Principal Component (EOF) Analysis

- Purpose
  - Test for potential GEO viewing geometry artifacts
- Method
  - Analyze monthly regional TOA LW and SW Flux fields
    - (360 longitude)x(180 zones)x(36 months)
- Search for GEO artifacts in the first 10 EOF
  - Compare nonGEO with GEO
  - No GEO artifacts can be present in a climate quality dataset

Figure 10b: SW nonGEO and GEO EOF #1 - #5

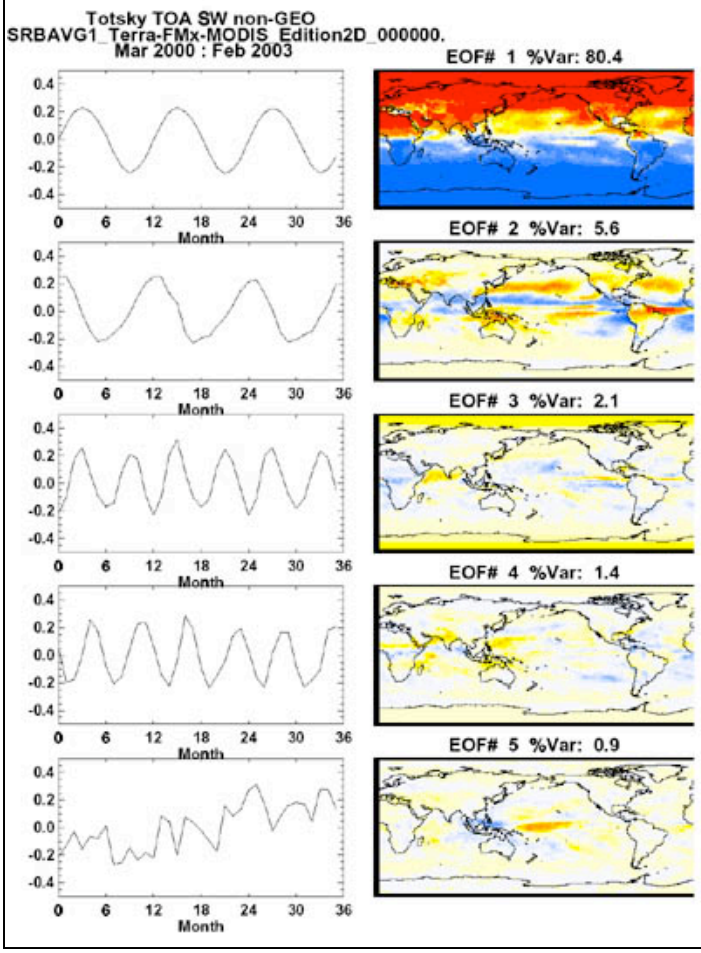
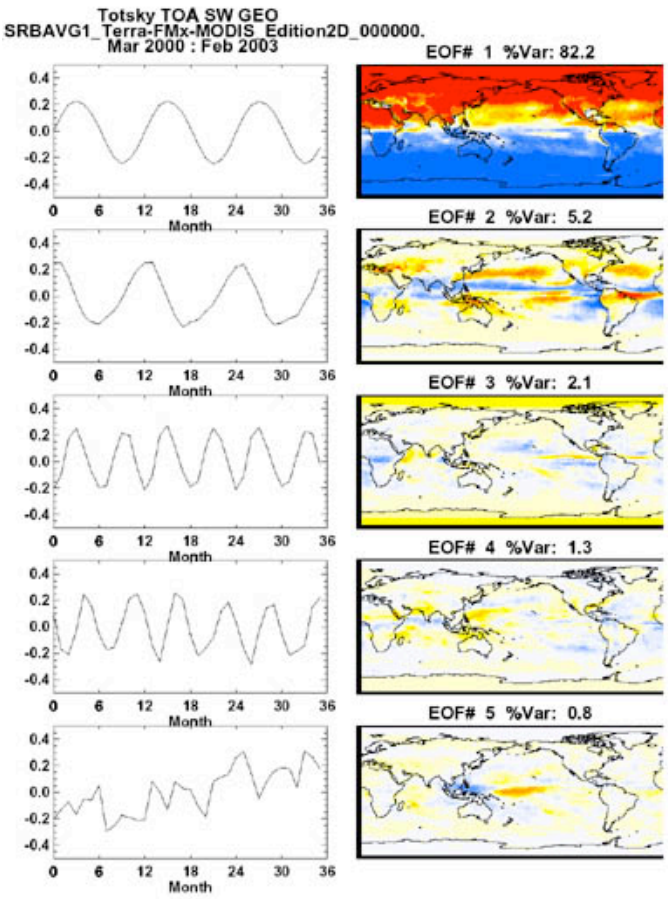
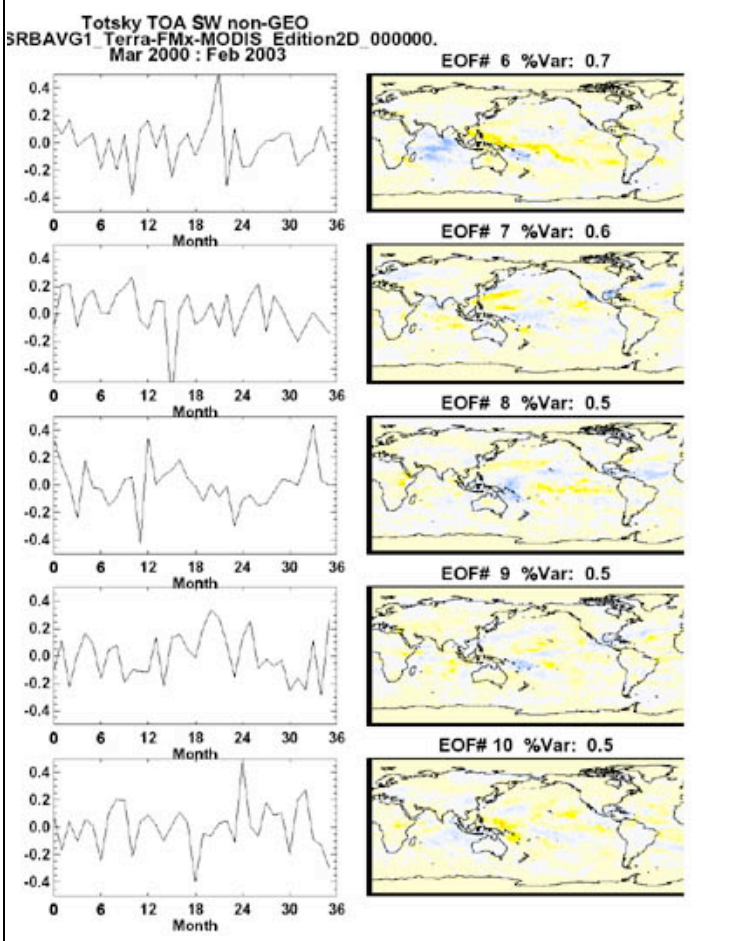
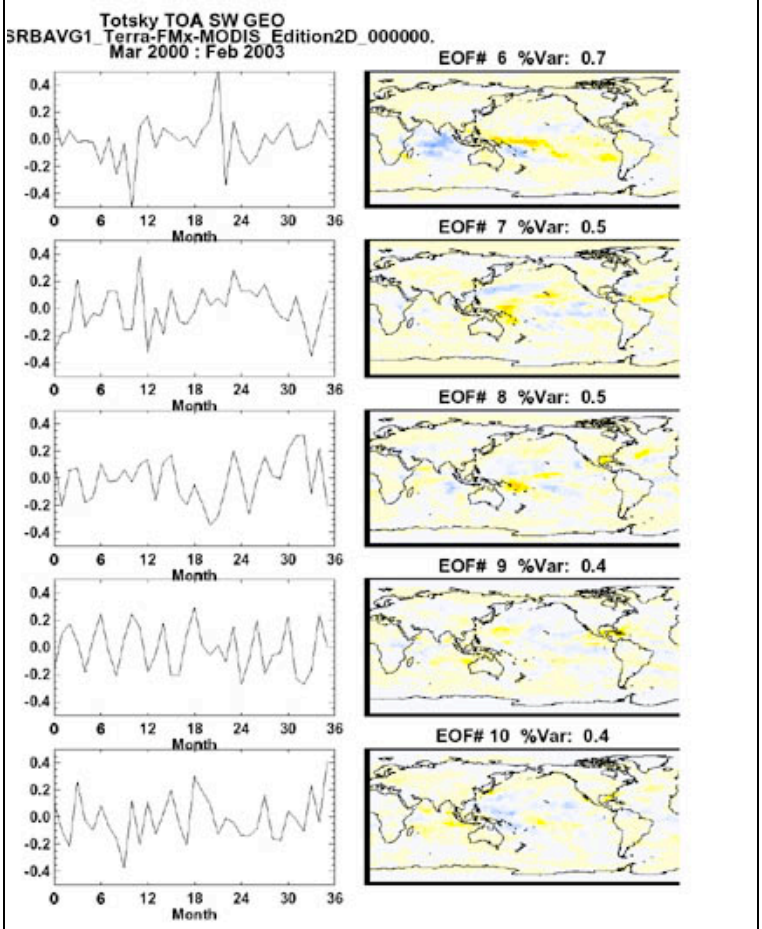
nonGEO	GEO
	

