

Lake Metabolism Working Group

GLEON 8 notes

Who

- Paul Hanson, Susan Hendricks (moderators)
- Denise Bruesewitz, Julita Dunalska, Zhenqwen Liu, Boping Han, Ami Nishri, Matthew Hipsey, Tiina Noges, Chris Solomon, Kevin Rose, Darren Bade, Bill Perry

Progress

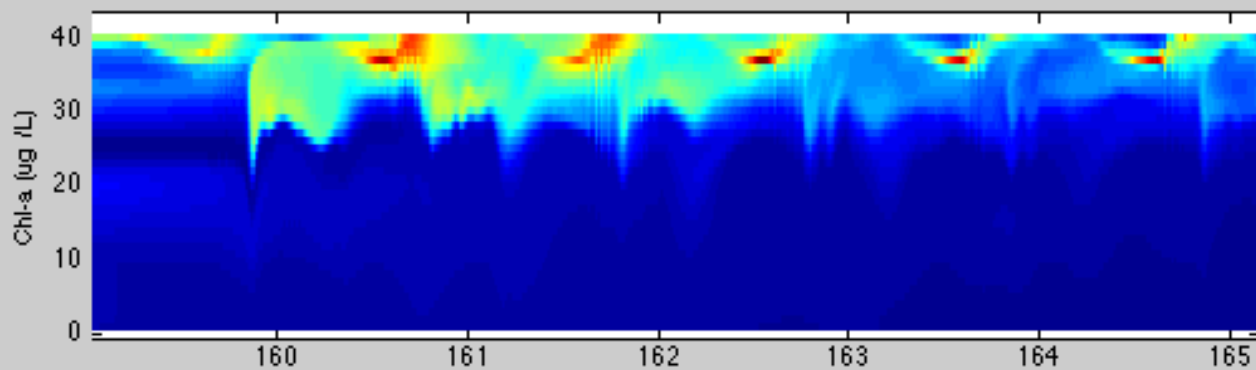
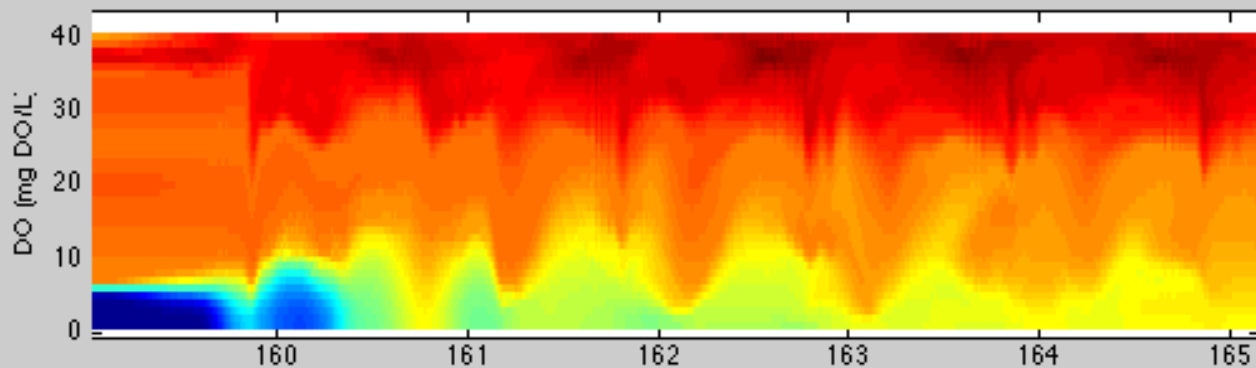
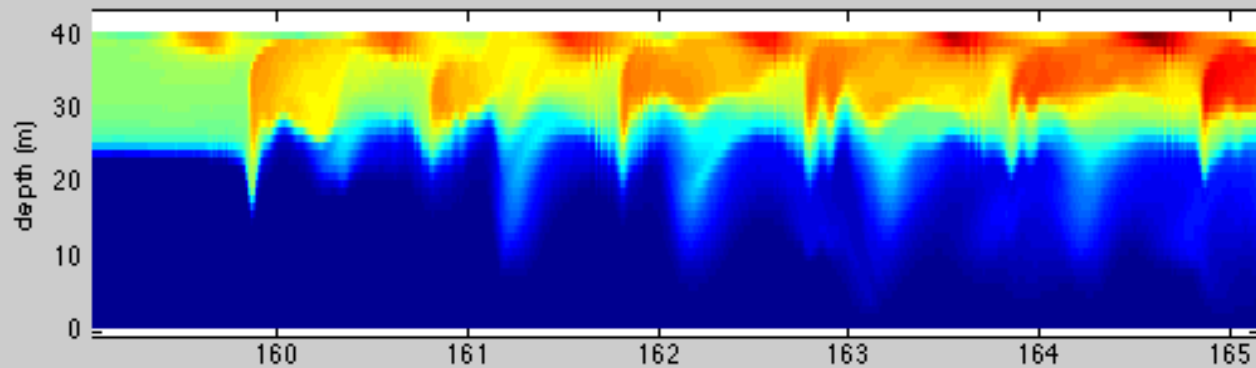
- Background discussion, updates from GLEON 7
- Metabolism discussion of parameters, assumptions (Future Outcome: sharing of “best practices” paper)
- Modeling for lake metabolism
- GPP/R variation projects

