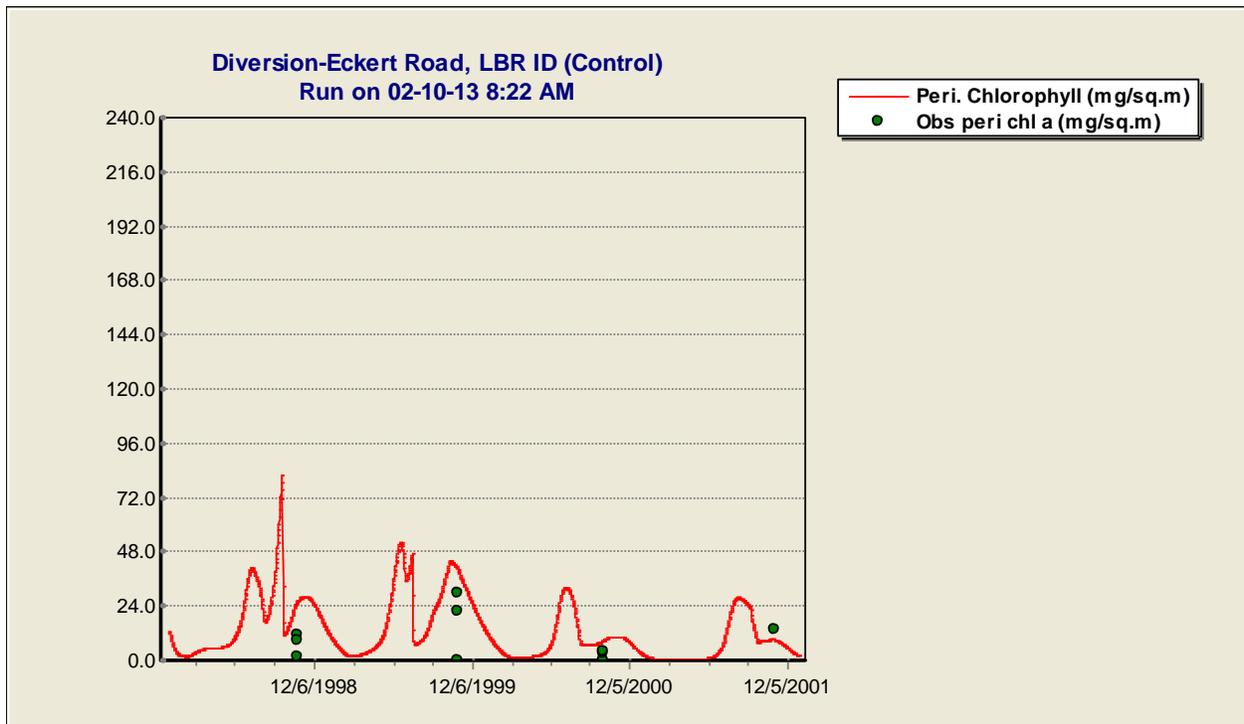LBR Div-Glen-Midd-Parma MN prms.als, four studies run as separate studies without linkage but sharing parameter files. Parameter values were those obtained and published in MN project.
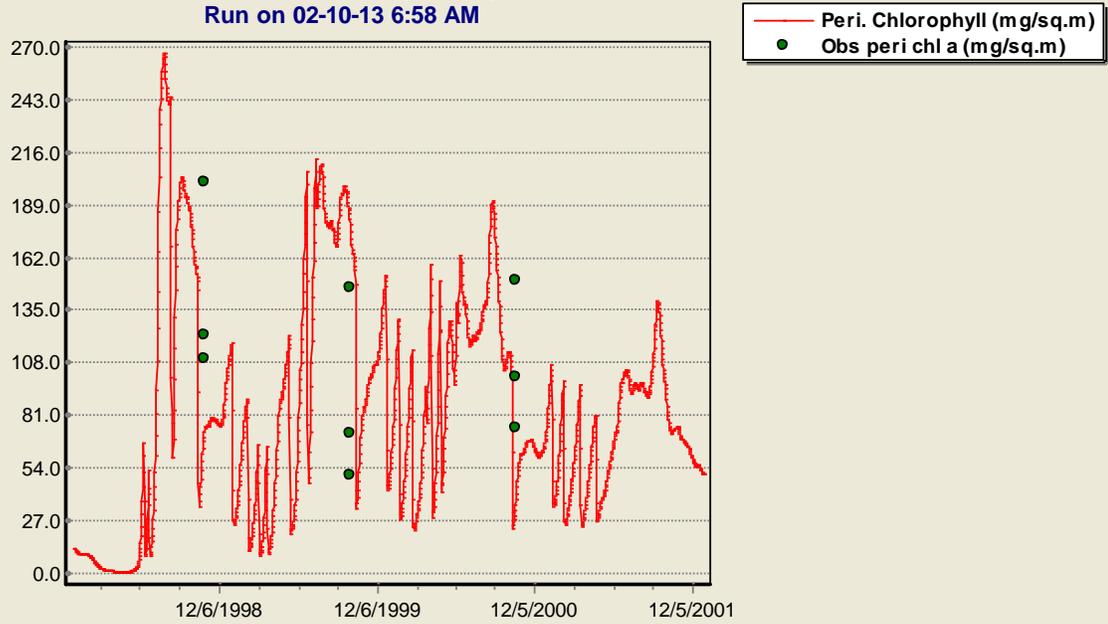
Added Brown Trout on 2/10/2013, replaced %Refractory 20→60% (required because of an improvement in the code), and re-ran with Release 3.1 with no calibration. Runtime was 58 minutes on very fast machine. Ran again with new parallel processing in 19 minutes. Results were very good for all four sites.

