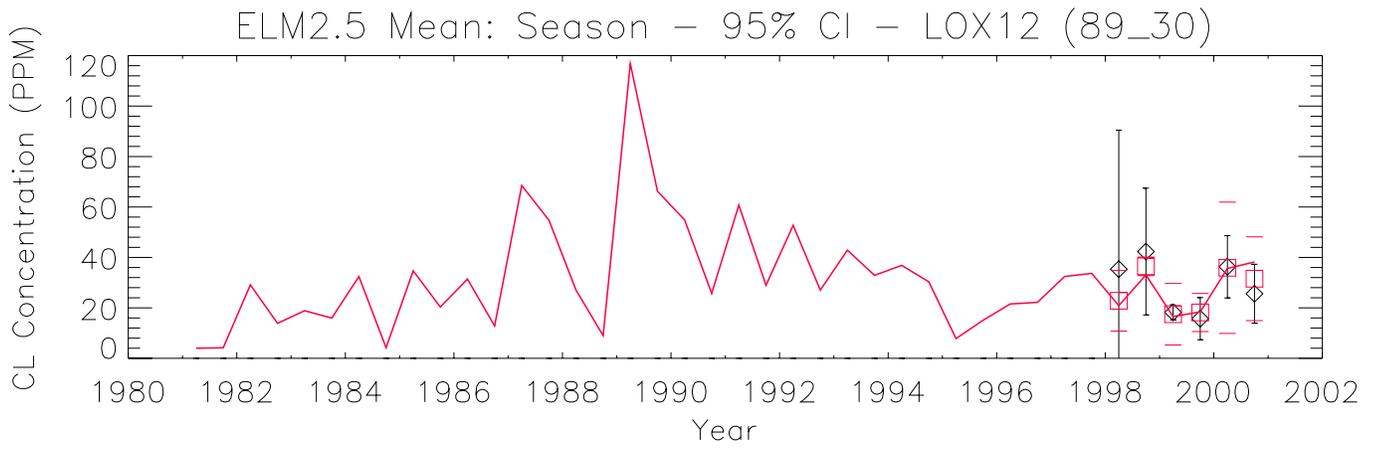


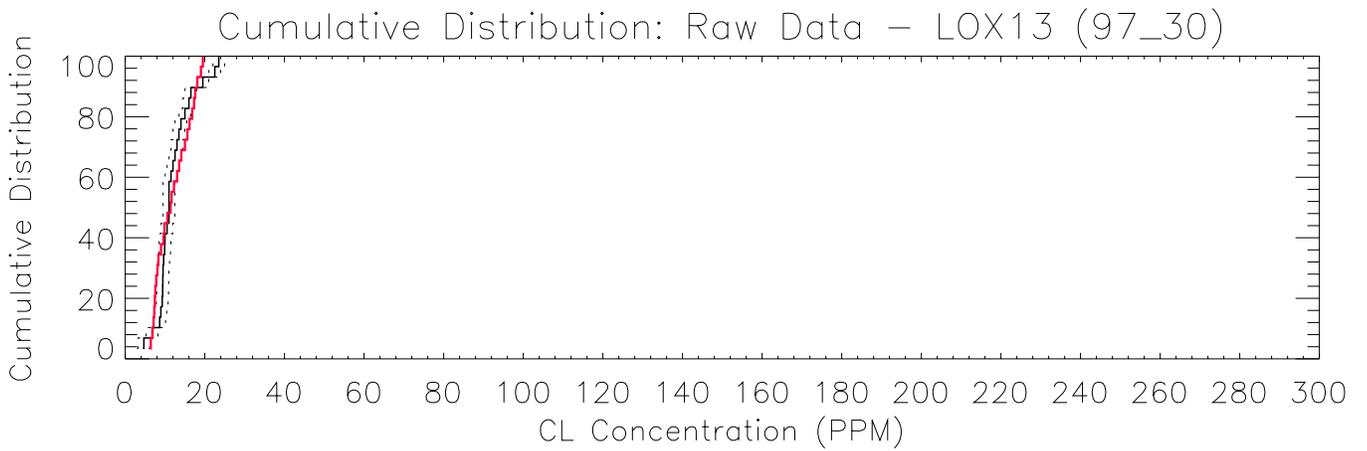
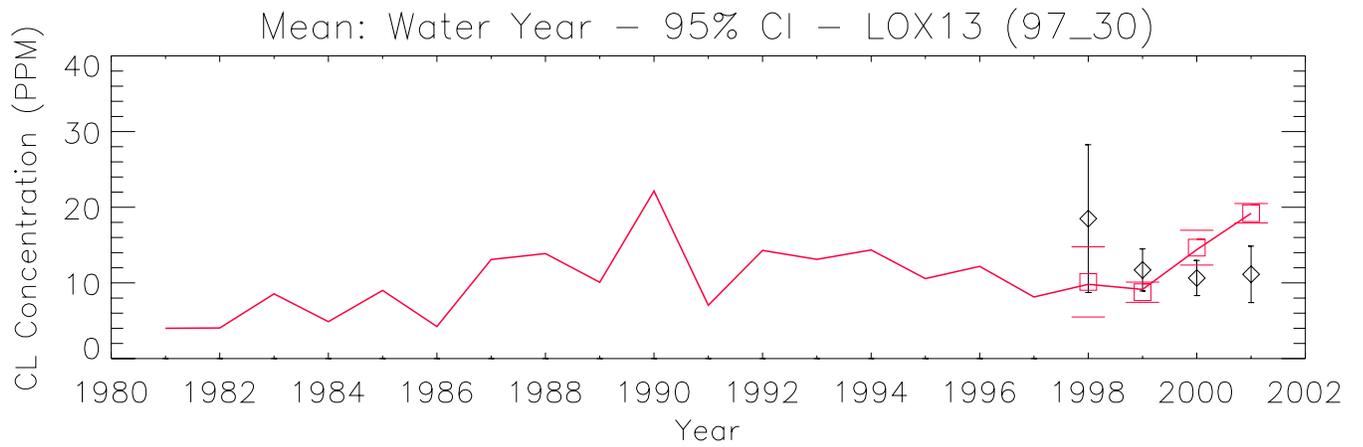
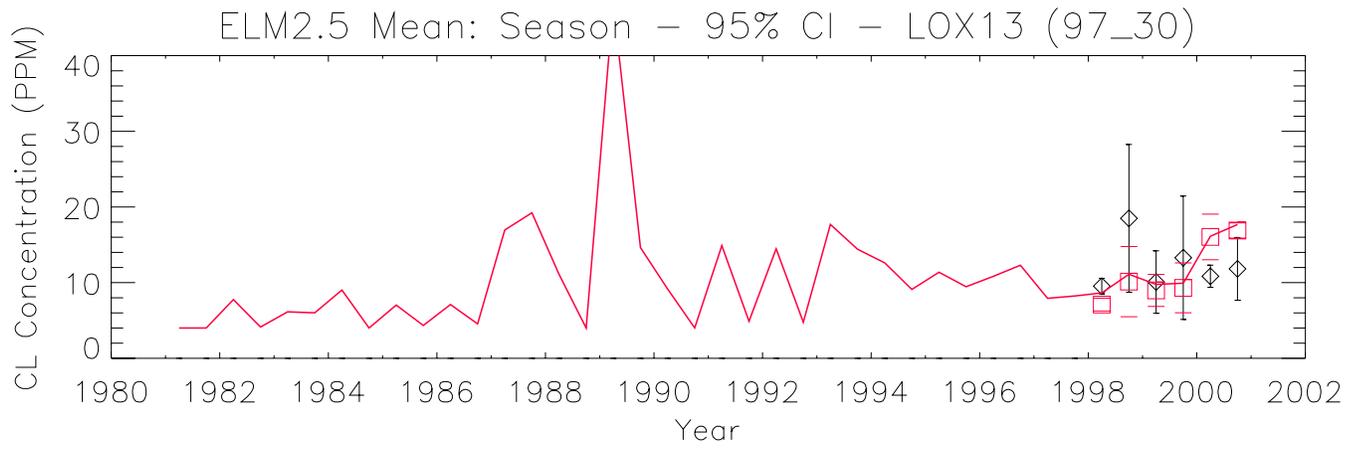


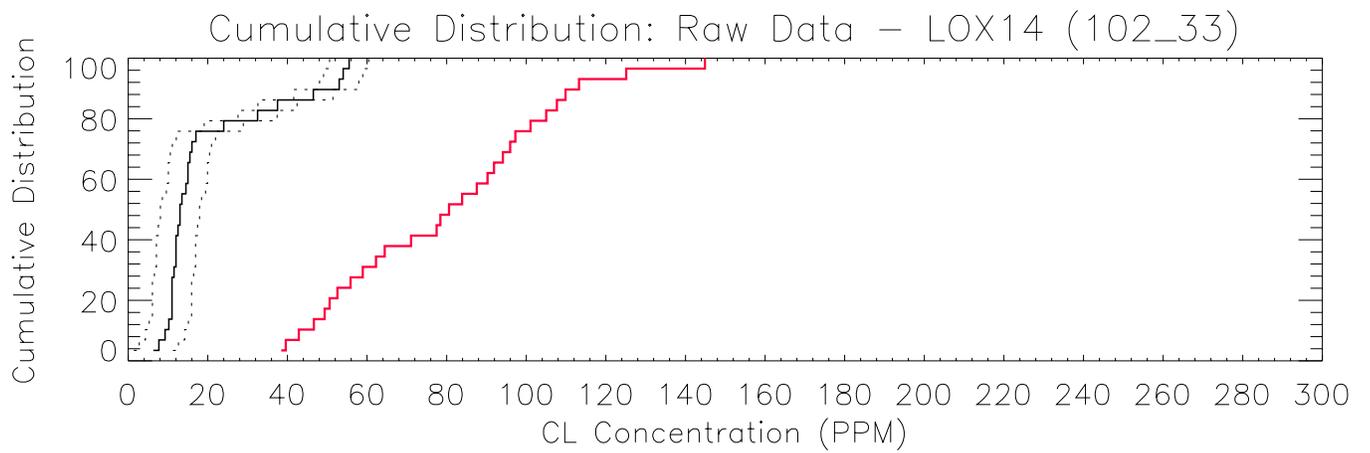
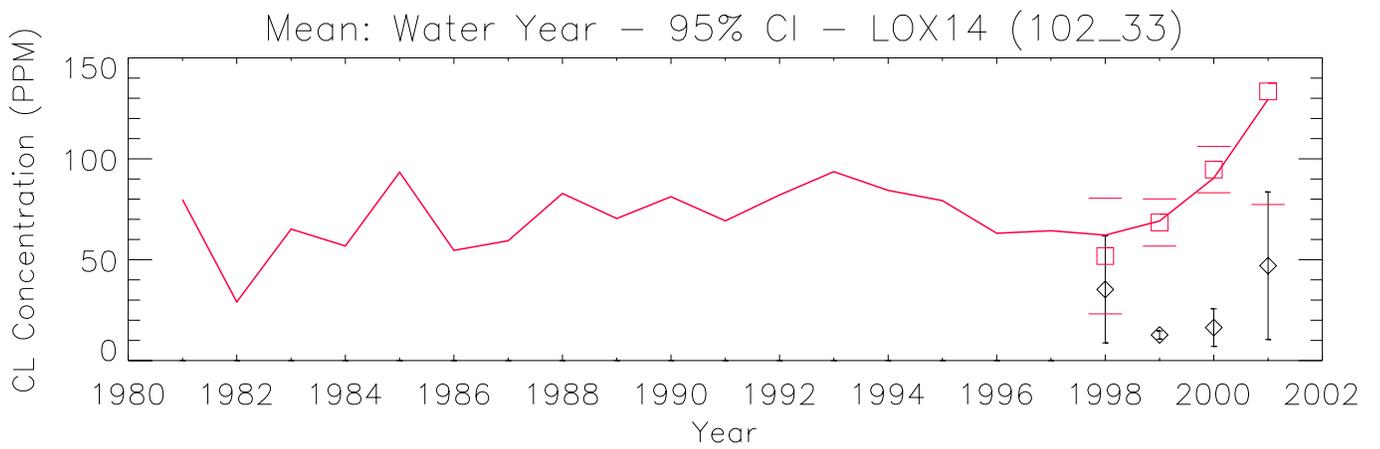
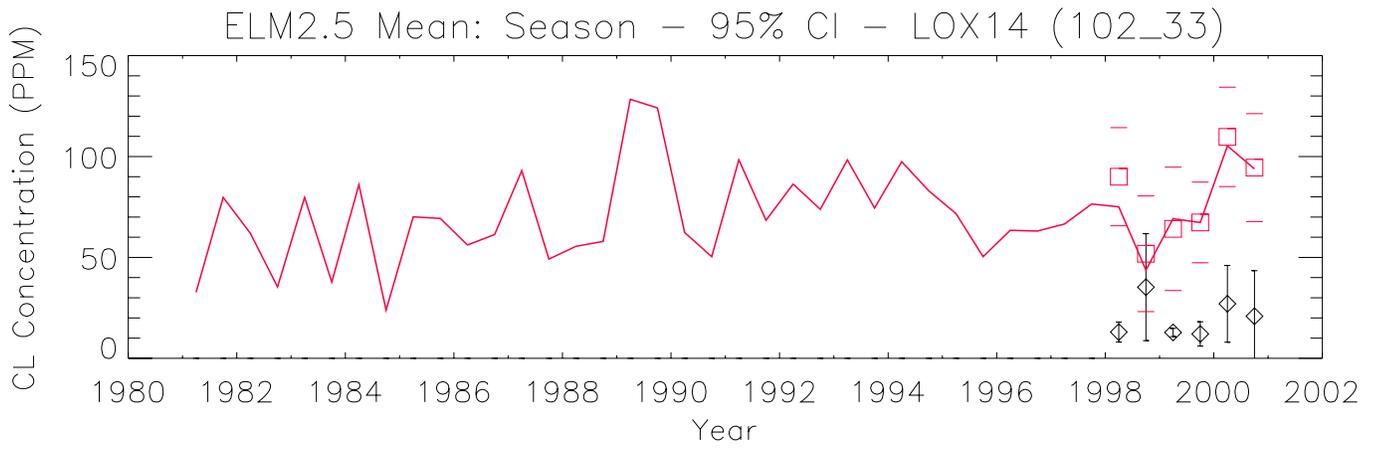


