

**RESPONSE TO FEBRUARY 16, 2018 REQUEST FOR ADDITIONAL  
INFORMATION, RESOURCE AGENCY LATE FILING, AND  
OTHER RELATED INFORMATION**

**ATTACHMENT B**

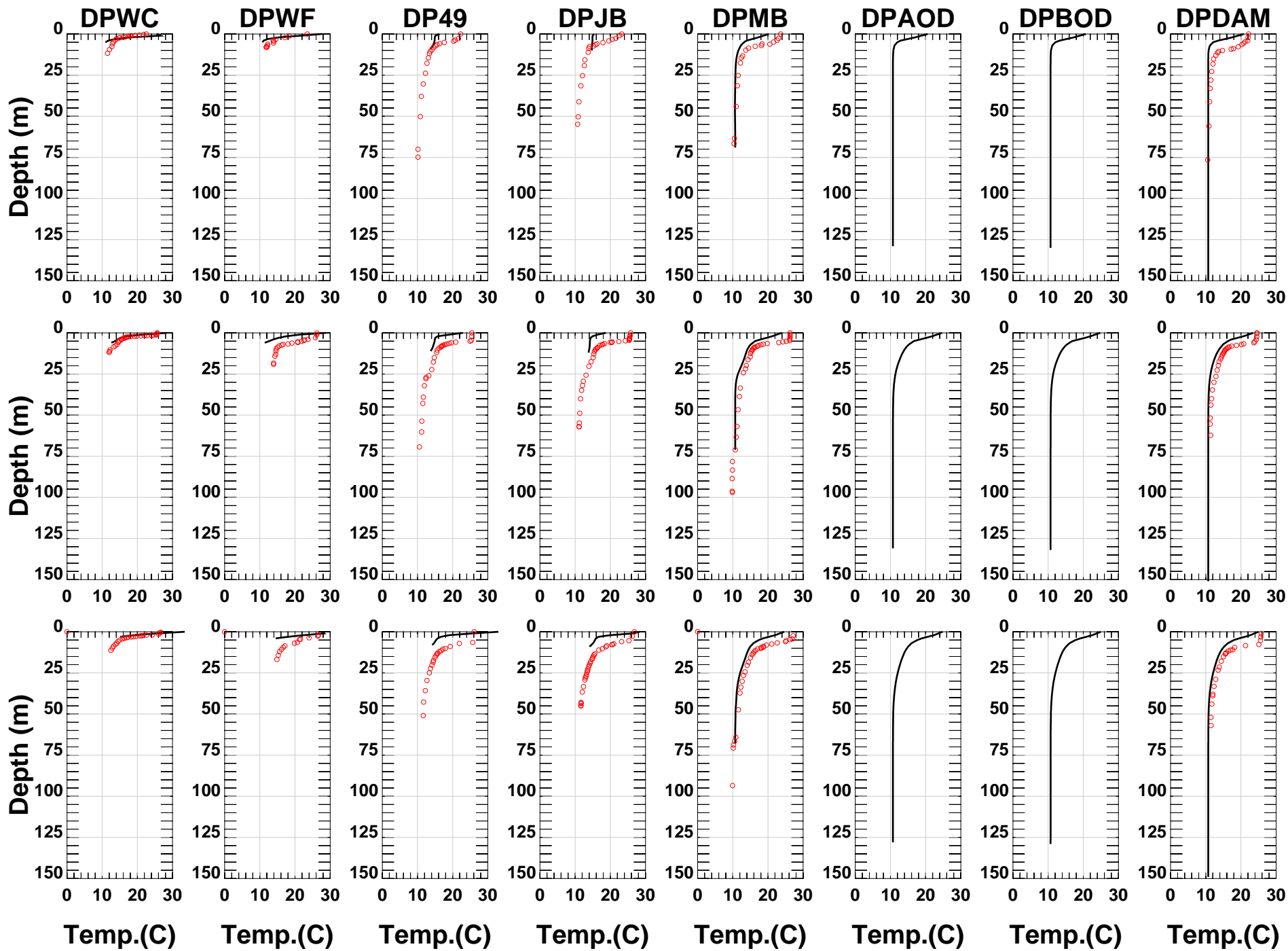
**DON PEDRO RESERVOIR TEMPERATURE MODEL  
CALIBRATION VERIFICATION**

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## **Don Pedro Reservoir Temperature Model Calibration Verification**

A model update was provided for the MIKE3 model by the Danish Hydraulic Institute (DHI) in 2016. This version of MIKE3 included the parameter of solar radiation built directly into the model. Applying the updated version necessitated model recalibration. On May 18, 2017, the Districts conducted a Workshop where changes to each of the original five simulation models, subsequent to the original model developments, were shared with relicensing participants and discussed. This meeting was documented and the presentations made available, as were copies of the updated models to all interested parties. The MIKE3 modification and recalibration was one of the model updates presented, and the MIKE3 modification resulting from the DHI upgrade was presented.

