

Supplementary File 1

Period	Filterers	Ephemeroptera	Chironomidae	NCO_Richness	NCO	Biomass
Pre-NA	0.6421	0.6456	0.1079	0.1721	0.3811	0.0999
Post-NA	0.8387	0.0721	0.2457	0.5077	0.9053	0.3748

Table 1: Pre and Post-nutrient addition (Pre-NA; Post-NA) NMF scores for the Lower River Zone.

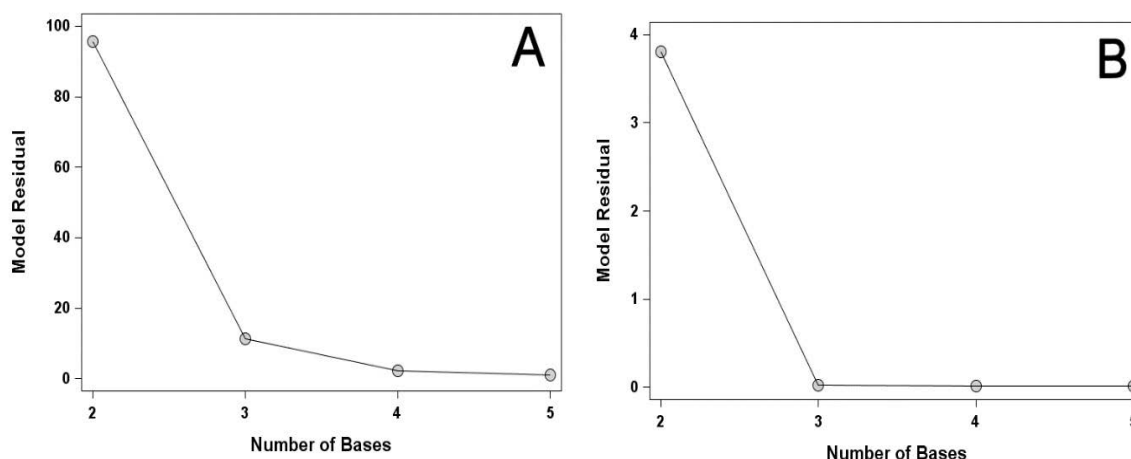


Figure 1: NMF residual scree plots for the Lower River Zone in the A) Pre and B) Post-nutrient addition periods.