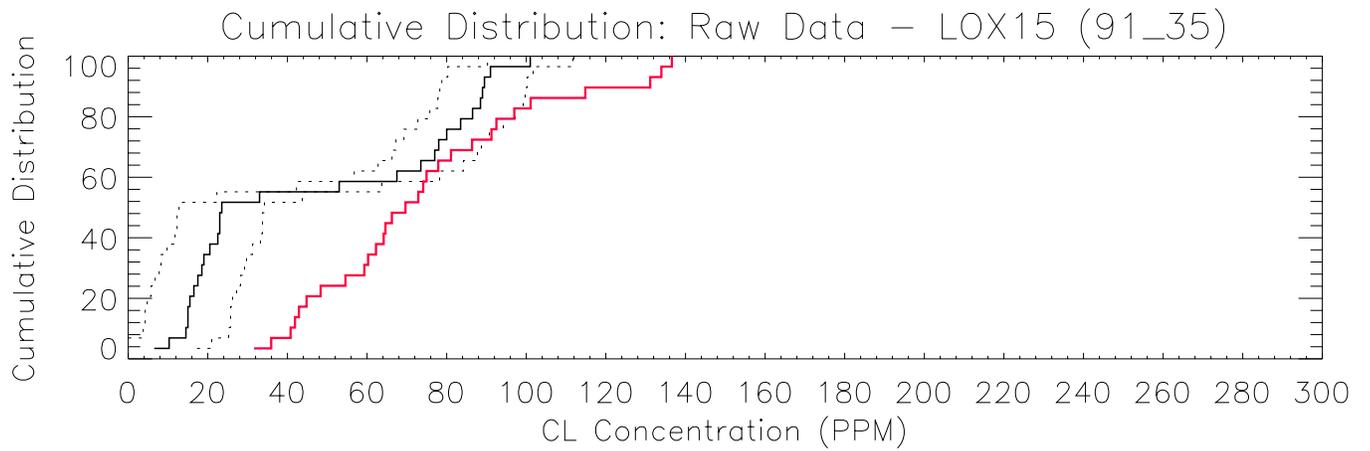
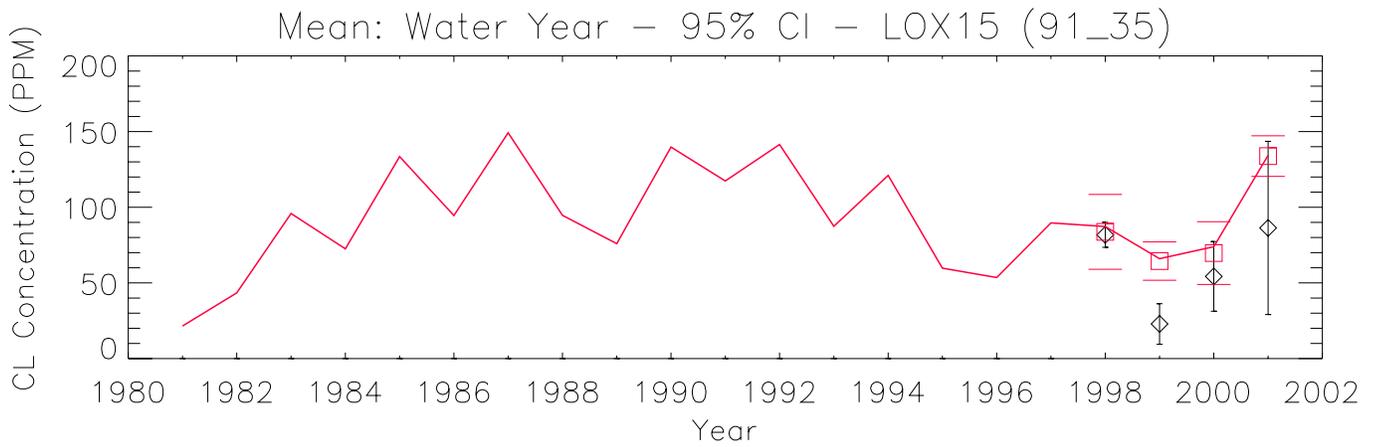
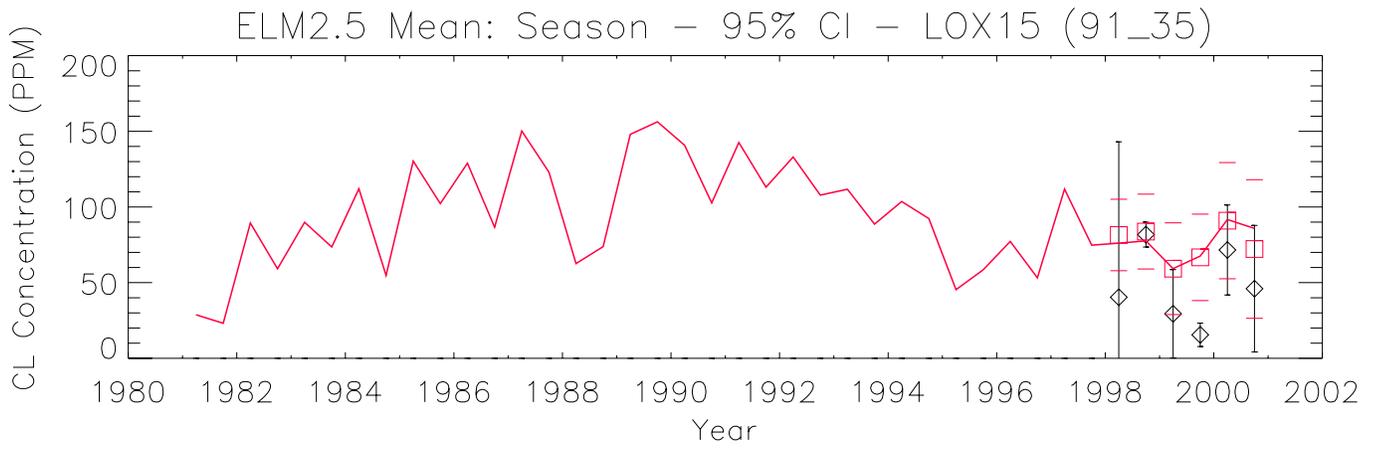


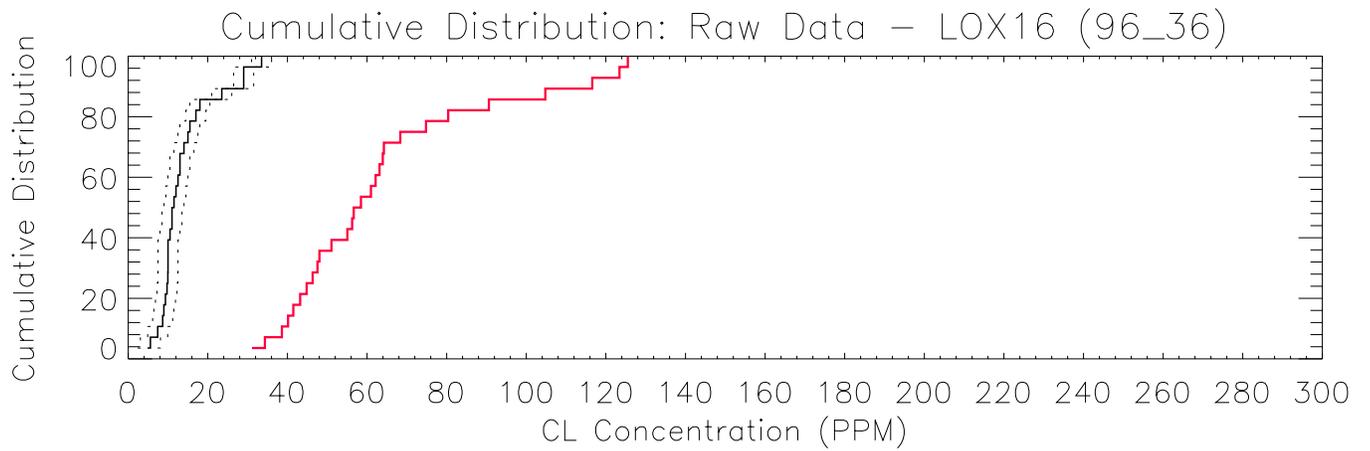
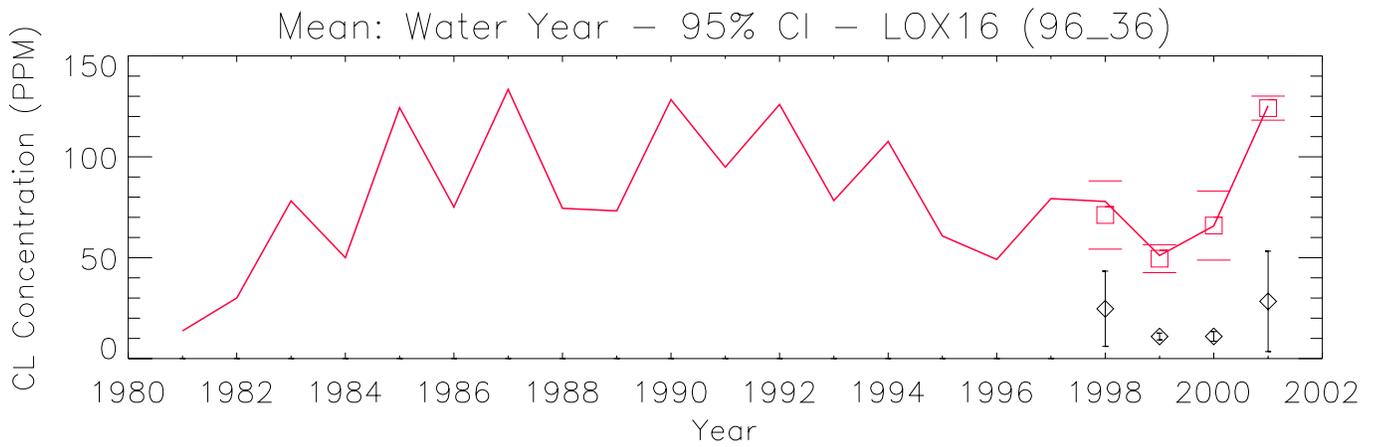
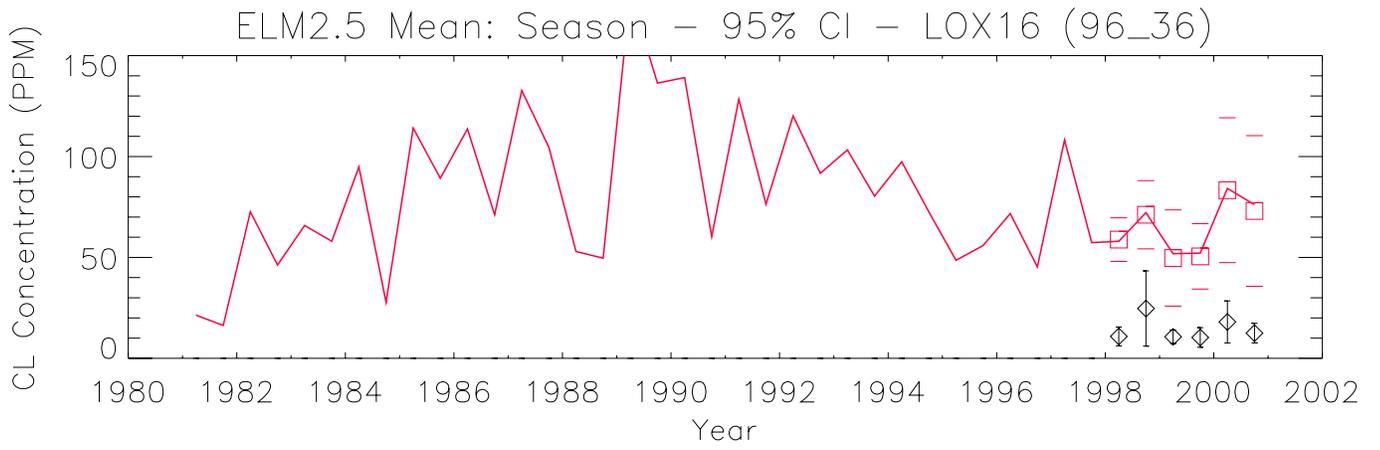