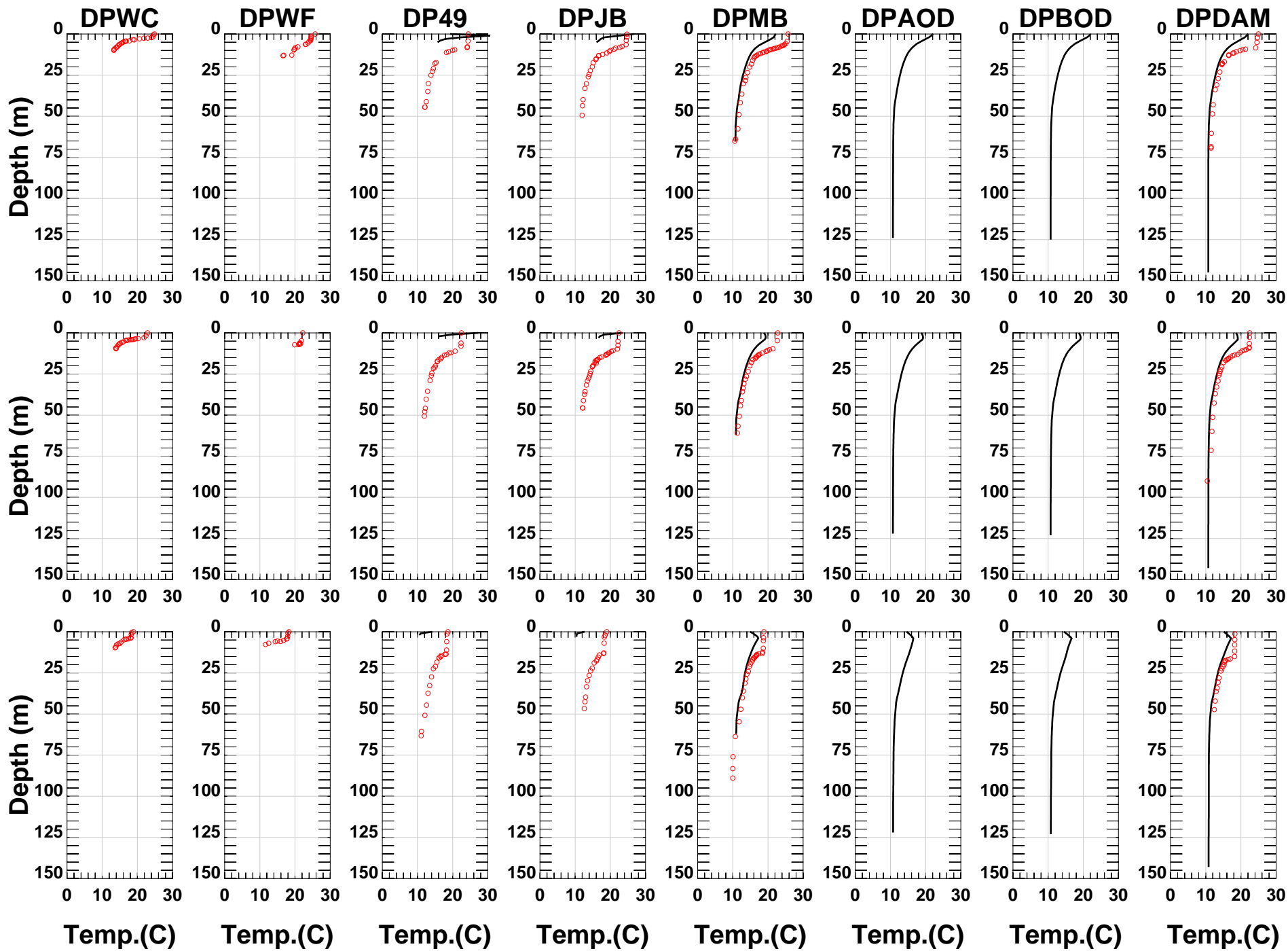
Prior to running the MIKE3 reservoir temperature model to evaluate the various flow proposals submitted on January 29, 2018, the Districts had confirmed for modelers that the configuration of Old Don Pedro Dam represented in the updated May 2017 model presented to relicensing participants did not fully and accurately reflect the old Don Pedro Dam now submerged in the new Don Pedro reservoir. An ungated spillway with a permanent crest elevation of 596.5 ft (original spill gates had been removed) was added to reflect this configuration. The prior crest of the old dam was set at 610 ft, the top of the main dam. The MIKE3 model calibration was checked with minor changes made in recalibration. The attached calibration results show maintenance of very favorable calibration to collected field data. The various flow proposals, and the Base Case and the Districts Preferred Plan (DPP-1r), were run using this MIKE3 model to maintain consistency and comparability for all model runs undertaken as part of this May 14 filing.