Figure 10c: SW nonGEO and GEO EOF #6 - #10

nonGEO	GEO
	

- No SW nonGEO GEO discernable differences in the first 6 EOFs

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Figure 10d: LW nonGEO and GEO EOF #1 - #5

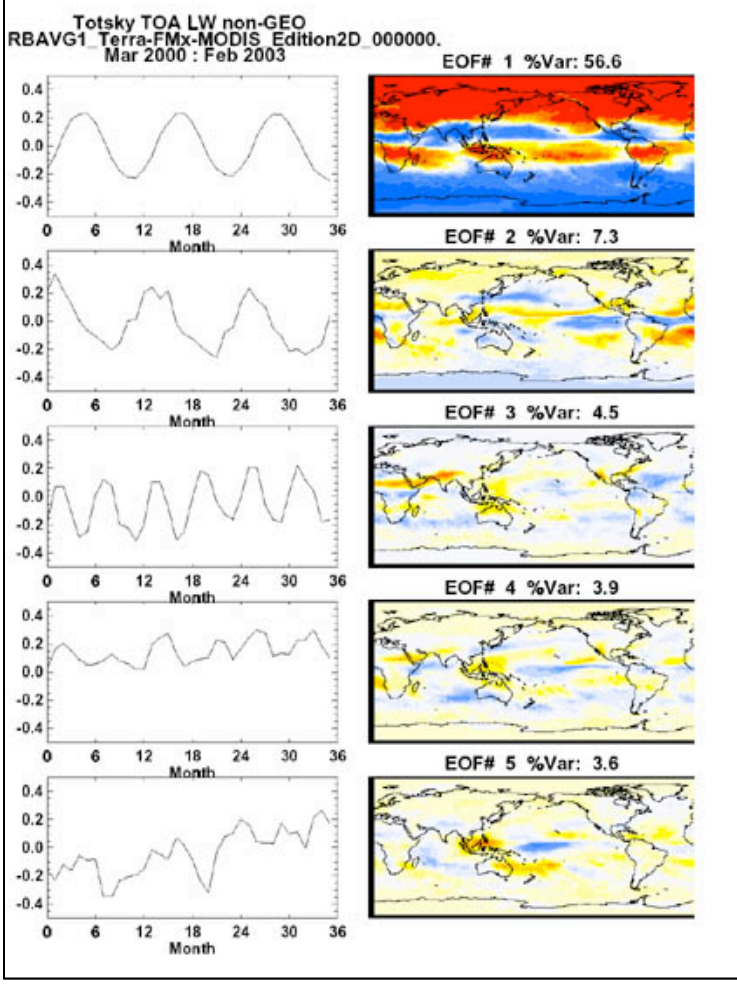
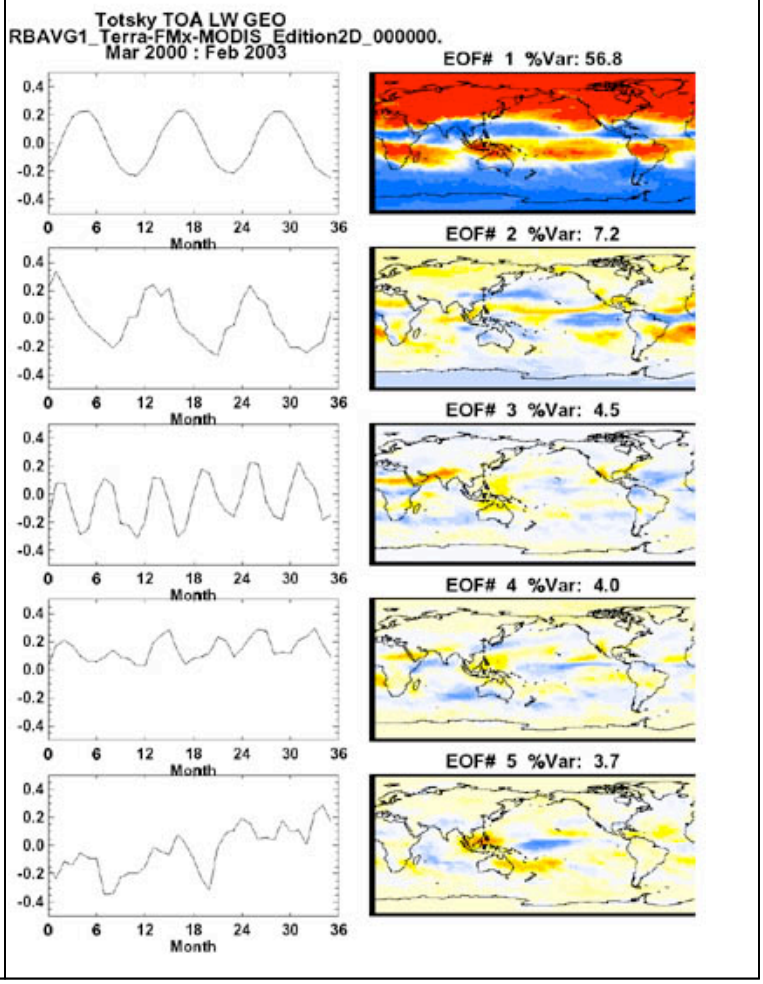
nonGEO	GEO
	

