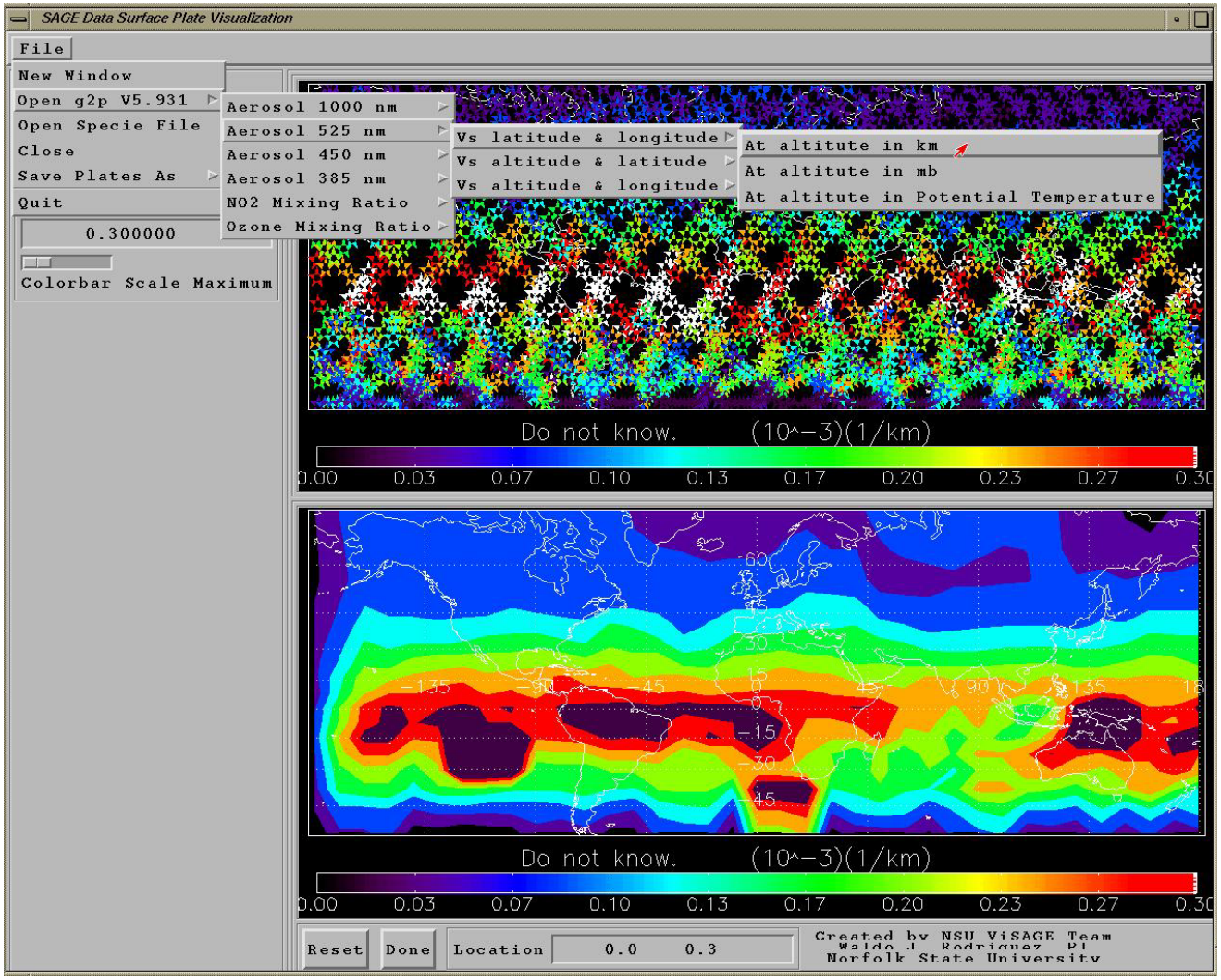
PROBLEM

Advances in technology have led to rapid and extensive data collection by satellite instruments. These instruments provide global coverage in short periods of time. The vast amounts of data collected demands user-friendly and powerful visualization tools. Visualization tools must allow for data sorting, conditioning, analysis and display in various perspectives.