06/07/2010

07/08/2010

08/04/2010



09/07/2010

10/06/2010

11/03/2010

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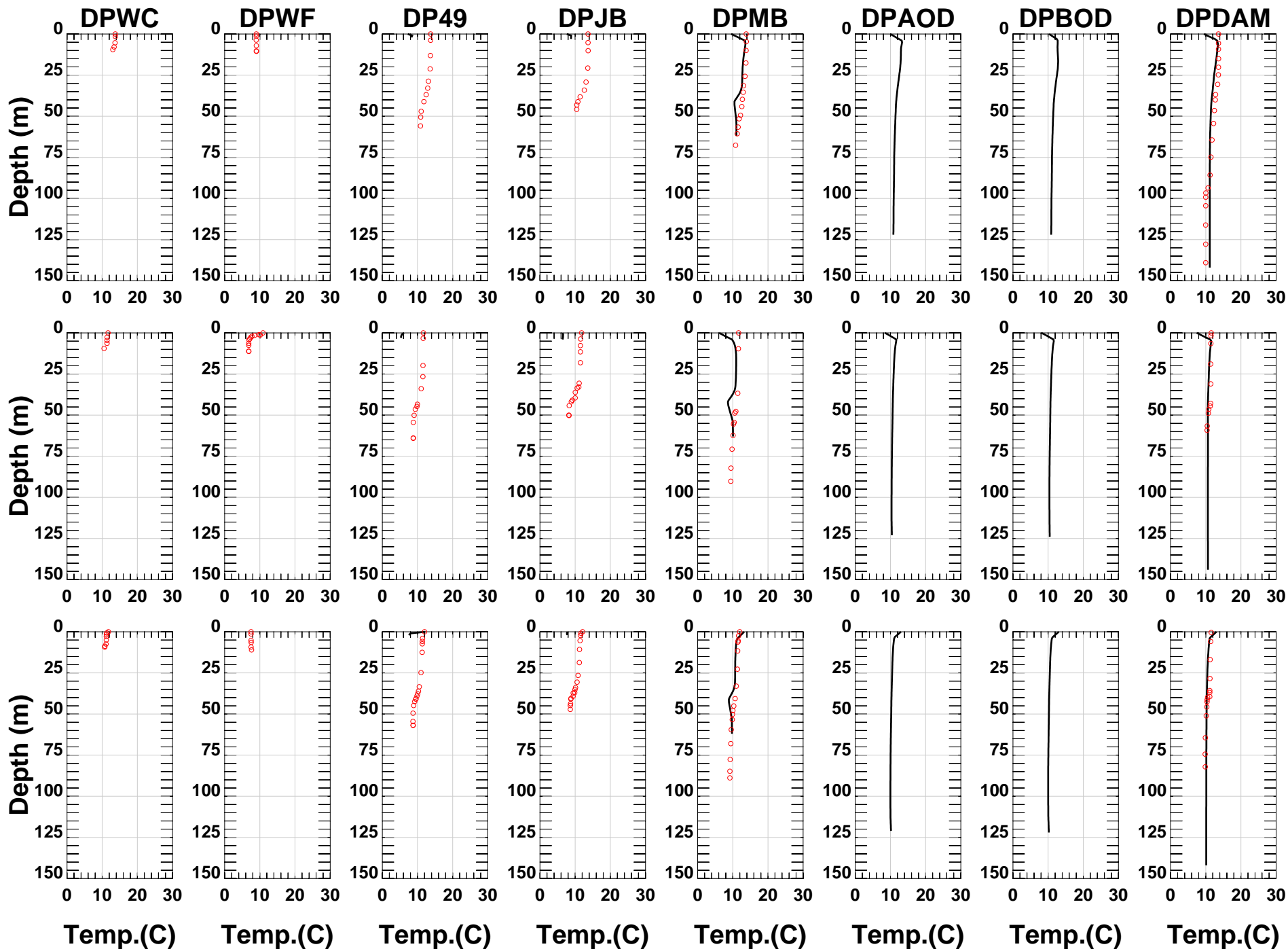
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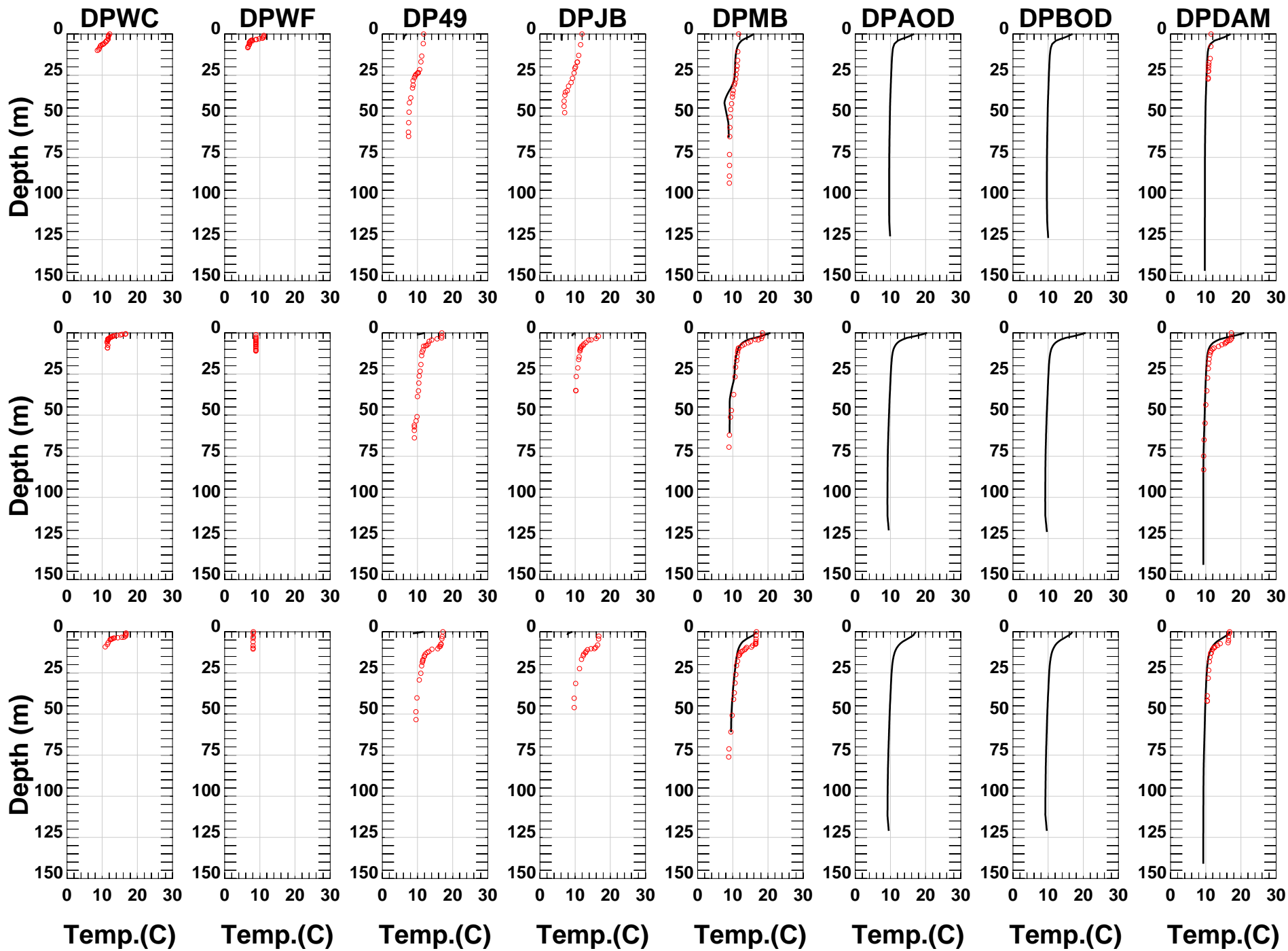
Temp.(C)