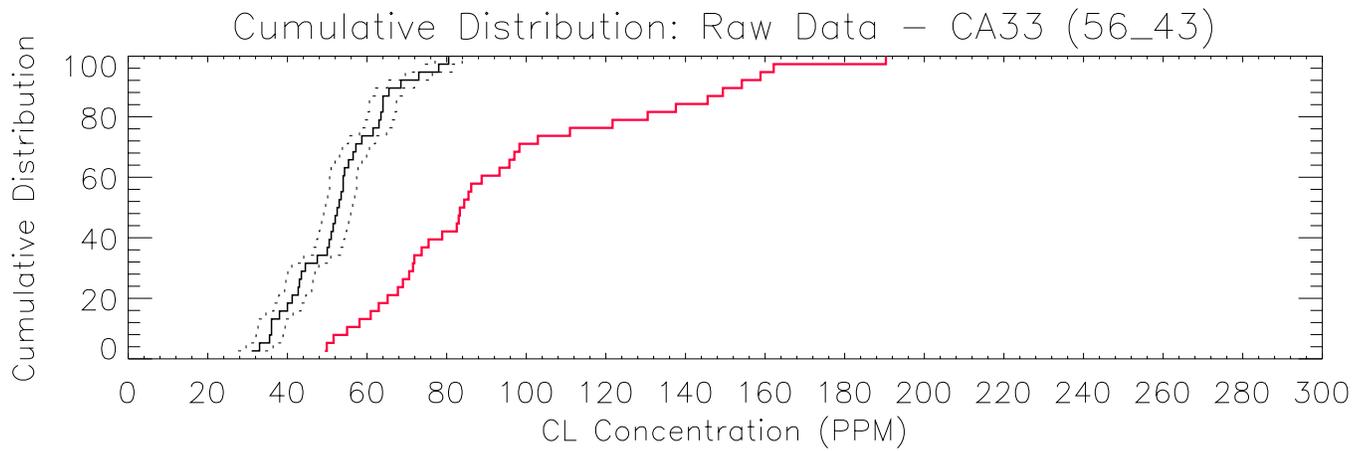
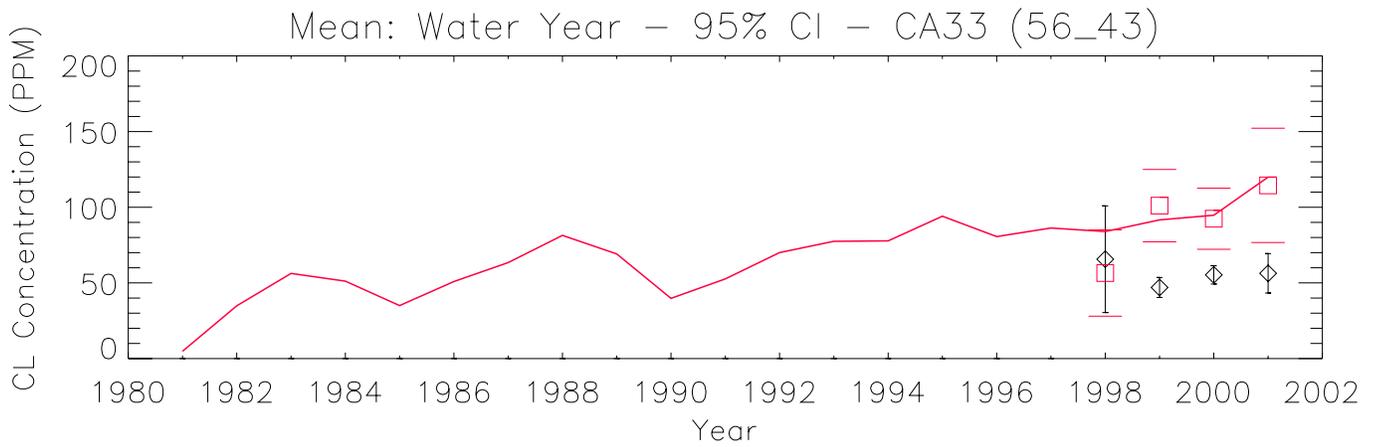
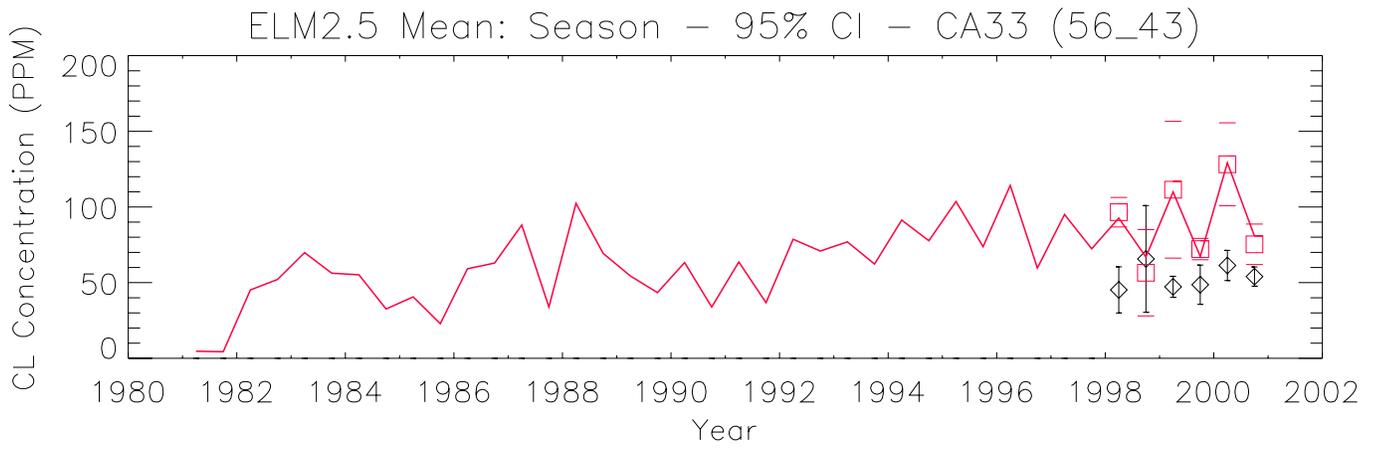


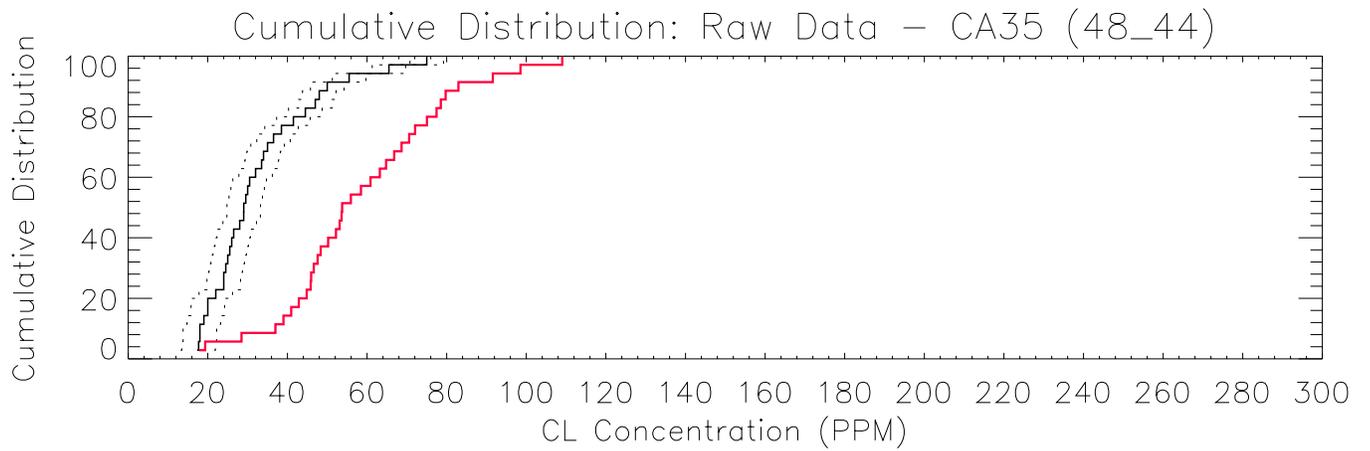
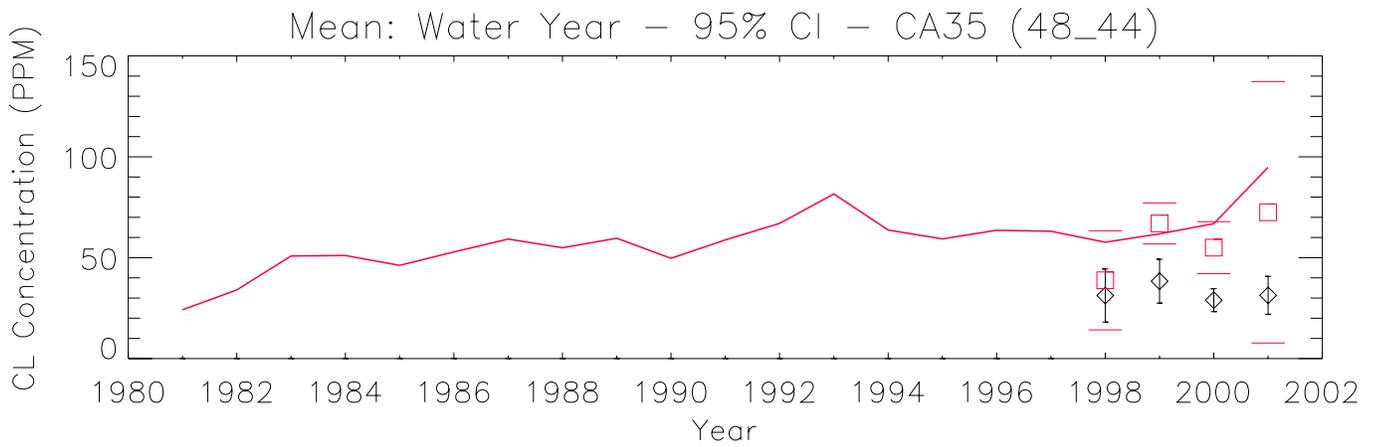
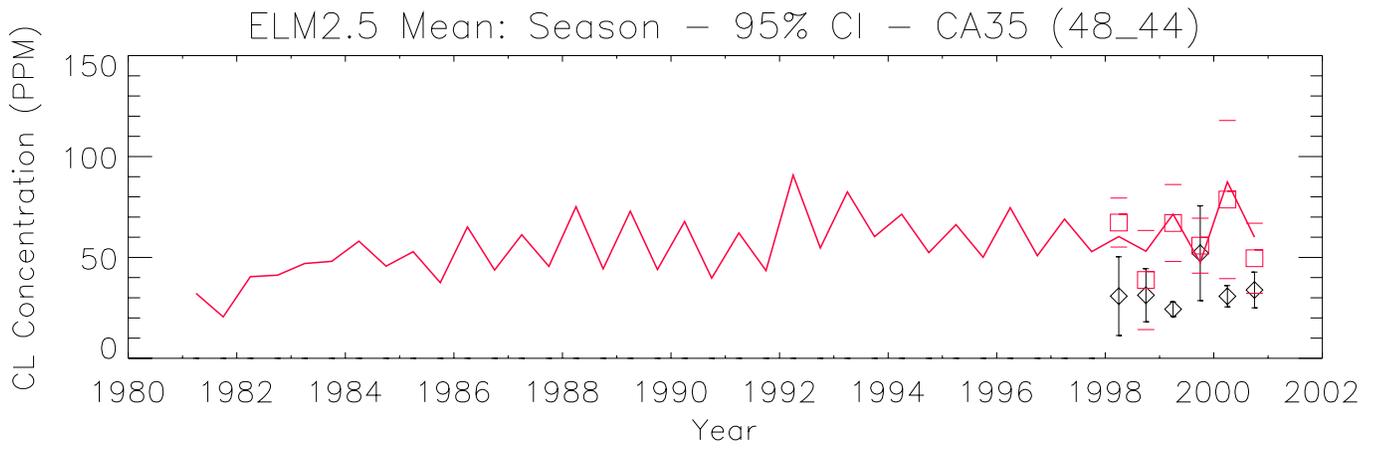


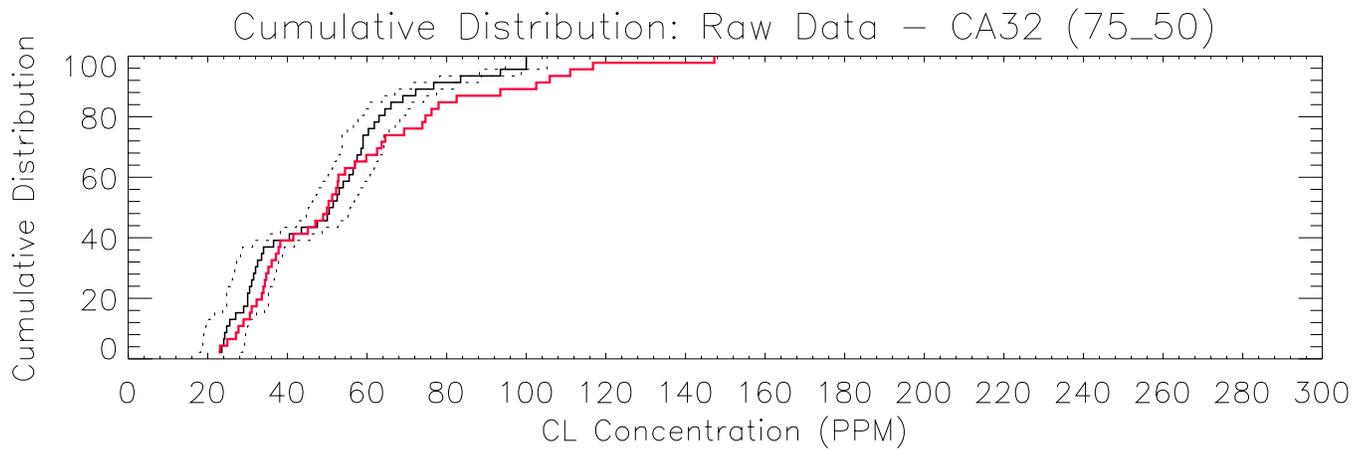
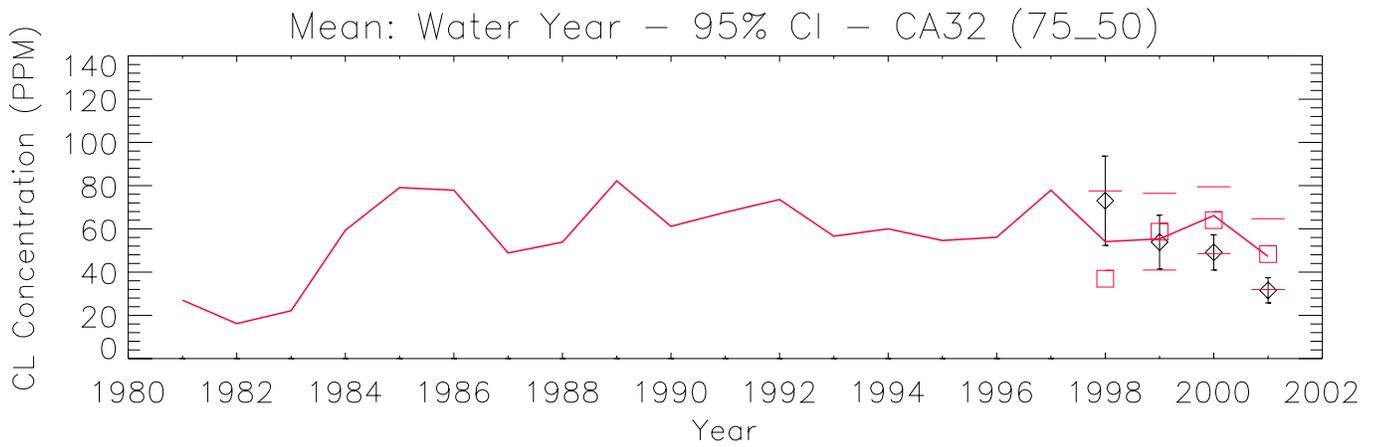
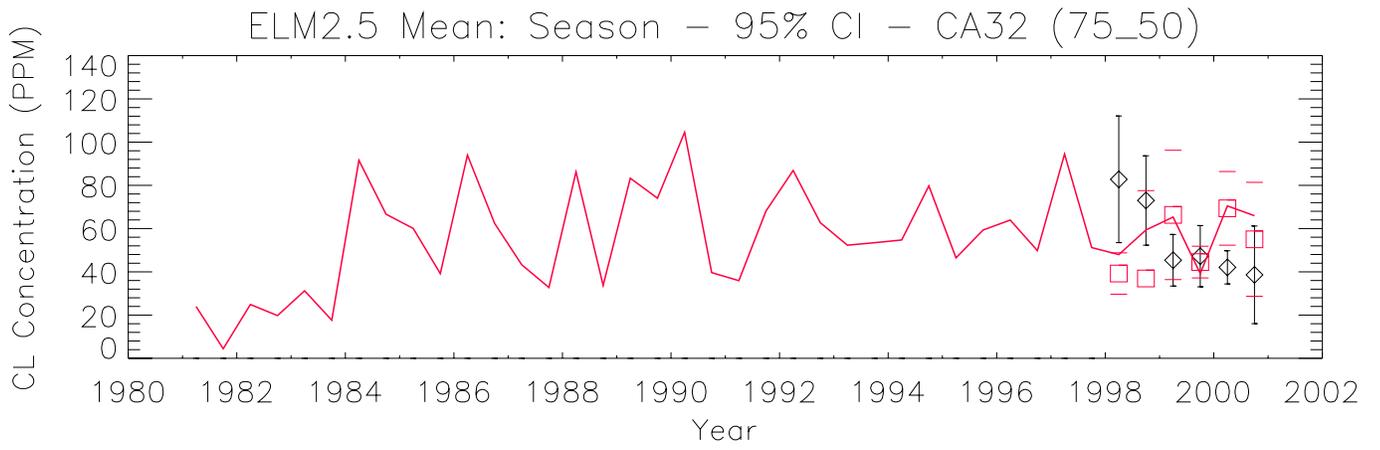


