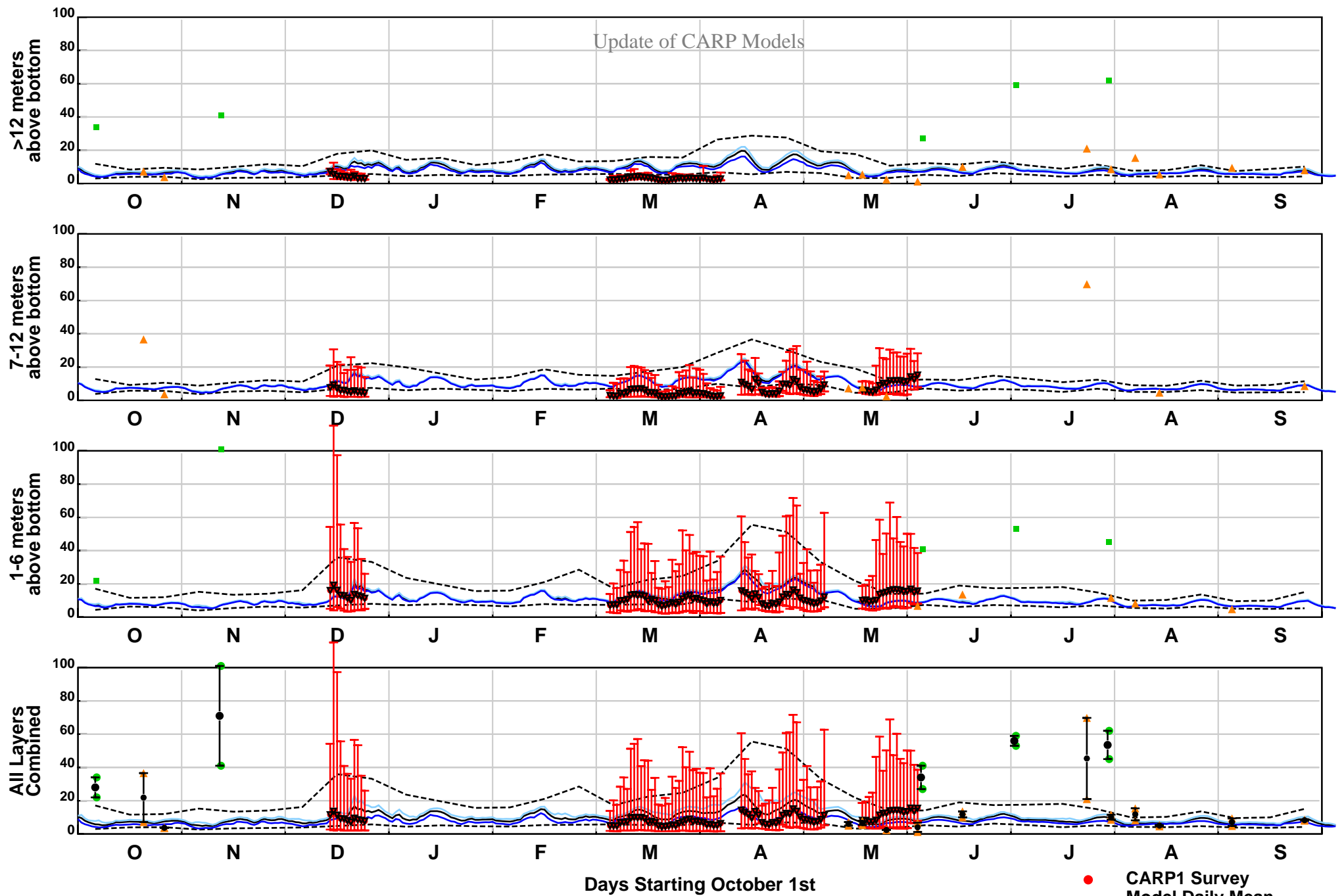


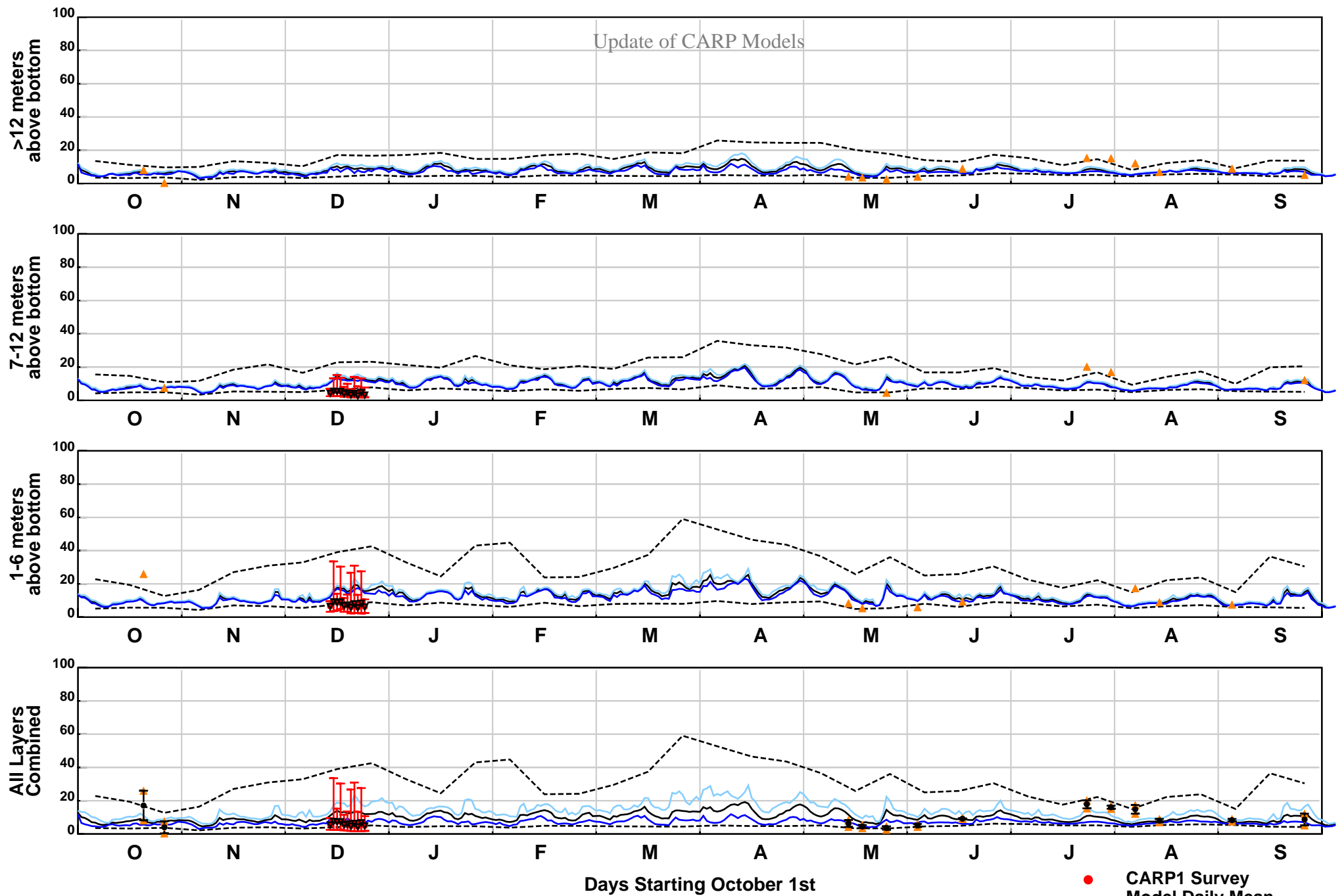
APPENDIX 9

Suspended Sediment Concentrations Model and Measurement Comparisons Results Diagrams, CARP 1 New Jersey Toxics Reduction Workplan for New York-New Jersey Harbor Study I-E Stations, 2000-02 Water Years and Proximal New Jersey Harbor Dischargers Group (NJHDG) and New York City Environmental Protection Harbor Survey Stations, 2000-16 Water Years



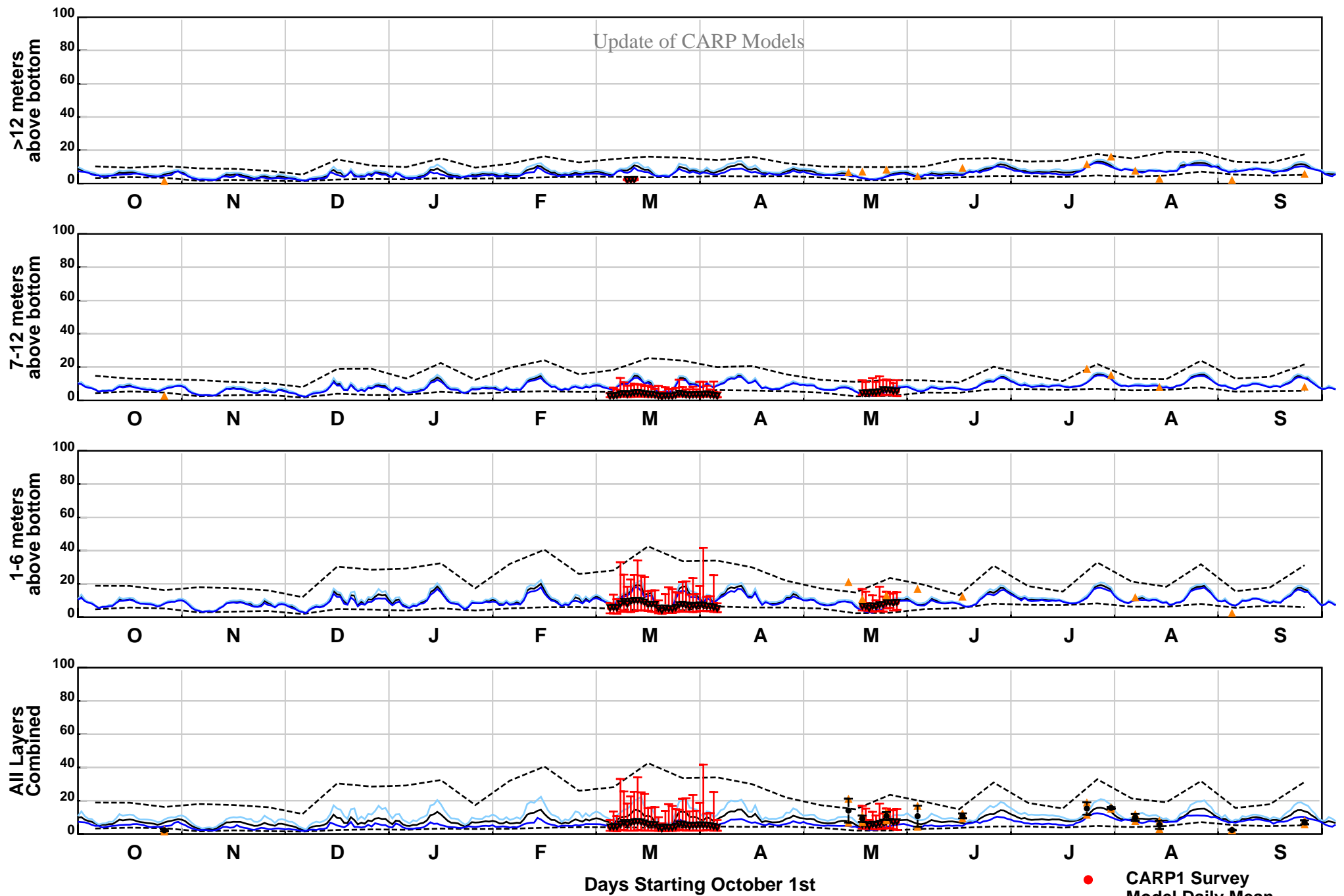
ST-SWEM Suspended Sediment Concentrations (mg/L)
Kill Van Kull, October 1st, 2000 - September 30, 2001
CARP2 Grid Cell (30,66)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



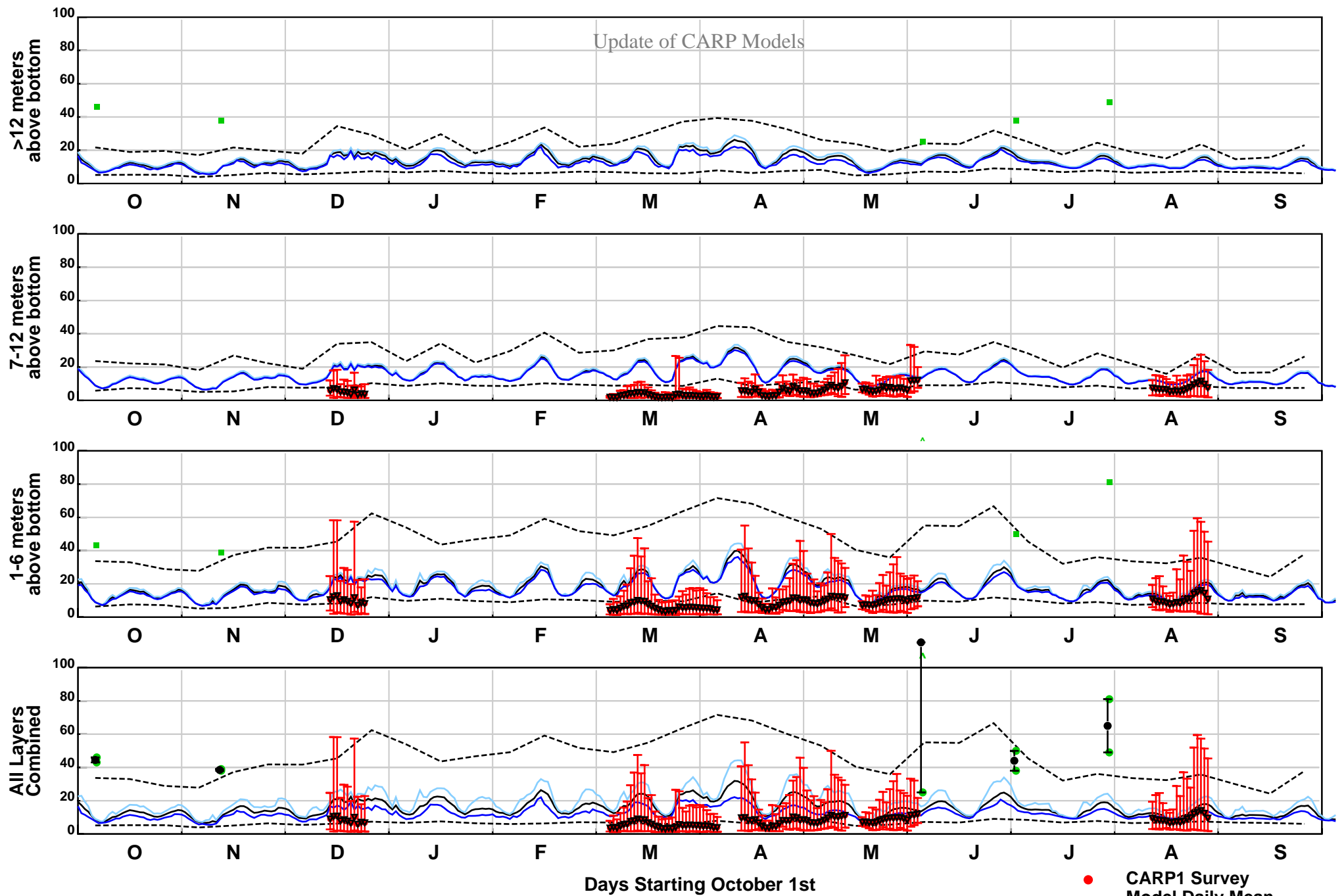
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Arthur Kill, October 1st, 2000 - September 30, 2001
CARP2 Grid Cell (12,56)

- CARP1 Survey
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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



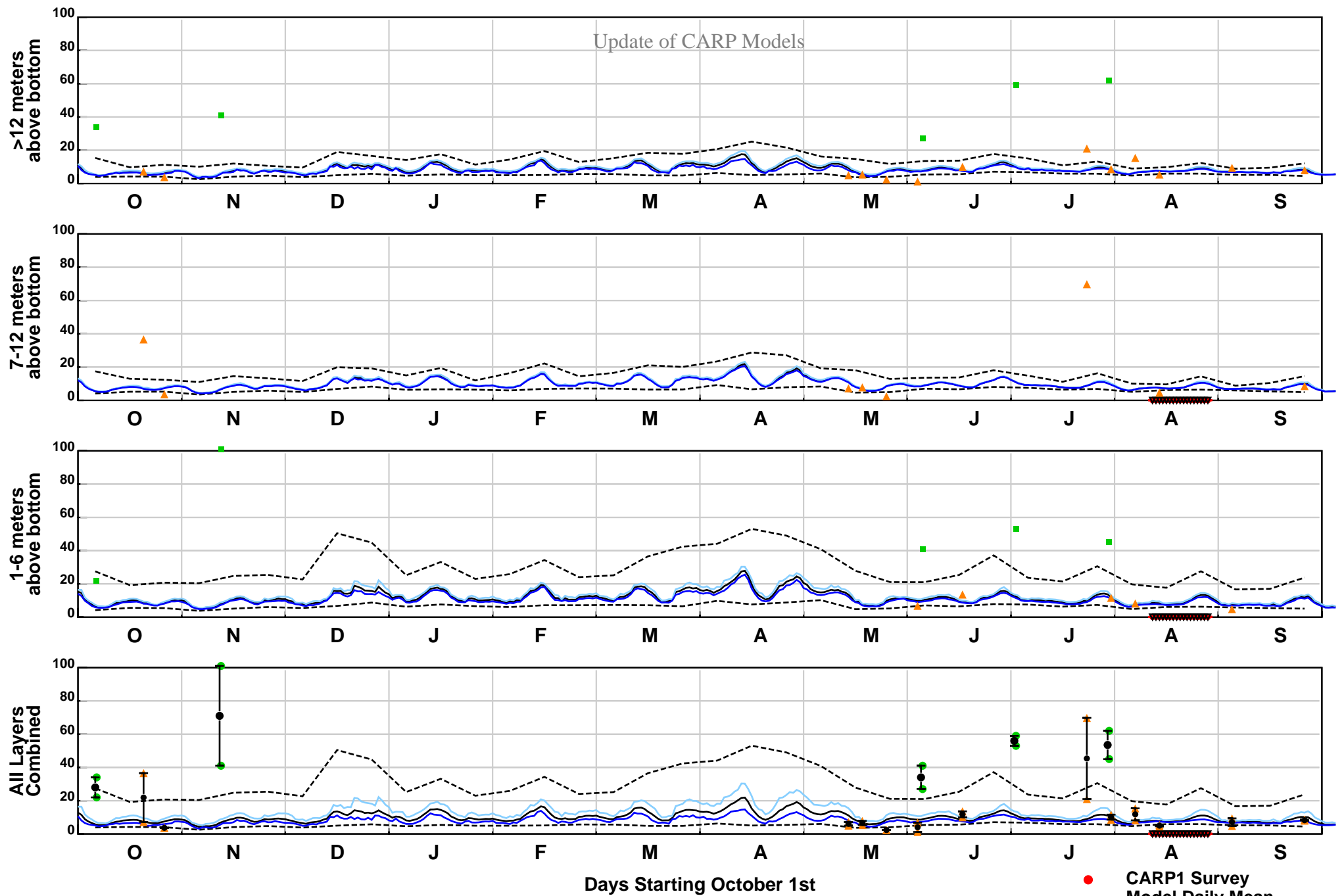
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Perth Amboy, October 1st, 2000 - September 30, 2001
CARP2 Grid Cell (12,27)

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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



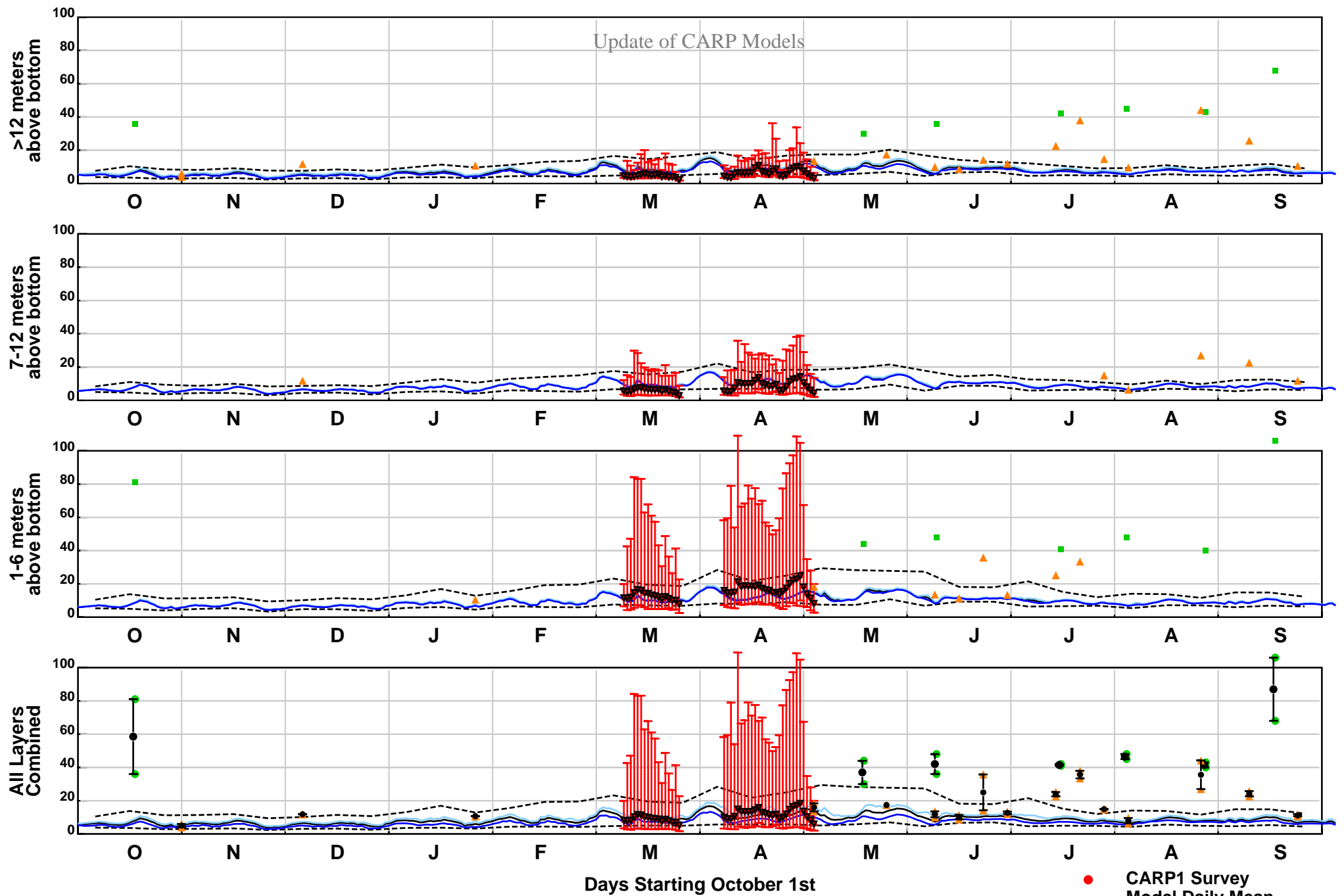
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Newark Bay 1, October 1st, 2000 - September 30, 2001
CARP2 Grid Cell (23,96)

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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



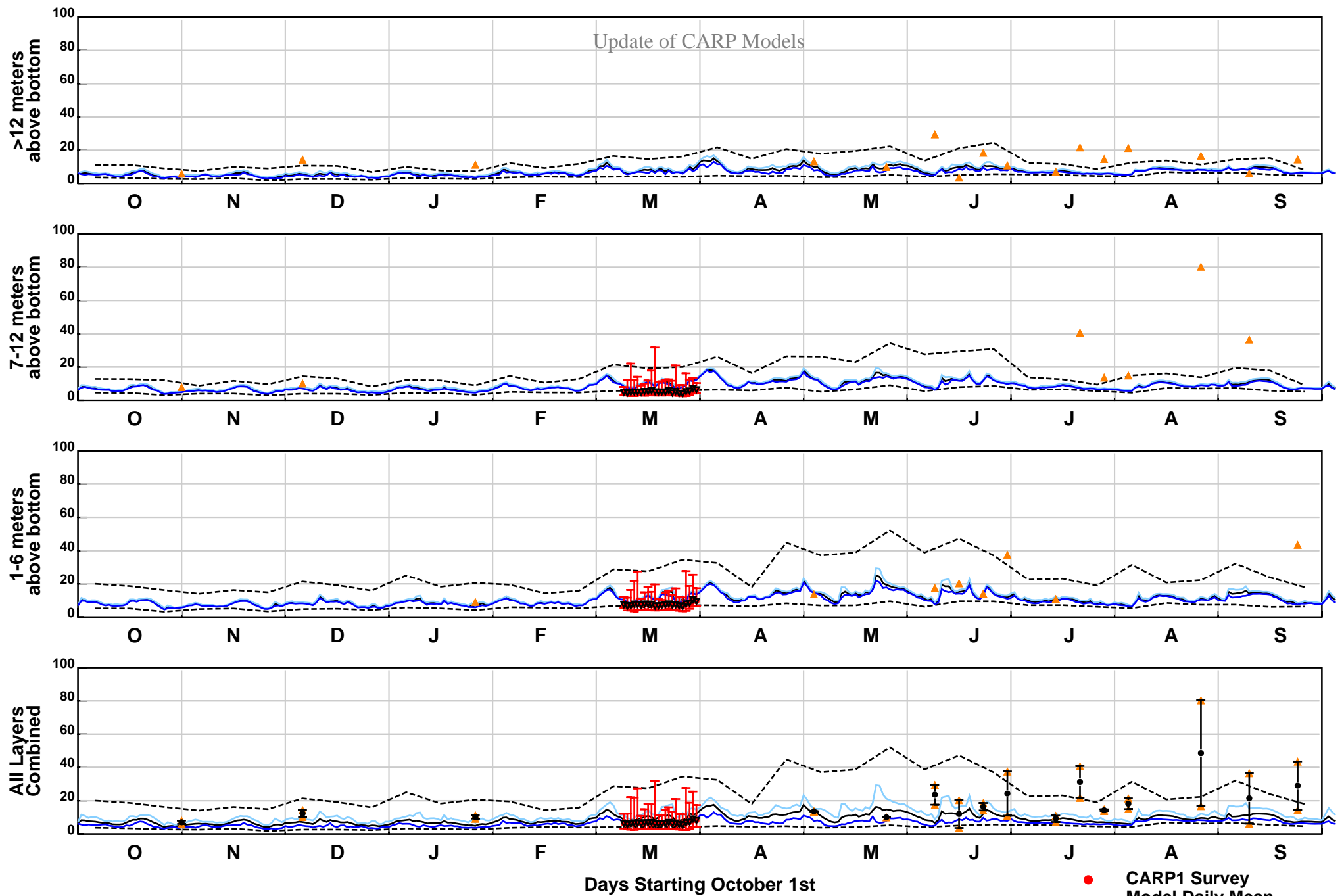
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Newark Bay 2, October 1st, 2000 - September 30, 2001
CARP2 Grid Cell (23,73)