12/14/2010

01/12/2011

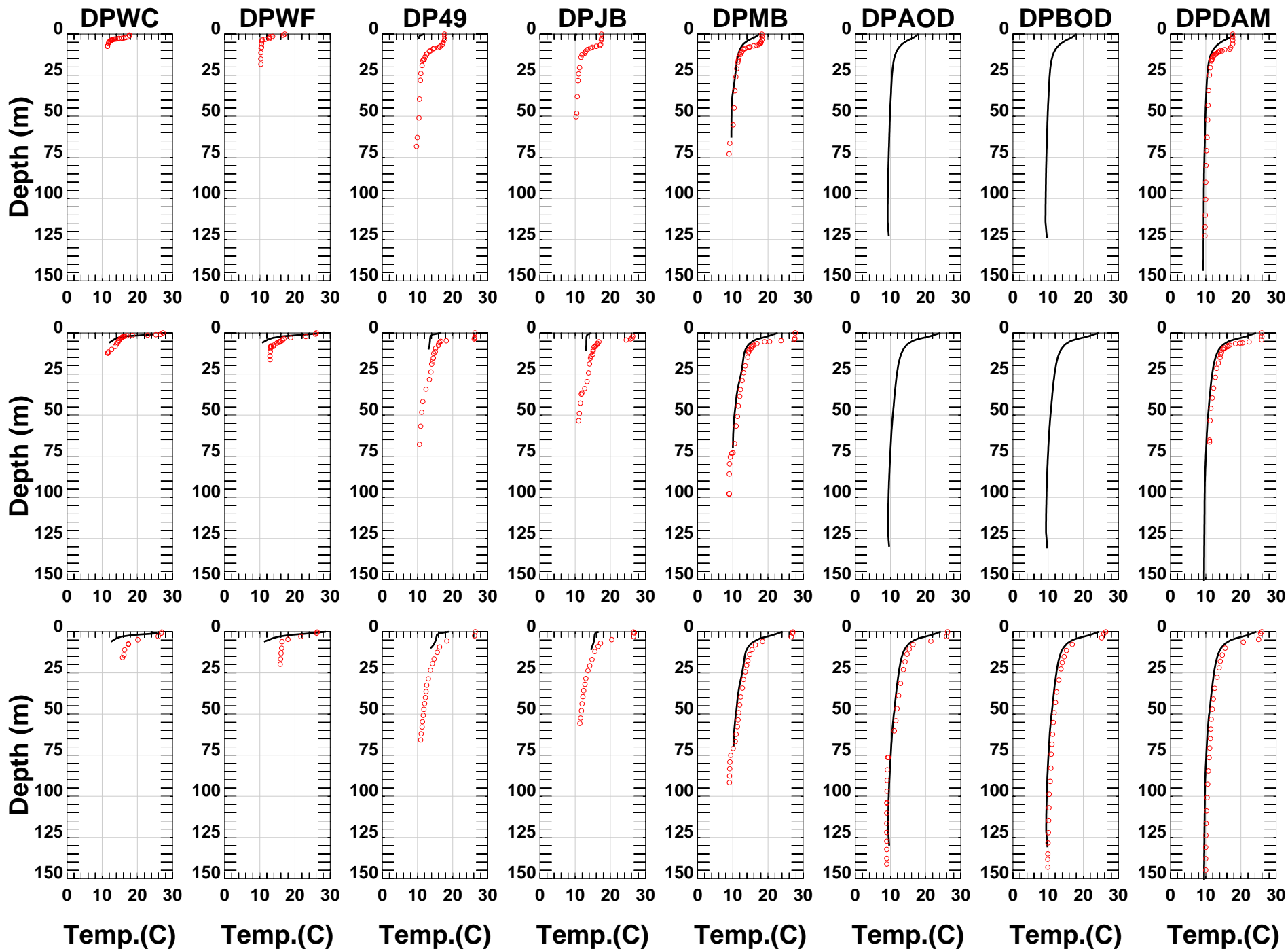
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05/18/2011