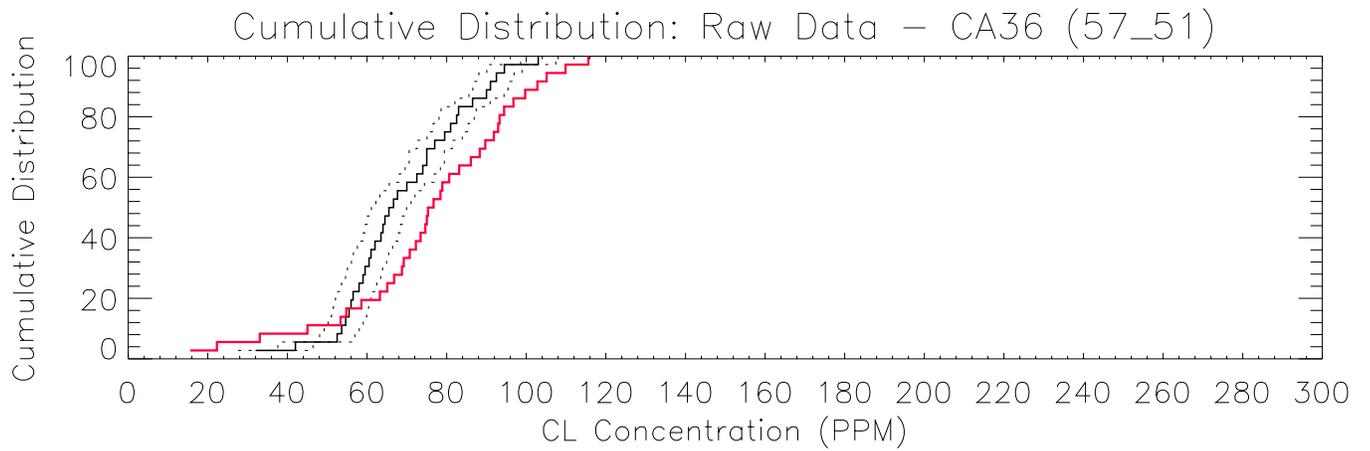
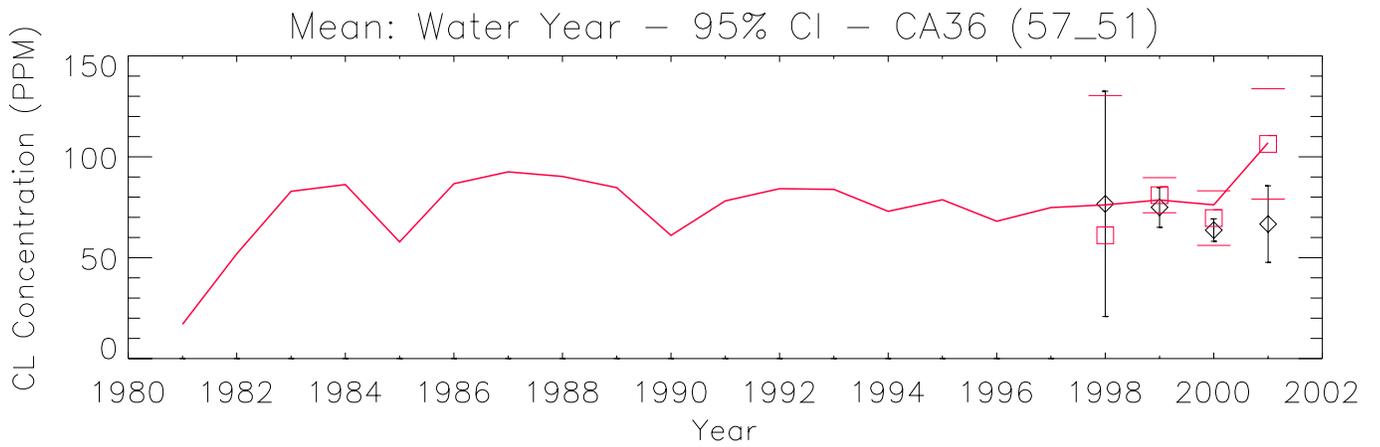
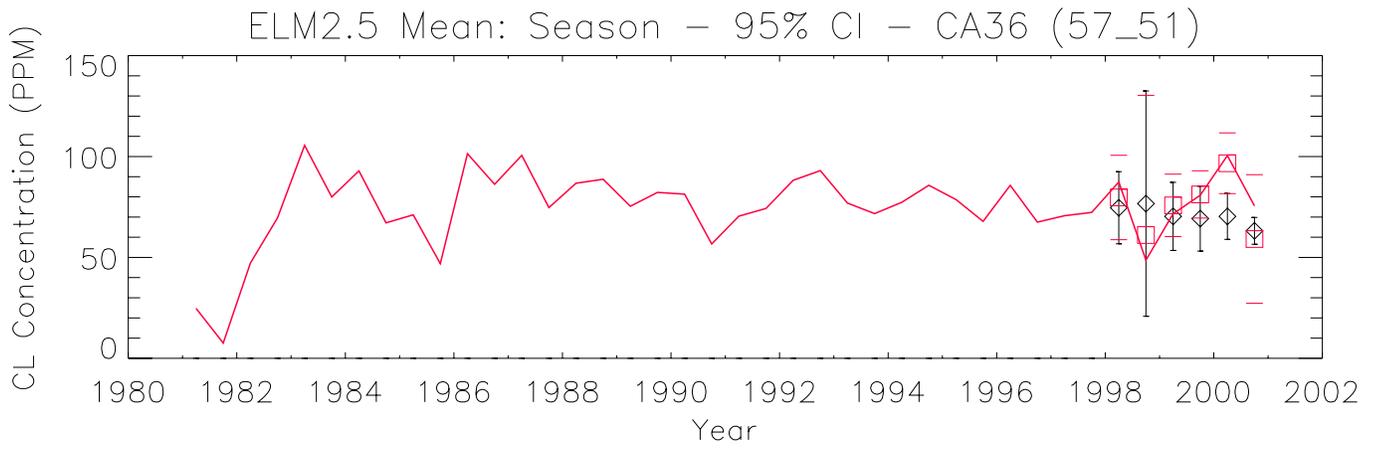


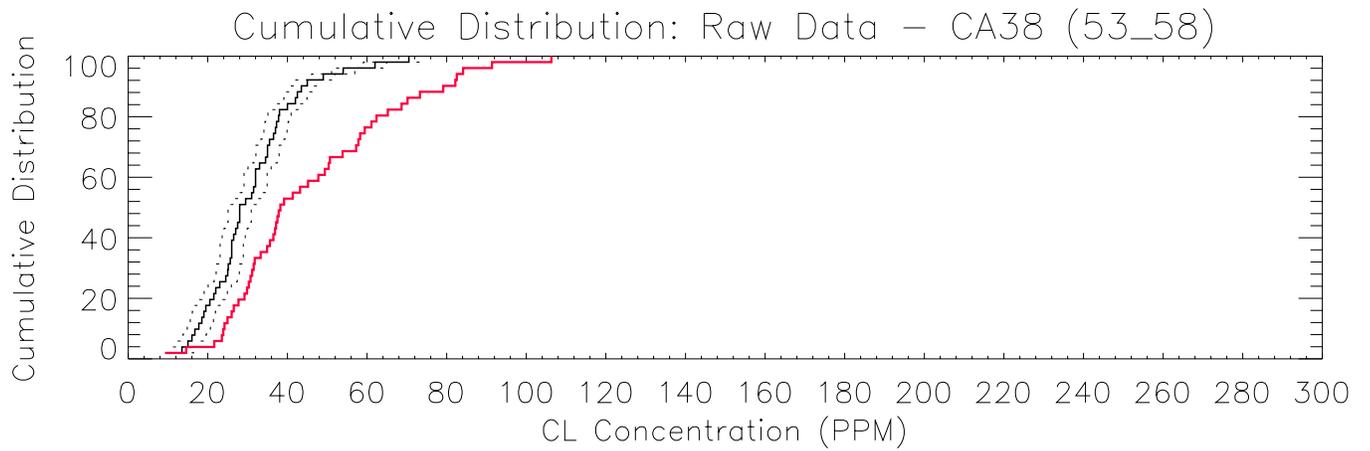
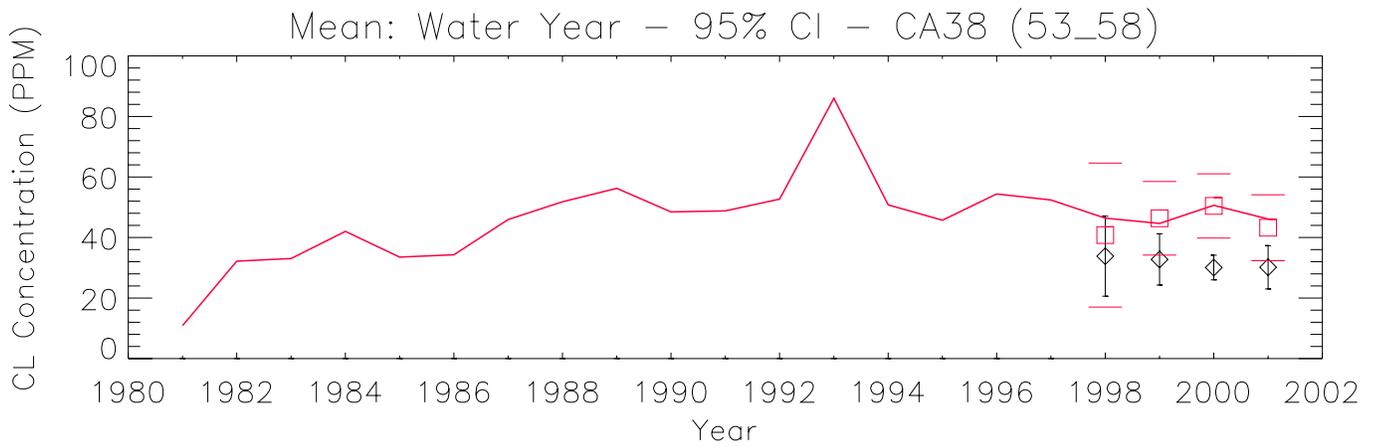
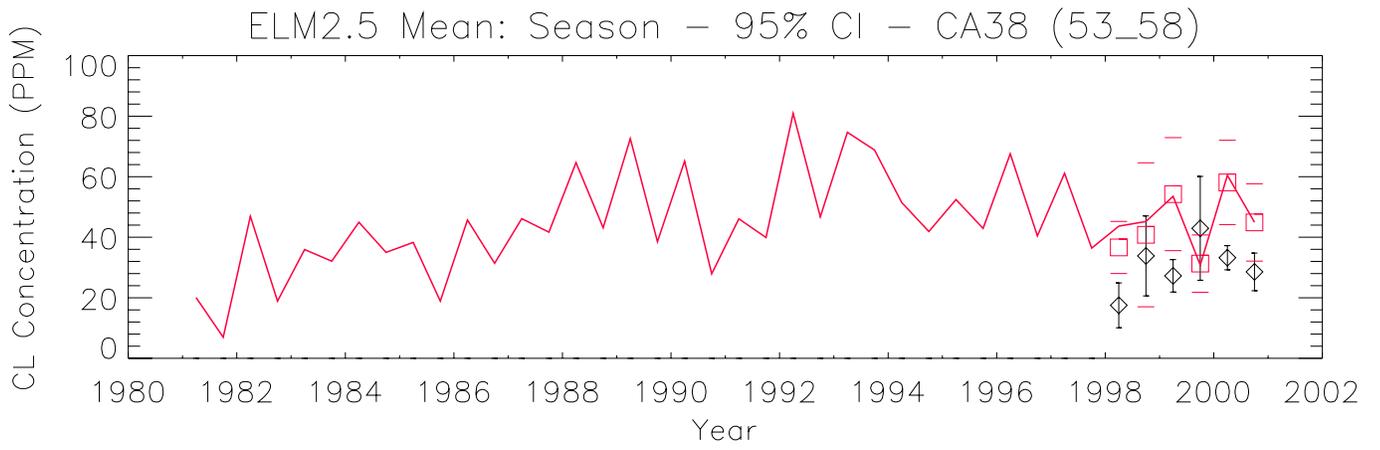