- CARP1 Survey
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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



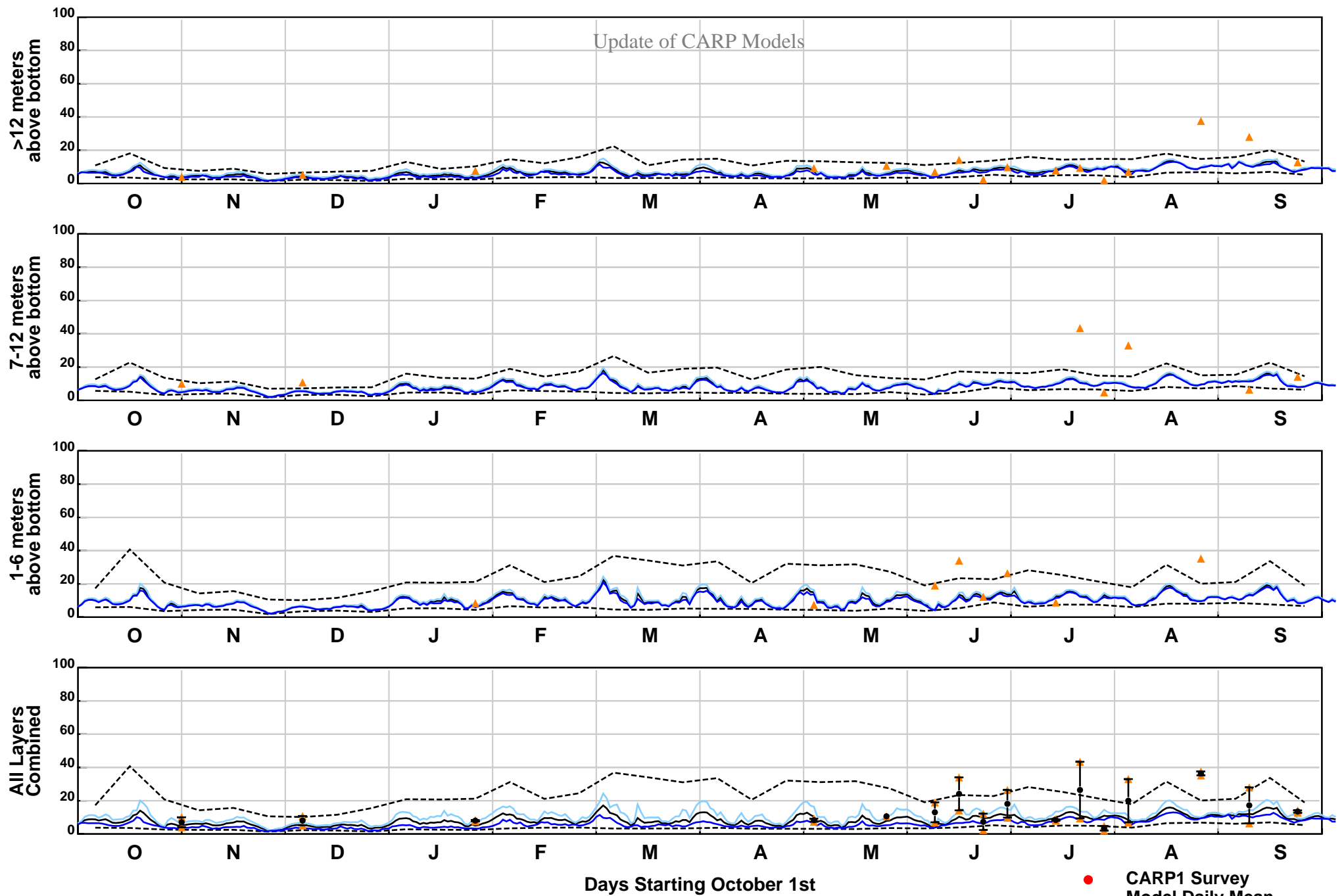
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CARP2 Grid Cell (30,66)

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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



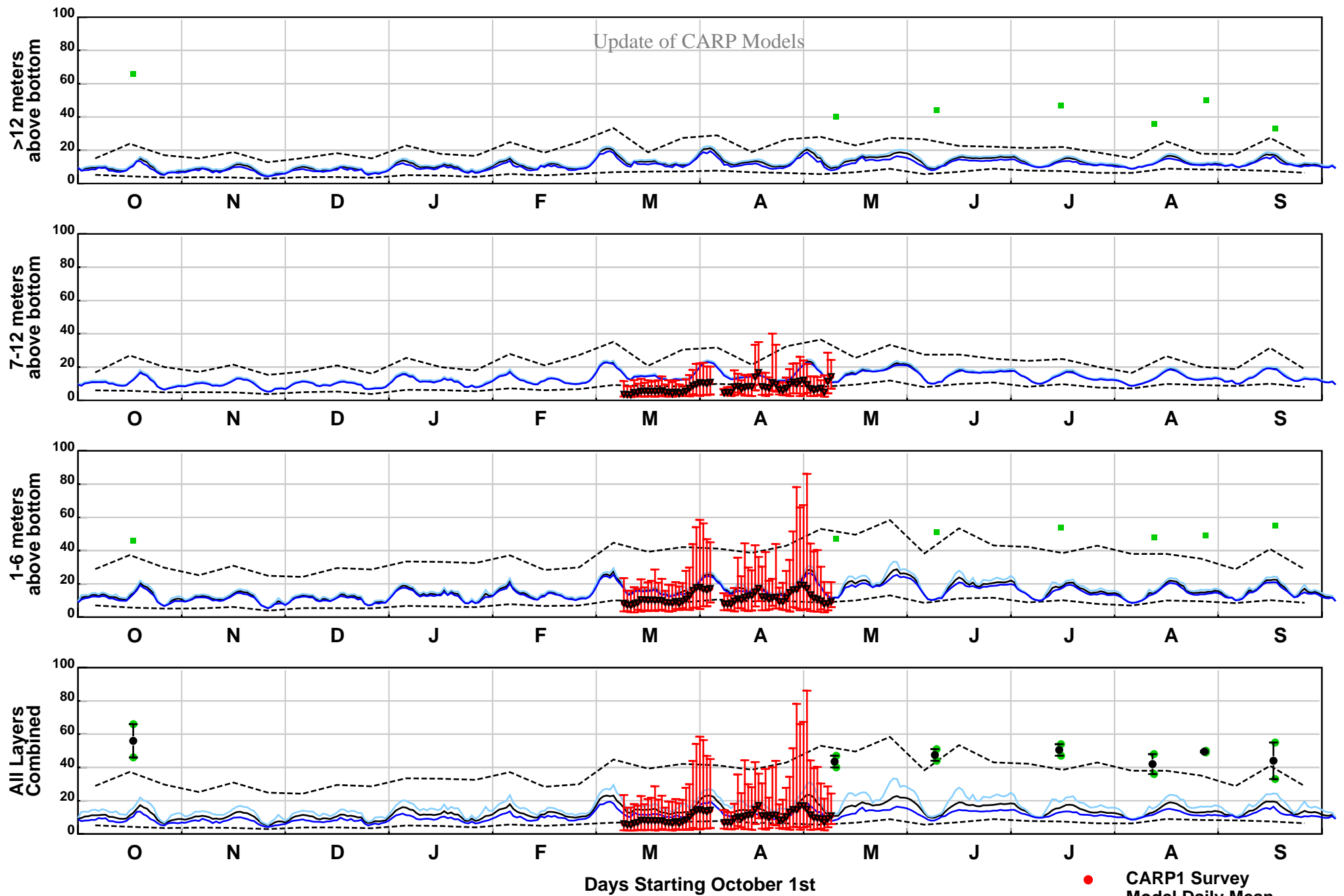
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CARP2 Grid Cell (12,56)

- CARP1 Survey
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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



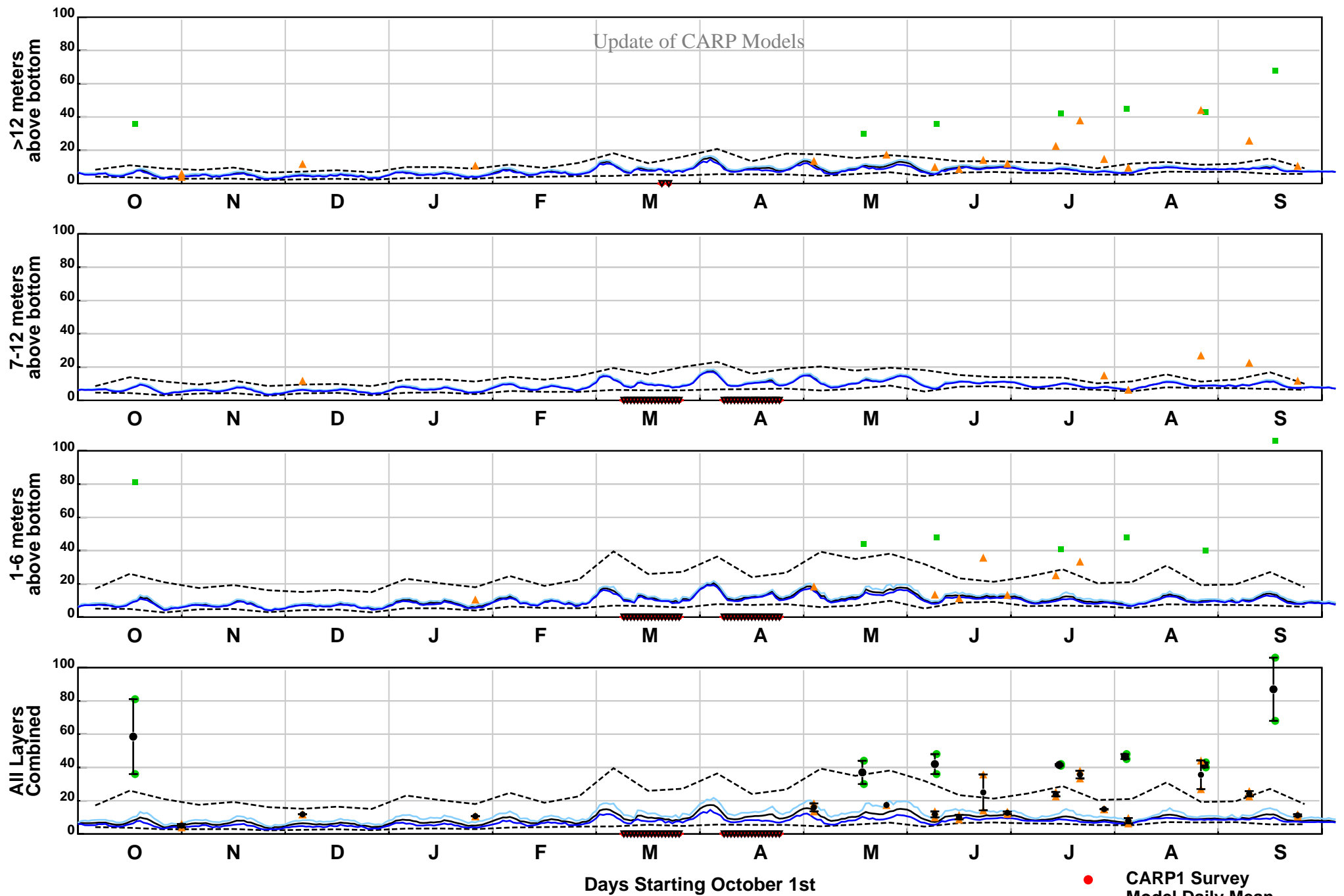
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CARP2 Grid Cell (12,27)

- CARP1 Survey
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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



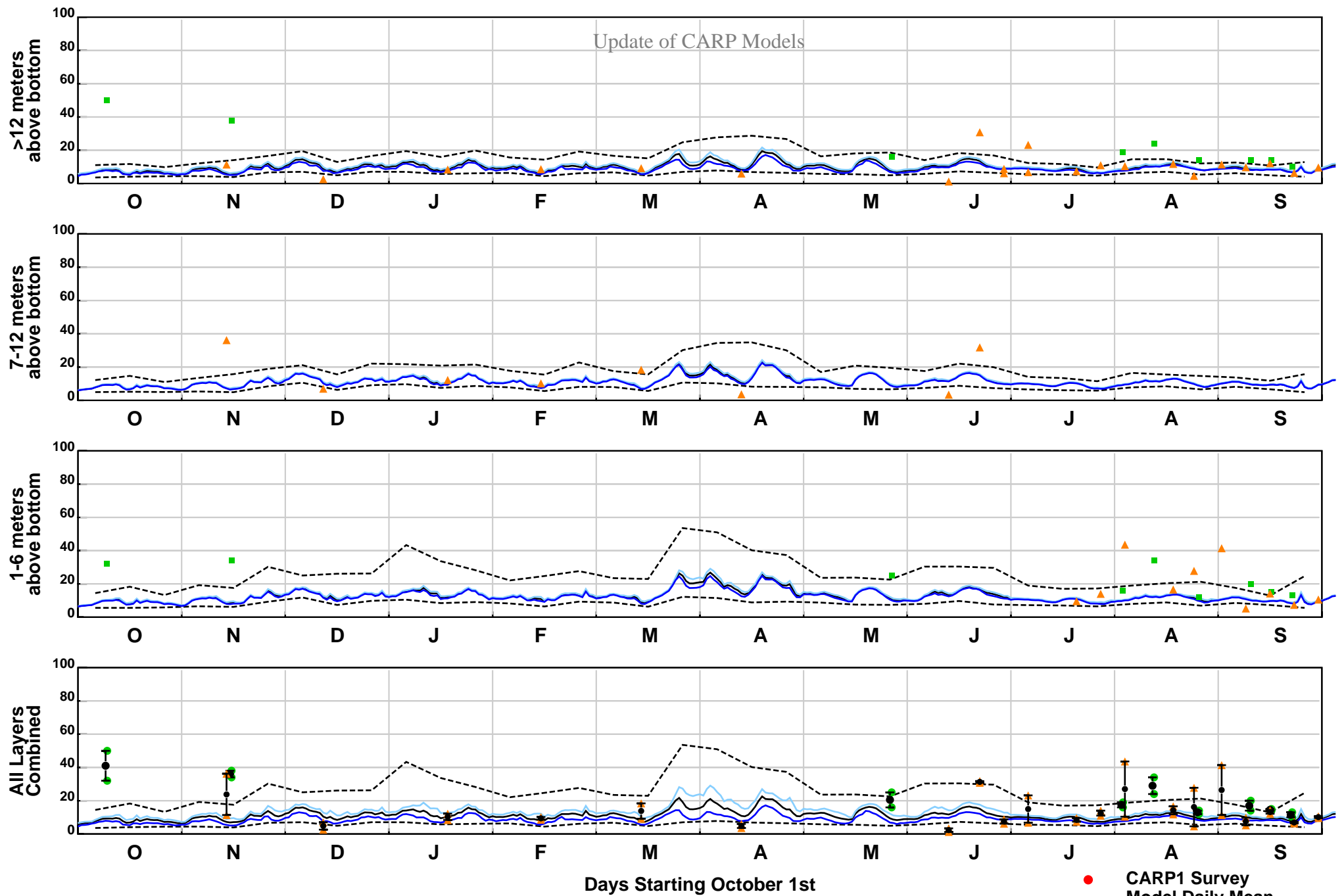
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CARP2 Grid Cell (23,96)

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- Model Daily Min
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- NJHDG Survey
- ▲ Harbor Survey



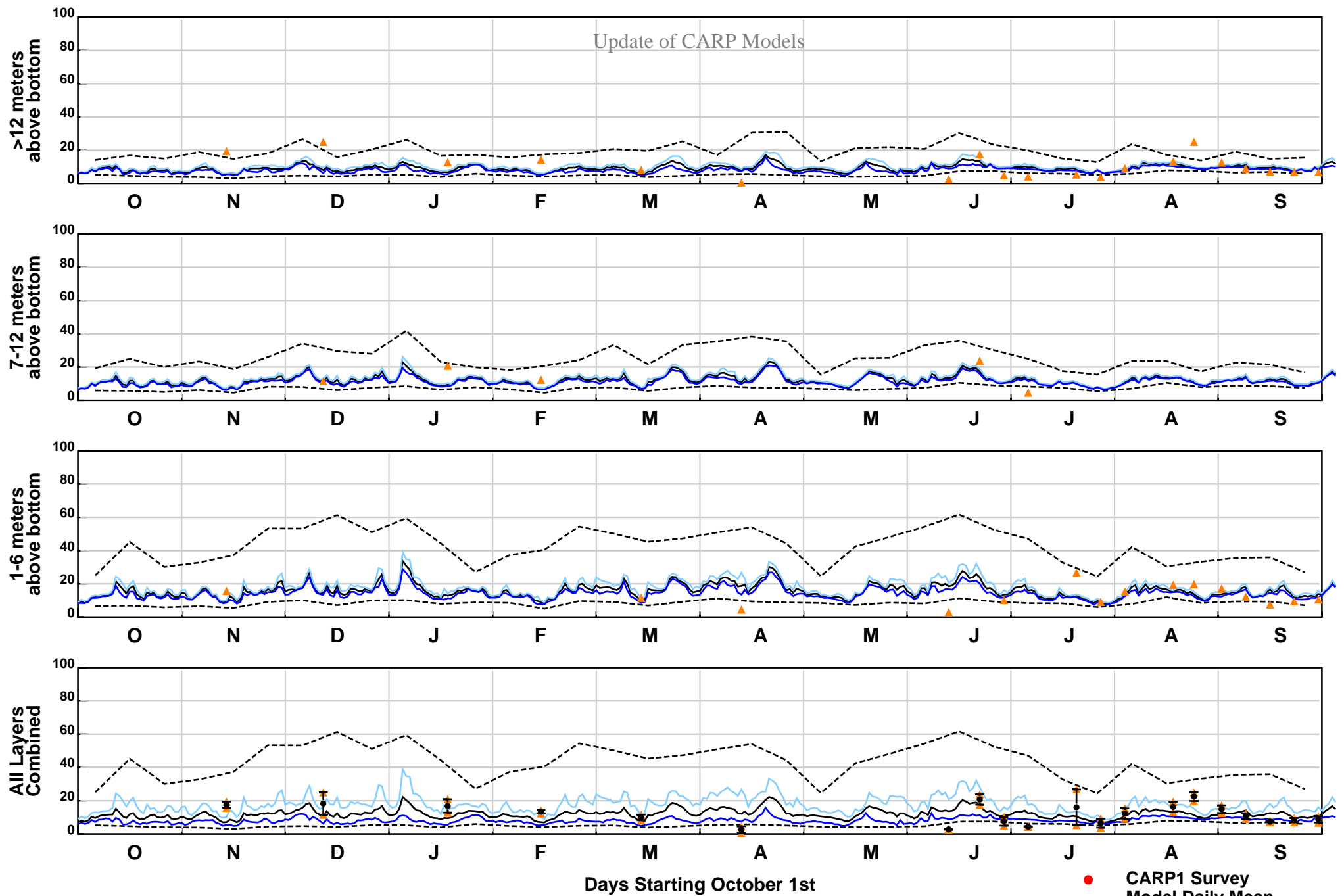
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Newark Bay 2, October 1st, 2001 - September 30, 2002
CARP2 Grid Cell (23,73)

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- Model Daily Max
- Model Daily Min
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- NJHDG Survey
- ▲ Harbor Survey



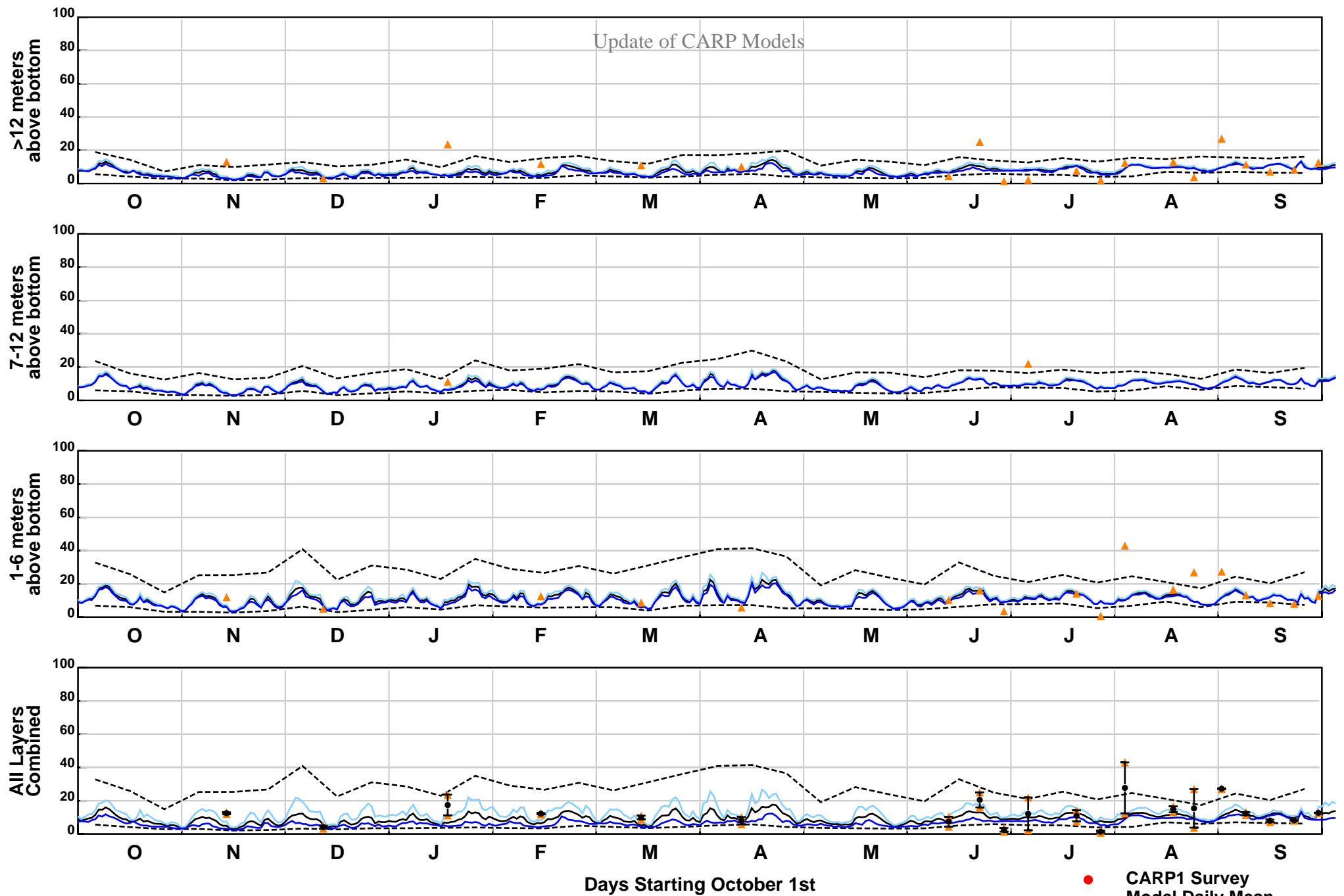
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CARP2 Grid Cell (30,66)

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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