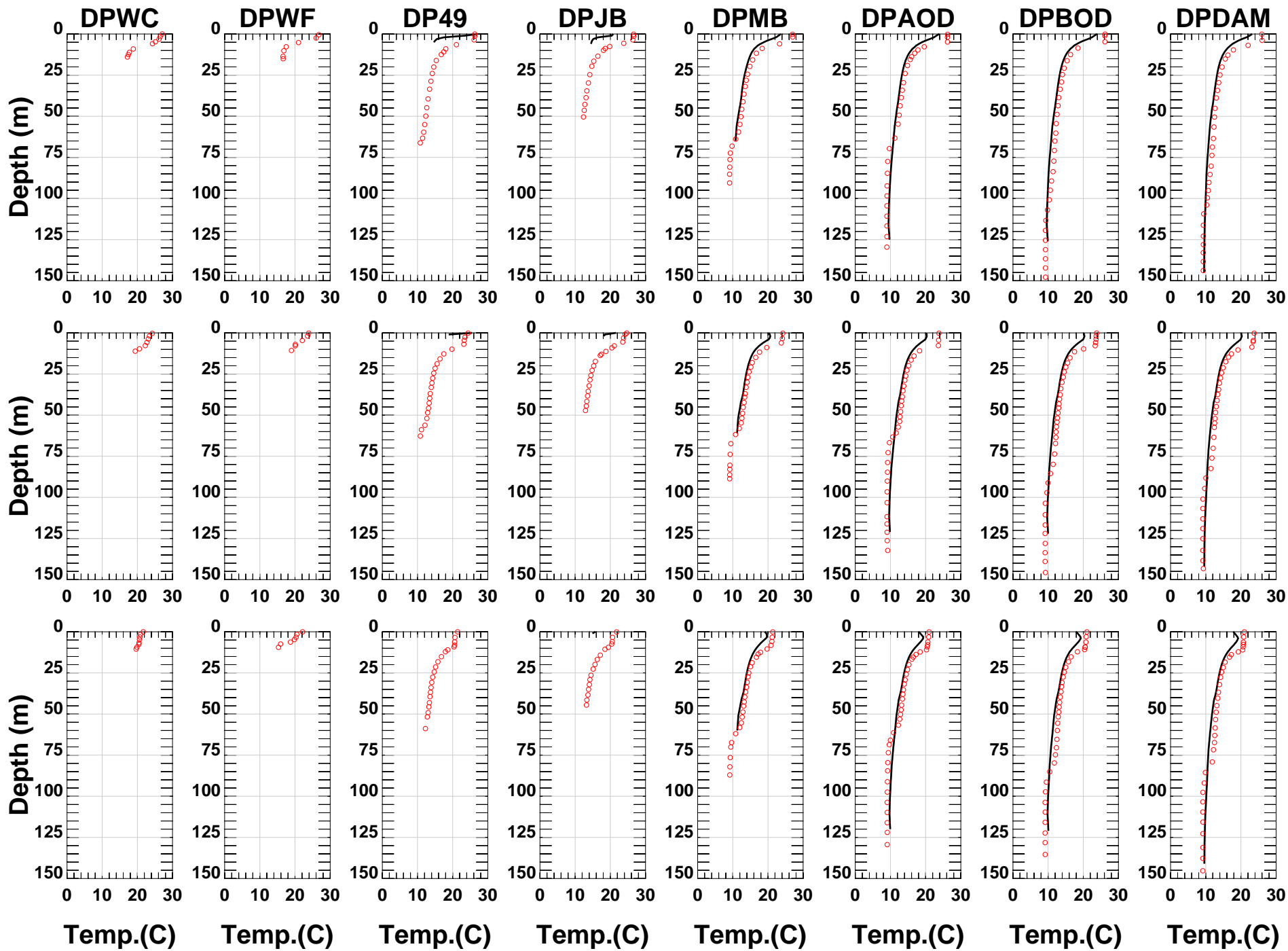


06/06/2011

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