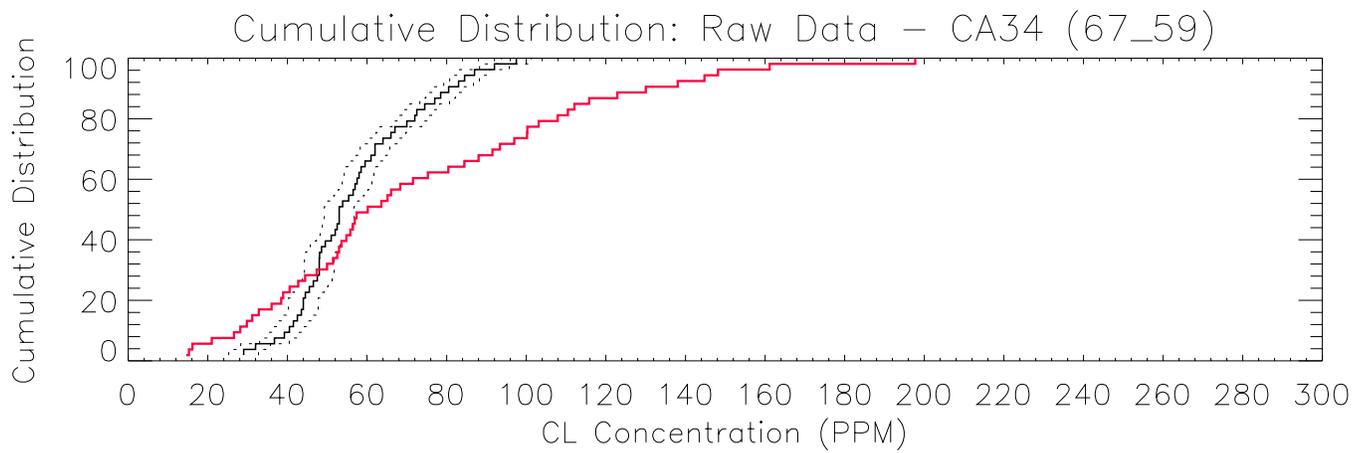
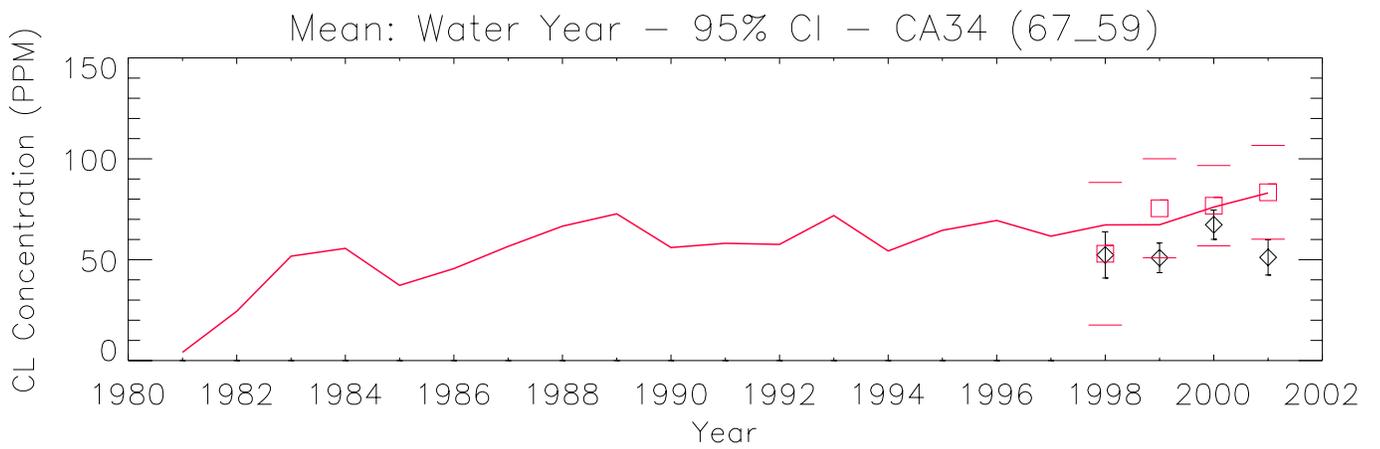
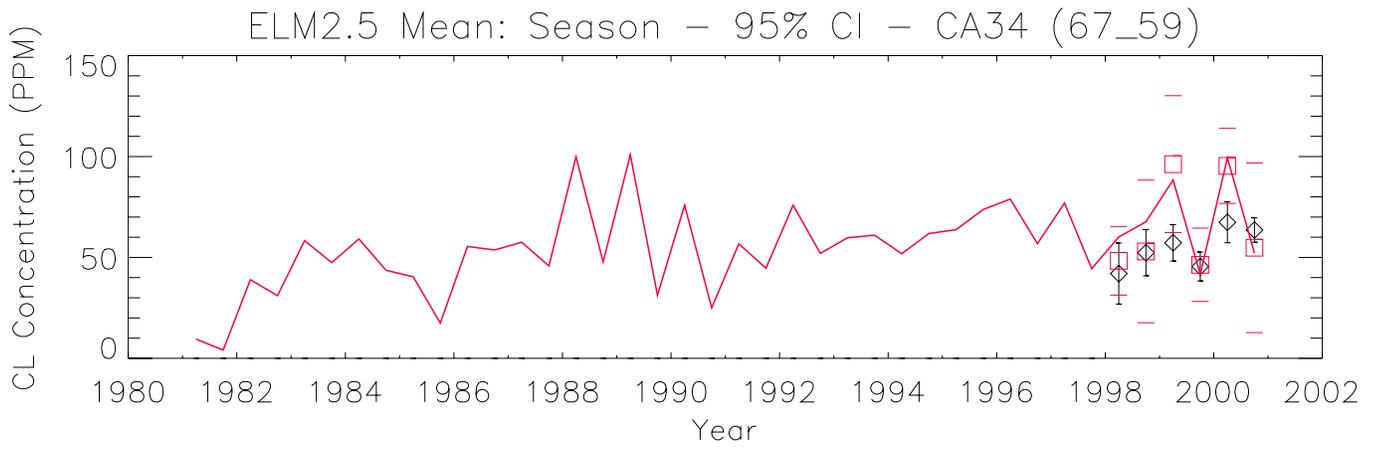


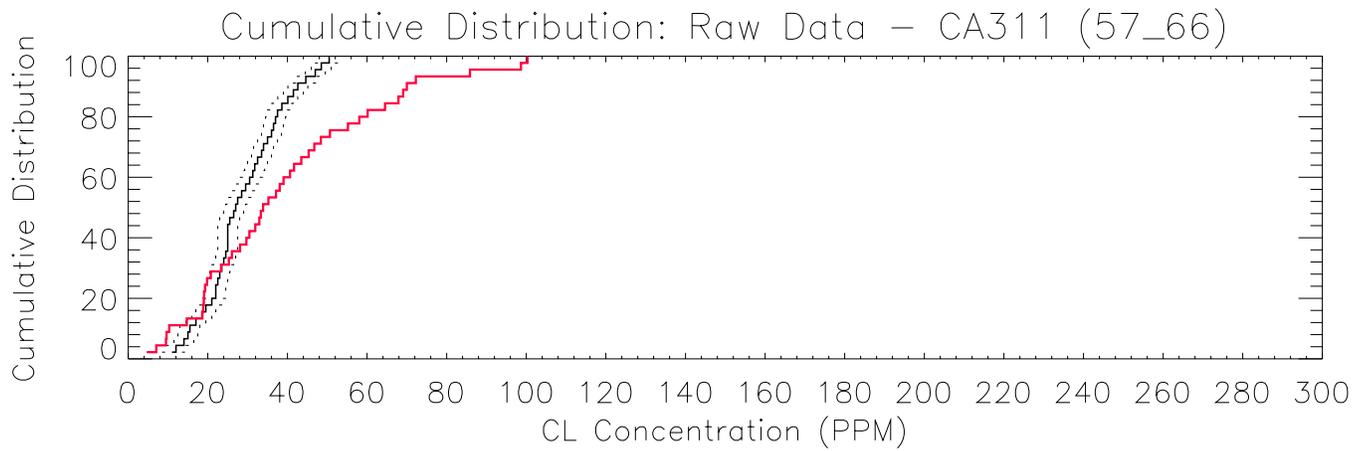
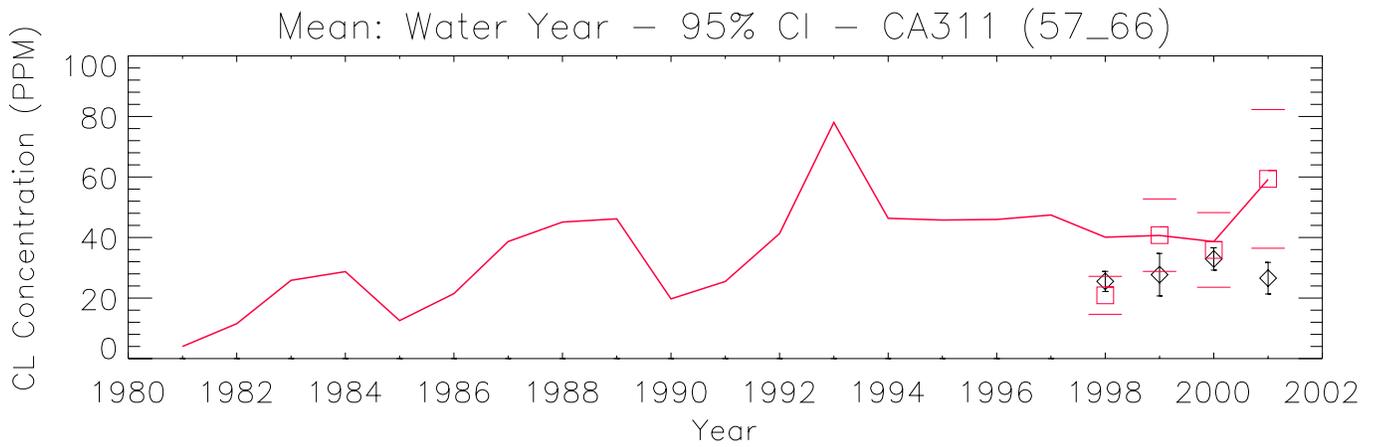
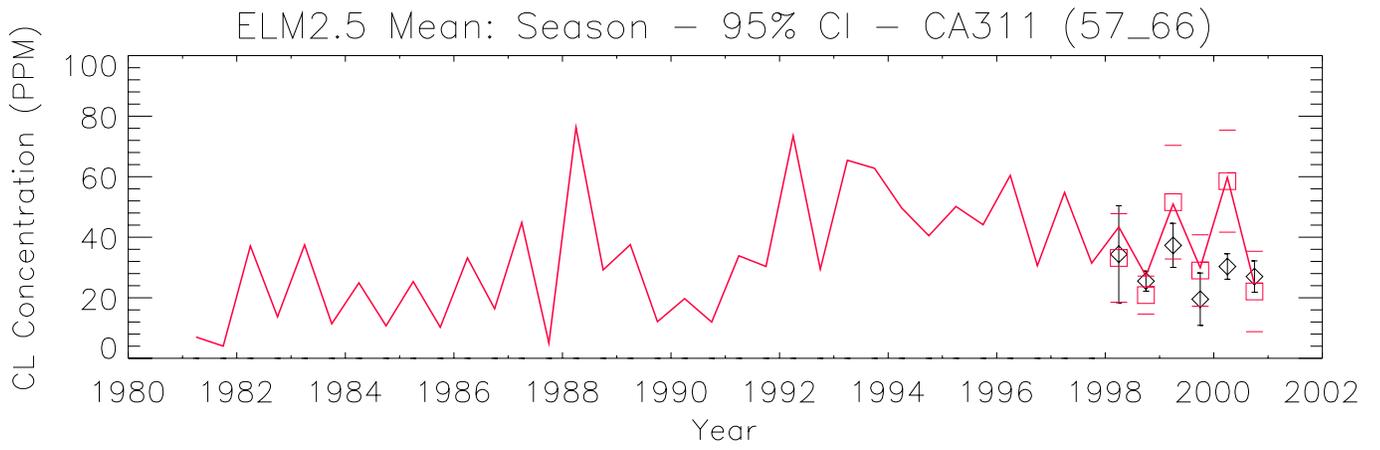


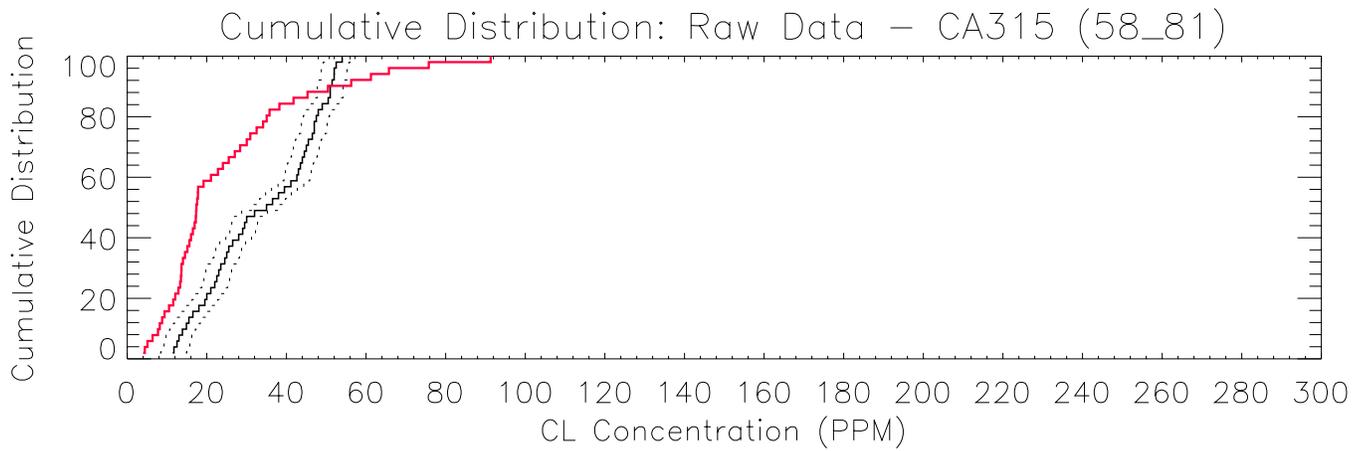
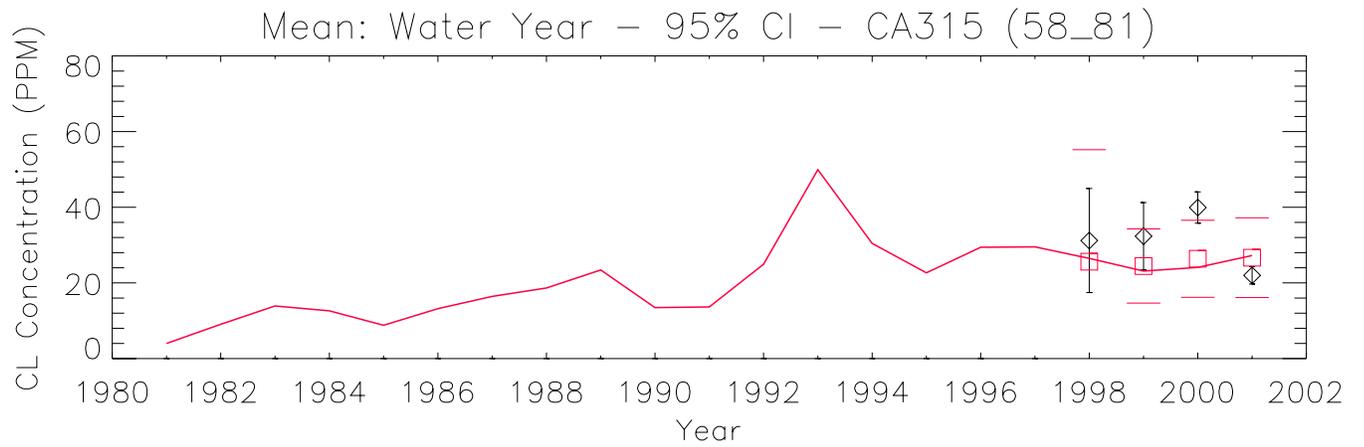
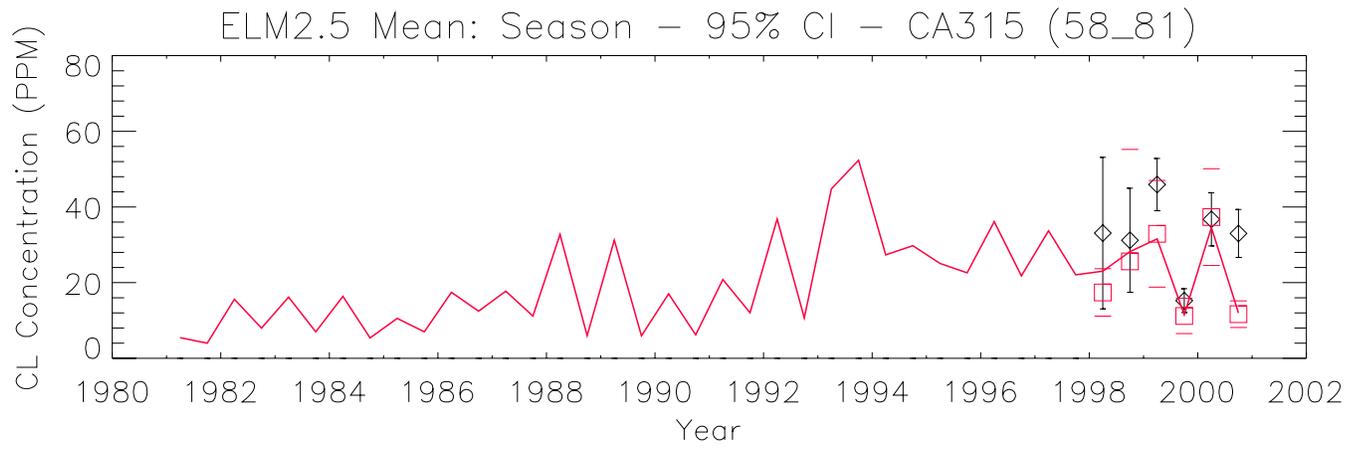