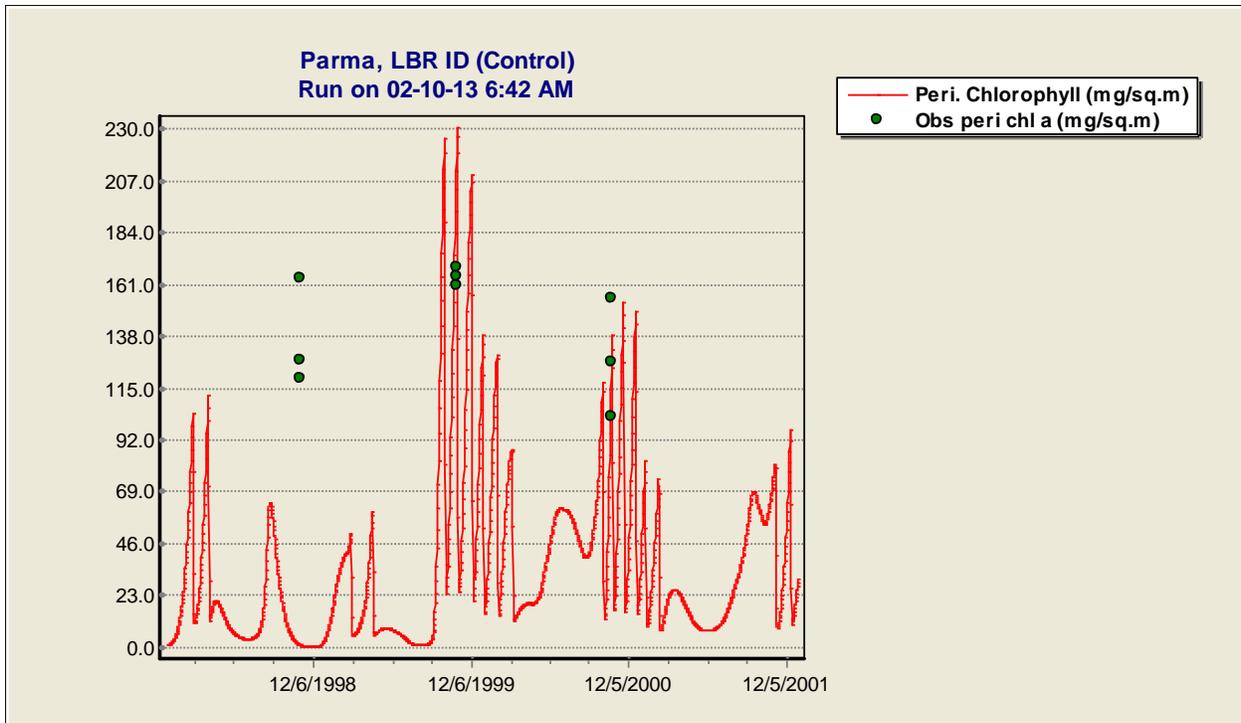**Glenwood Br, LBR ID (Control)**
Run on 02-10-13 6:27 AM