SOLUTION

EZ_SAGE has been developed to fulfill this need. This visualization package fully exploits the spectral and spatial capabilities of the SAGE II instrument[1-3]. Images produced are utilized for research as well as for educational purposes.

EZ_SAGE



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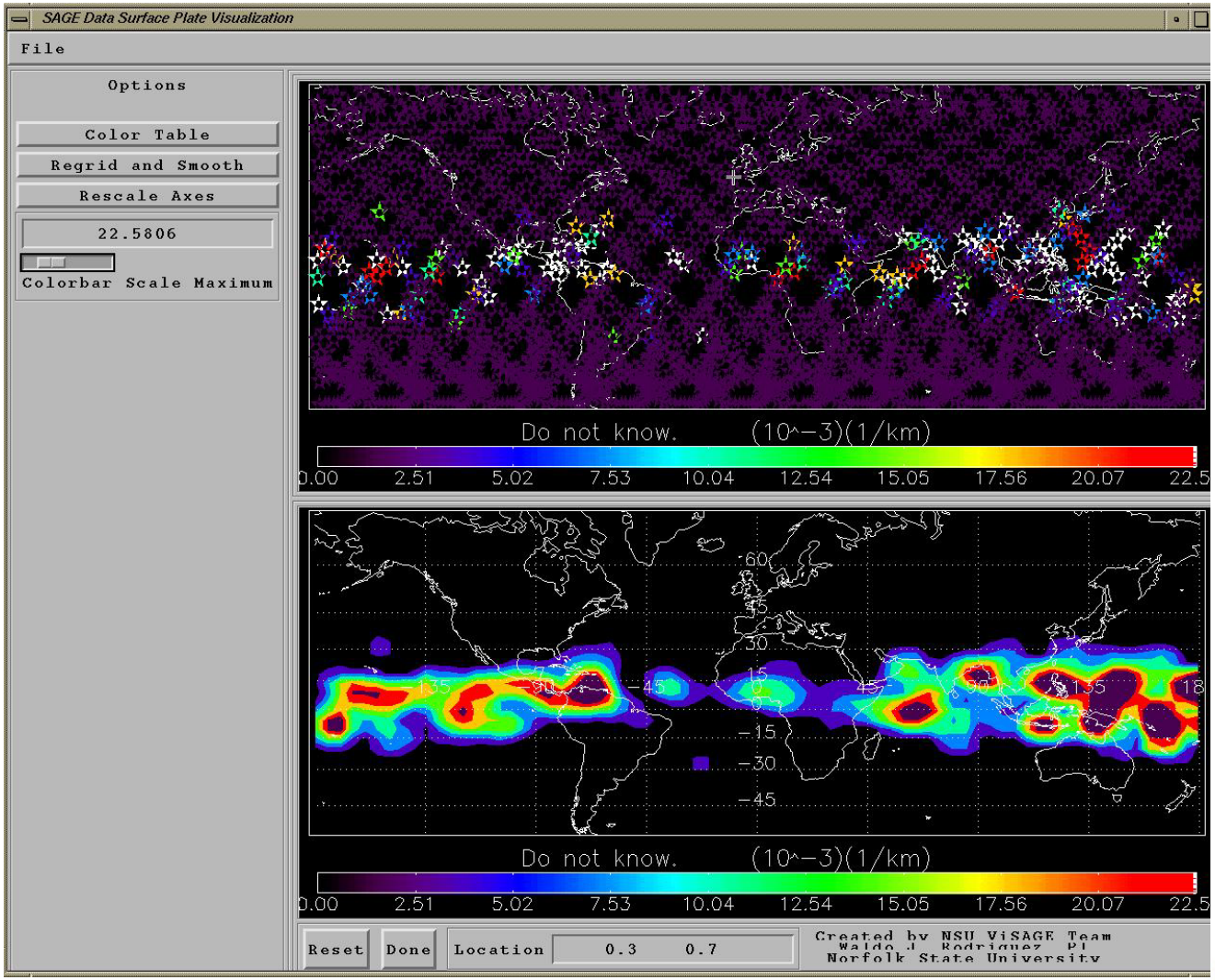
EZ_SAGE - *Colorbar Slider*