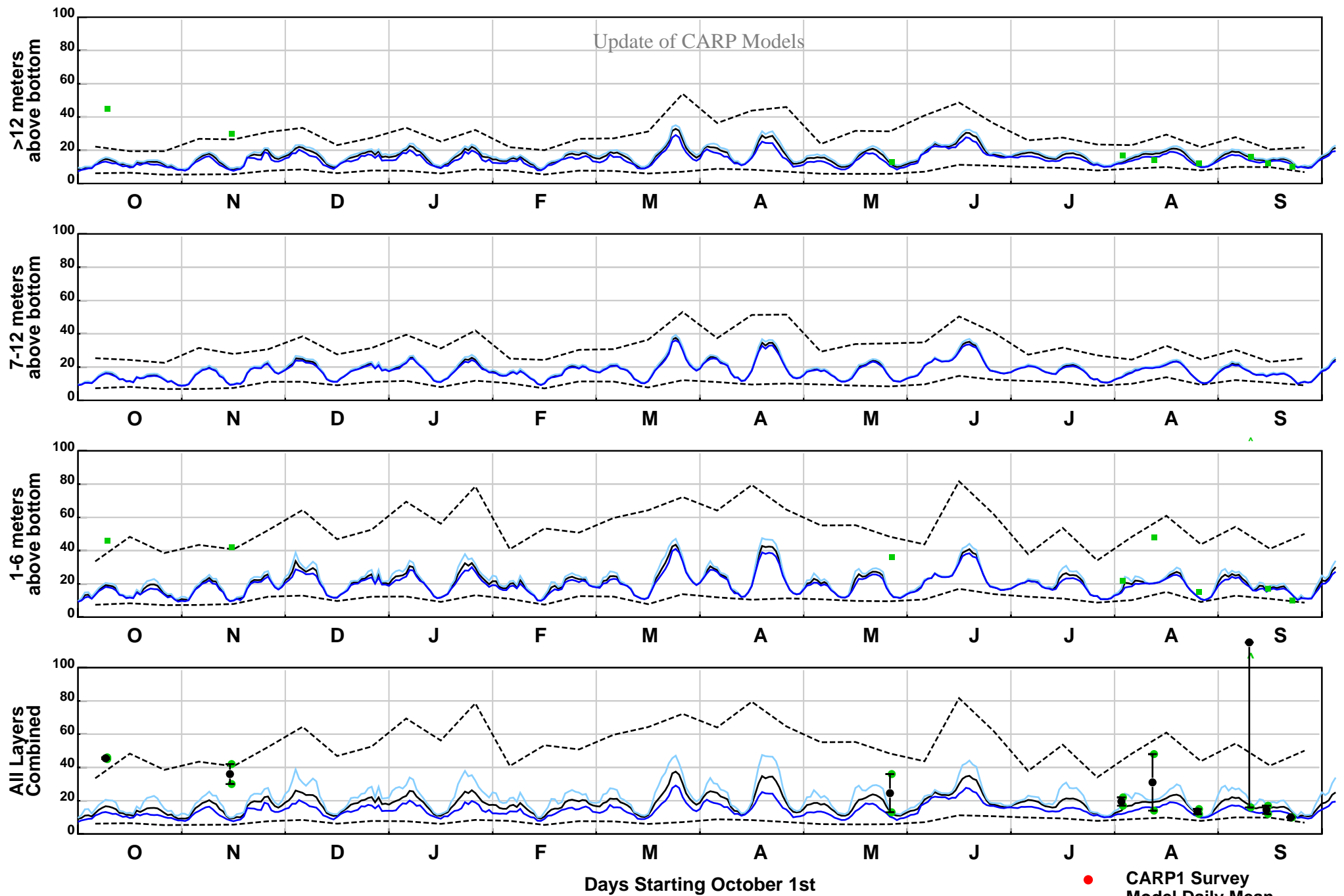
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CARP2 Grid Cell (12,56)

- CARP1 Survey
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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



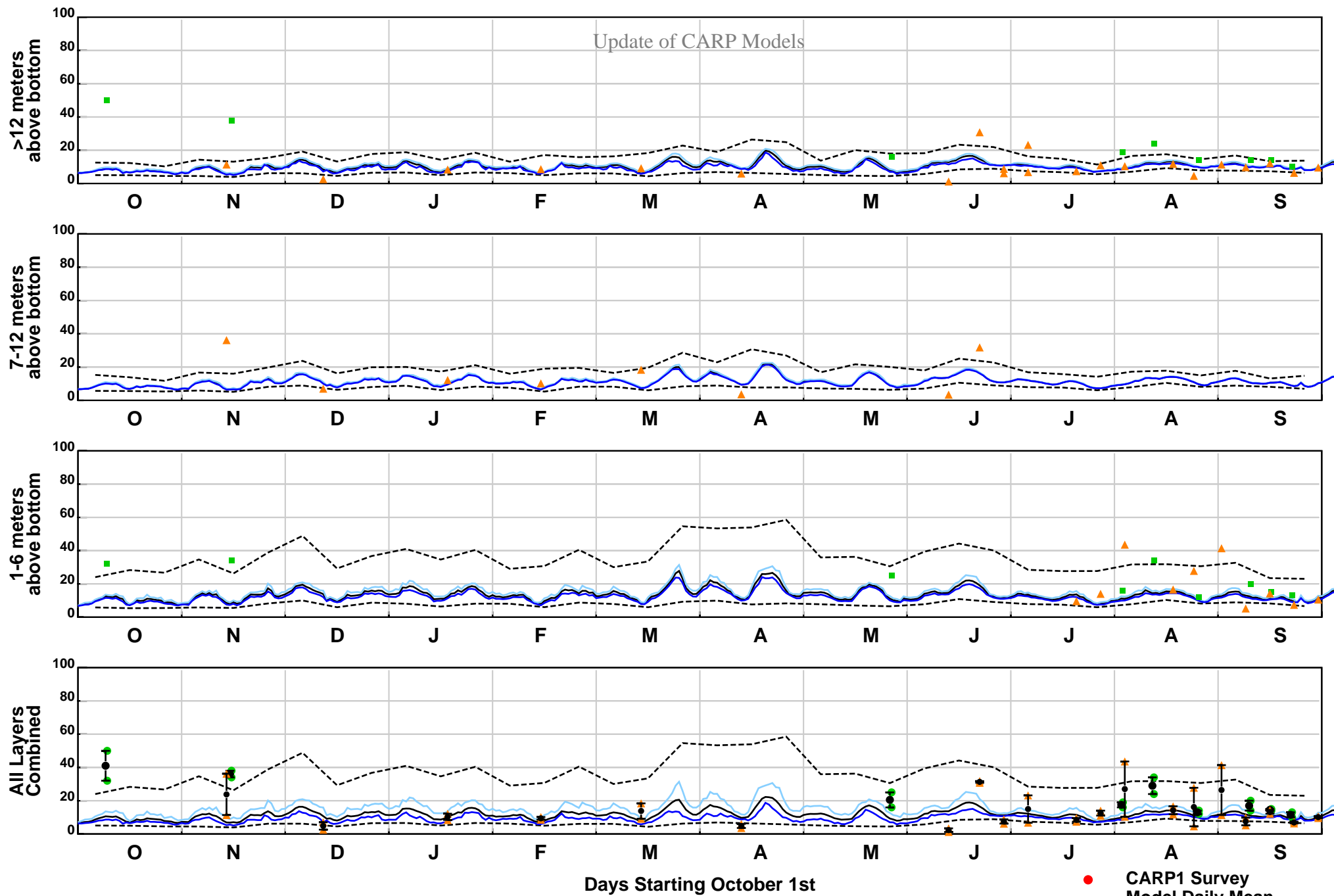
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Perth Amboy, October 1st, 2002 - September 30, 2003
CARP2 Grid Cell (12,27)

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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

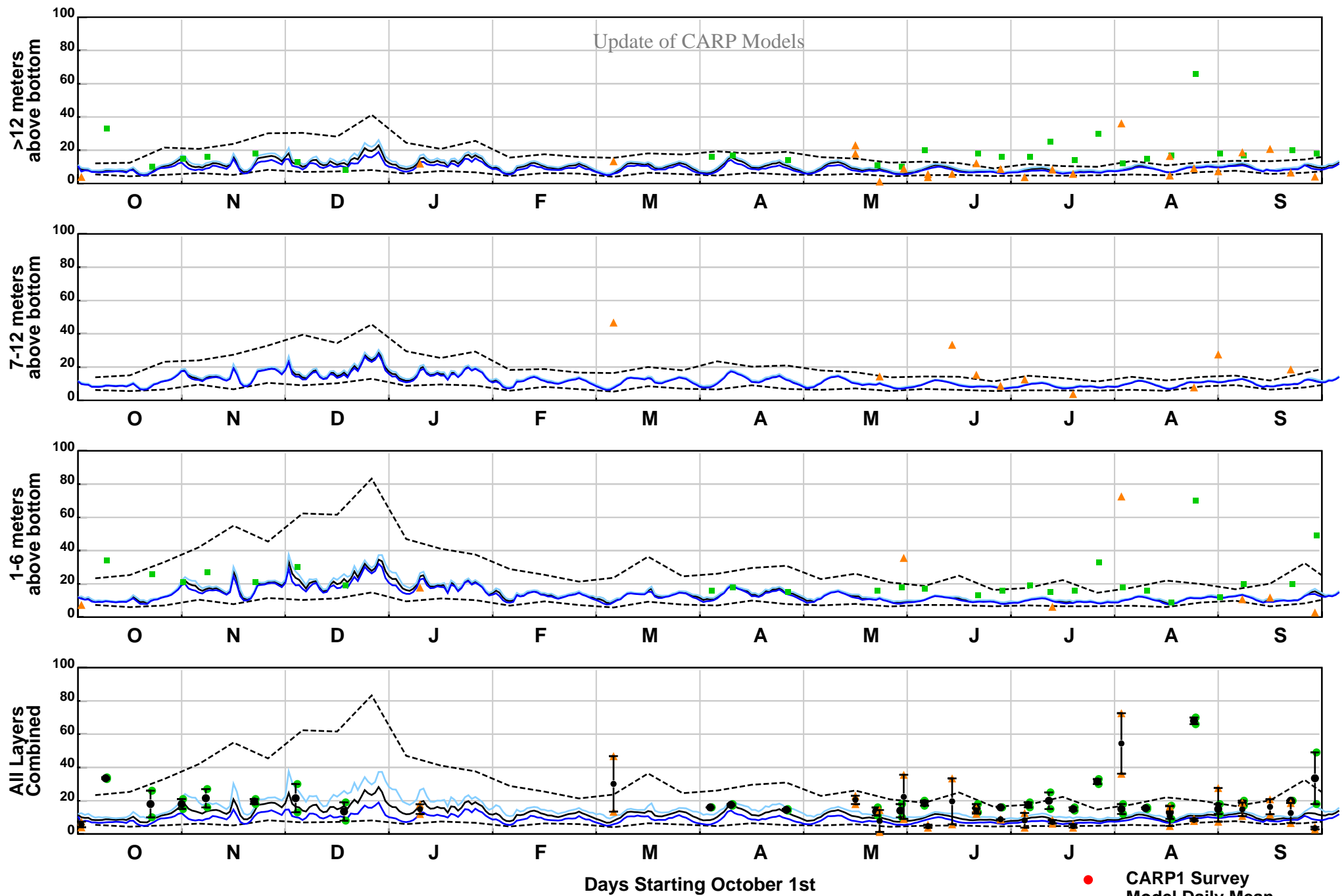


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Newark Bay 1, October 1st, 2002 - September 30, 2003
CARP2 Grid Cell (23,96)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

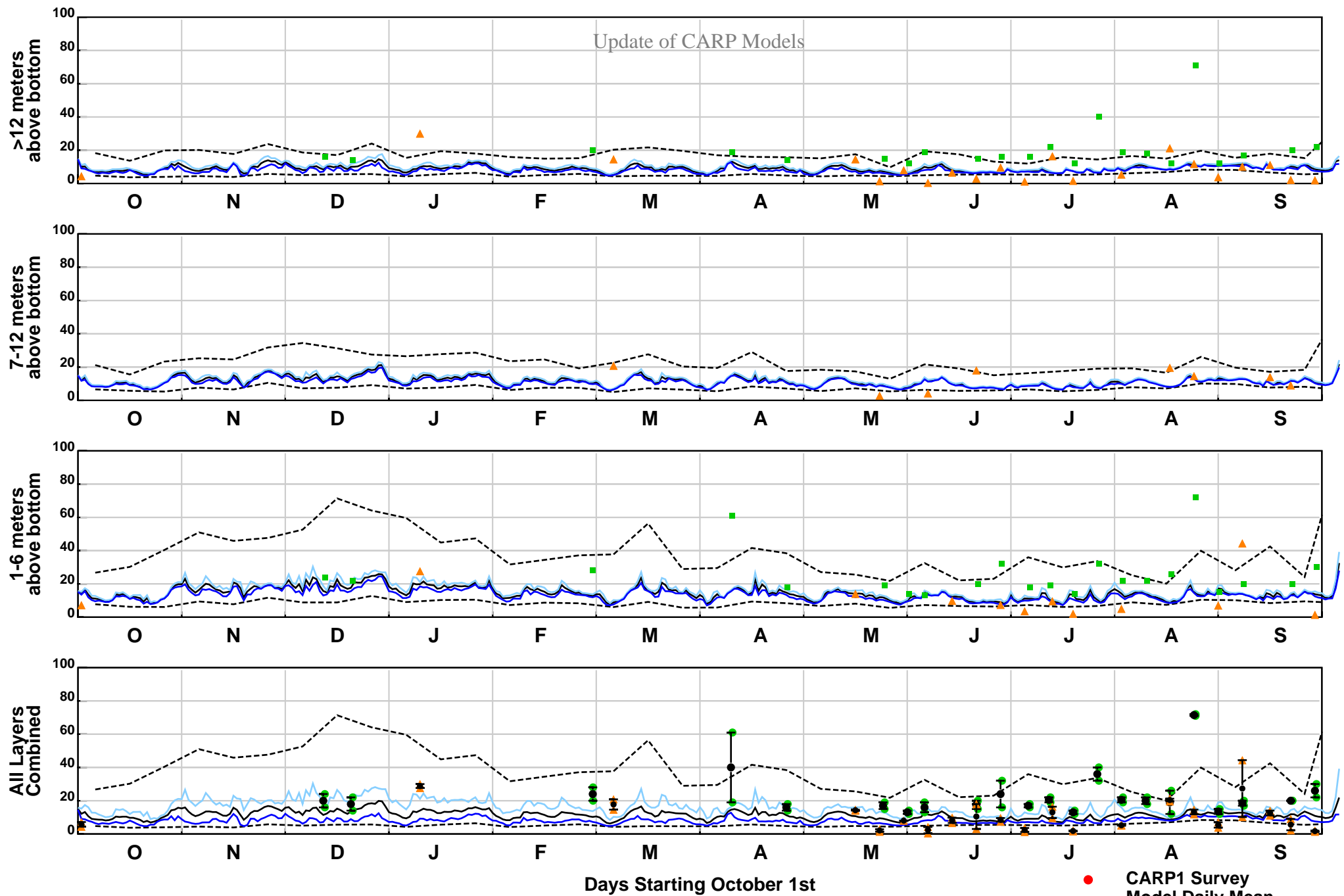


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Newark Bay 2, October 1st, 2002 - September 30, 2003
CARP2 Grid Cell (23,73)



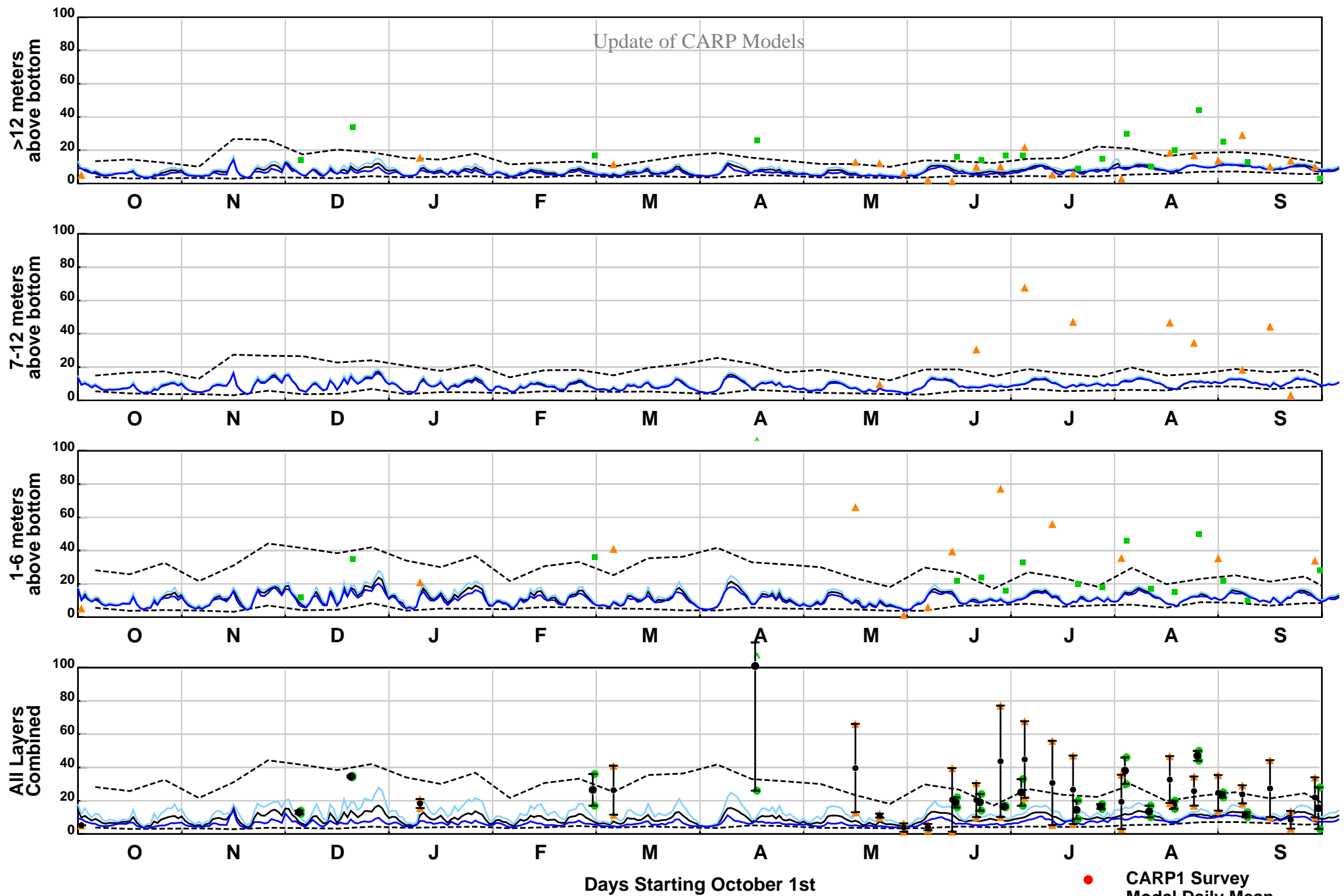
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Kill Van Kull, October 1st, 2003 - September 30, 2004
CARP2 Grid Cell (30,66)

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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

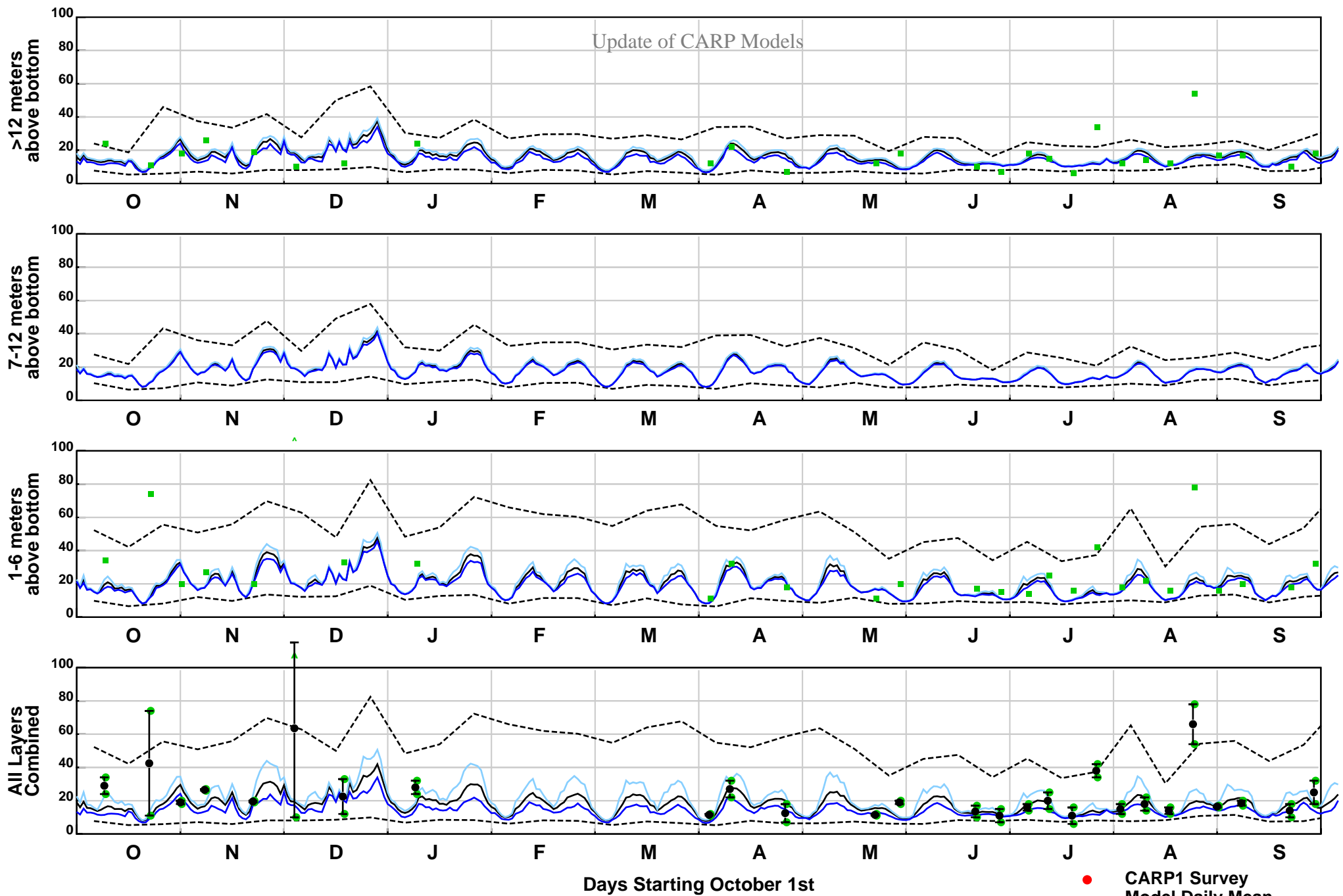


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Arthur Kill, October 1st, 2003 - September 30, 2004
CARP2 Grid Cell (12,56)

- CARP1 Survey
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- Model Daily Min
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- ▲ Harbor Survey

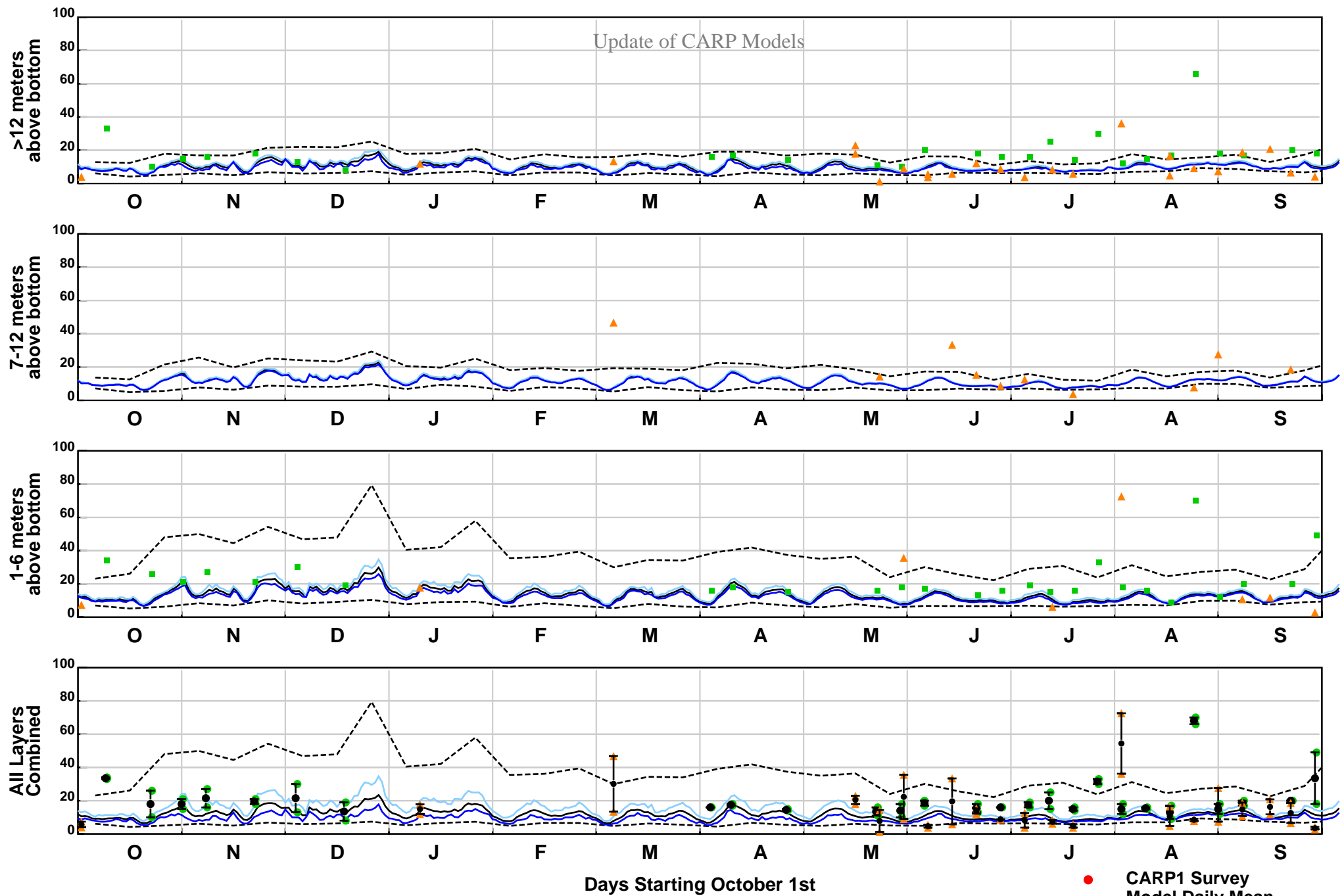


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CARP2 Grid Cell (12,27)