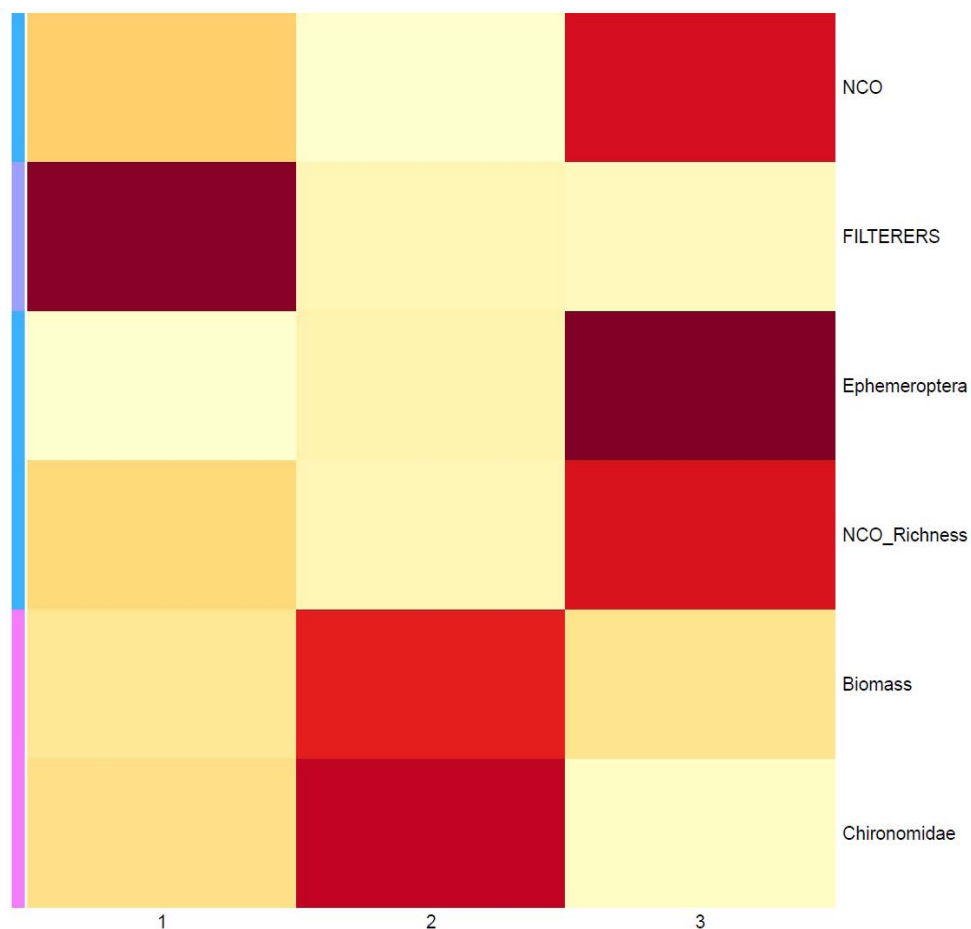
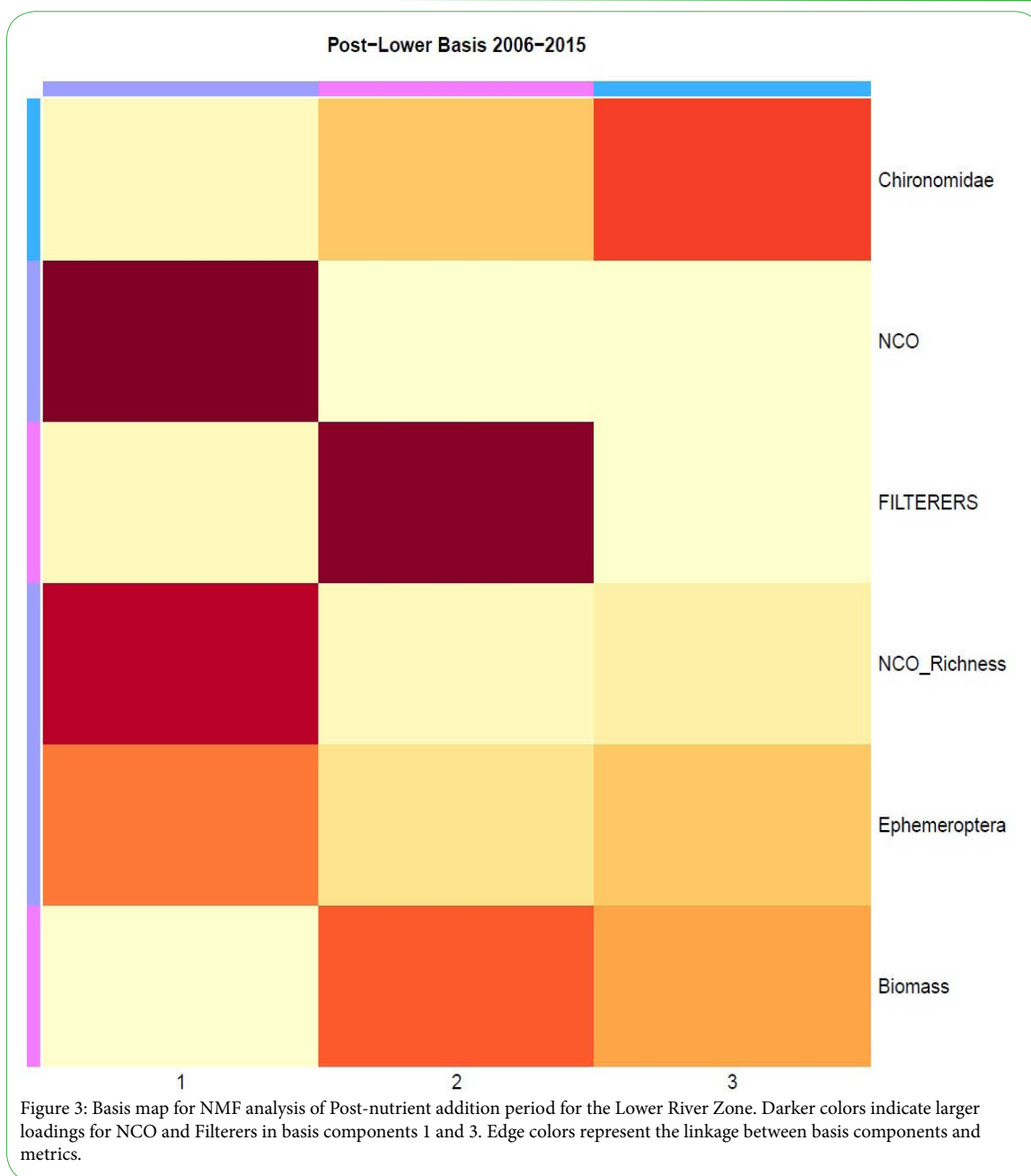


Figure 2: Basis map for NMF analysis of Pre-nutrient addition period for the Lower River Zone. Darker colors indicate larger loadings for Ephemeroptera and Filterers in basis components 1 and 2. Edge colors represent the linkage between basis components and metrics.



Supplementary File 2

Period	Filterers	Ephemeroptera	Chironomidae	NCO_Richness	NCO	Biomass
Pre-NA	0.3793	0.2539	0.7087	0.0887	0.0326	0.4952
Post-NA	0.5362	0.3072	0.8615	0.0433	0.3239	0.0003

Table 2: Pre and Post-nutrient addition (Pre-NA; Post-NA) NMF scores for the Upper River Zone.