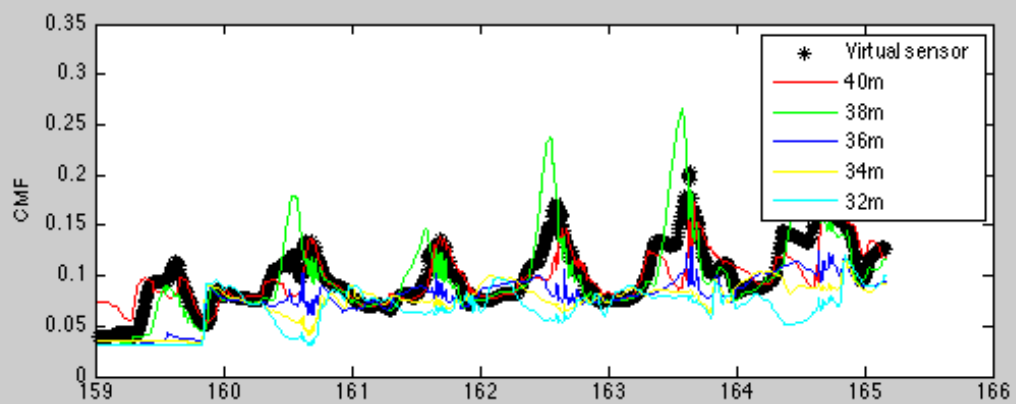
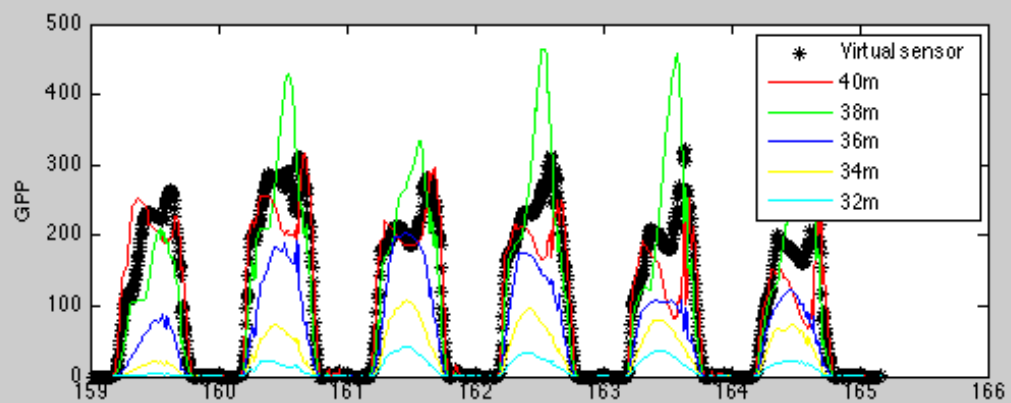
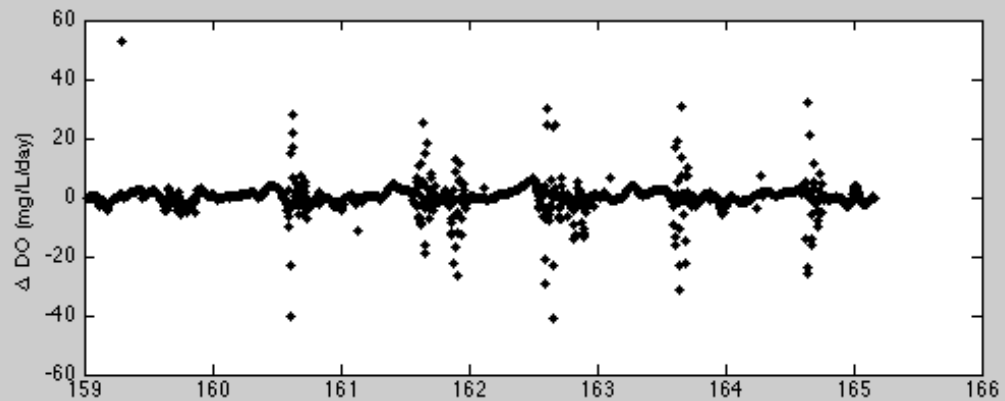
Project Descriptions