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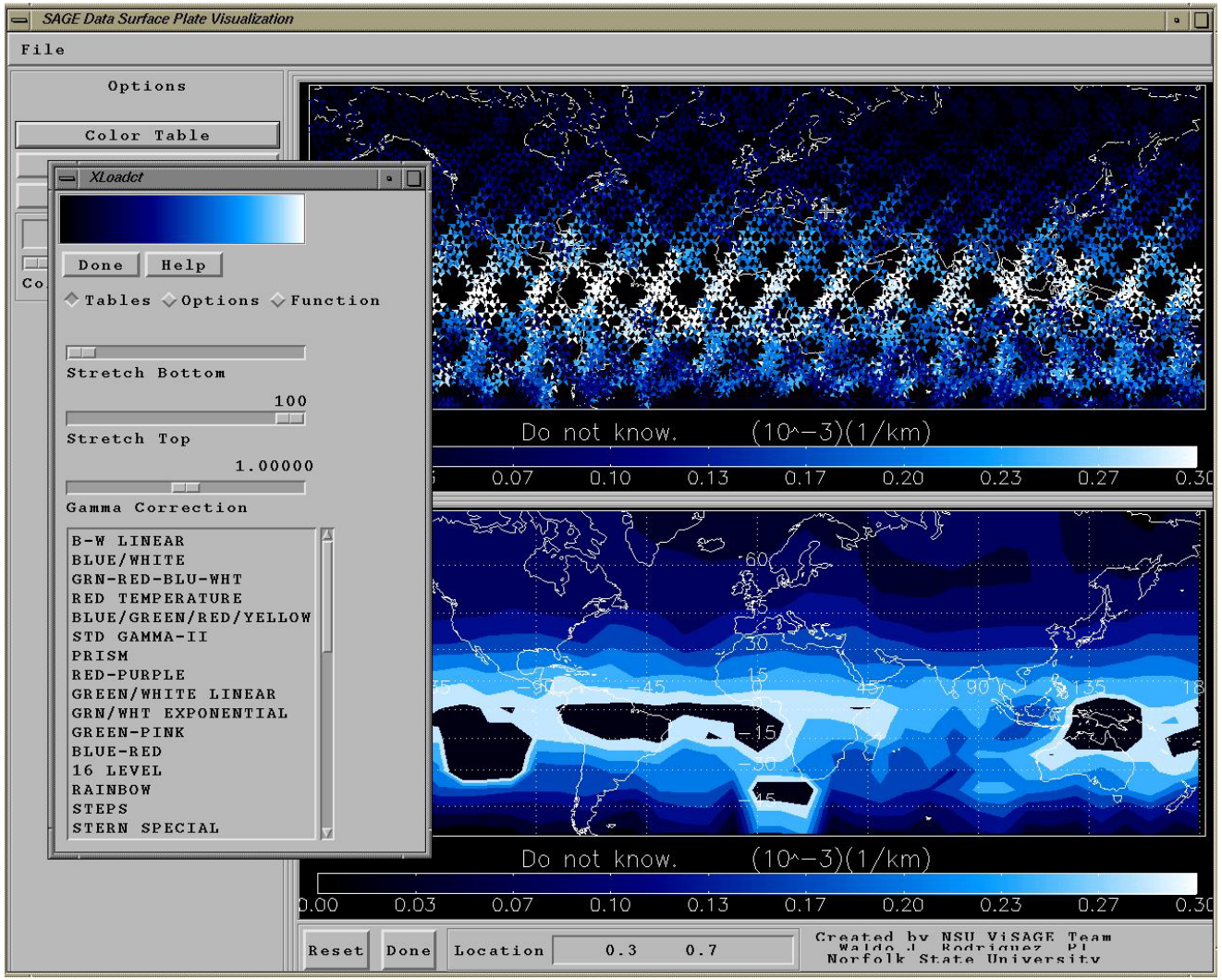
EZ_SAGE - *Color Bar*