Legend: Peri. Chlorophyll (mg/sq.m) — Obs peri chl norm (mg/sq.m)
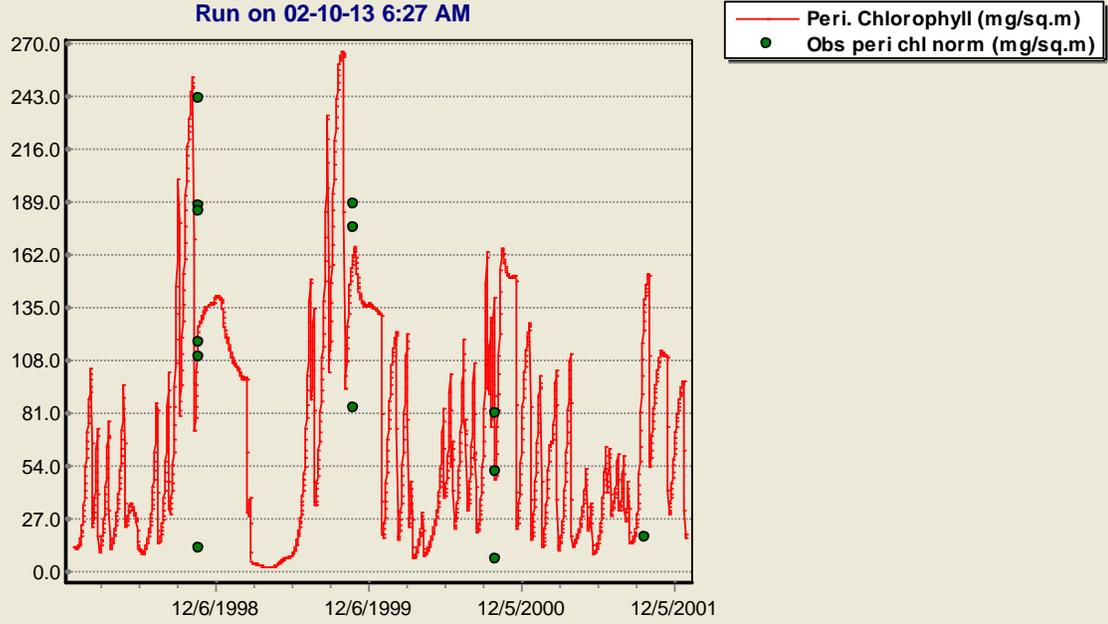
Middleton, LBR ID (Control)
Run on 02-10-13 6:58 AM