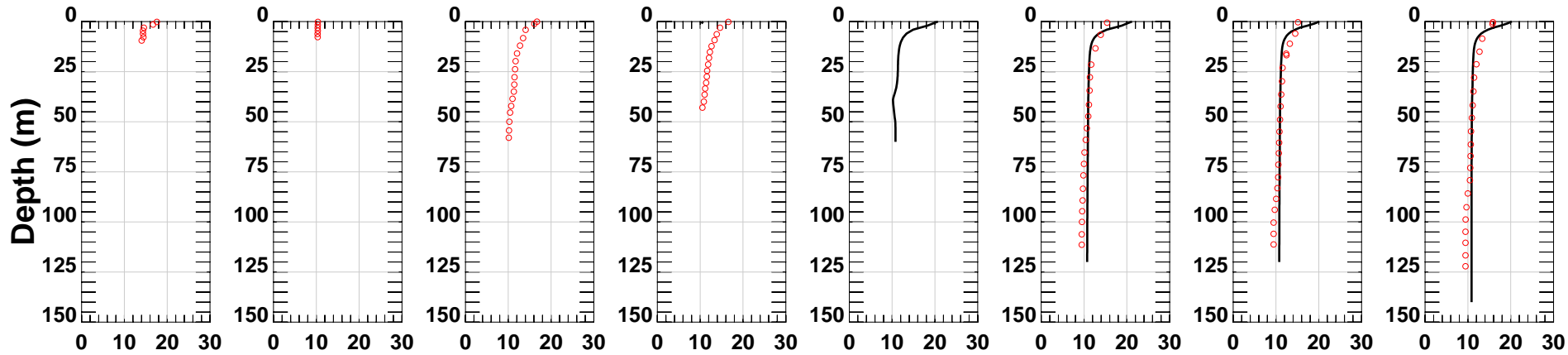
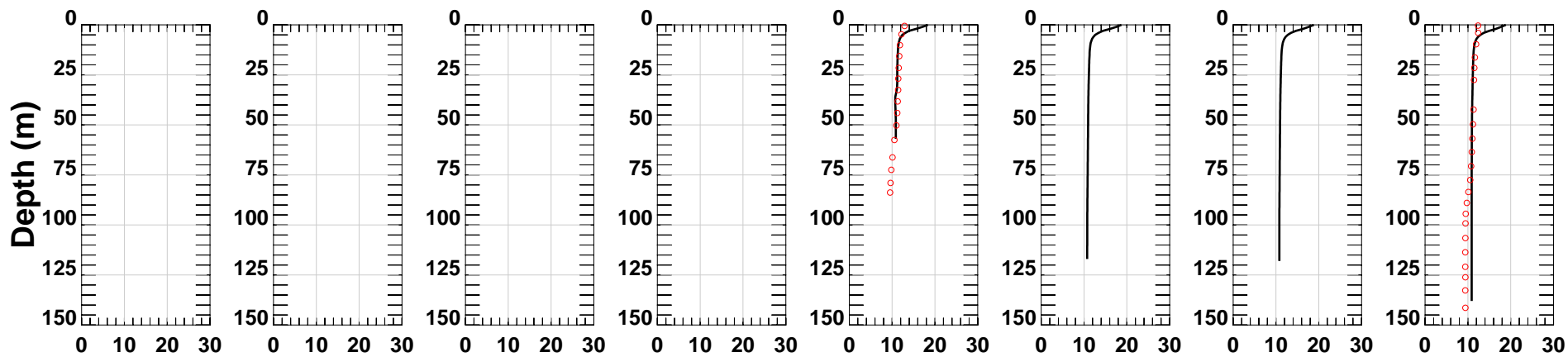
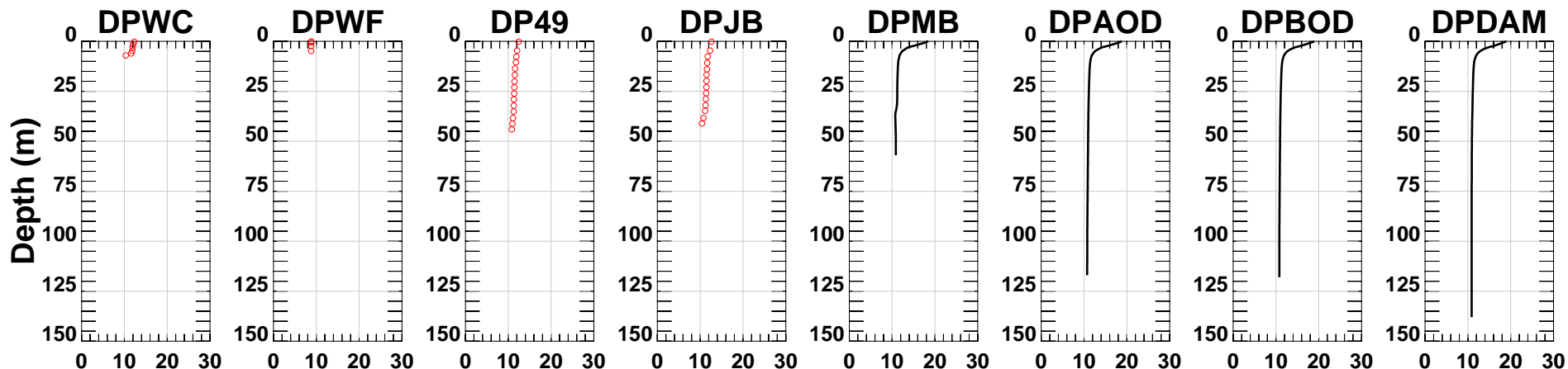