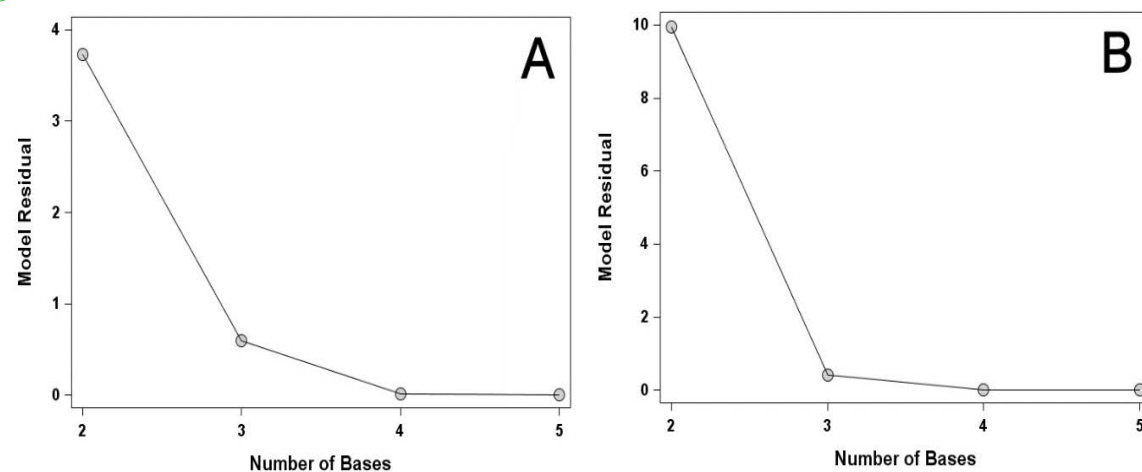


Figure 4: NMF residual scree plots for the Upper River Zone in the A) Pre and B) Post-nutrient addition periods.

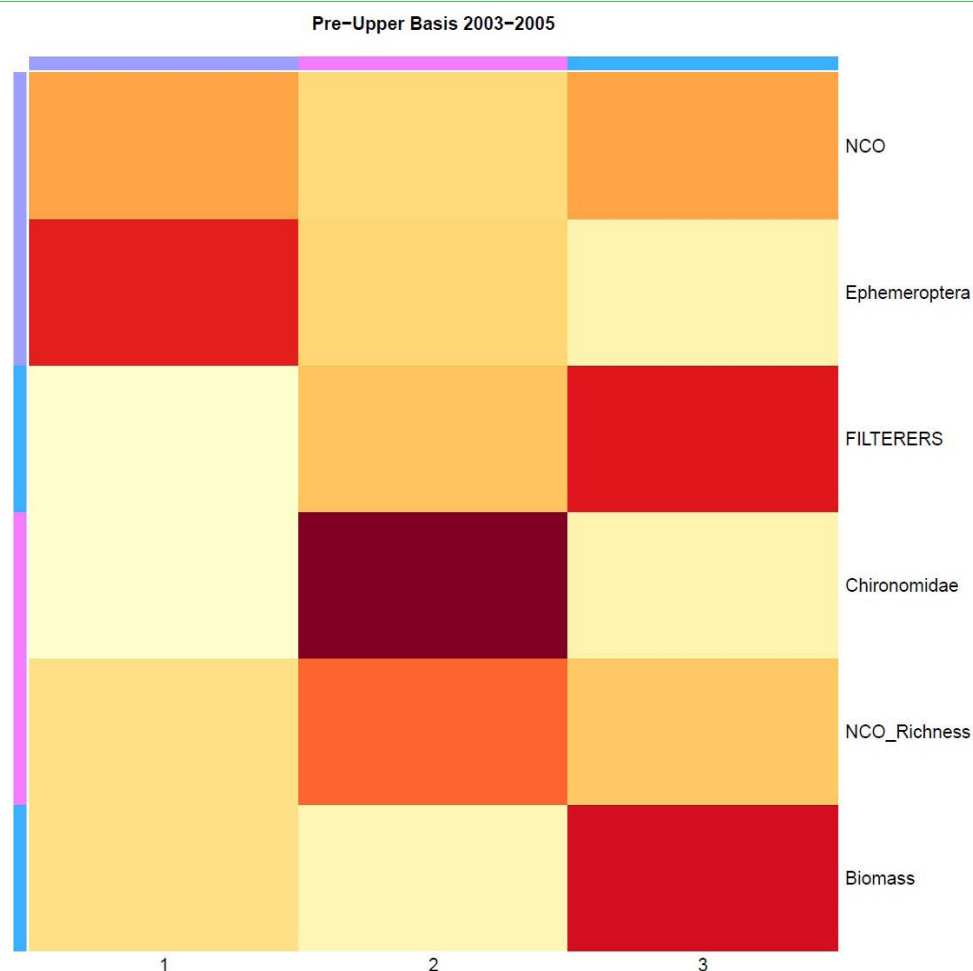


Figure 5: Basis map for NMF analysis of Pre-nutrient addition period for the Upper River Zone. Darker colors indicate larger loadings for Biomass, Filterers, Ephemeroptera, and Chironomidaein basis components 1, 2, and 3. Edge colors represent the linkage between basis components and metrics.