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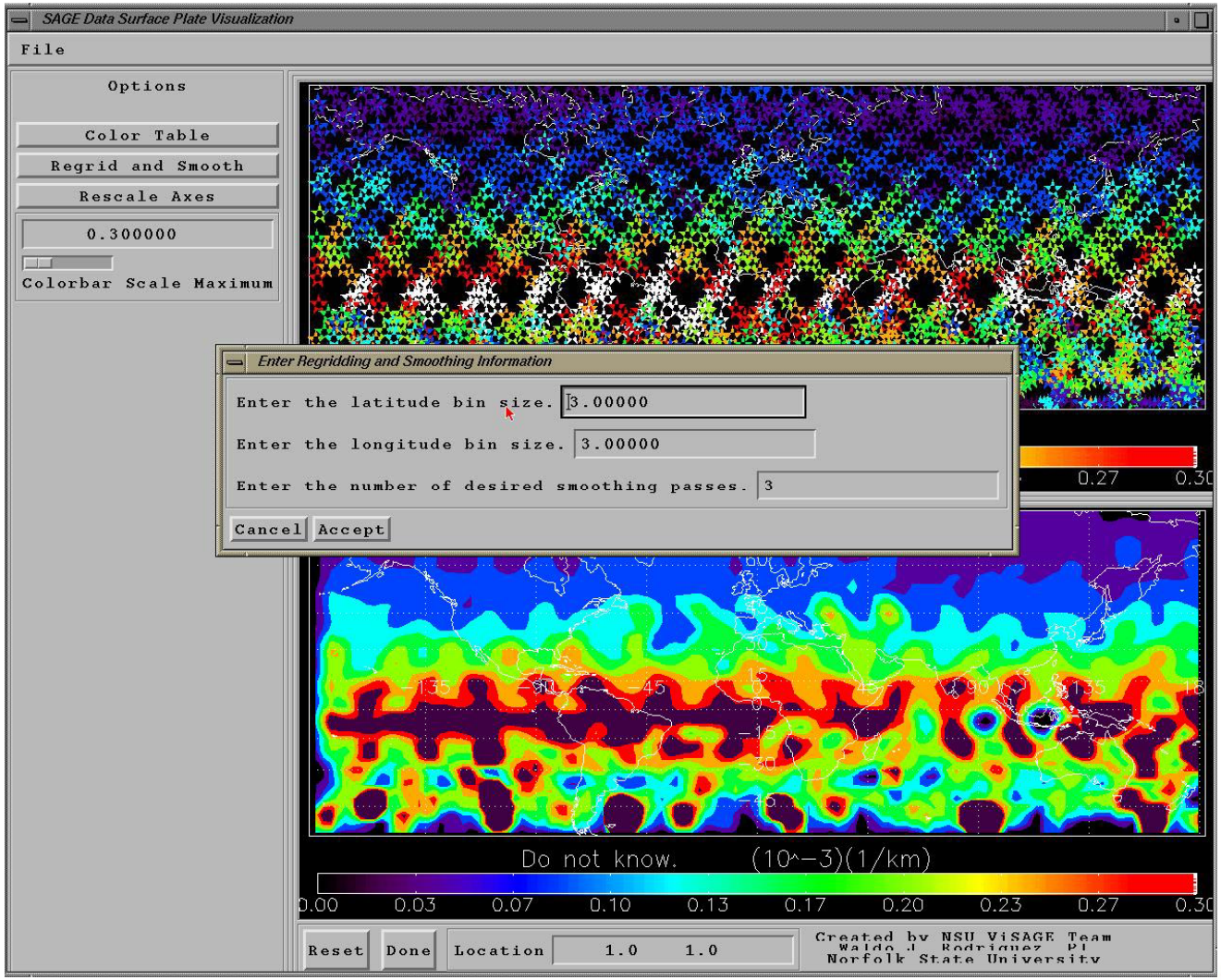
EZ_SAGE - *ReGrid & Smooth*