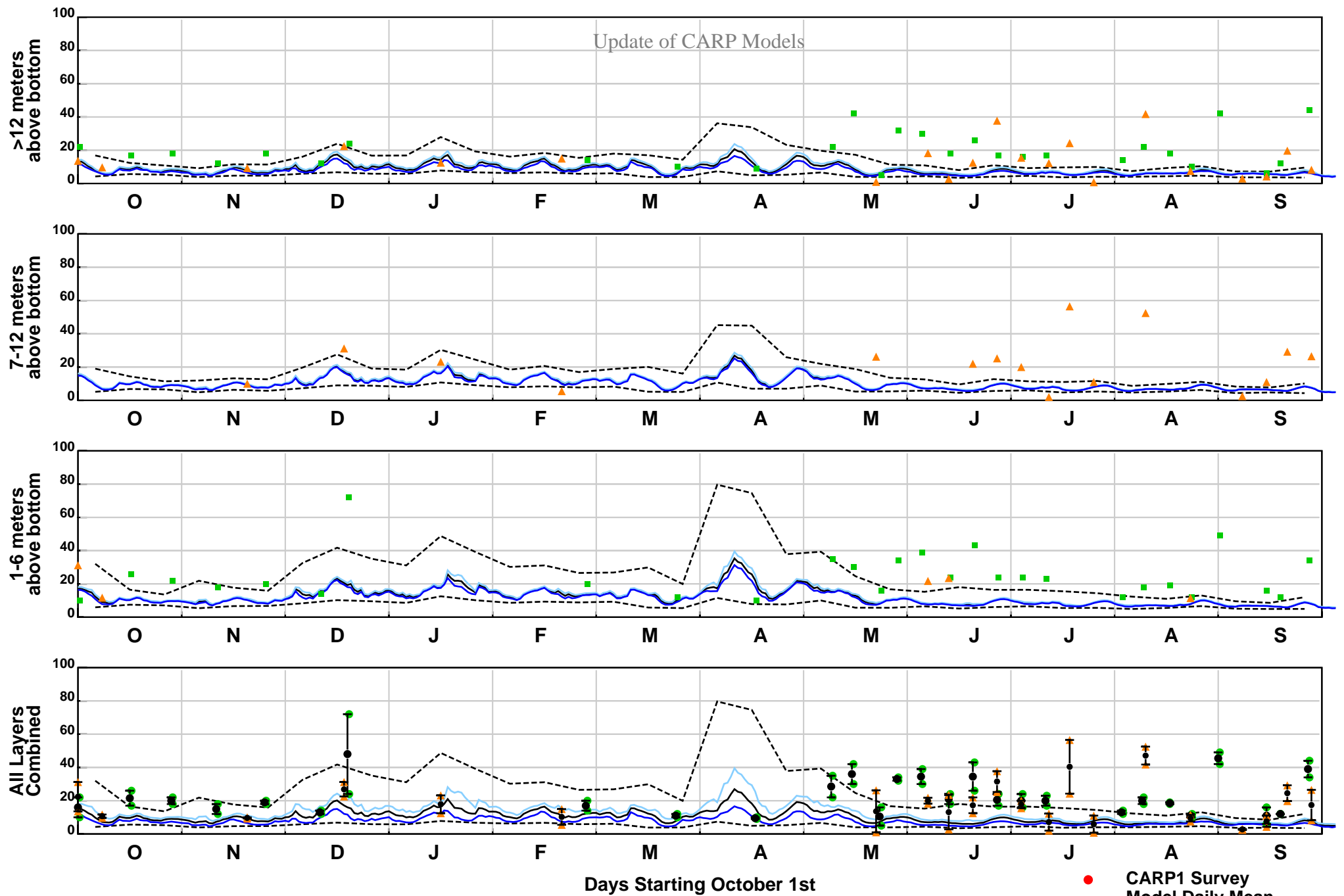


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Newark Bay 1, October 1st, 2003 - September 30, 2004
CARP2 Grid Cell (23,96)

- CARP1 Survey
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- NJHDG Survey
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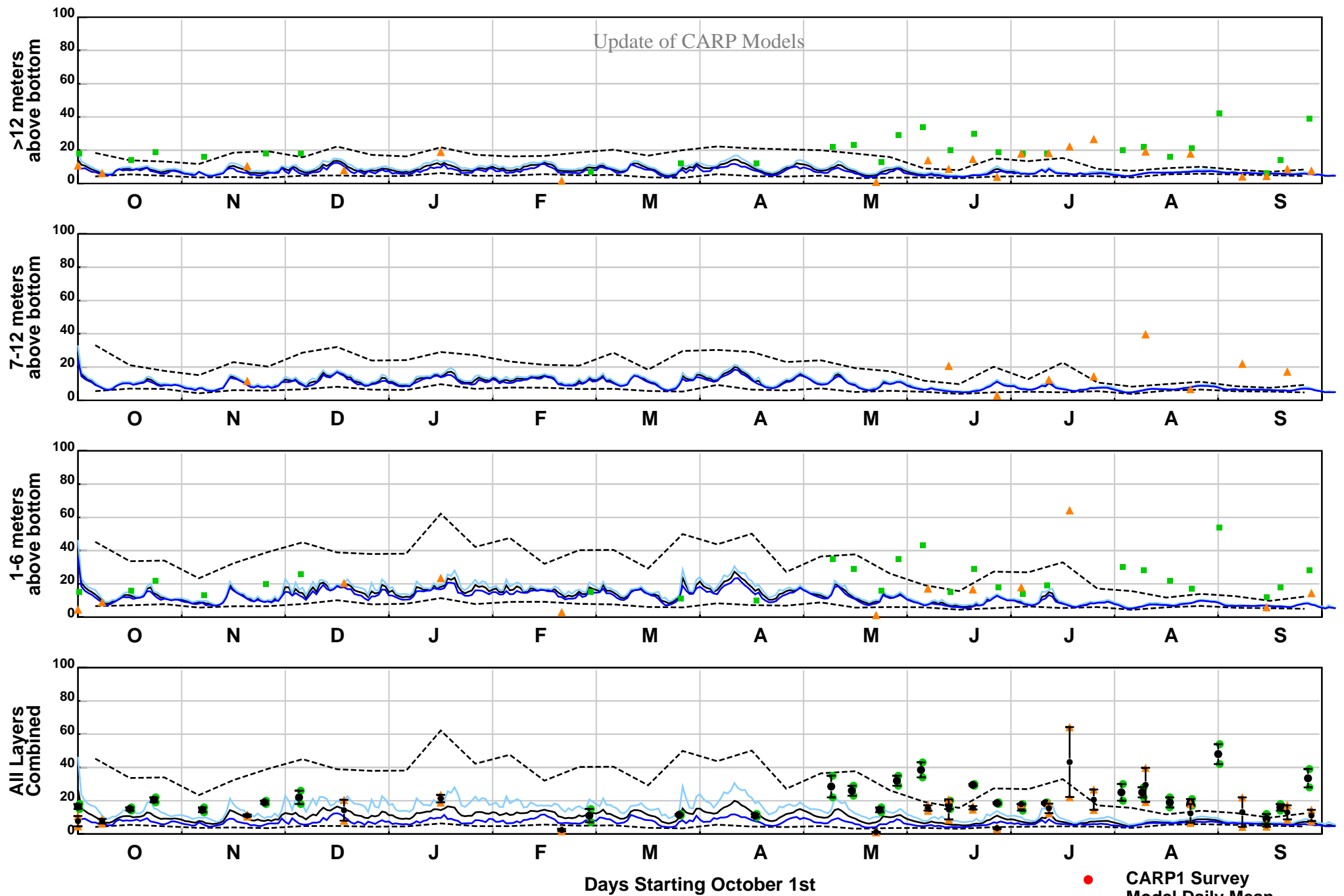


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CARP2 Grid Cell (23,73)

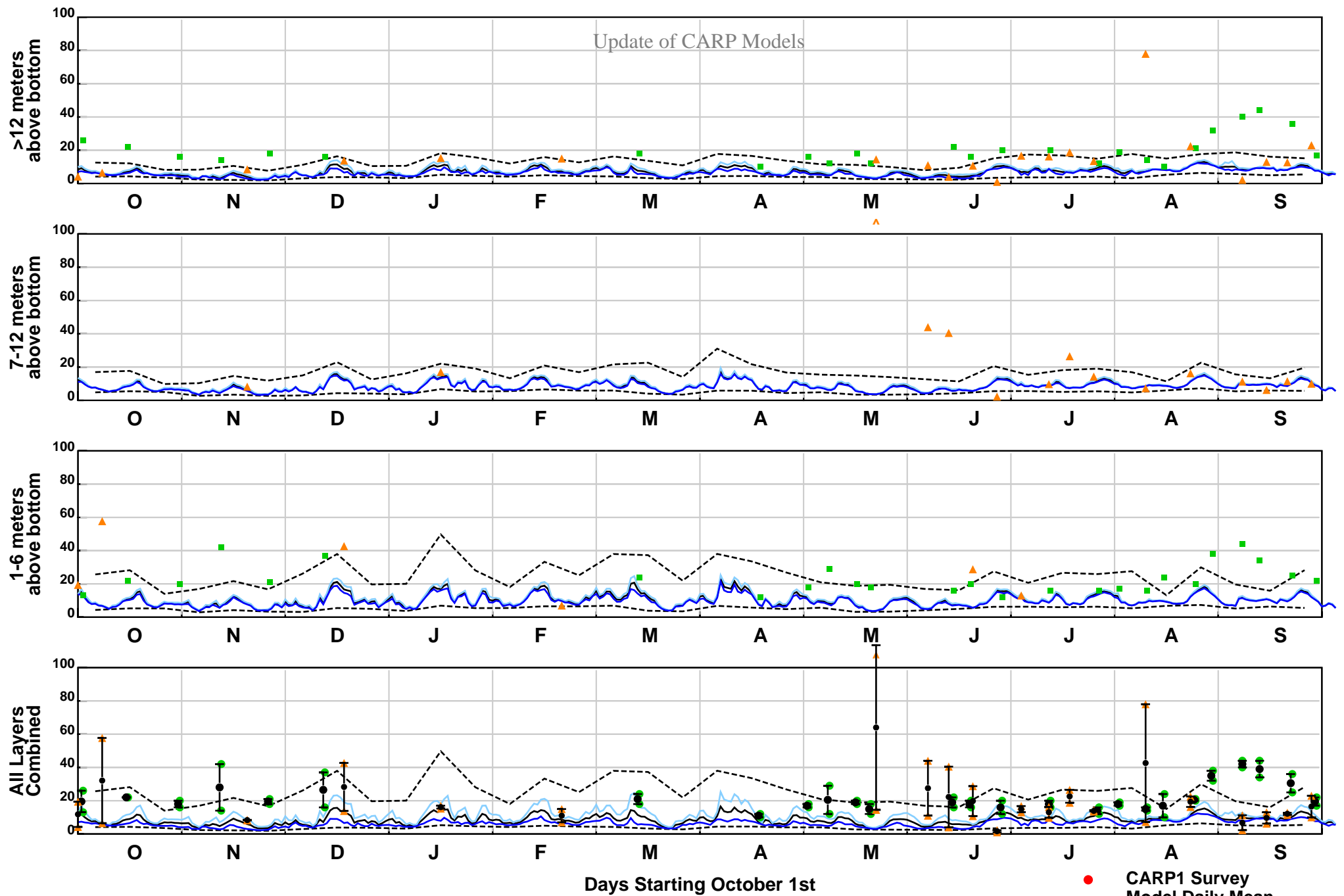


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CARP2 Grid Cell (30,66)

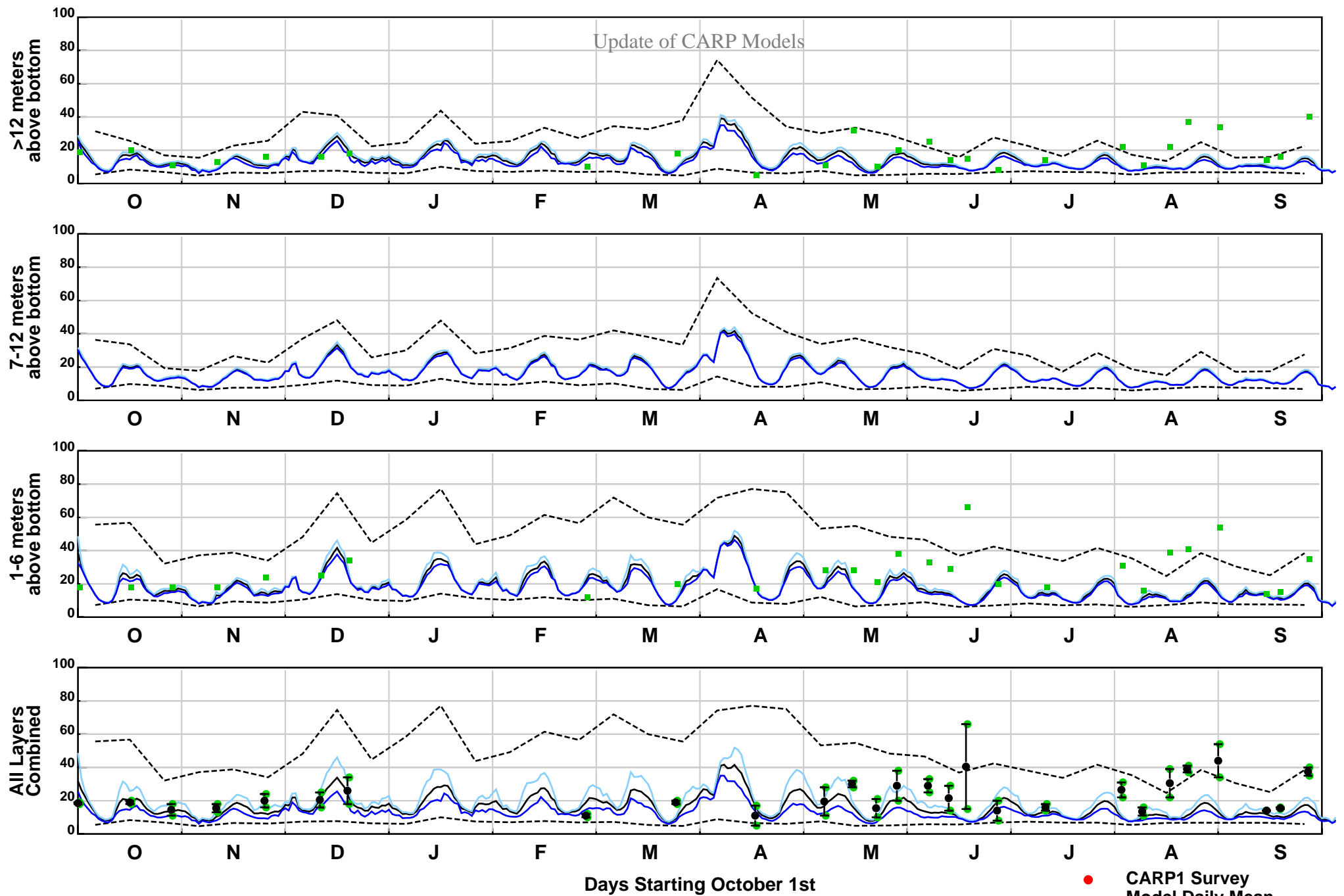
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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



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Arthur Kill, October 1st, 2004 - September 30, 2005
CARP2 Grid Cell (12,56)

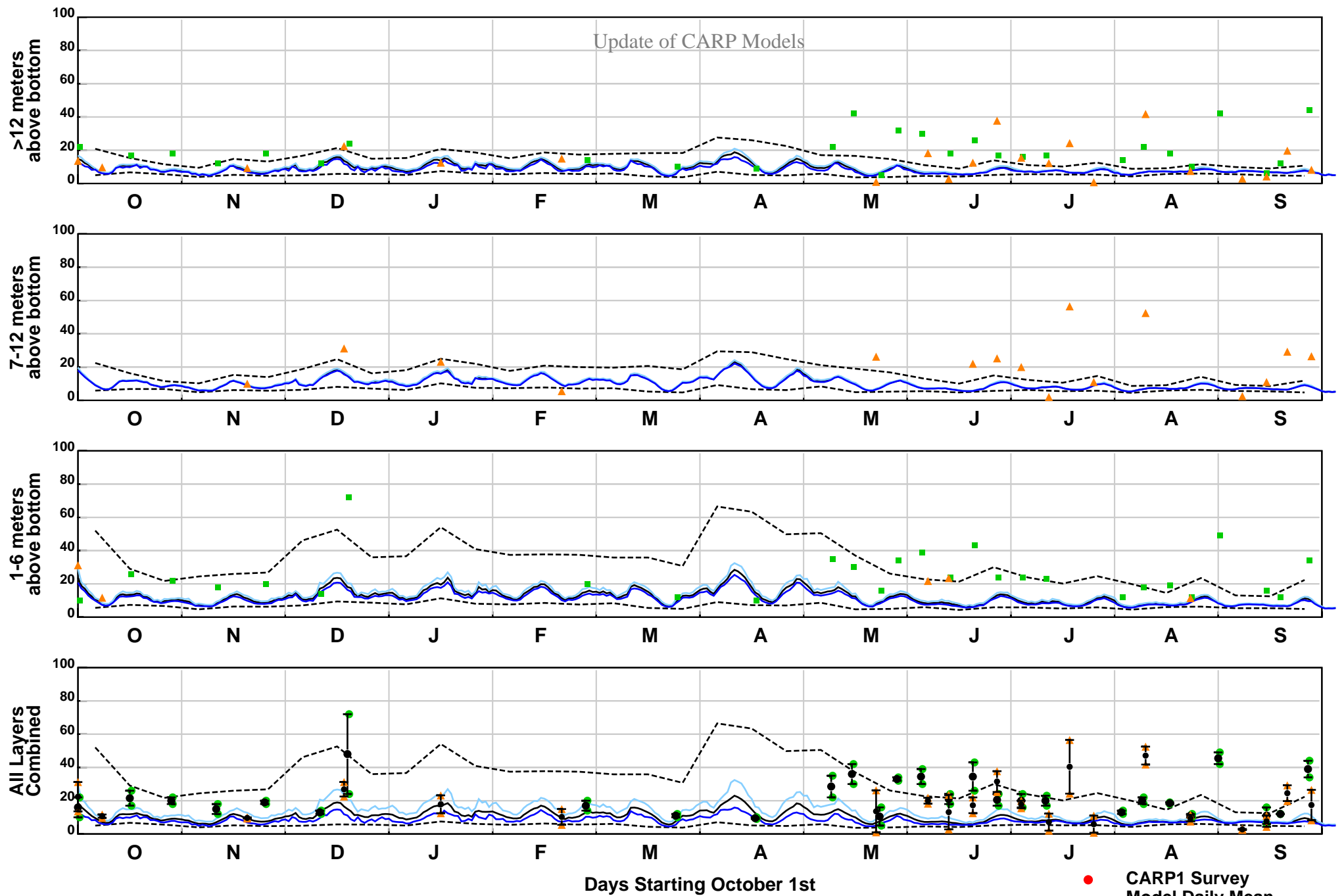


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Perth Amboy, October 1st, 2004 - September 30, 2005
CARP2 Grid Cell (12,27)



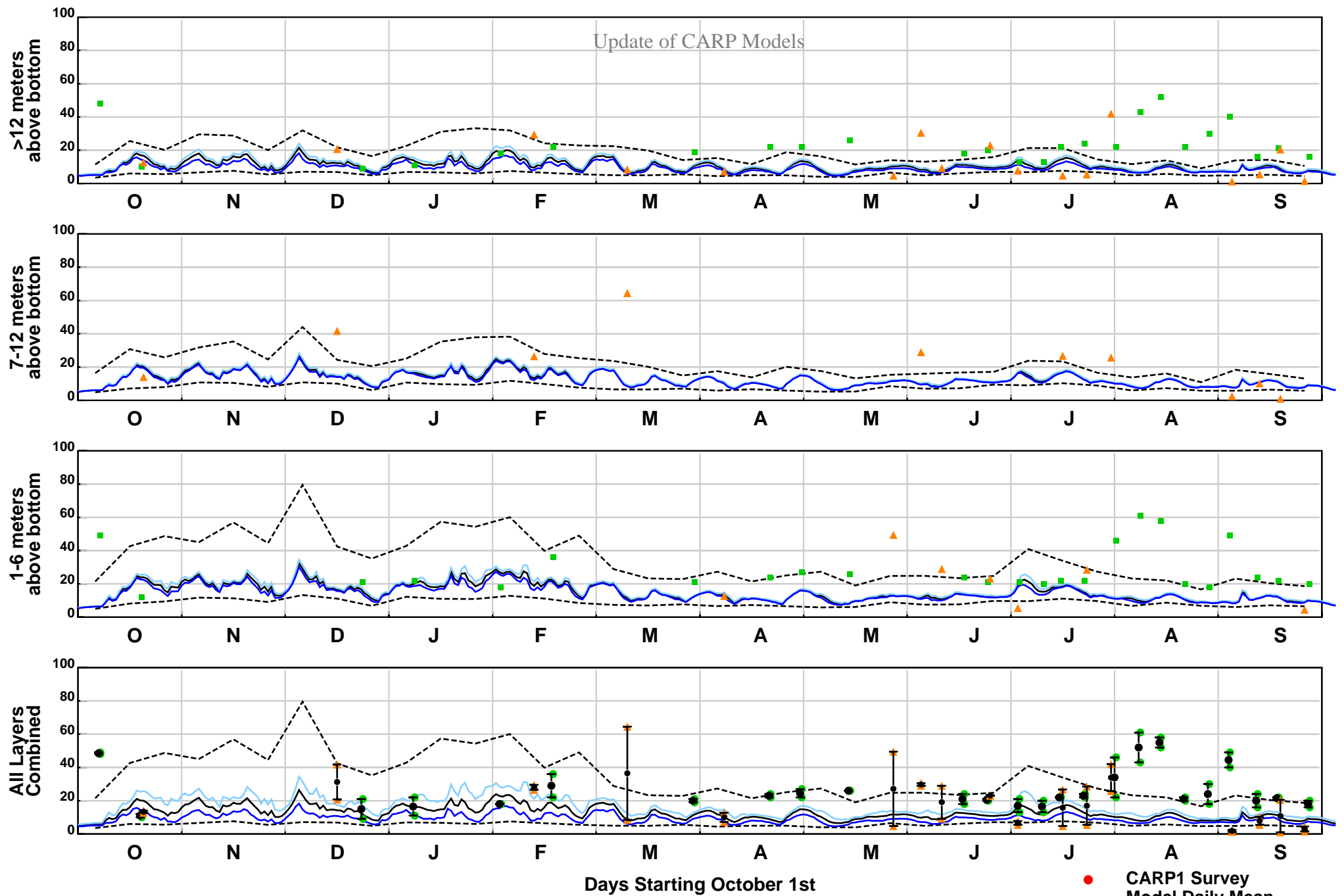
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CARP2 Grid Cell (23,96)

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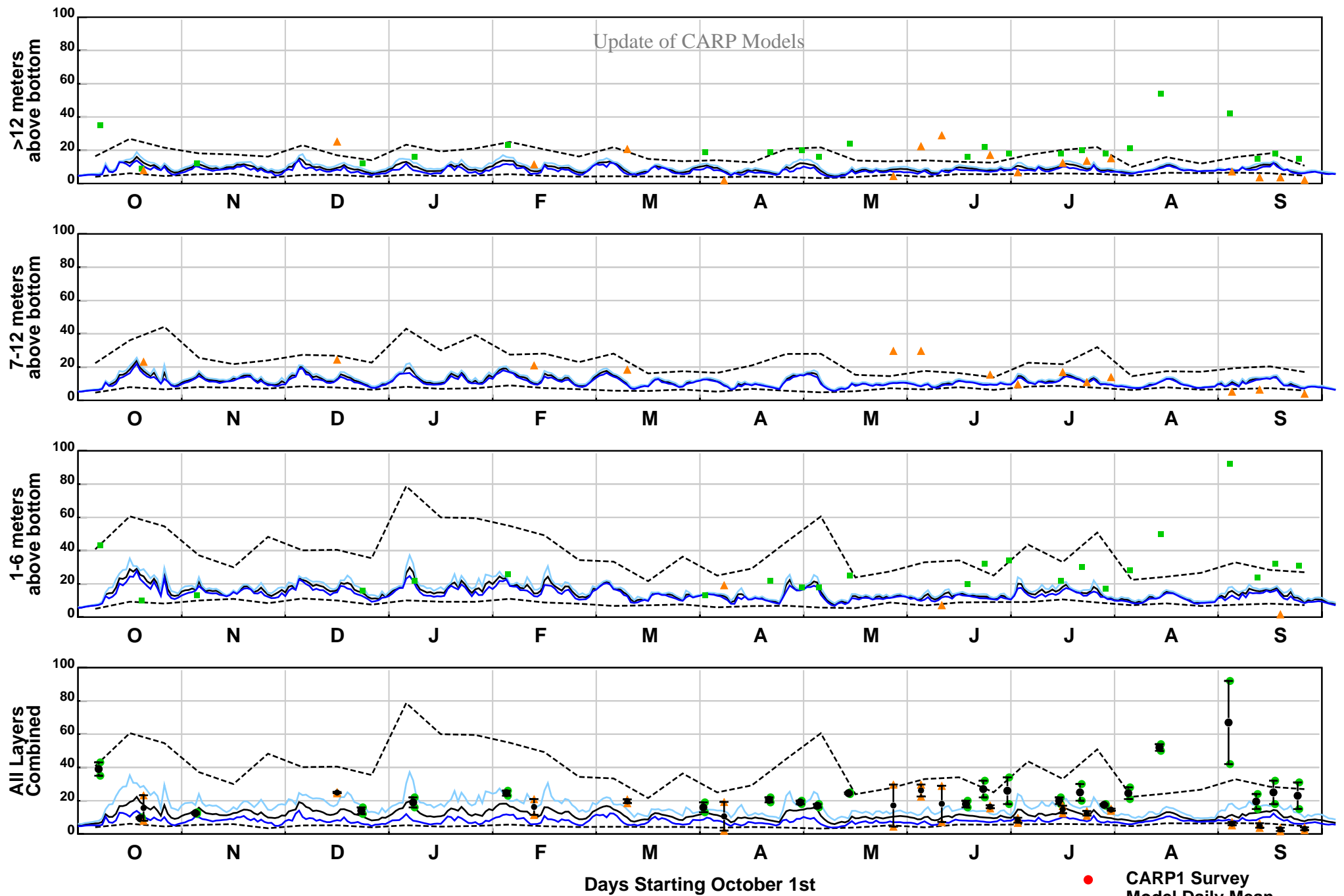
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CARP2 Grid Cell (23,73)