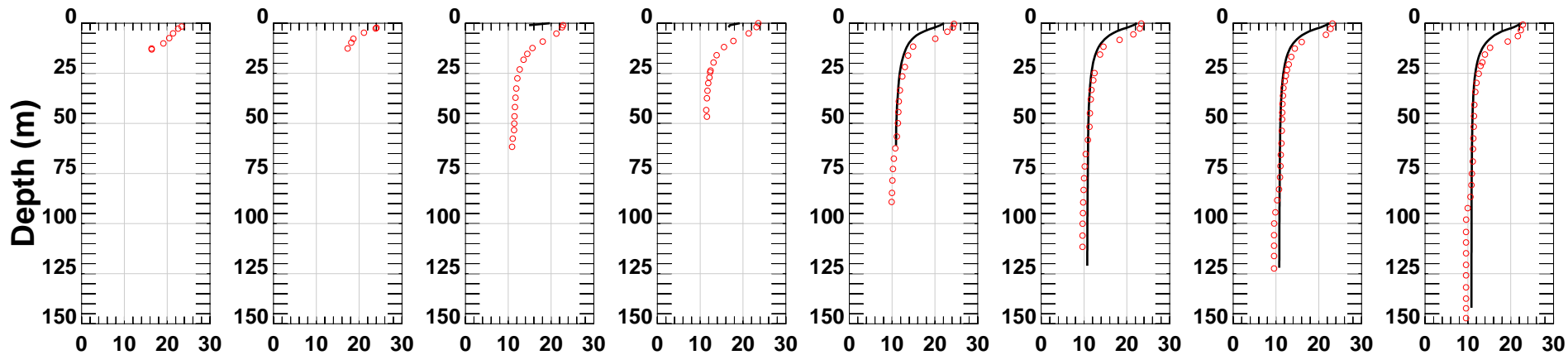
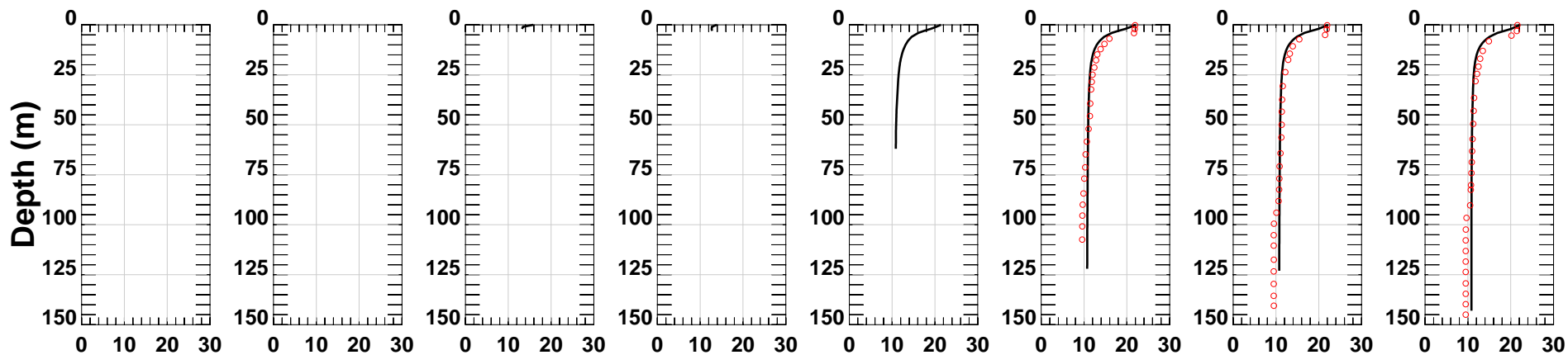
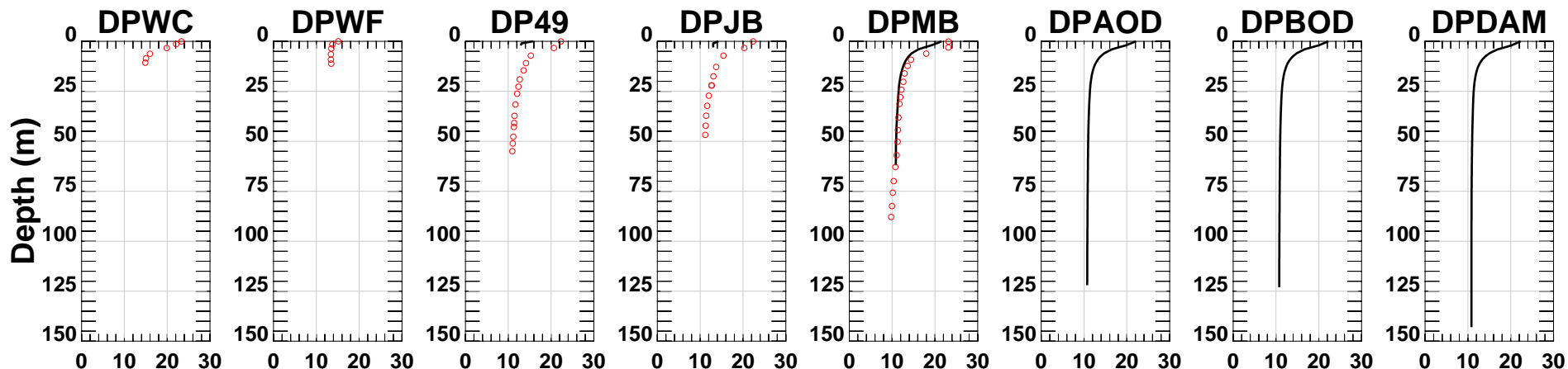
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