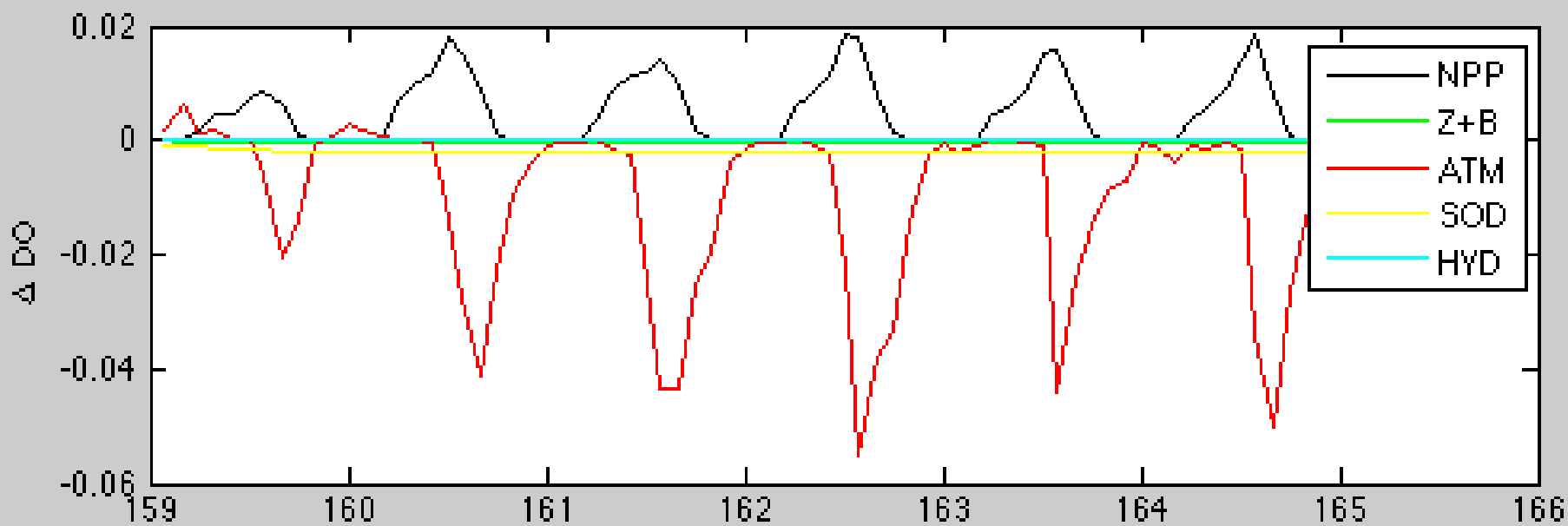
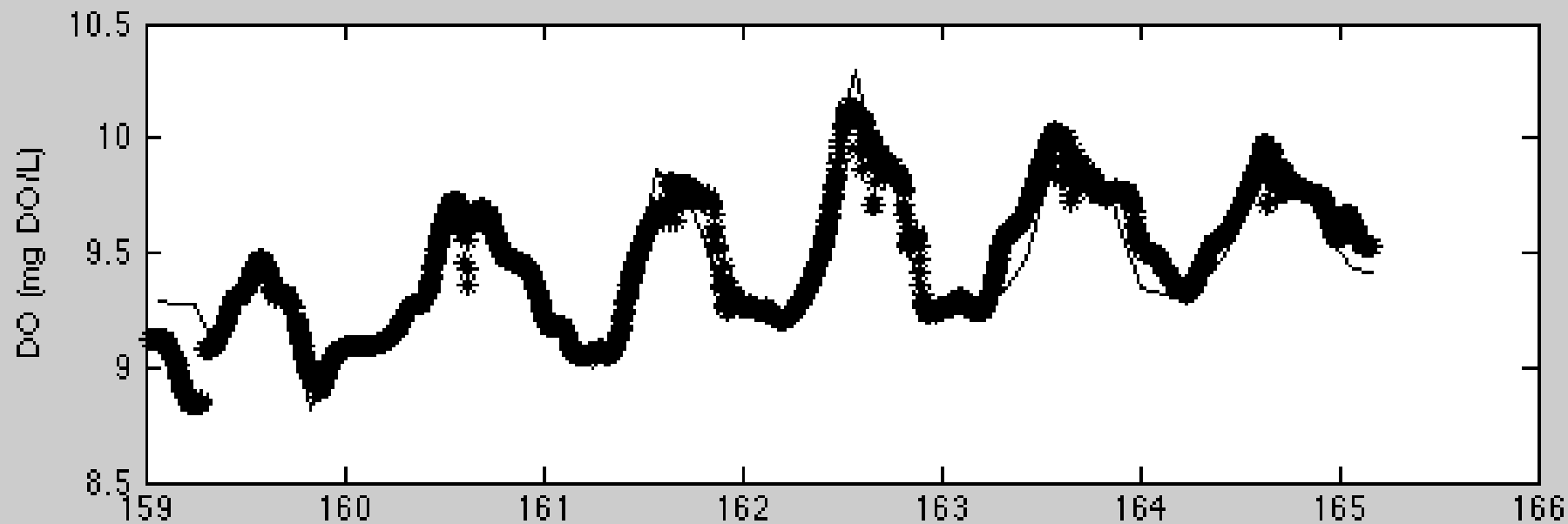
- Variation in GPP/R
 - Goal: analyzed lake metabolism data for discussion available at GLEON 9
 - Collection of potential driver data
 - Leaders: Chris, Kevin, Denise, Julita
 - Involvement and data request email to immediately follow meeting