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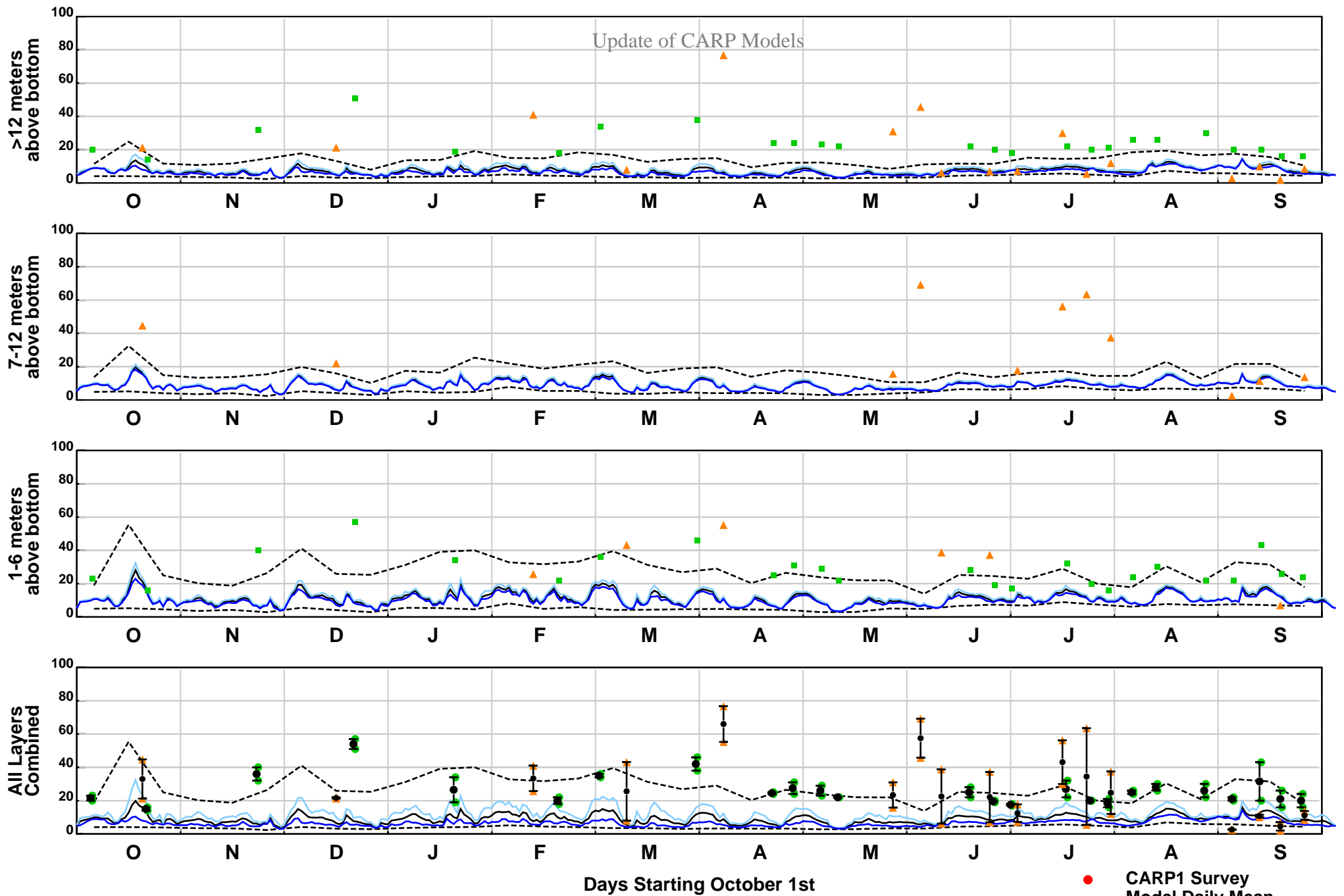
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CARP2 Grid Cell (30,66)

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- Model Daily Min
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- ▲ Harbor Survey

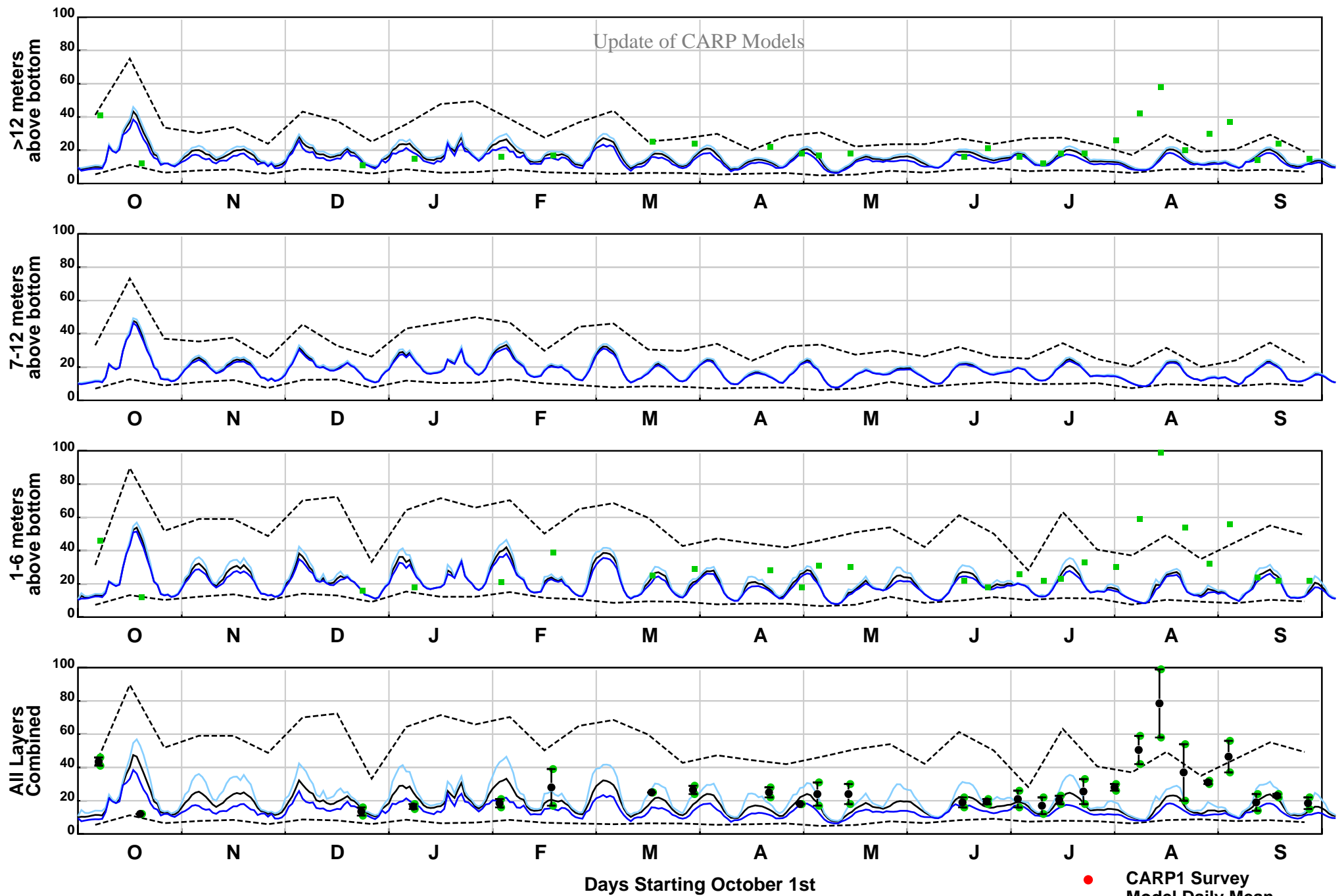


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Arthur Kill, October 1st, 2005 - September 30, 2006
CARP2 Grid Cell (12,56)

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- Model Daily Max
- Model Daily Min
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- ▲ Harbor Survey

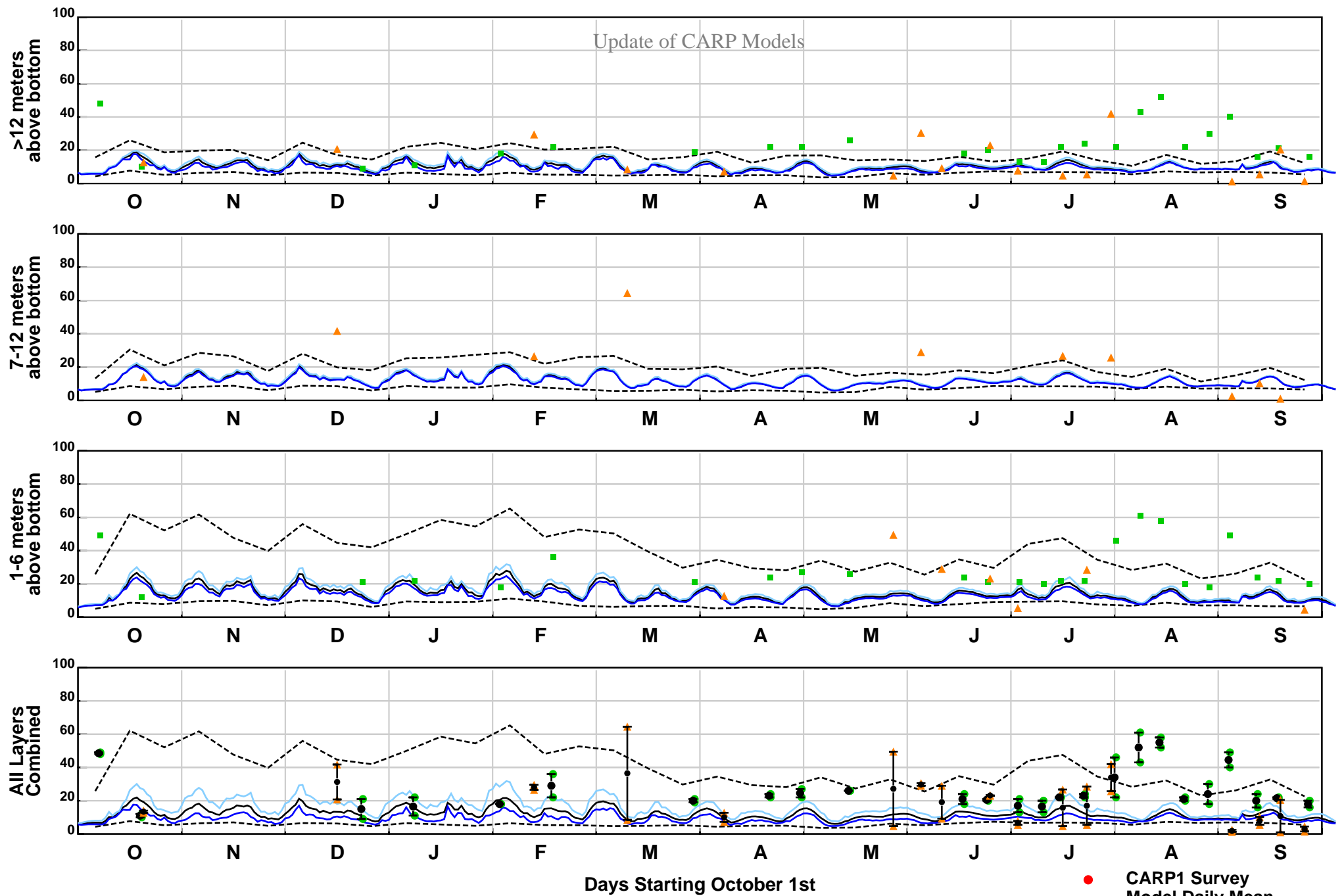


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CARP2 Grid Cell (12,27)



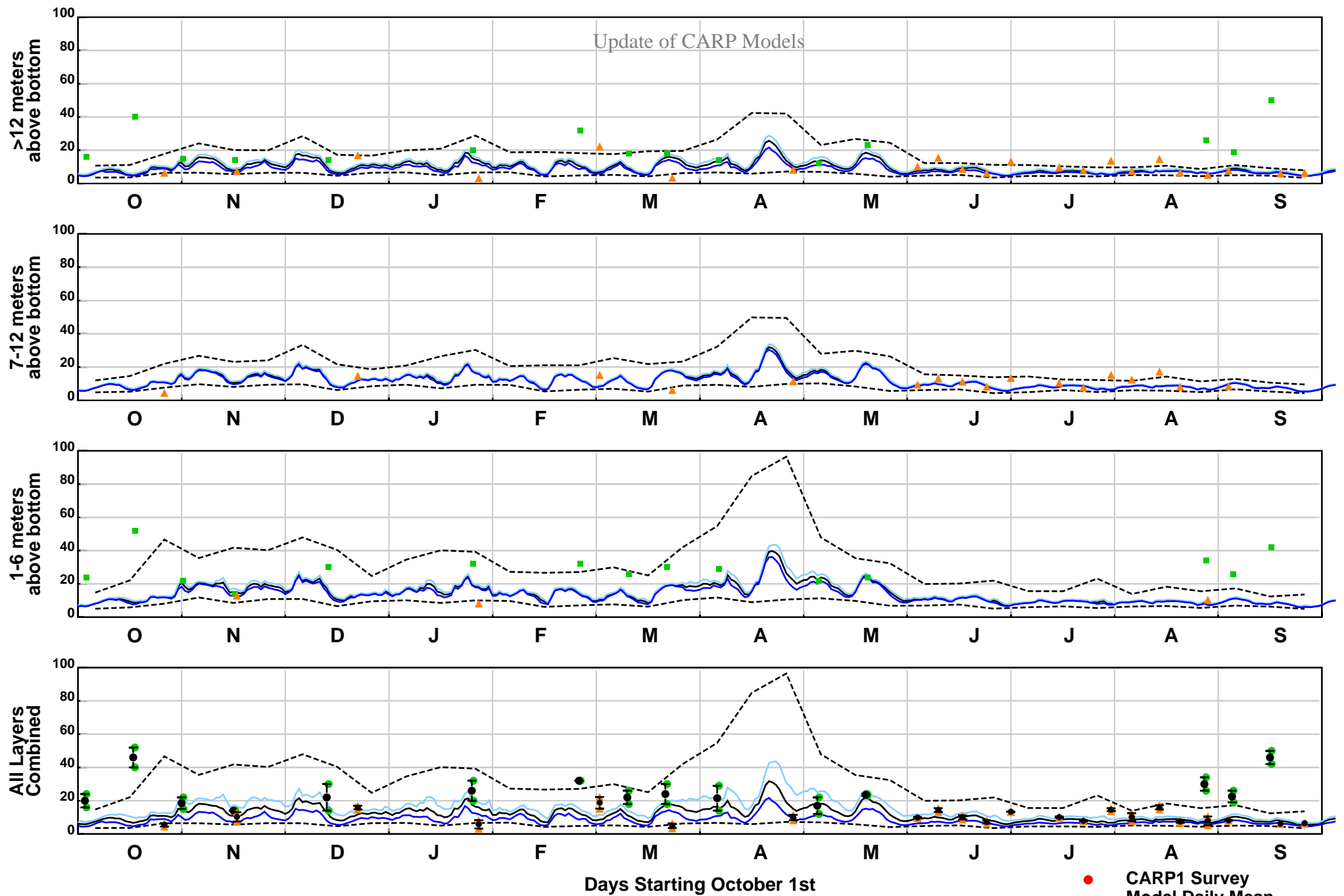
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CARP2 Grid Cell (23,96)

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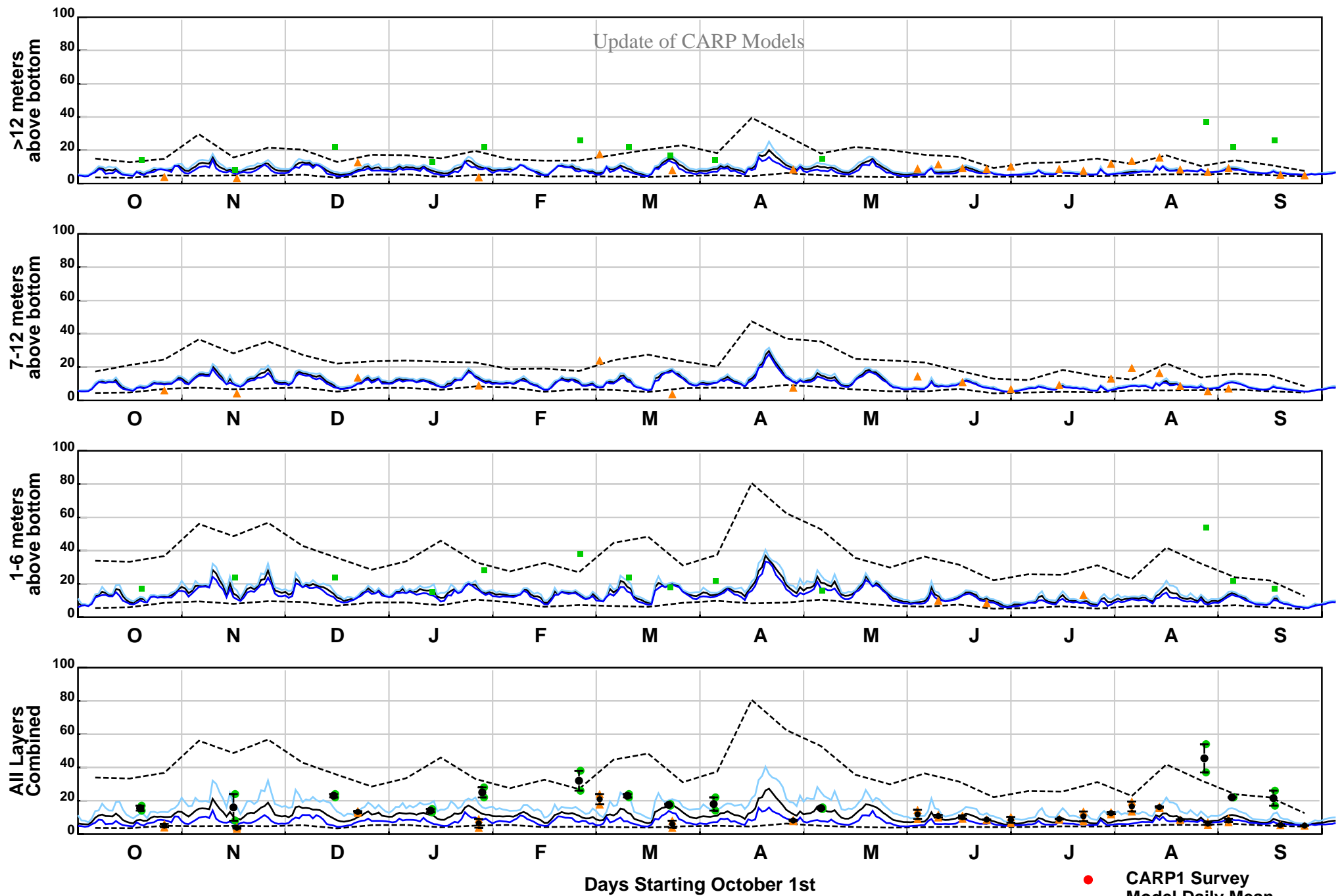
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CARP2 Grid Cell (23,73)

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- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



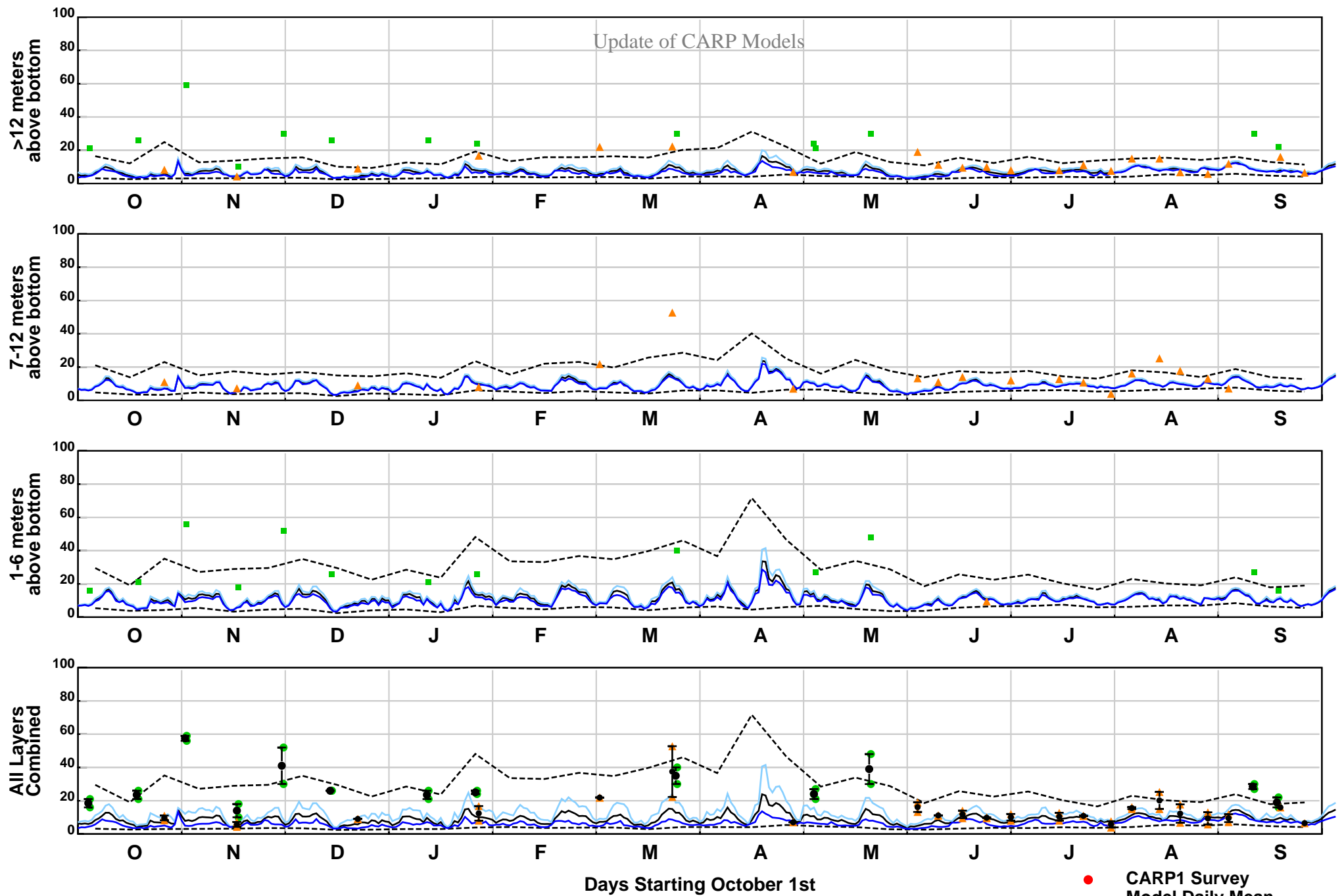
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Kill Van Kull, October 1st, 2006 - September 30, 2007
CARP2 Grid Cell (30,66)

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- NJHDG Survey
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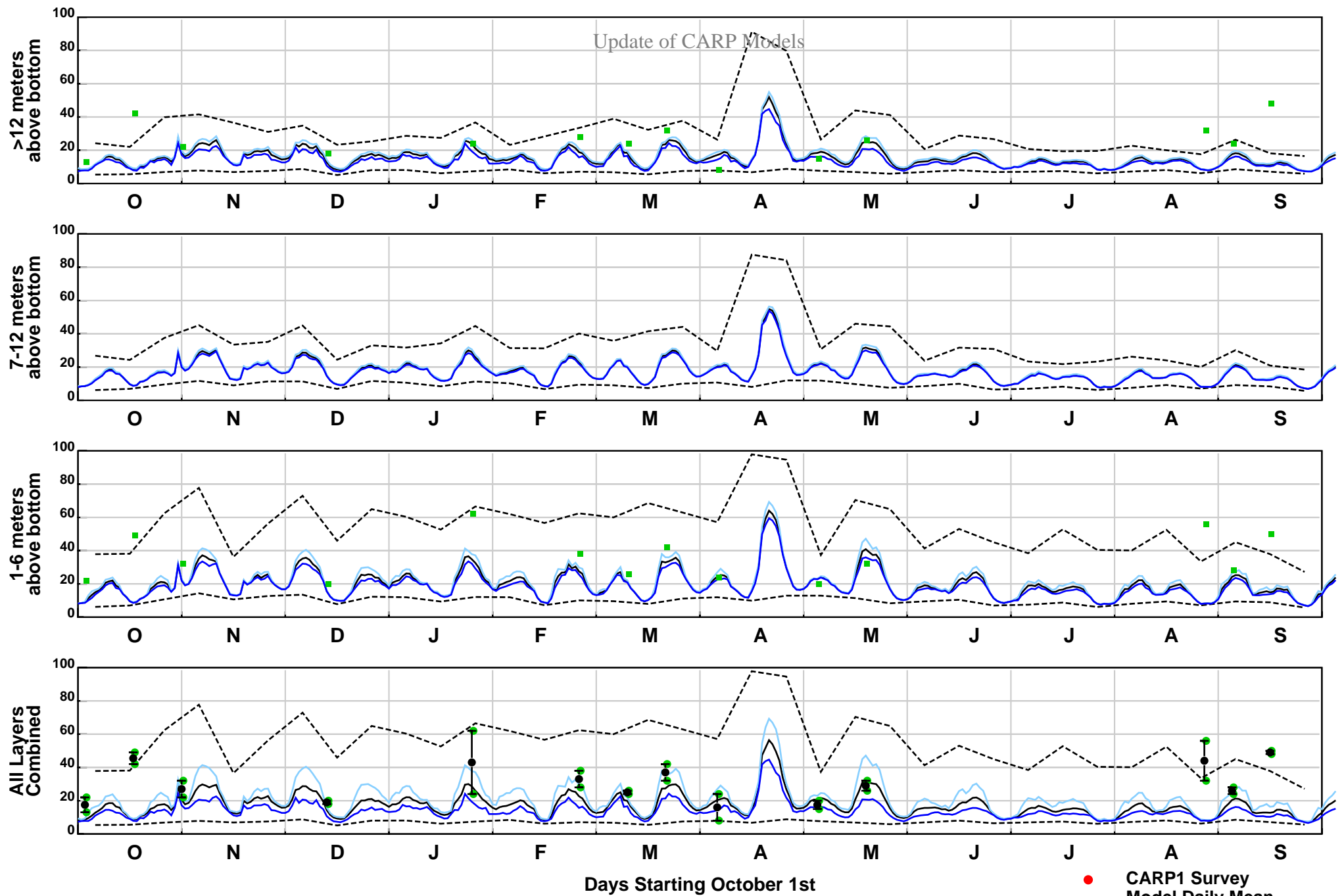