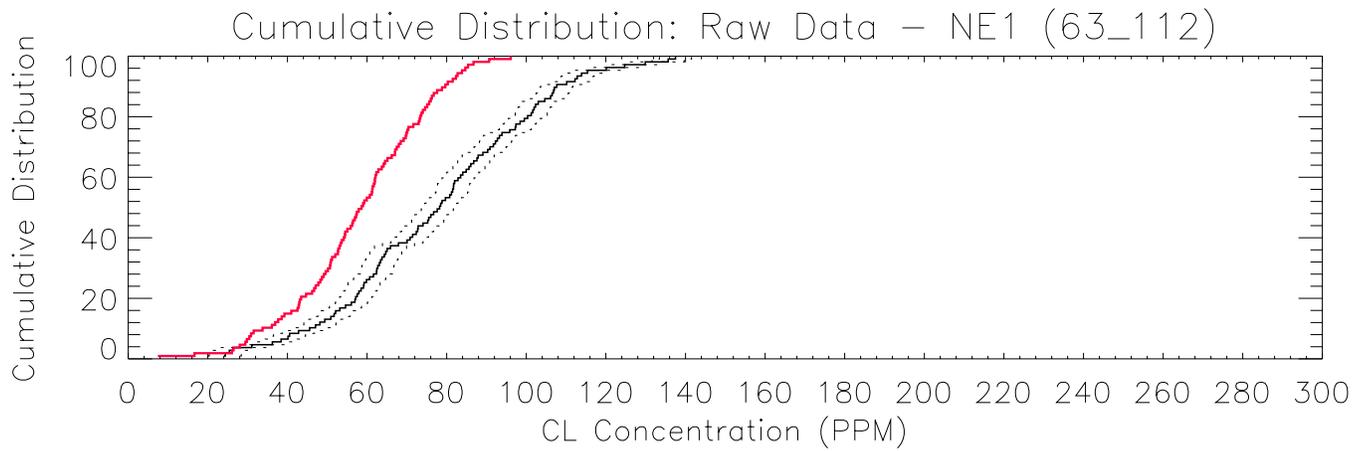
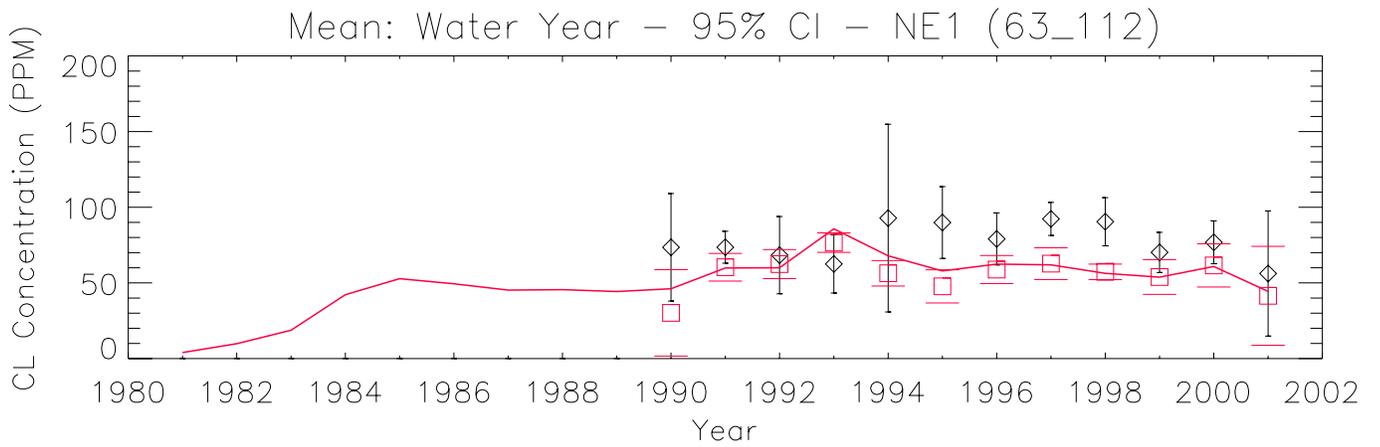
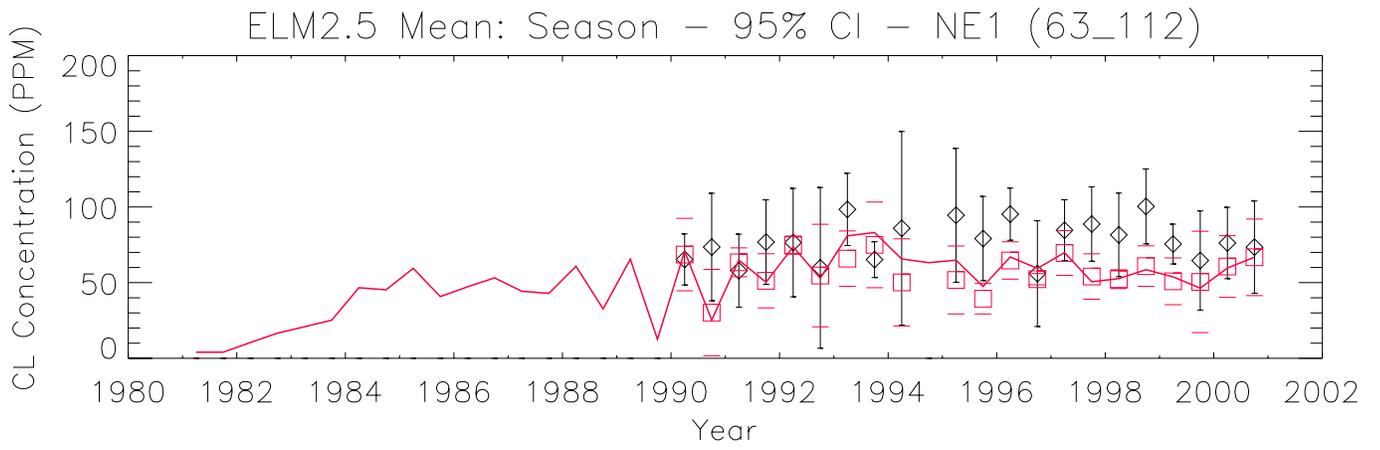


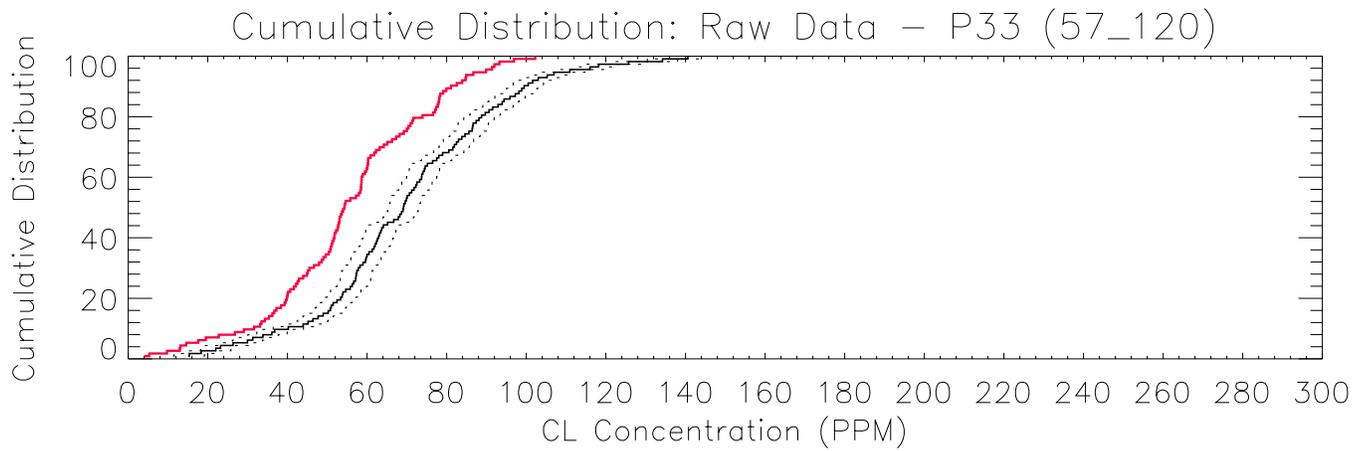
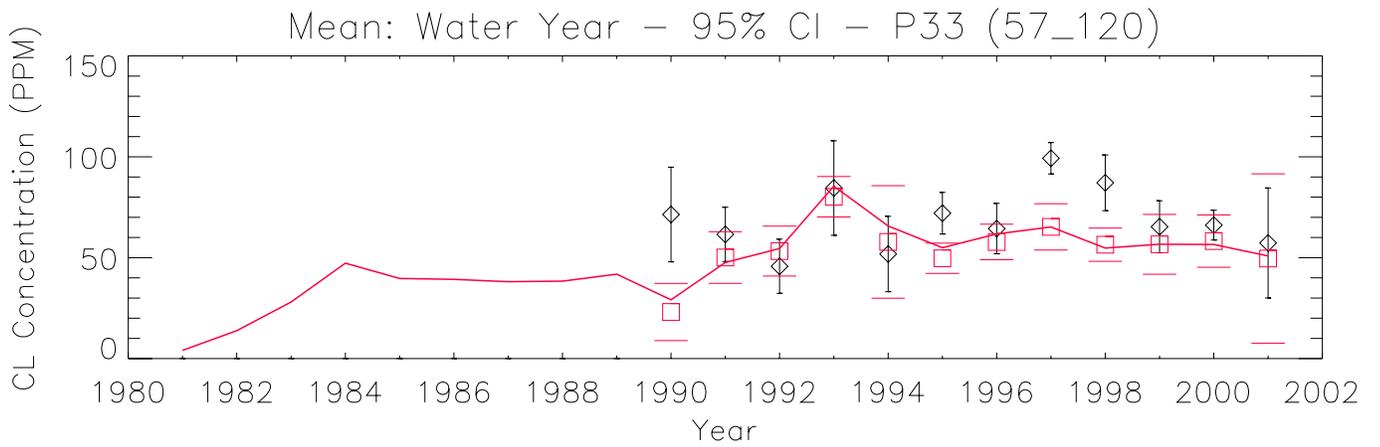
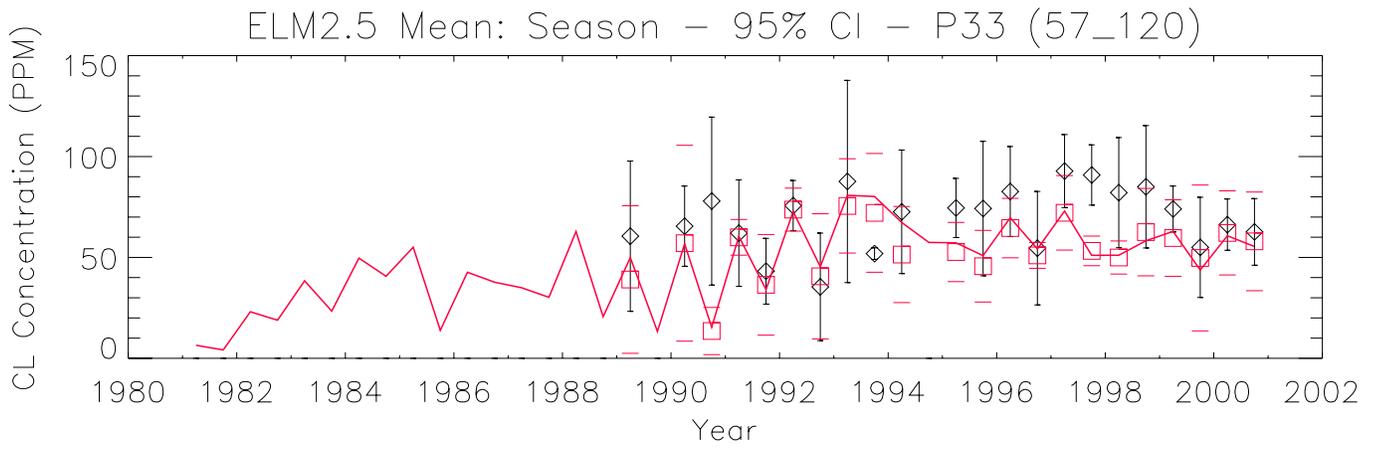