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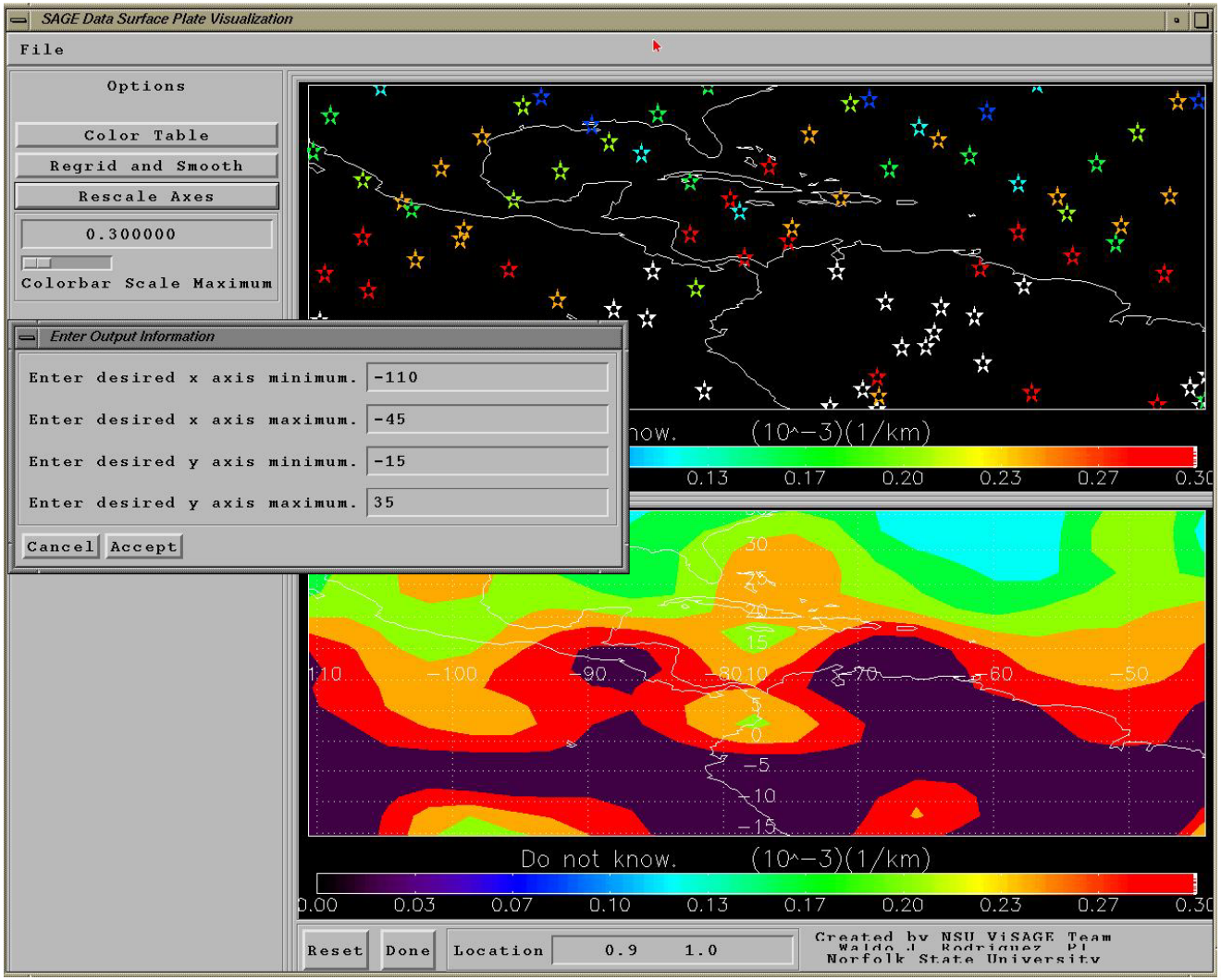
EZ_SAGE - *Rescale Axis*