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Arthur Kill, October 1st, 2006 - September 30, 2007
CARP2 Grid Cell (12,56)

- CARP1 Survey
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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

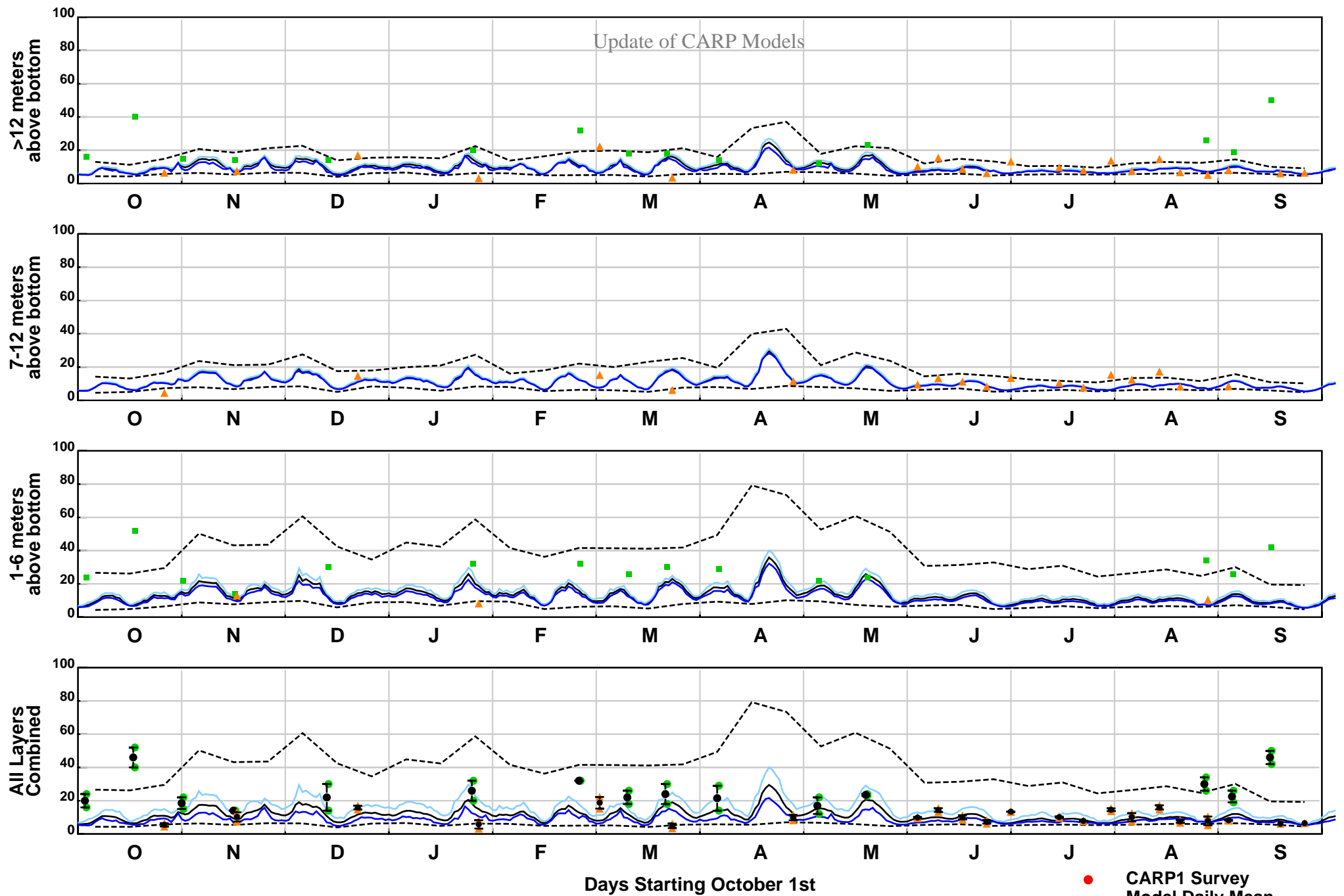


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CARP2 Grid Cell (12,27)

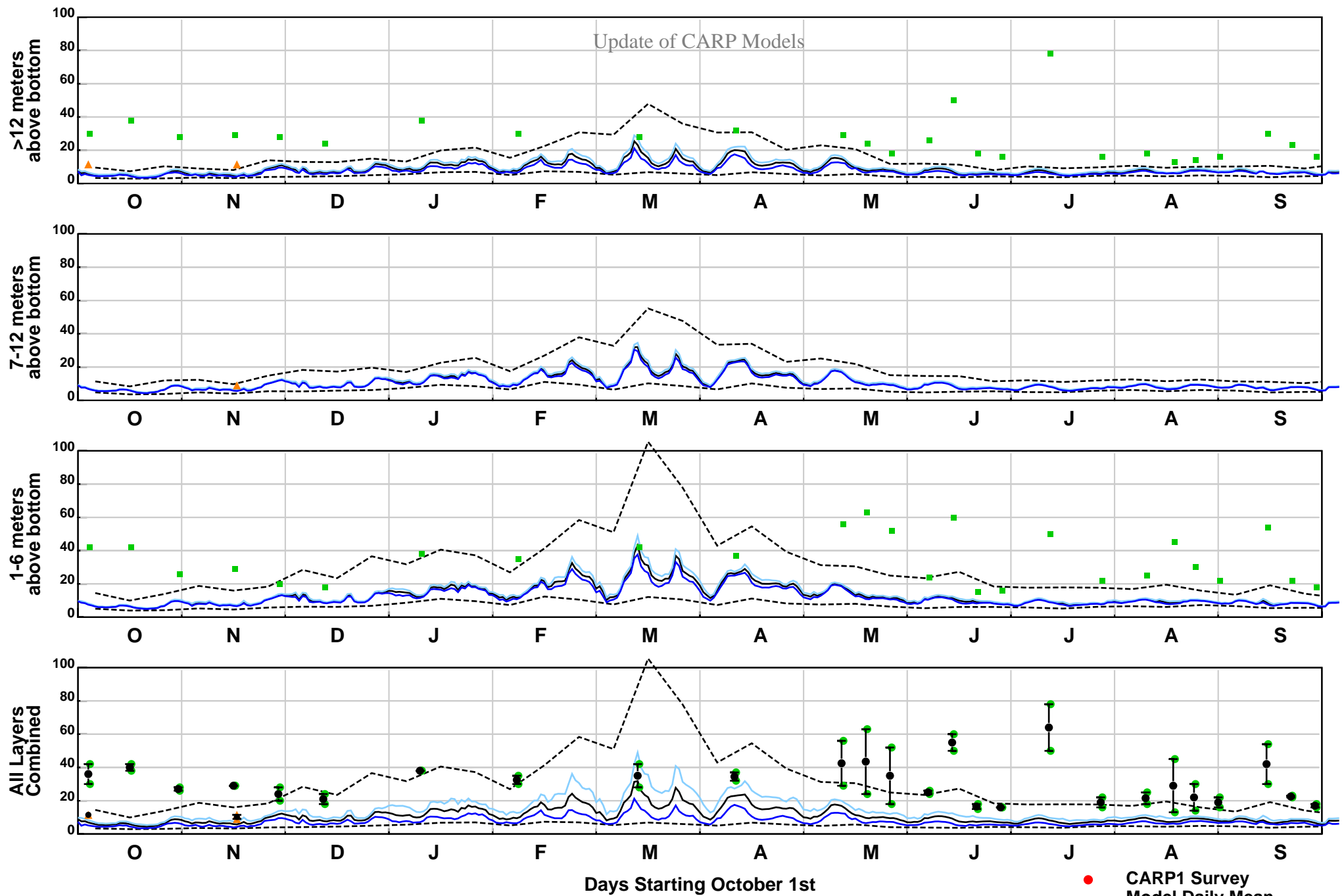


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CARP2 Grid Cell (23,96)

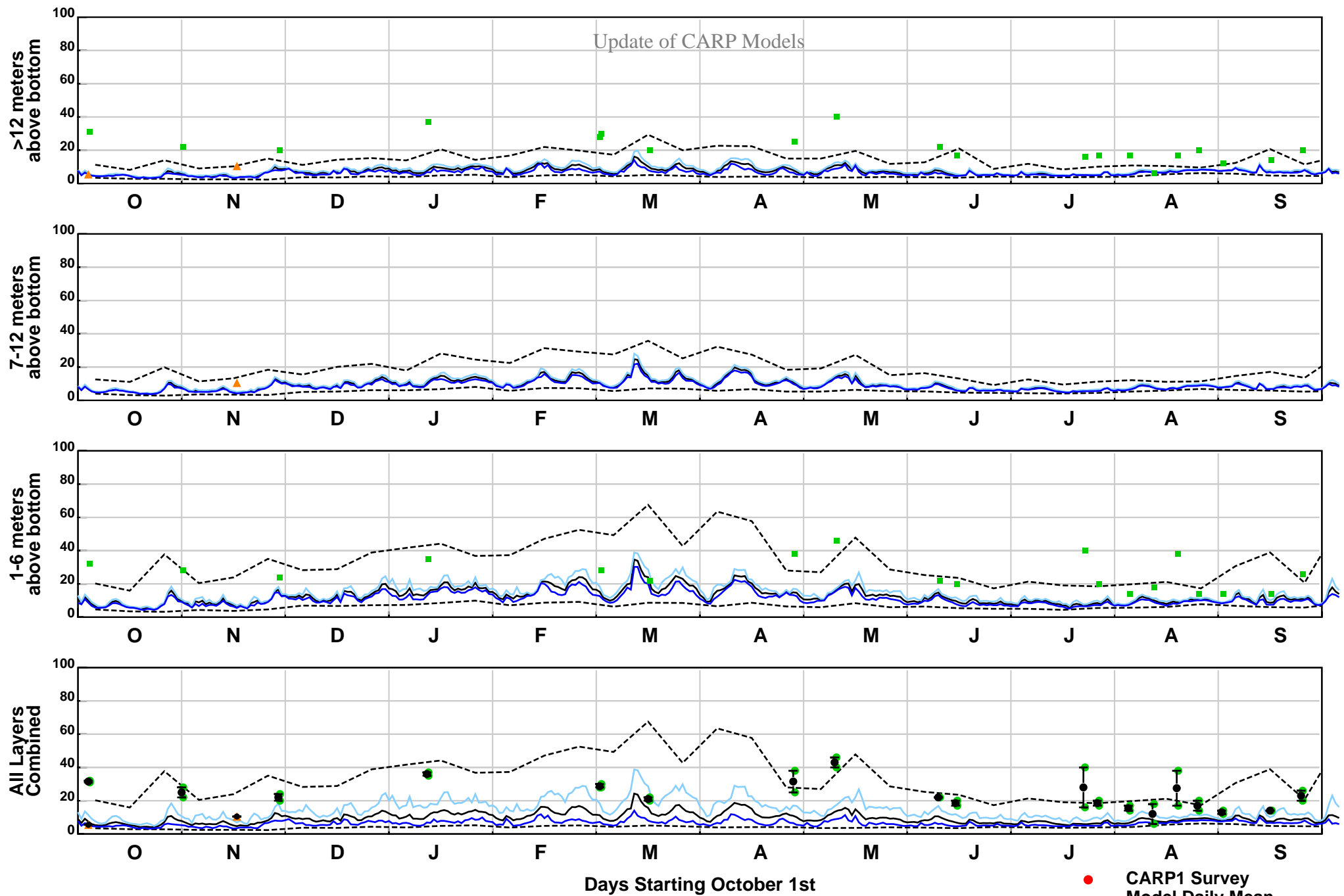
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- ▲ Harbor Survey



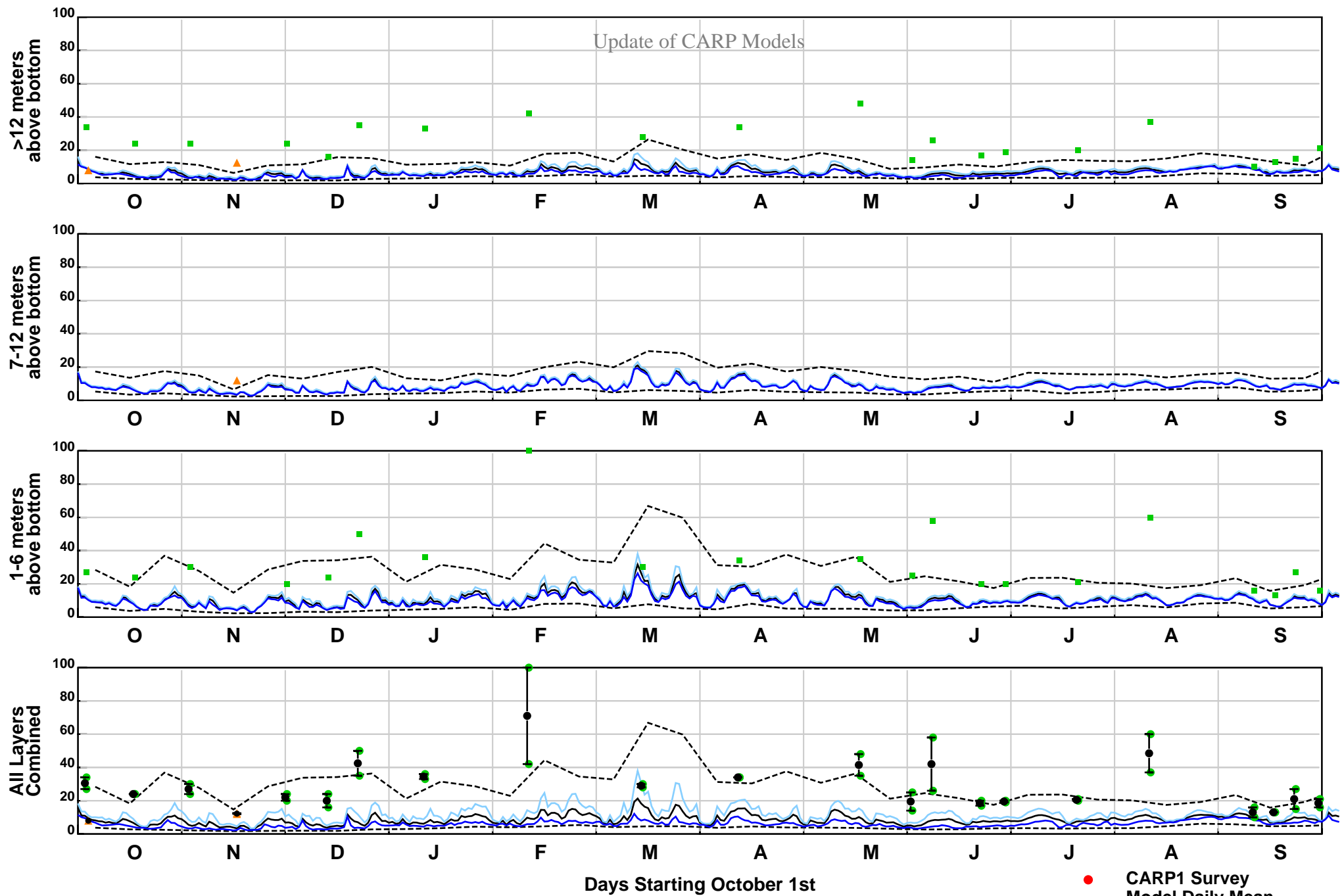
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CARP2 Grid Cell (23,73)



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Kill Van Kull, October 1st, 2007 - September 30, 2008
CARP2 Grid Cell (30,66)

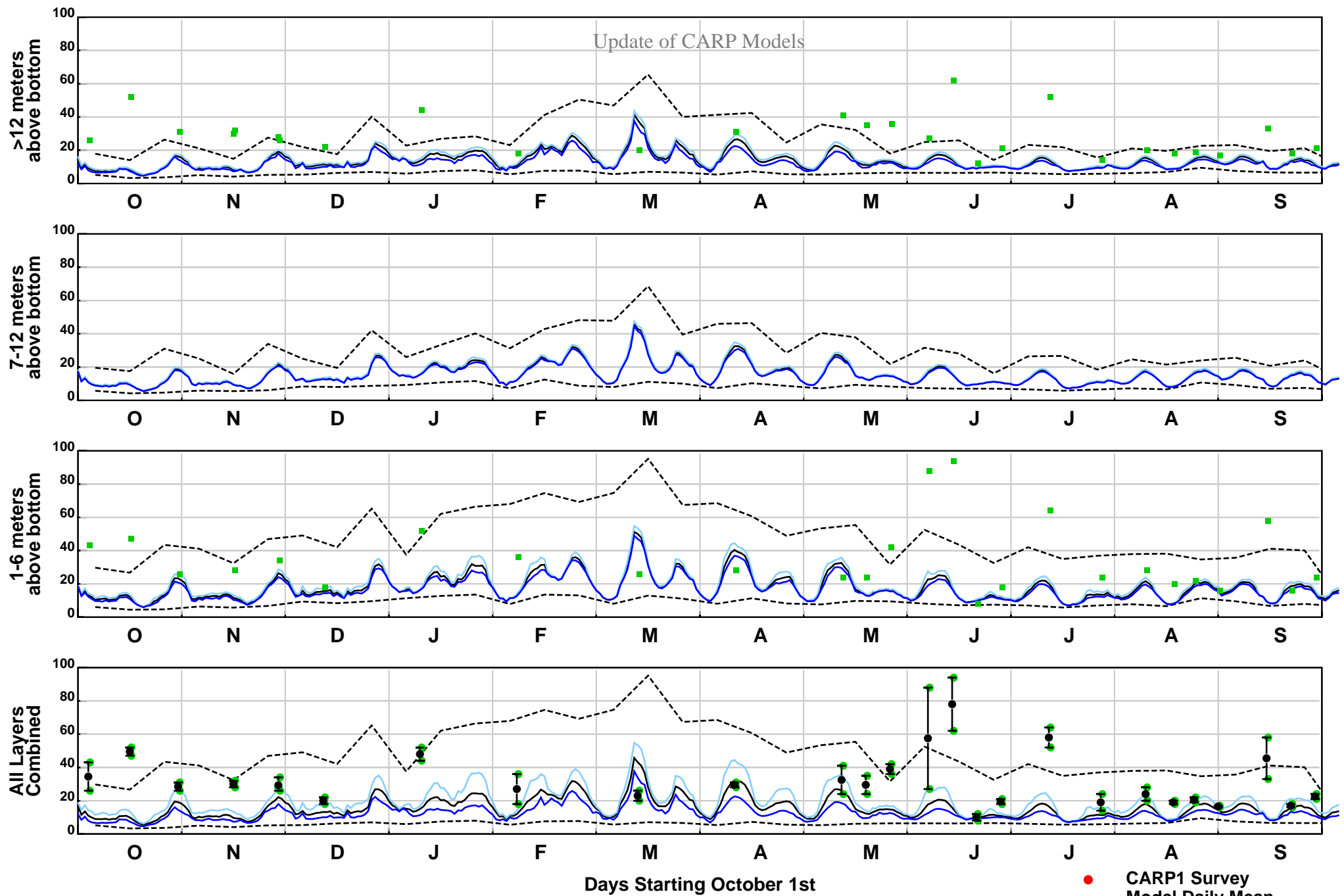


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CARP2 Grid Cell (12,56)



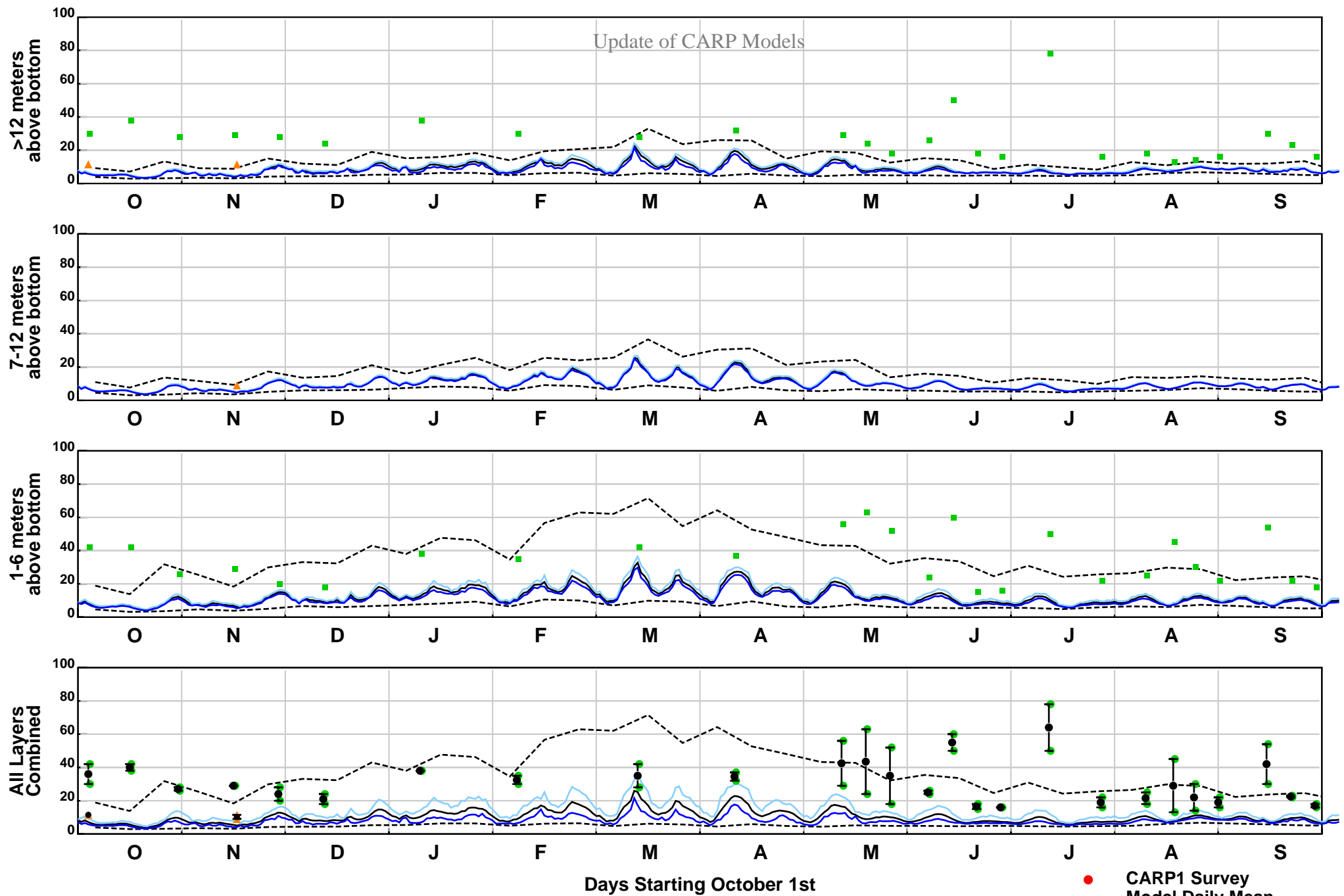
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Perth Amboy, October 1st, 2007 - September 30, 2008
CARP2 Grid Cell (12,27)

- CARP1 Survey
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- Model Daily Max
- Model Daily Min
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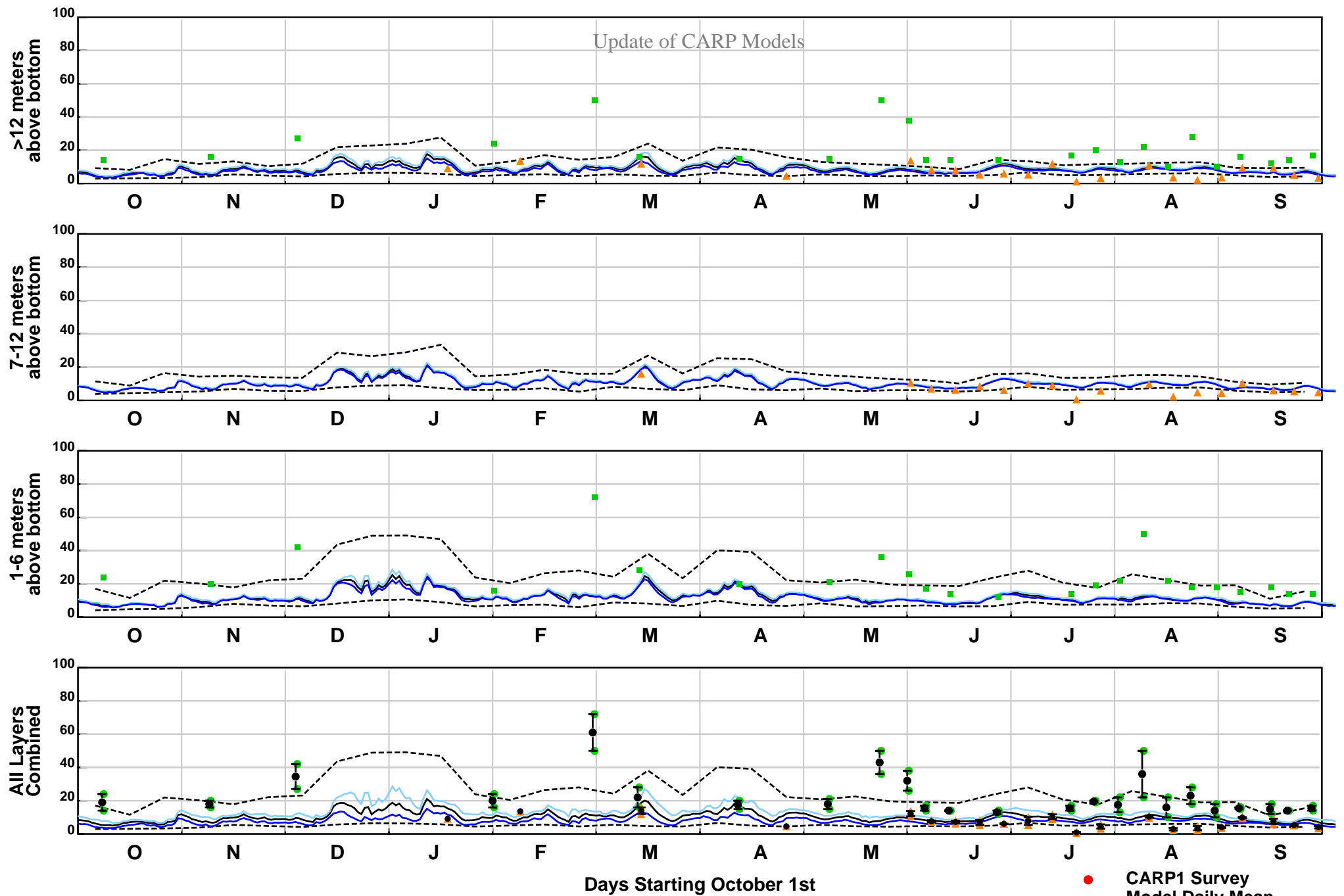


ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 1, October 1st, 2007 - September 30, 2008
CARP2 Grid Cell (23,96)

- CARP1 Survey
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- Model Daily Max
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- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

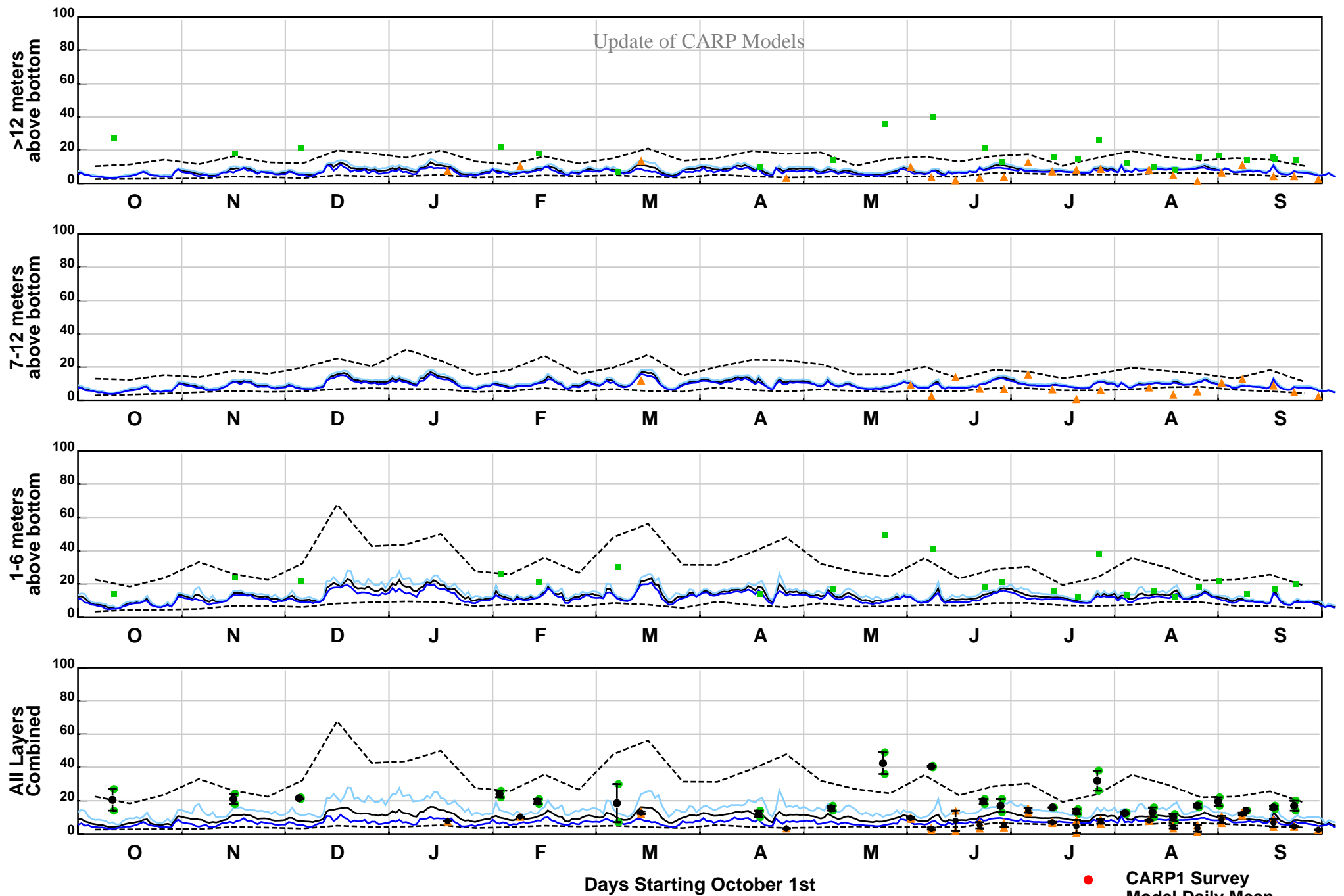


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Newark Bay 2, October 1st, 2007 - September 30, 2008
CARP2 Grid Cell (23,73)



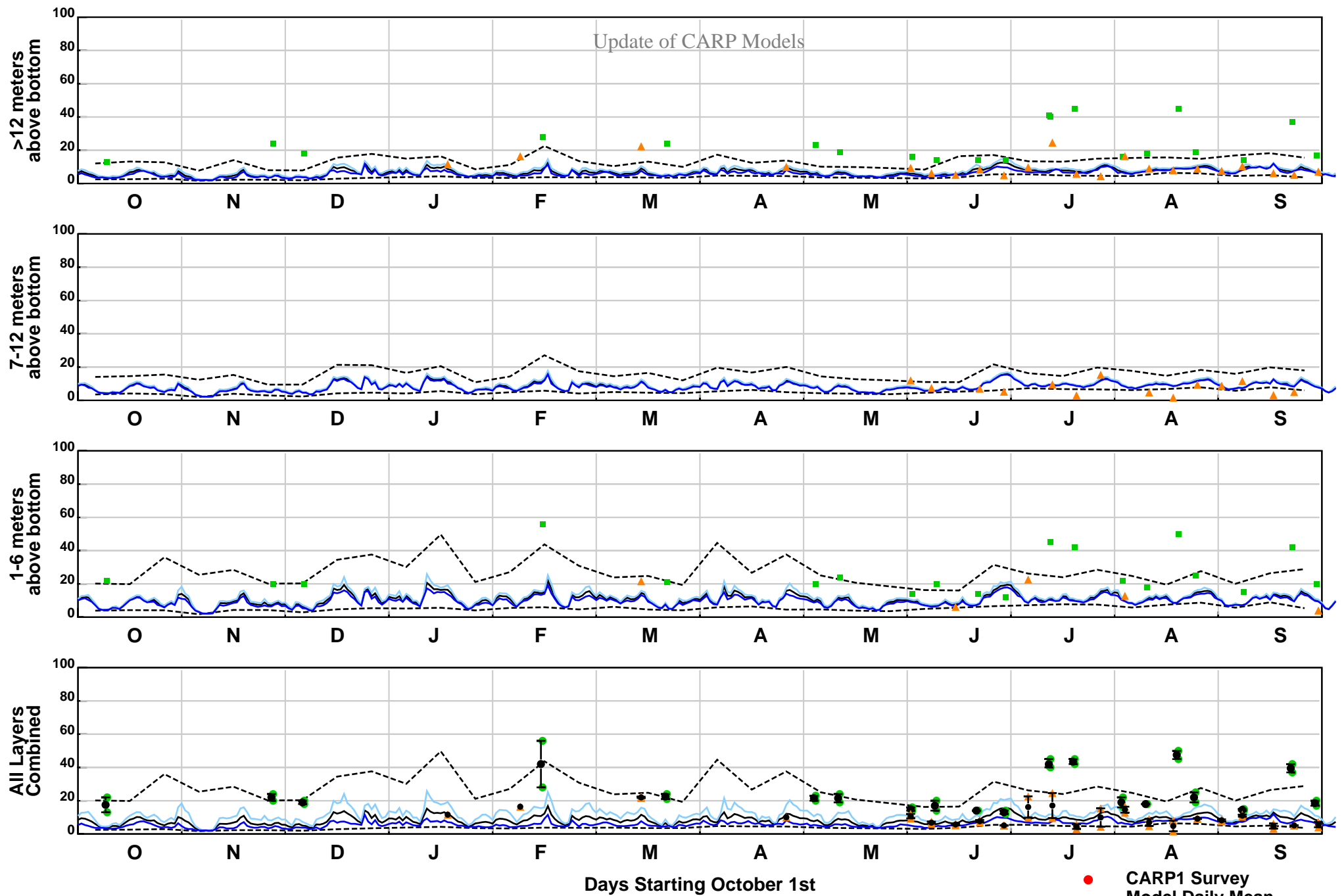
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Kill Van Kull, October 1st, 2008 - September 30, 2009
CARP2 Grid Cell (30,66)

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- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



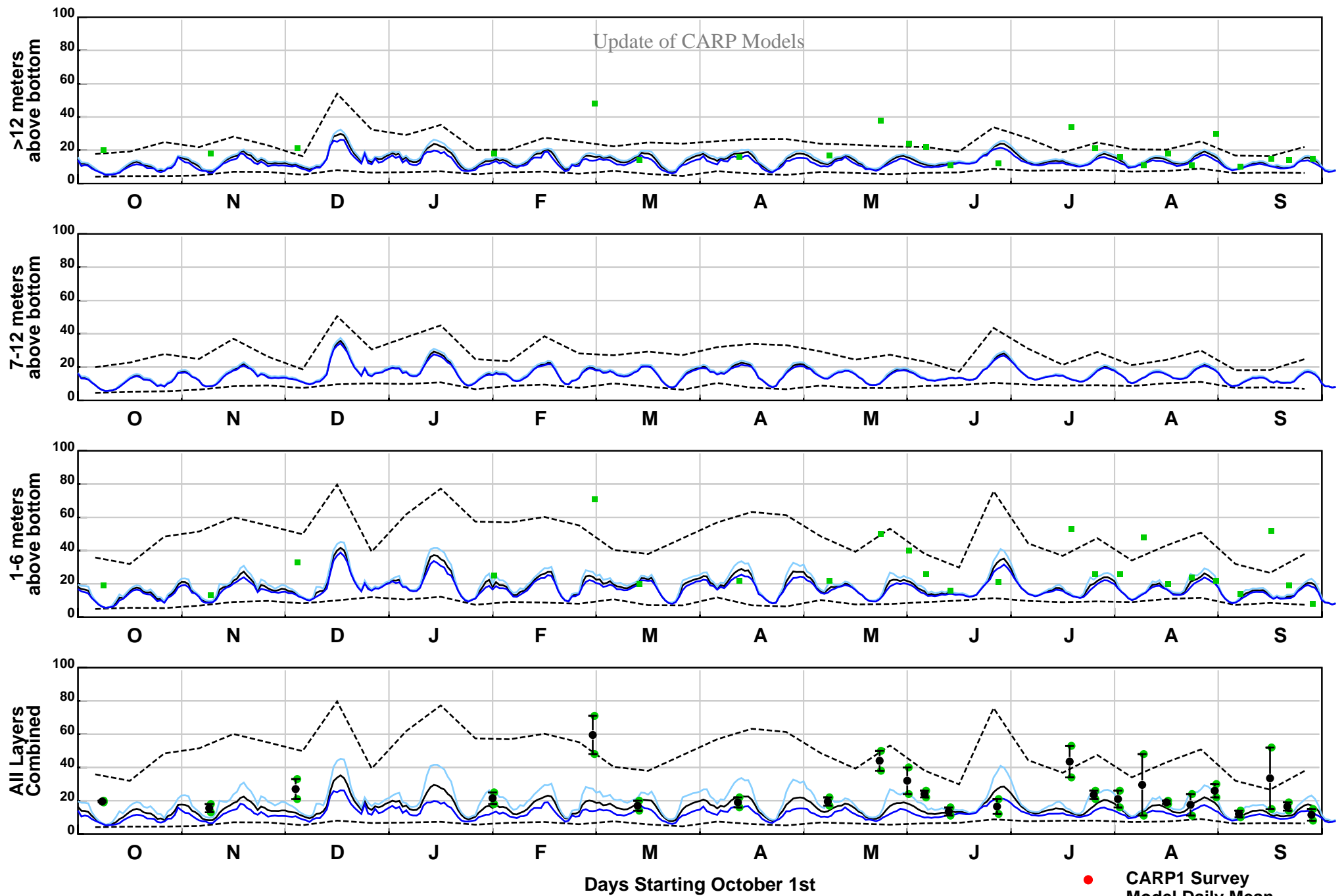
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Arthur Kill, October 1st, 2008 - September 30, 2009
CARP2 Grid Cell (12,56)

- CARP1 Survey
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- Model Daily Max
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- - - Instantaneous Max/Min
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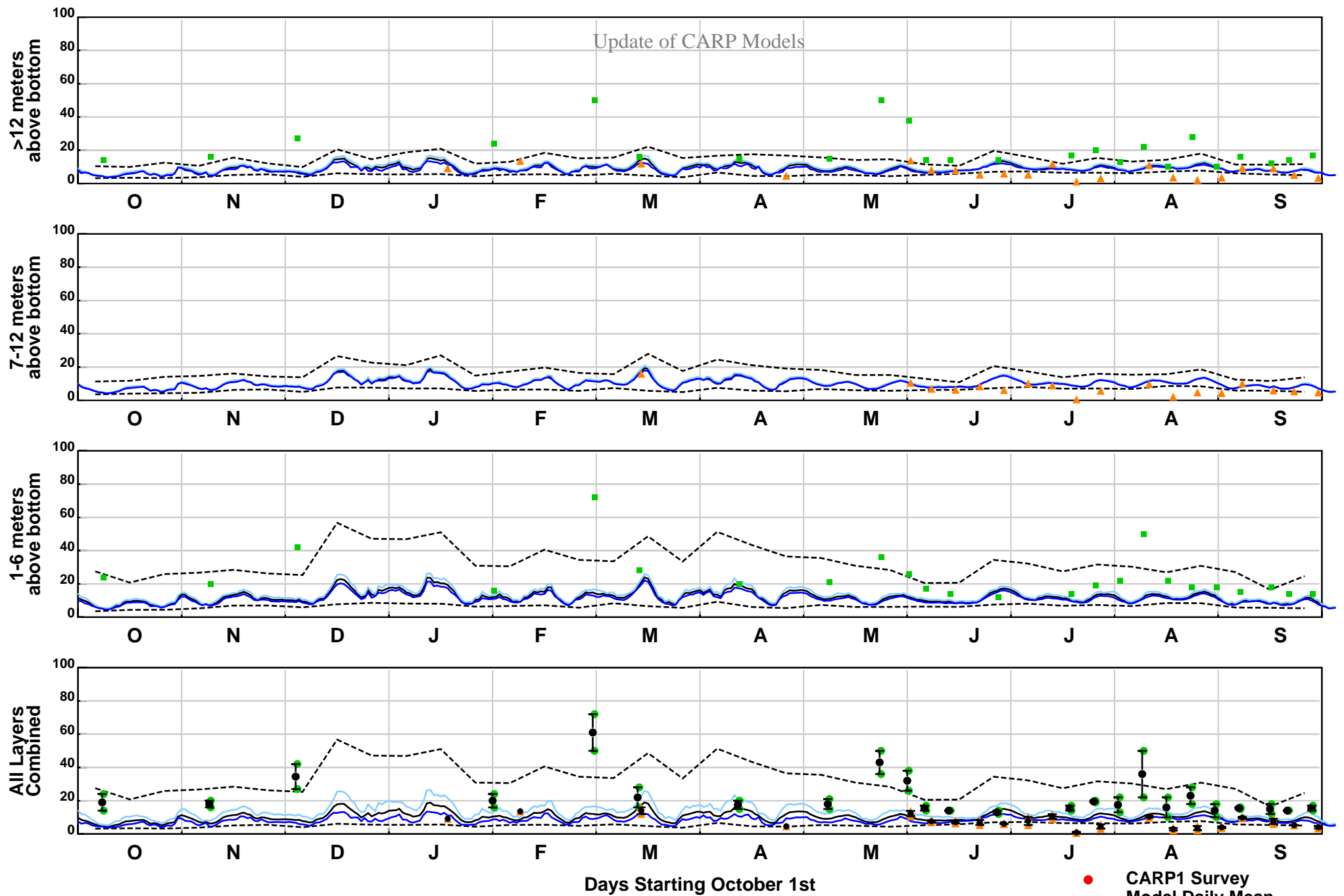


ST-SWEM Suspended Sediment Concentrations (mg/L)
Perth Amboy, October 1st, 2008 - September 30, 2009
CARP2 Grid Cell (12,27)

- CARP1 Survey
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- Model Daily Min
- - - Instantaneous Max/Min
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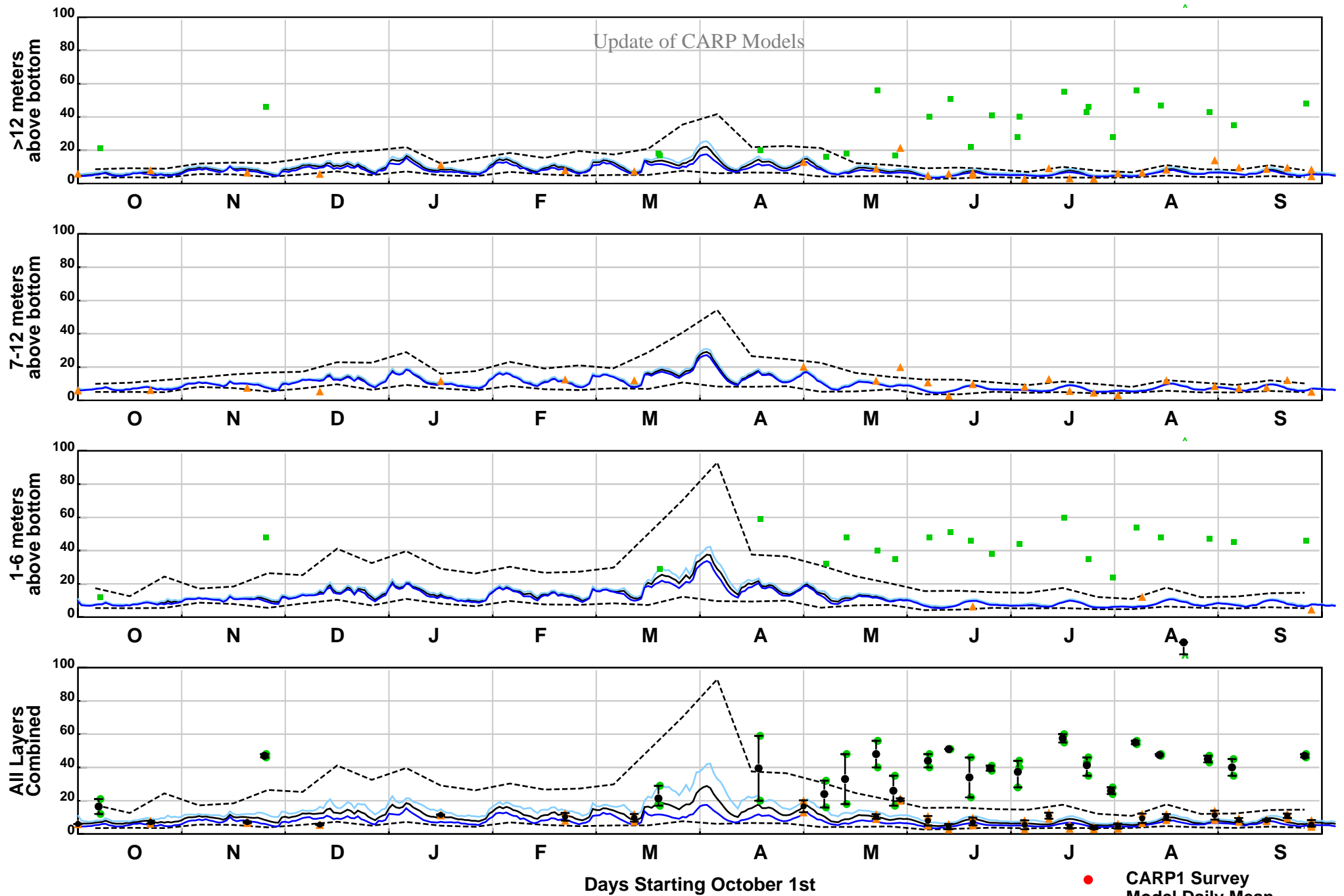


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Newark Bay 1, October 1st, 2008 - September 30, 2009
CARP2 Grid Cell (23,96)



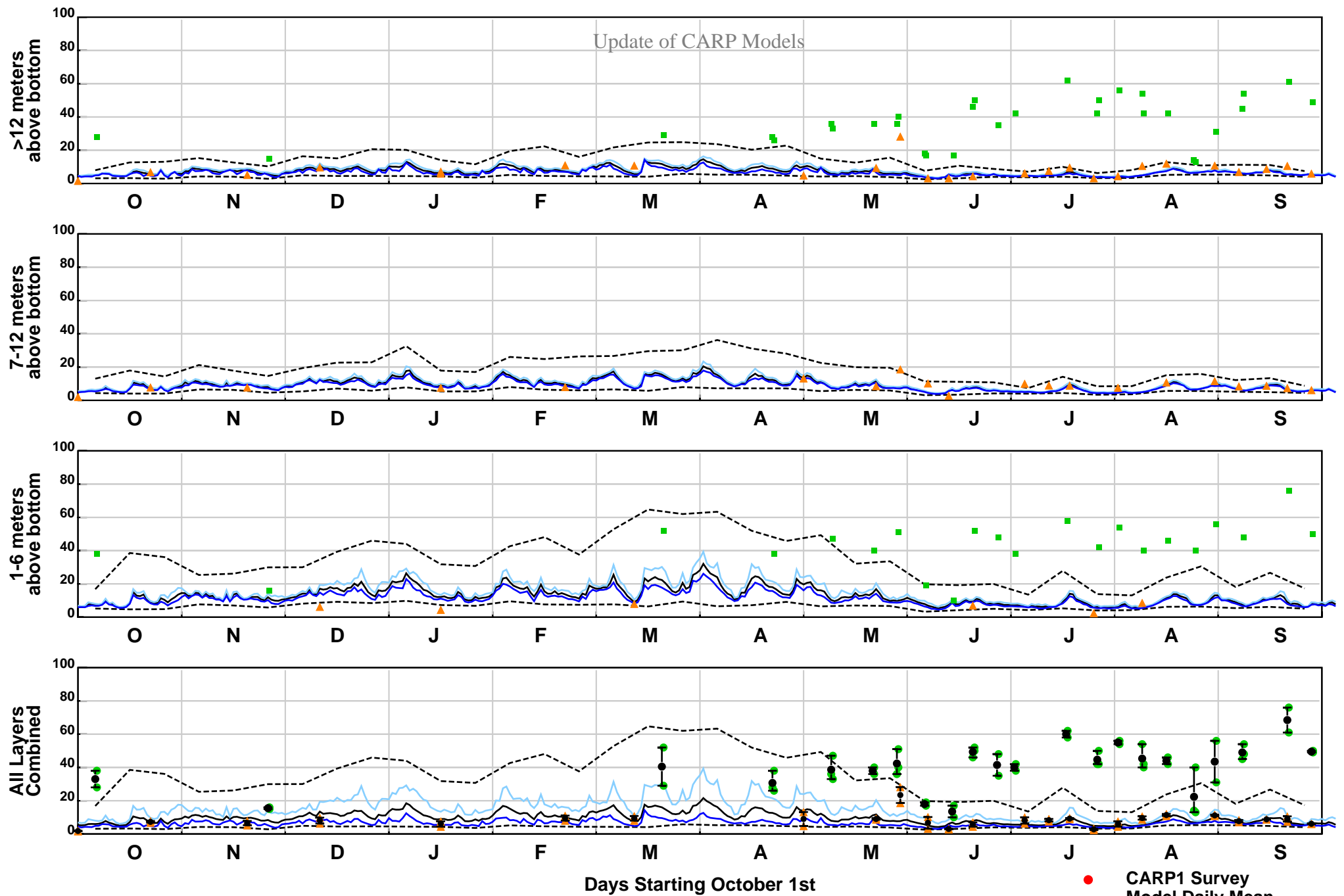
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Newark Bay 2, October 1st, 2008 - September 30, 2009
CARP2 Grid Cell (23,73)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