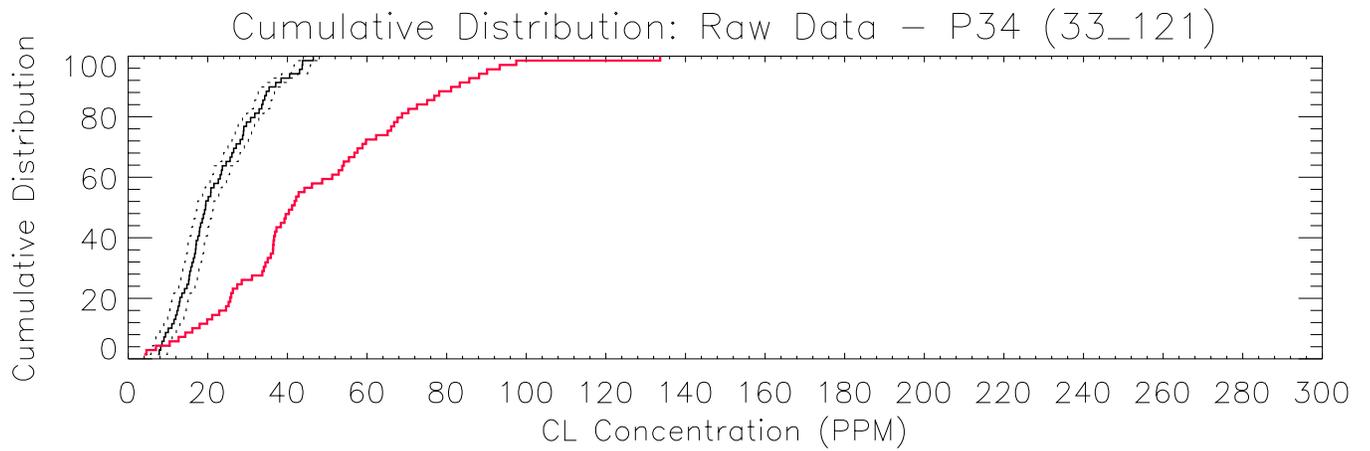
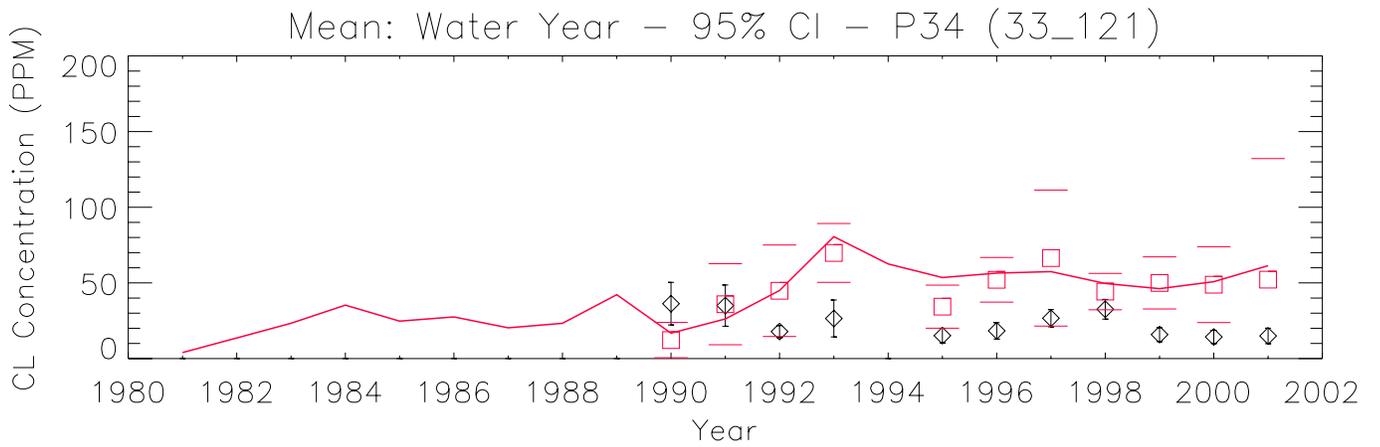
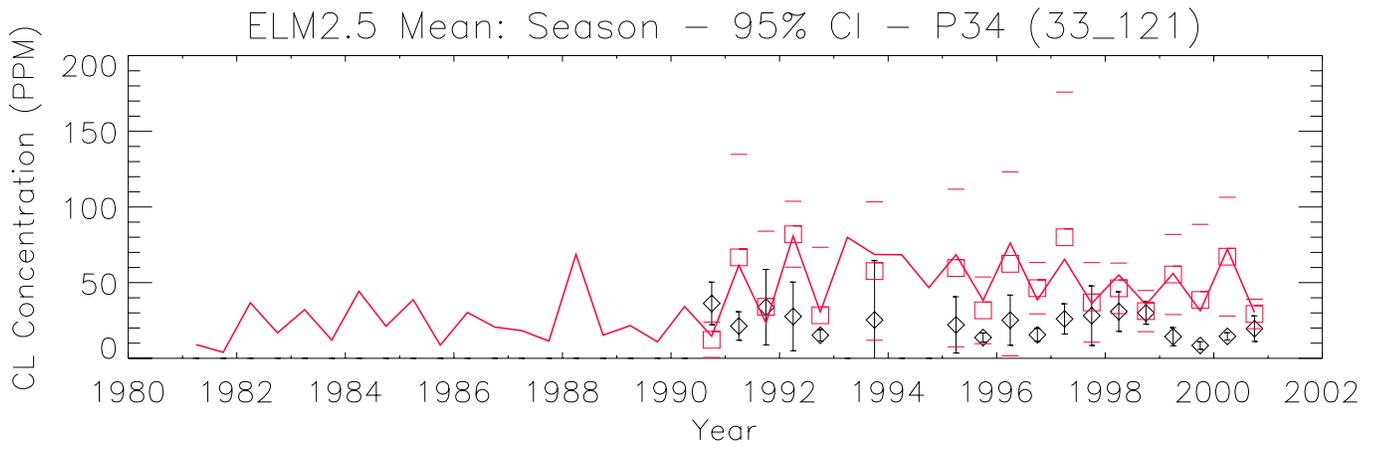


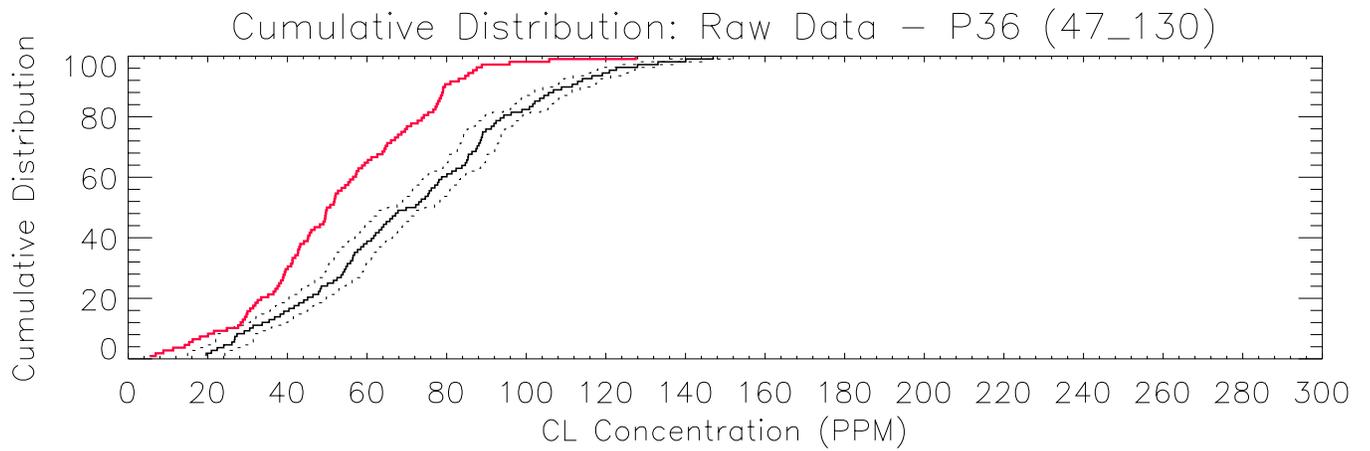
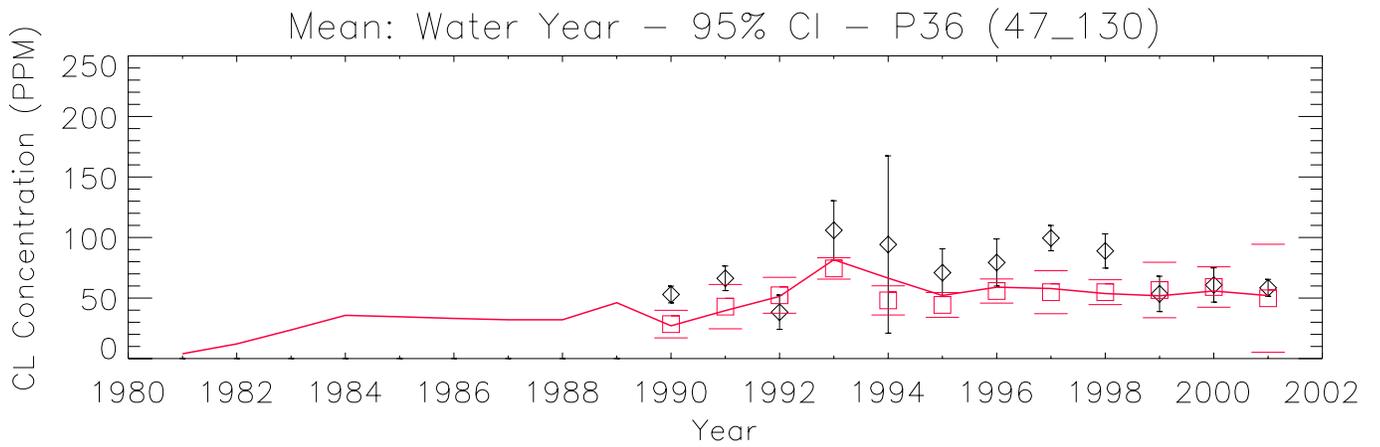
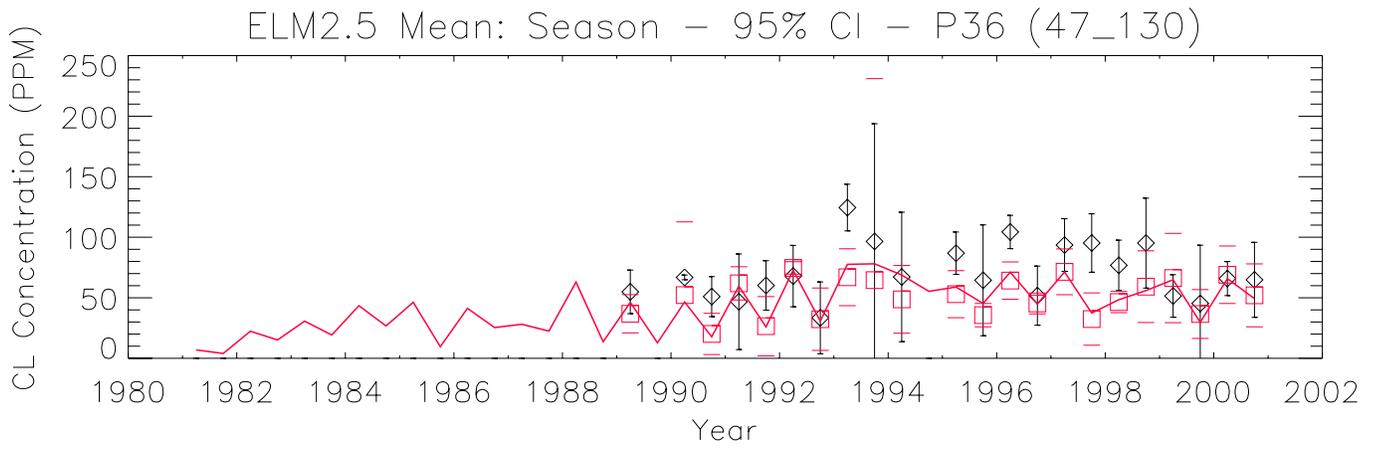