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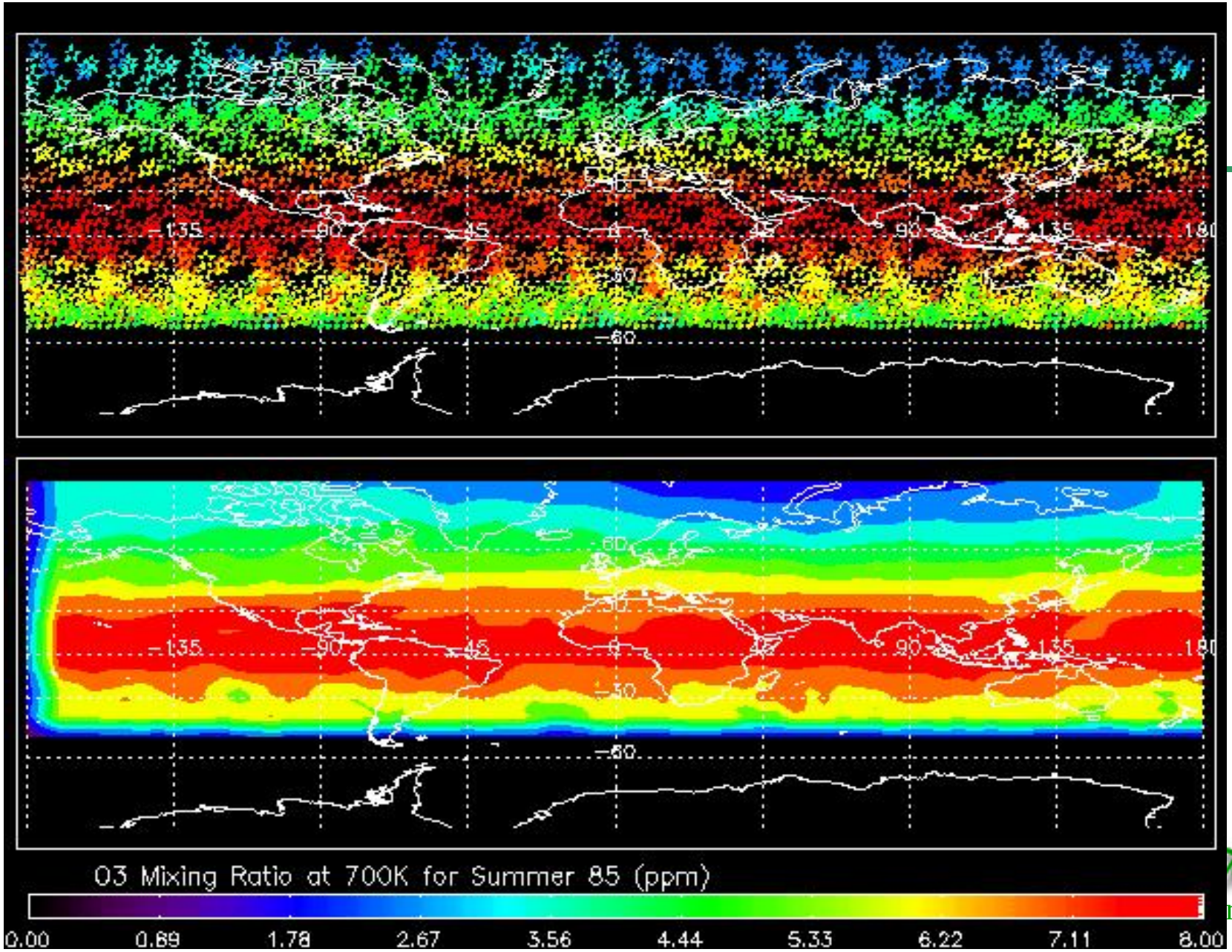