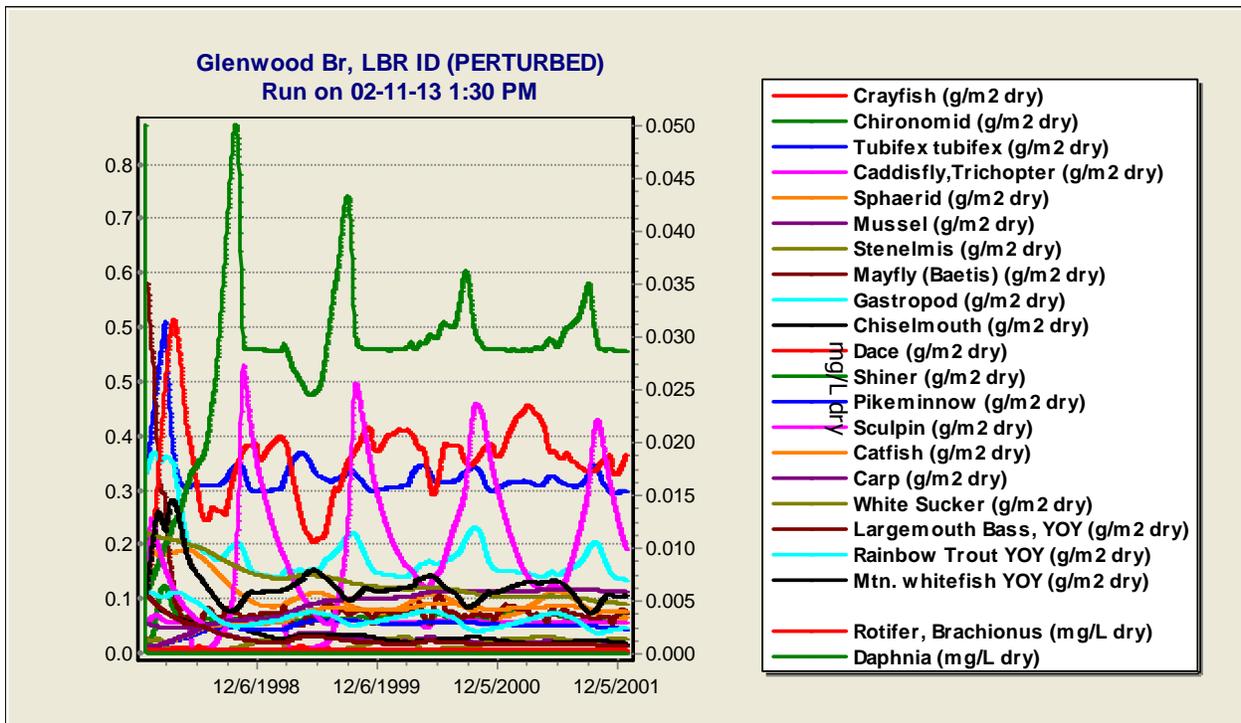Legend: Peri. Chlorophyll (mg/sq.m) — Obs peri chl a (mg/sq.m)
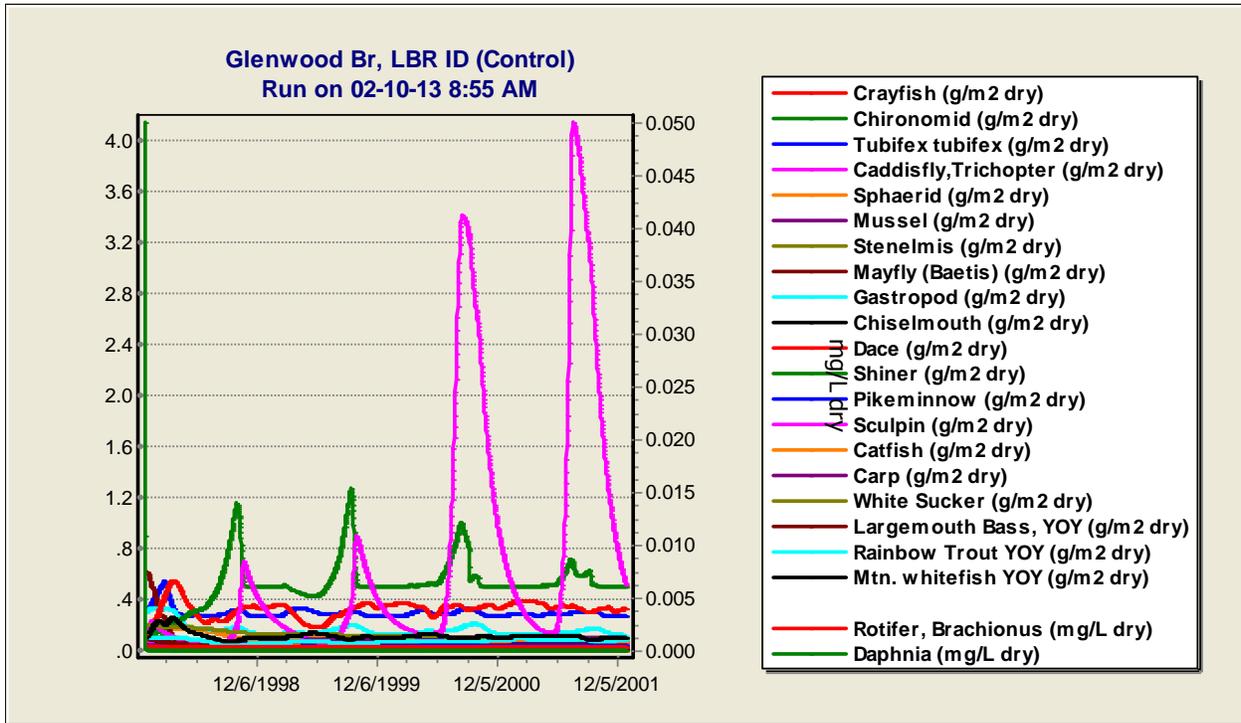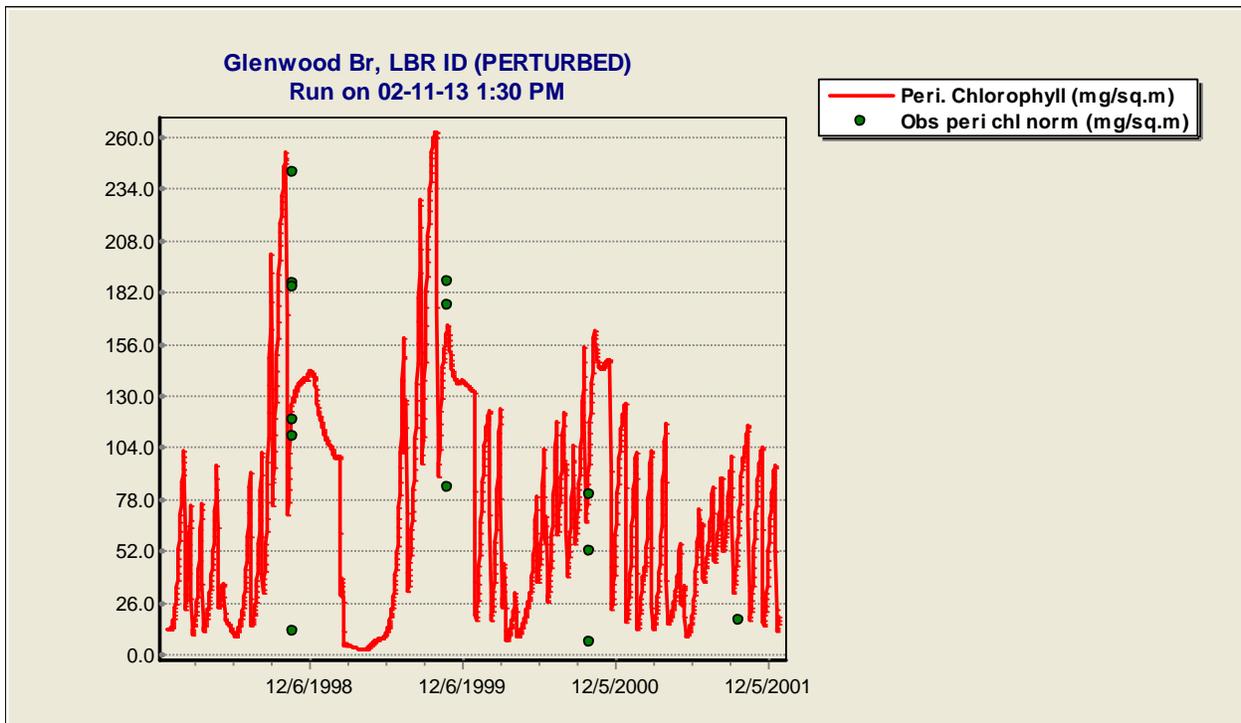
Parma, LBR ID (Control)
Run on 02-10-13 6:42 AM