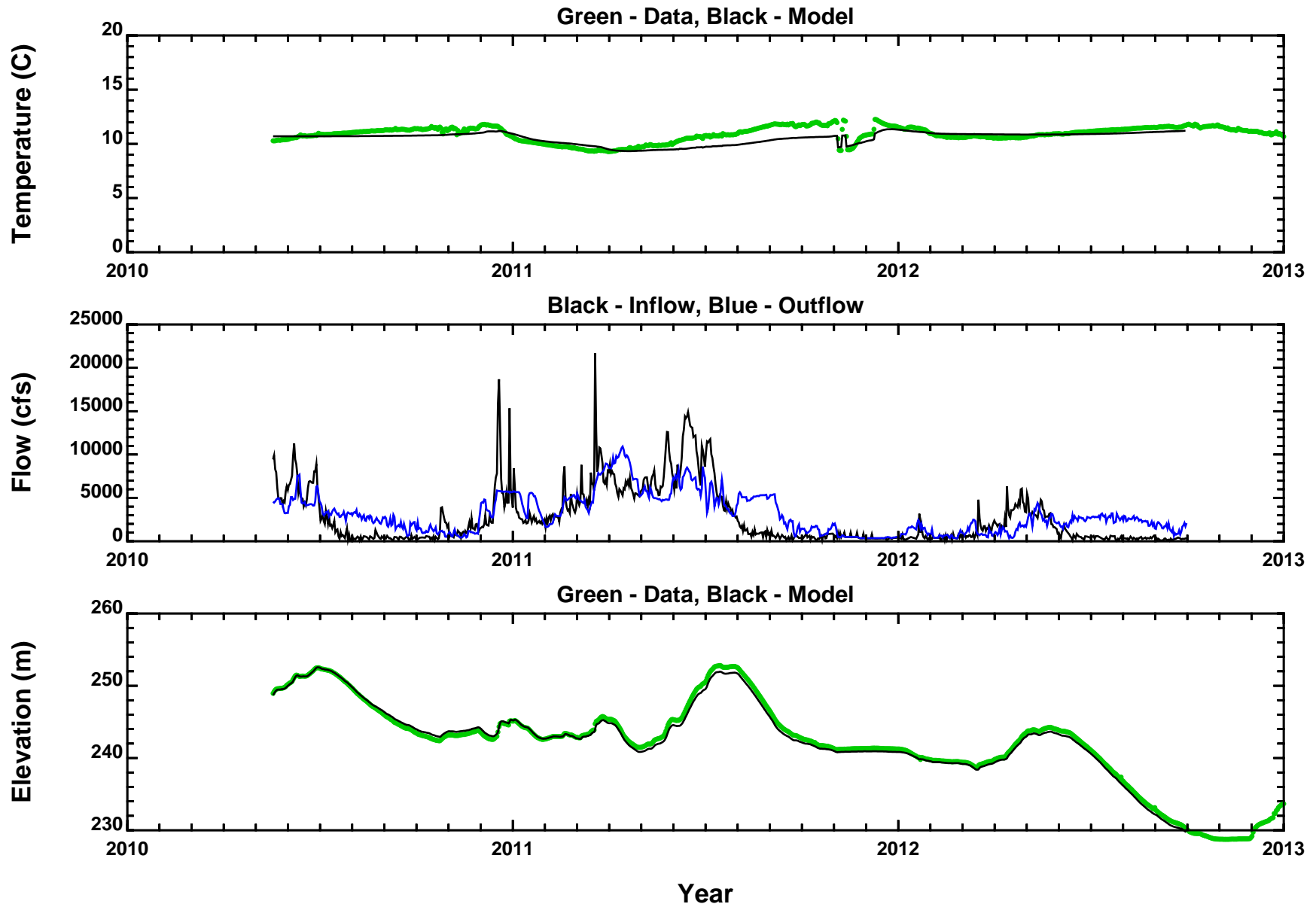
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Don Pedro Reservoir MIKE Model Calibration (Run27)