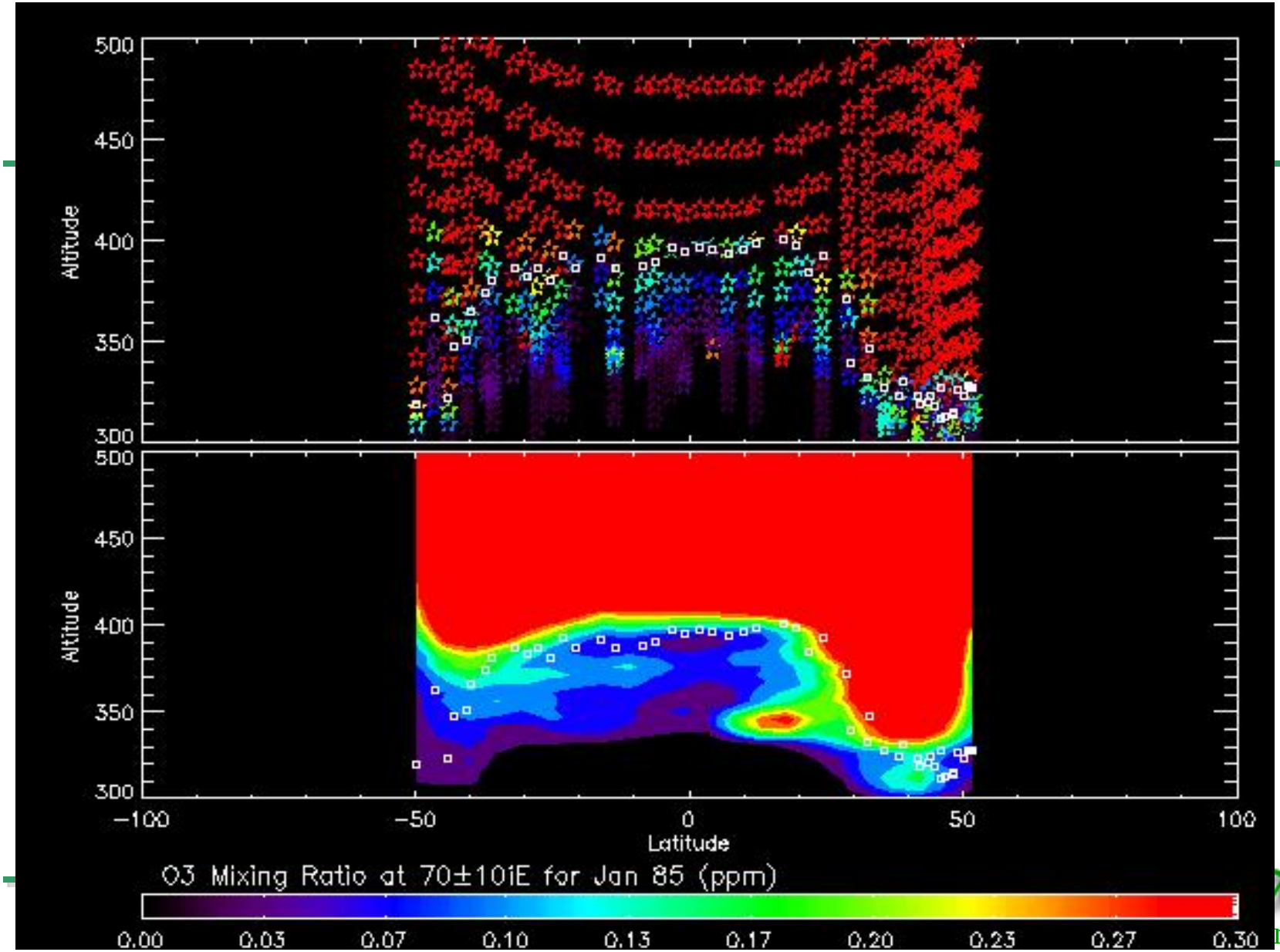
Perspectives