I was a little dubious of the high sculpin biomass, so I adjusted the feeding preferences according to the literature, and got good results:

Glenwood Br, LBR ID (PERTURBED)
Run on 02-11-13 1:30 PM

Compared to:

Glenwood Br, LBR ID (Control)
Run on 02-10-13 8:55 AM

Legend:
- Crayfish (g/m2 dry)
- Chironomid (g/m2 dry)
- Tubifex tubifex (g/m2 dry)
- Caddisfly,Trichopter (g/m2 dry)
- Sphaerid (g/m2 dry)
- Mussel (g/m2 dry)
- Stenelmis (g/m2 dry)
- Mayfly (Baetis) (g/m2 dry)
- Gastropod (g/m2 dry)
- Chiselmouth (g/m2 dry)
- Dace (g/m2 dry)
- Shiner (g/m2 dry)
- Pikeminnow (g/m2 dry)
- Sculpin (g/m2 dry)
- Catfish (g/m2 dry)
- Carp (g/m2 dry)
- White Sucker (g/m2 dry)
- Largemouth Bass, YOY (g/m2 dry)
- Rainbow Trout YOY (g/m2 dry)
- Mtn. whitefish YOY (g/m2 dry)
- Rotifer, Brachionus (mg/L dry)
- Daphnia (mg/L dry)

It made little difference in the overall periphyton results.

Glenwood Br, LBR ID (PERTURBED)
Run on 02-11-13 1:30 PM

Legend:
- Peri. Chlorophyll (mg/sq.m)
- Obs peri chl norm (mg/sq.m)

Likewise, periphyton were not affected much at Eckert, although sculpin no longer dominated the animals.