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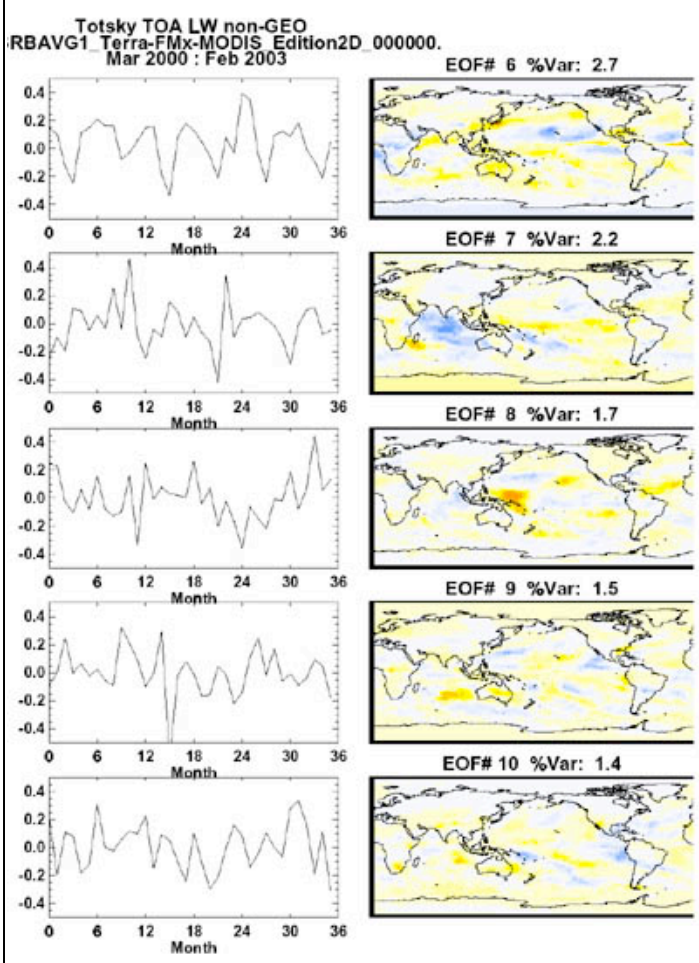
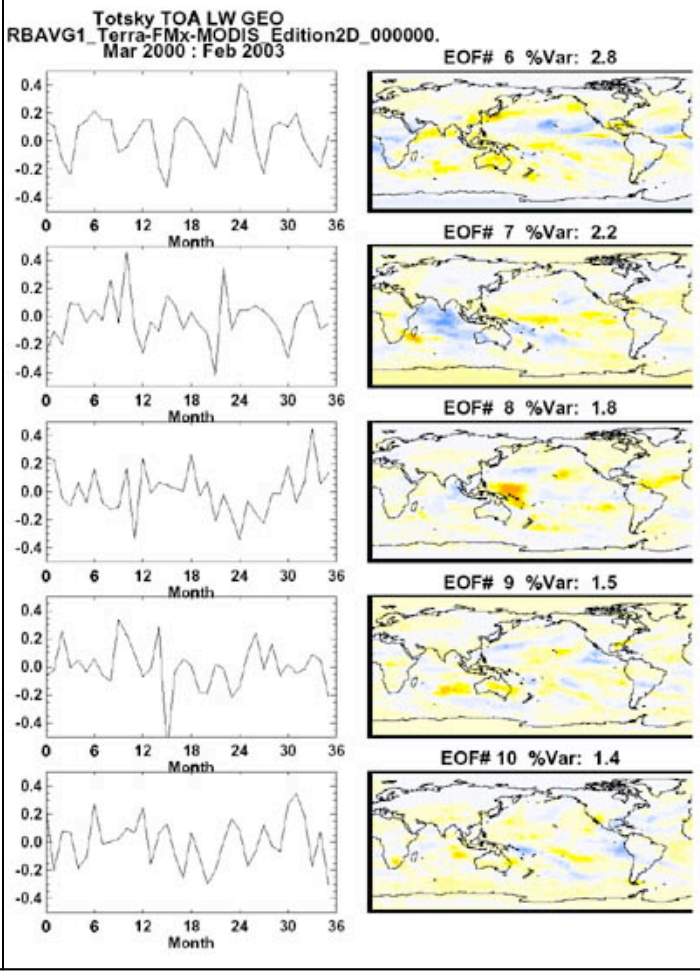
Figure 10e: LW nonGEO and GEO EOF #6 - #10

nonGEO	GEO
	

- No LW nonGEO GEO discernable differences in the first 10 EOFs
- No SW or LW GEO artifacts observed in the first 10 EOFs