- EZ_SAGE allows for data viewing in three perspectives
  - Latitude vs. Longitude
  - Altitude vs. Latitude
  - Altitude vs. Longitude

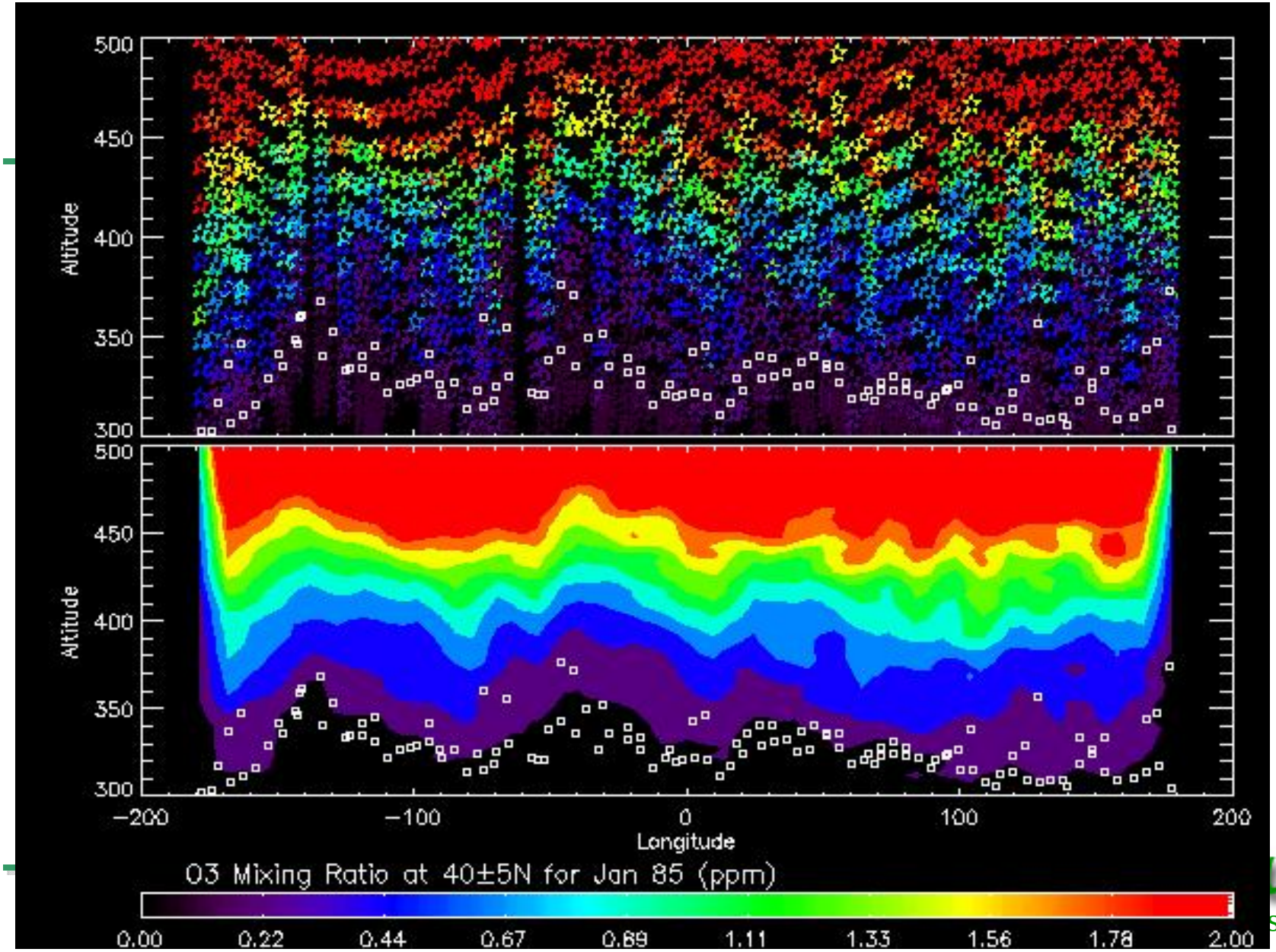
Latitude *vs.* Longitude



Altitude *vs.* Latitude



Altitude *vs.* Longitude



Conclusion

- EZ_SAGE allows a user to fully utilize the SAGE II data set in an user-friendly environment.
- The package provides all possible spatial perspectives as well as tools to enhance data interpretation.
- Researchers can focus on scientific studies and not on data conditioning difficulties.

Future Work

- Scientific Visualization
  - Incorporate routine to read SAGE III instrument data[4]
- Atmospheric Studies
  - Impacts of aerosols and bromine on global ozone depletion
  - Stratosphere-Troposphere exchange[5]

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