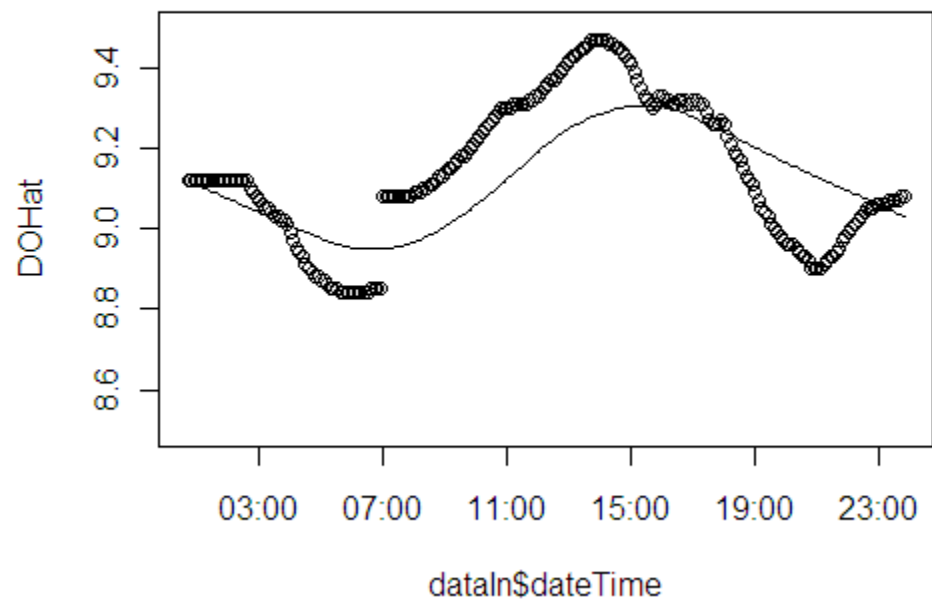
Modelling of Lake Metabolism

- What assumptions are implicit when oxygen data from a specific depth is used to estimate whole lake metabolism?
- Modelling approach may be a useful method of future analyses
- Use high resolution models to upscale single point estimates of lake metabolism
- Useful to explore assumptions analysis technique (eg. atmospheric flux; respiration)
- Project needs data to inform models
- Leaders: Darren Bade, Matt Hipsey
- Goal: project update at “Cool Things” session at GLEON 9
- Potential methods paper









From Lake Metabolism Analysis:

- Res = 0.73 mgDO/L/day \sim 0.07 /day
- GPP = ??
- Atm = 0.00071 mg/L/day