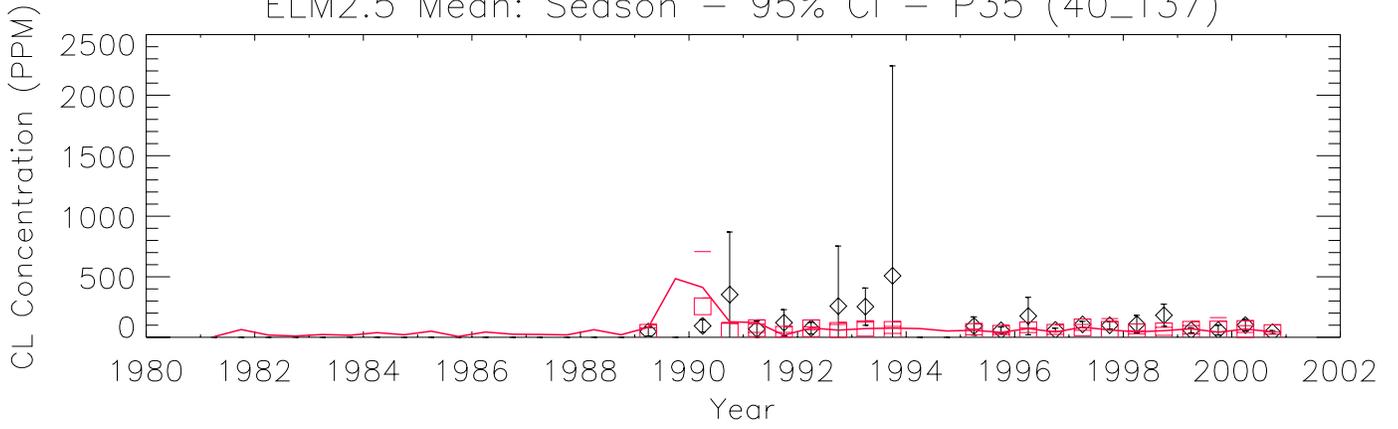




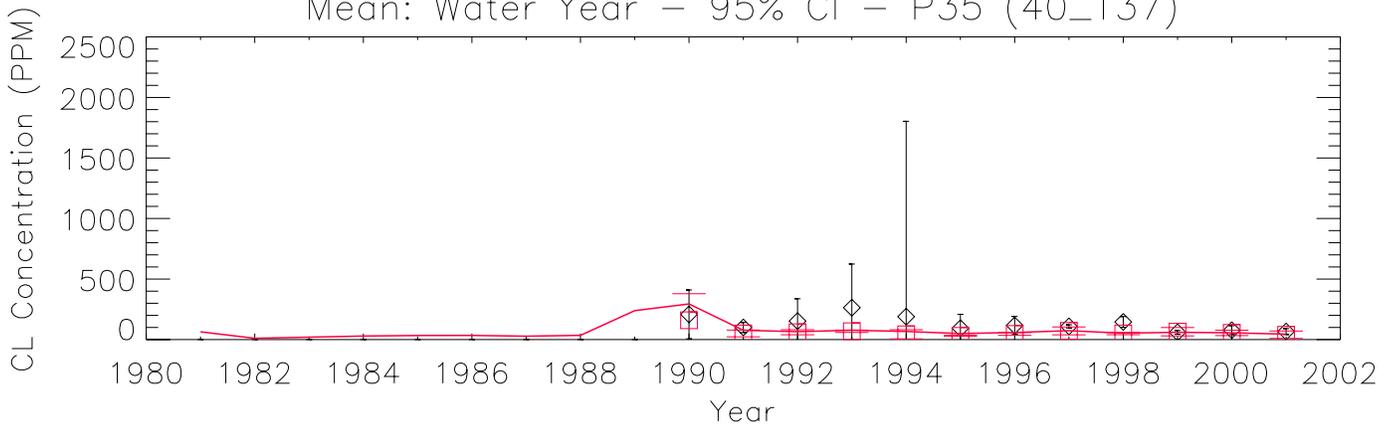




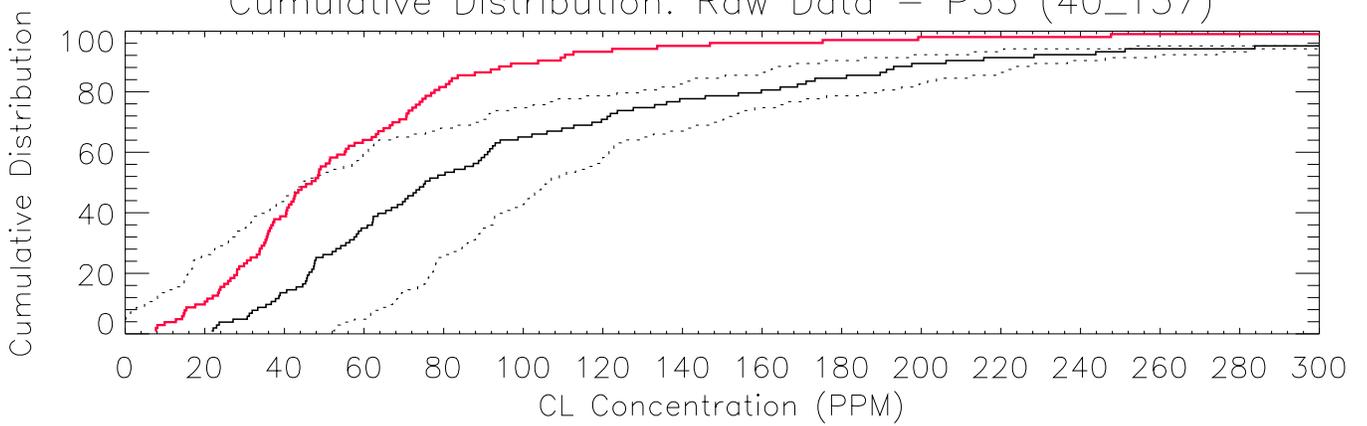
ELM2.5 Mean: Season - 95% CI - P35 (40\_137)

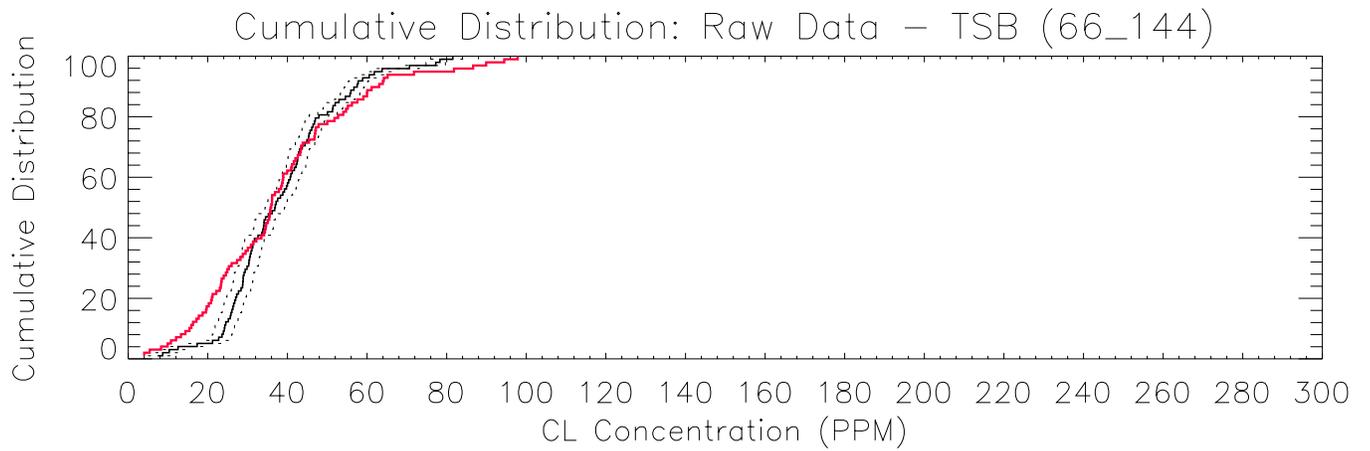
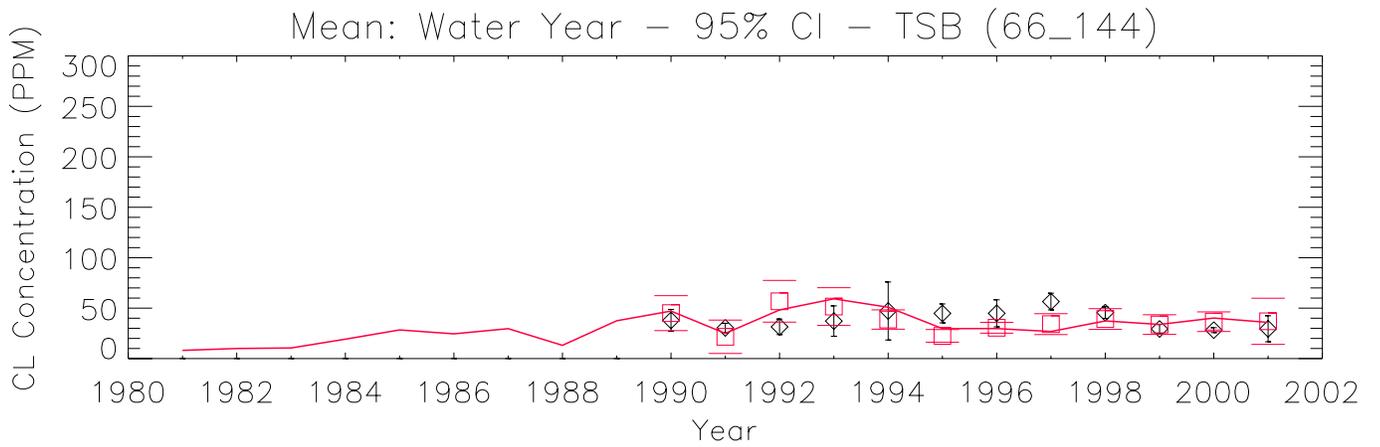
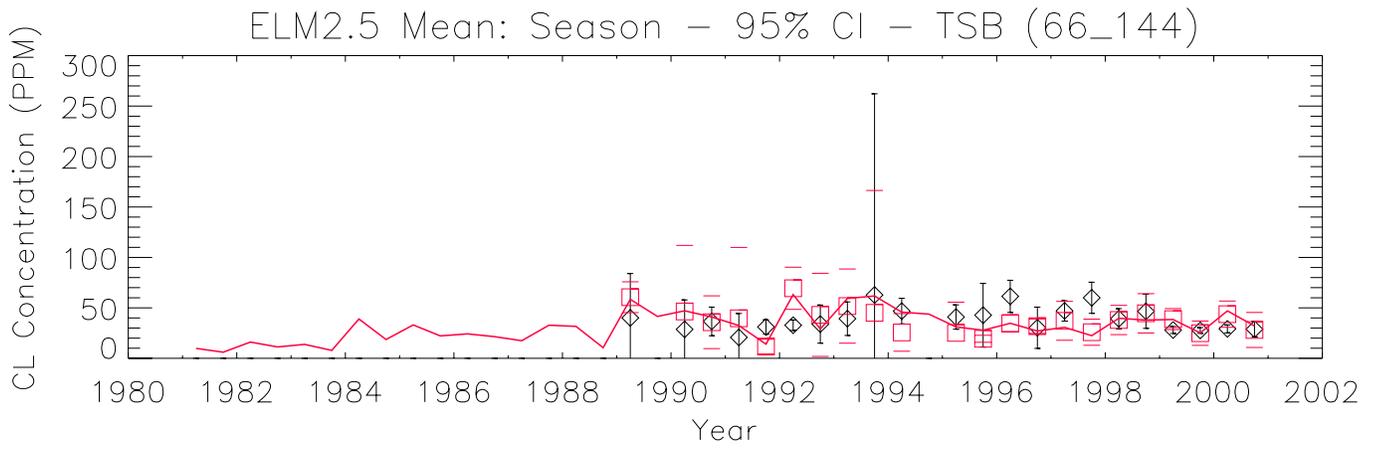


Mean: Water Year - 95% CI - P35 (40\_137)

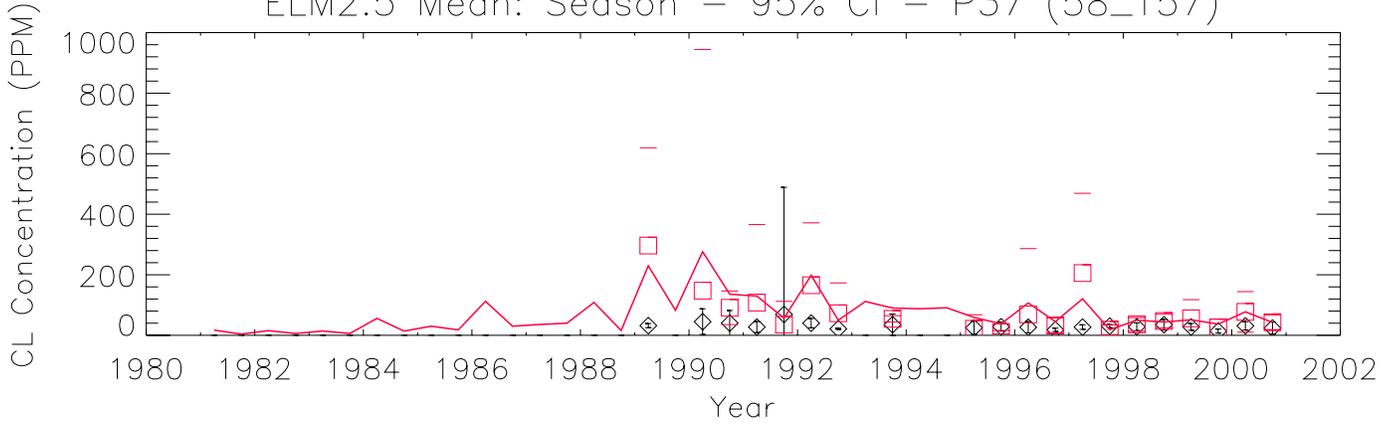


Cumulative Distribution: Raw Data - P35 (40\_137)

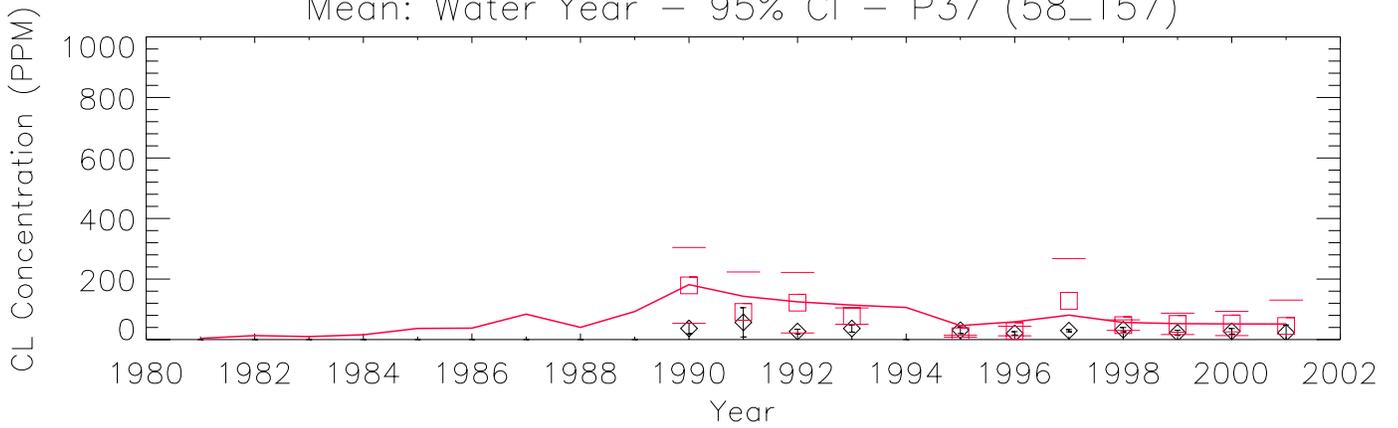




ELM2.5 Mean: Season - 95% CI - P37 (58\_157)



Mean: Water Year - 95% CI - P37 (58\_157)



Cumulative Distribution: Raw Data - P37 (58\_157)