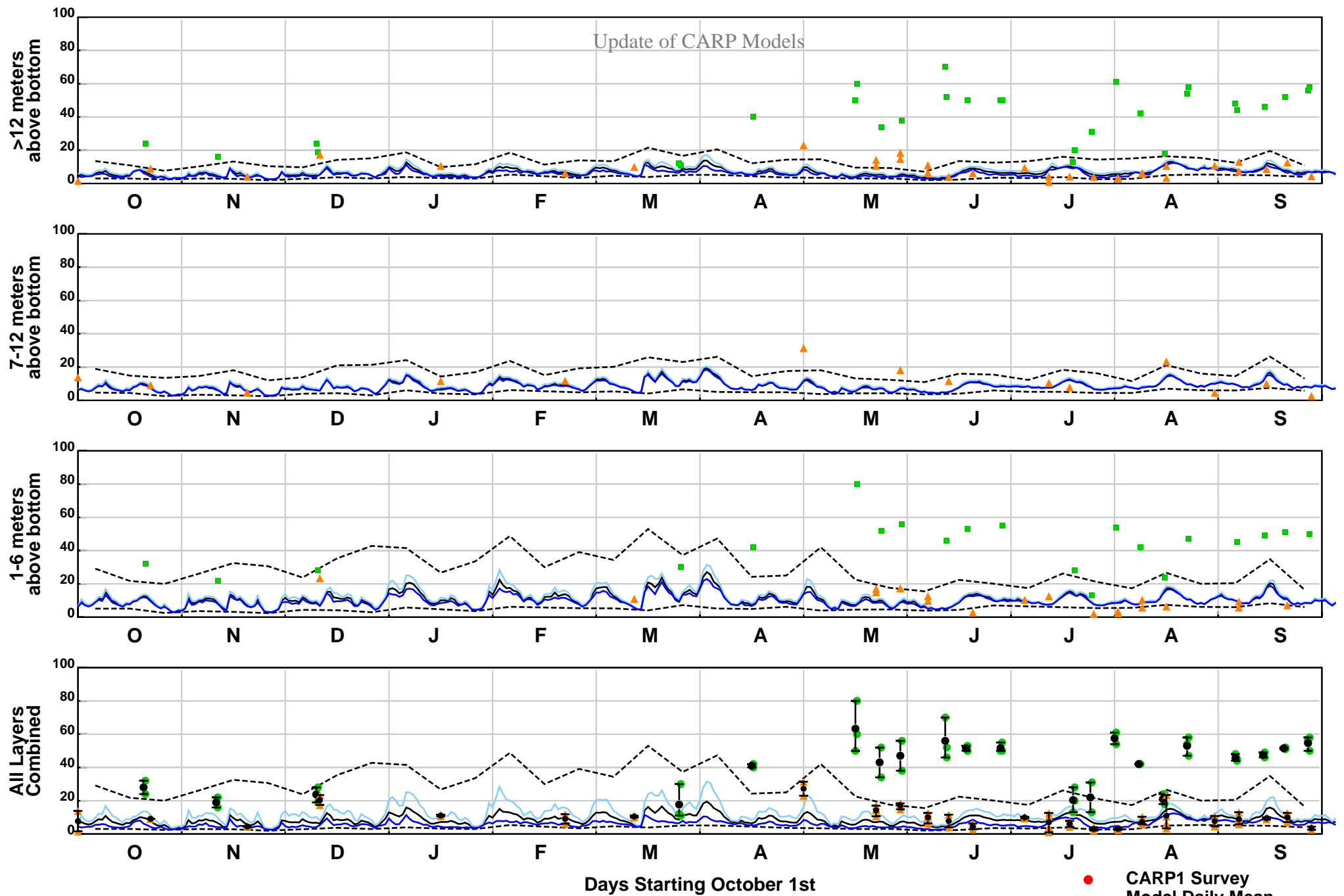
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CARP2 Grid Cell (30,66)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



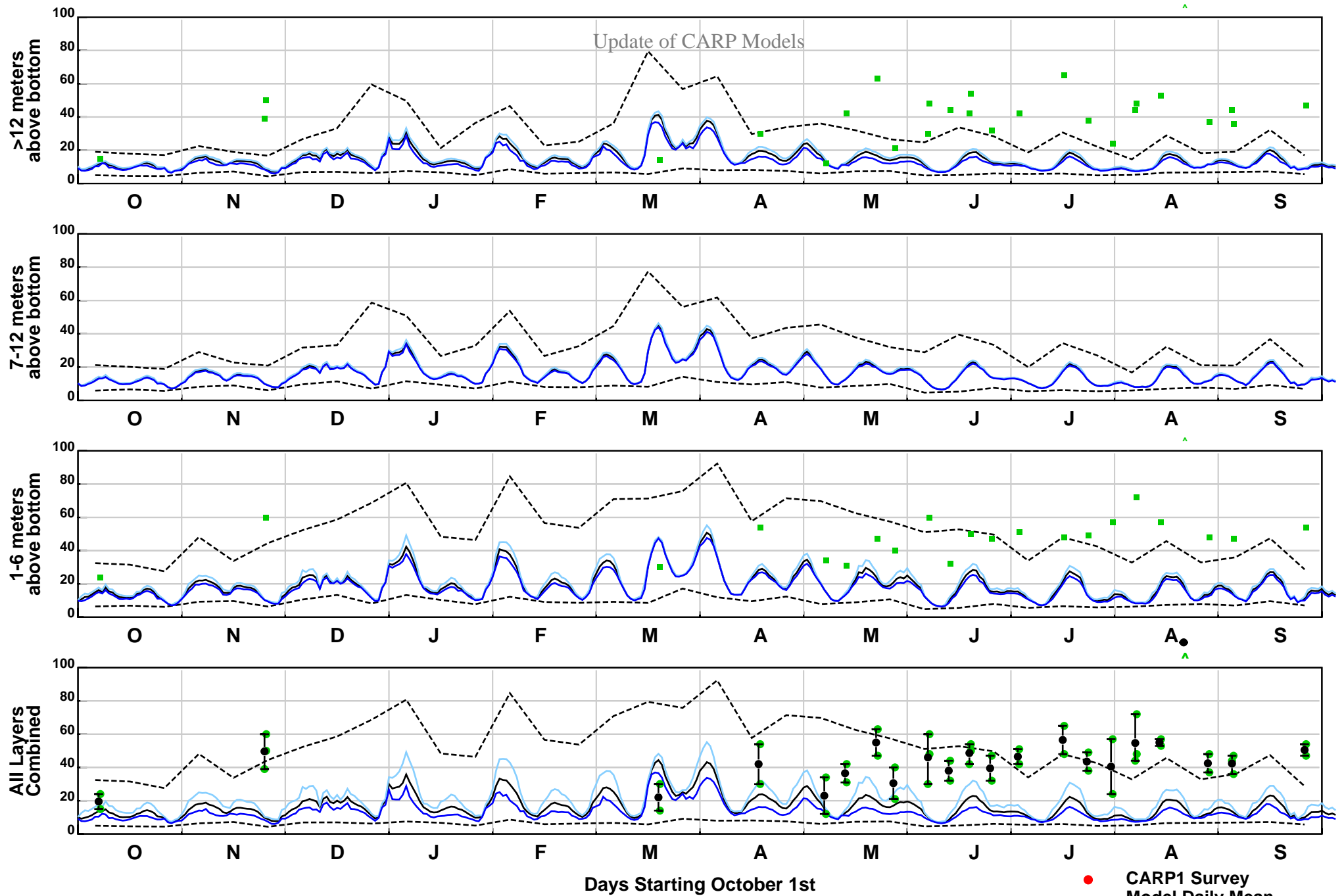
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Arthur Kill, October 1st, 2009 - September 30, 2010
CARP2 Grid Cell (12,56)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



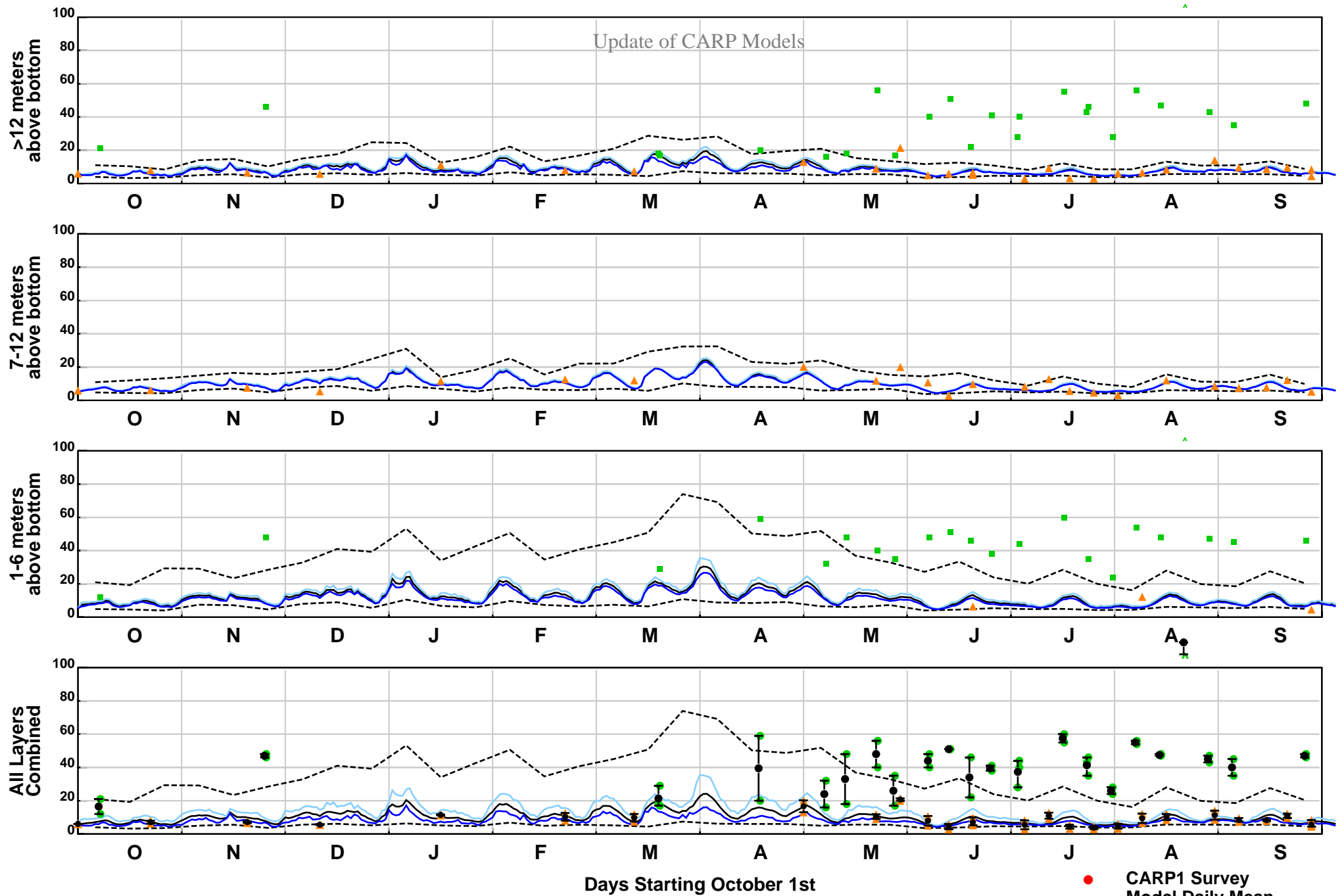
ST-SWEM Suspended Sediment Concentrations (mg/L)
Perth Amboy, October 1st, 2009 - September 30, 2010
CARP2 Grid Cell (12,27)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



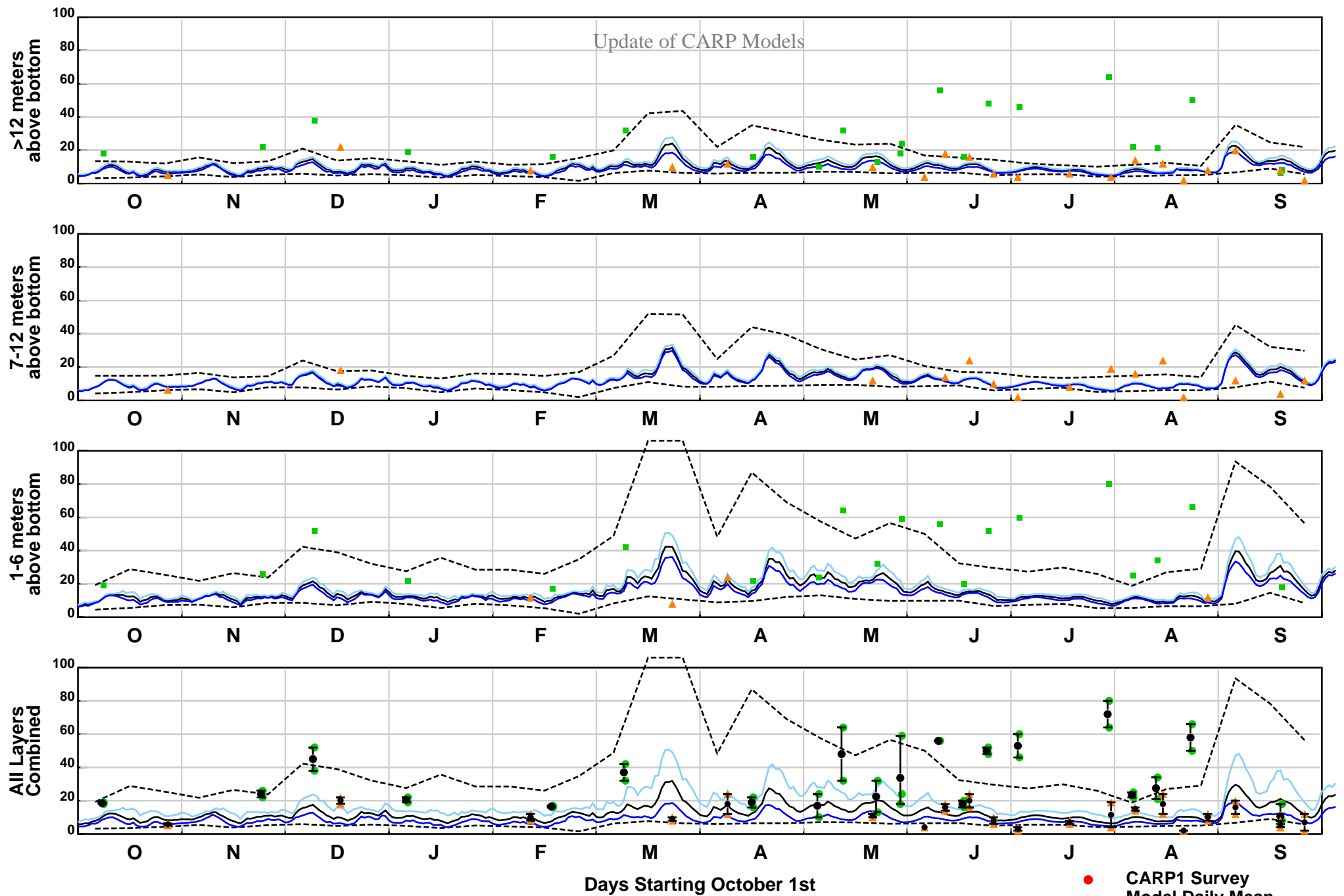
ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 1, October 1st, 2009 - September 30, 2010
CARP2 Grid Cell (23,96)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

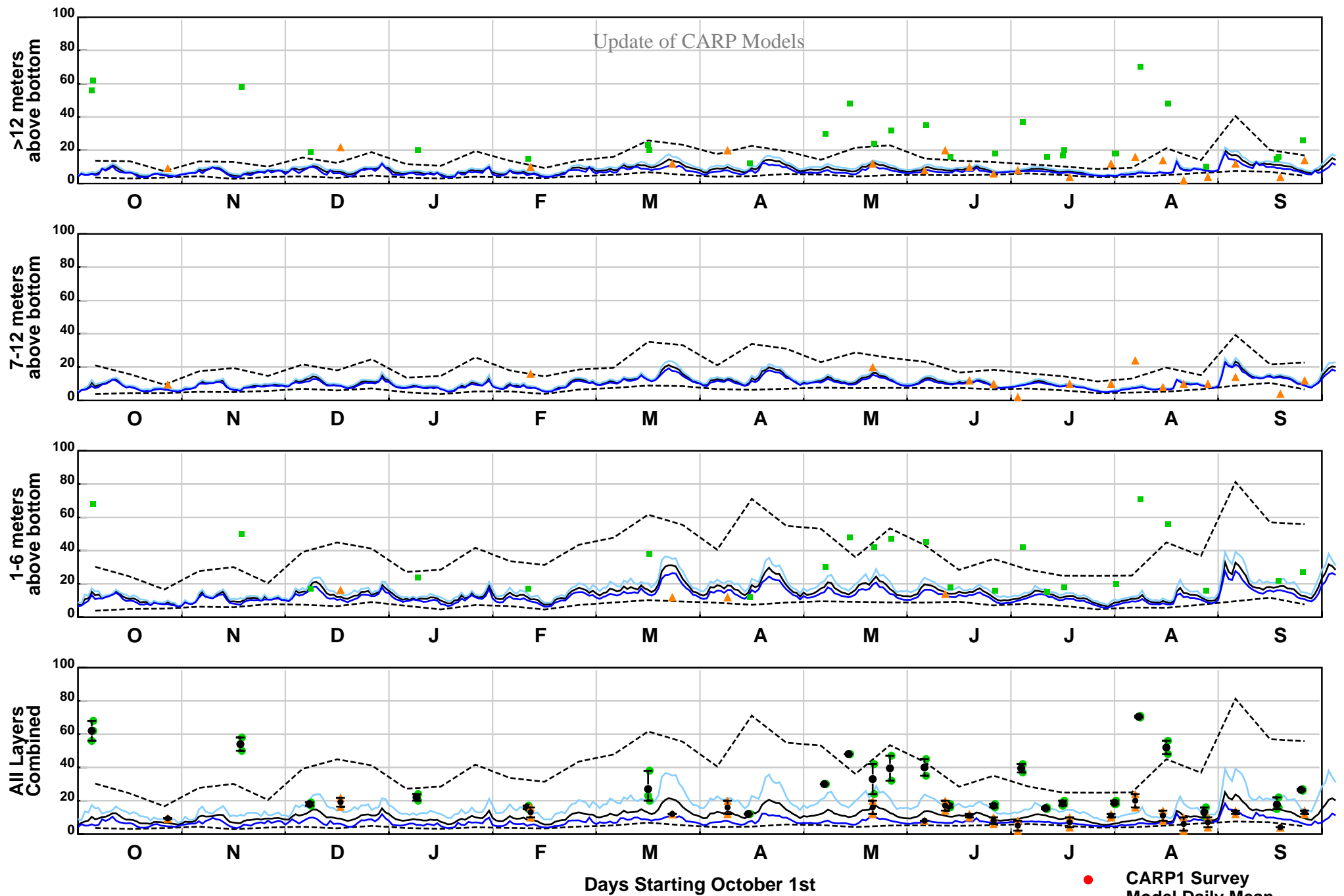


ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 2, October 1st, 2009 - September 30, 2010
CARP2 Grid Cell (23,73)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

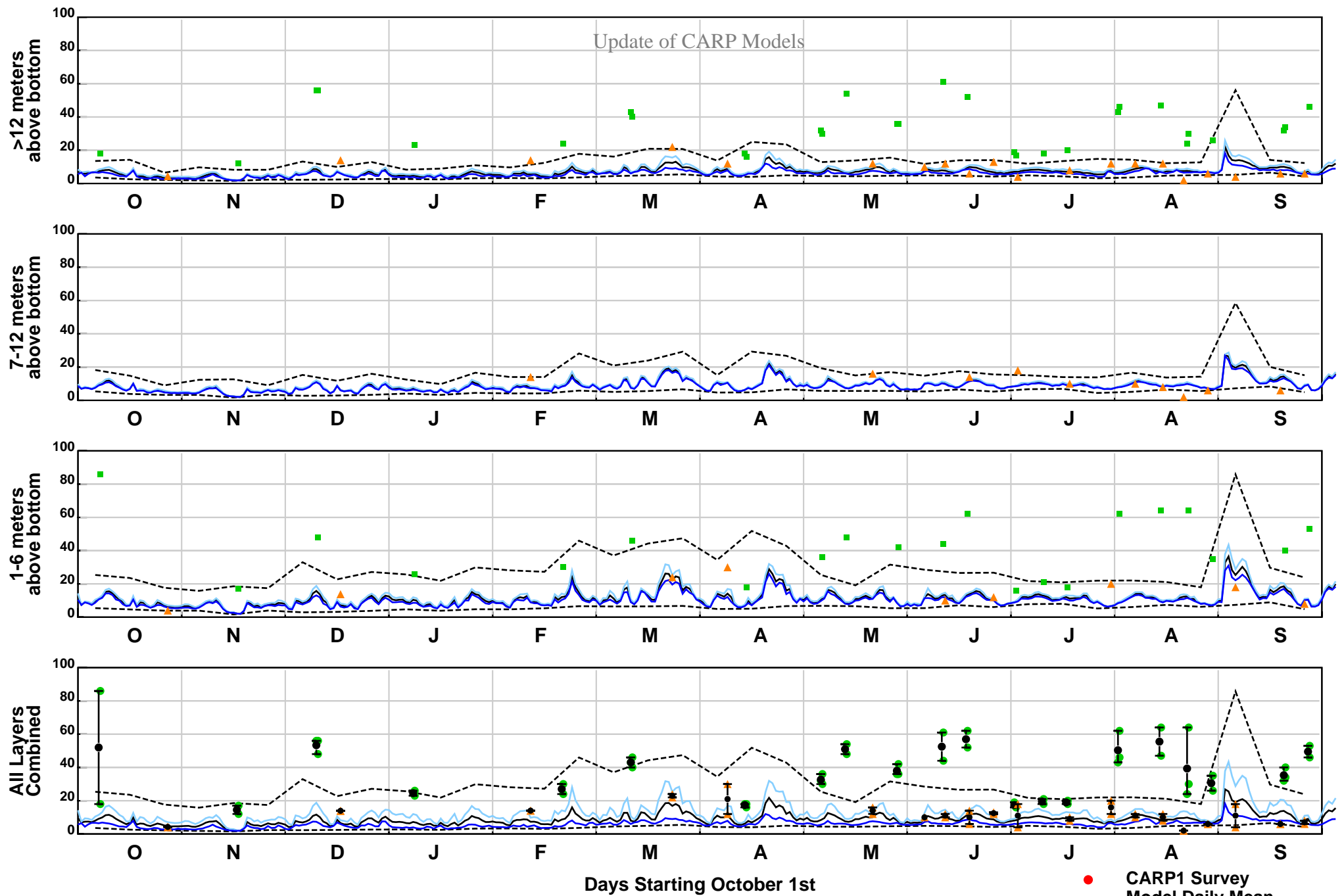


ST-SWEM Suspended Sediment Concentrations (mg/L)
Kill Van Kull, October 1st, 2010 - September 30, 2011
CARP2 Grid Cell (30,66)



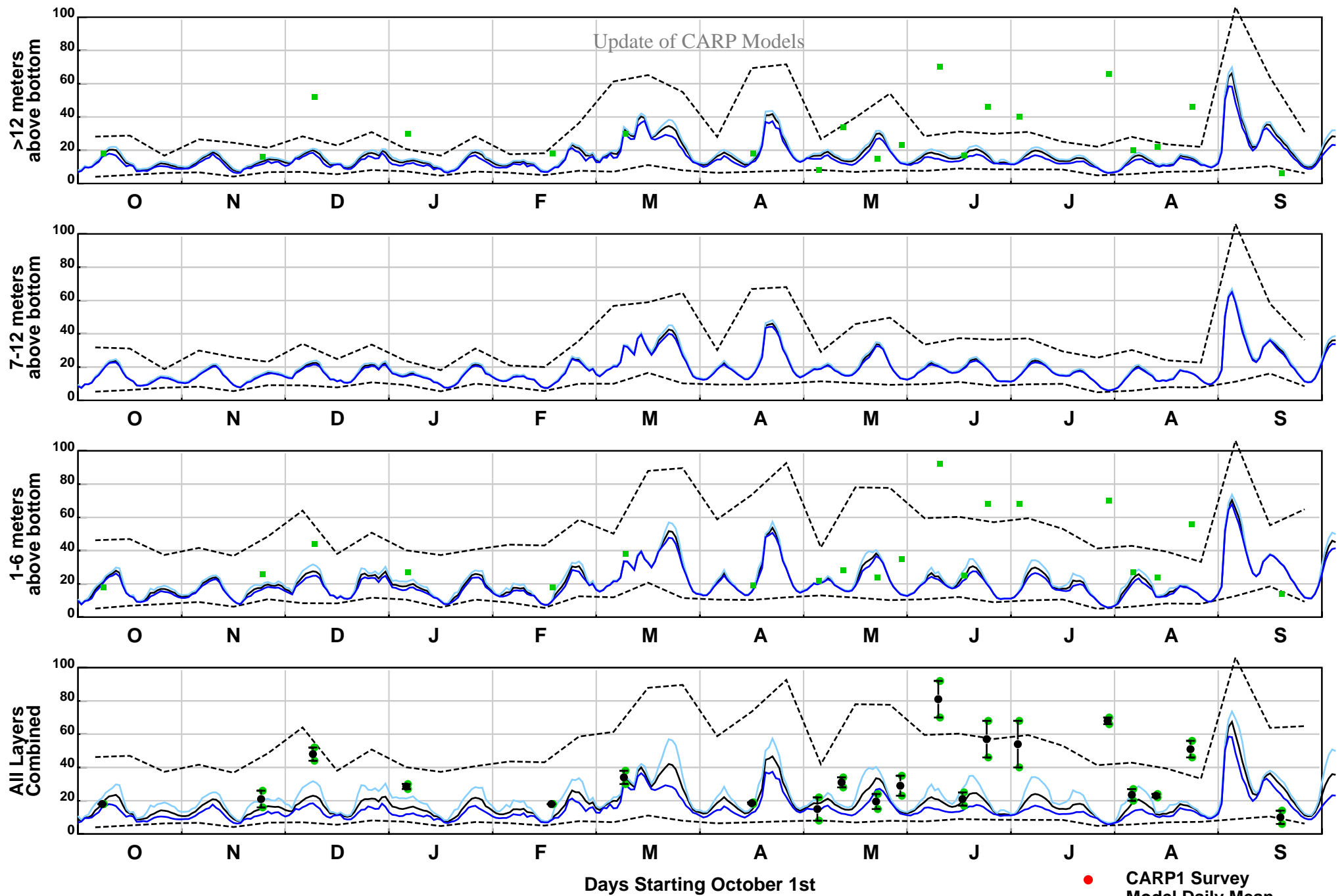
ST-SWEM Suspended Sediment Concentrations (mg/L)
Arthur Kill, October 1st, 2010 - September 30, 2011
CARP2 Grid Cell (12,56)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



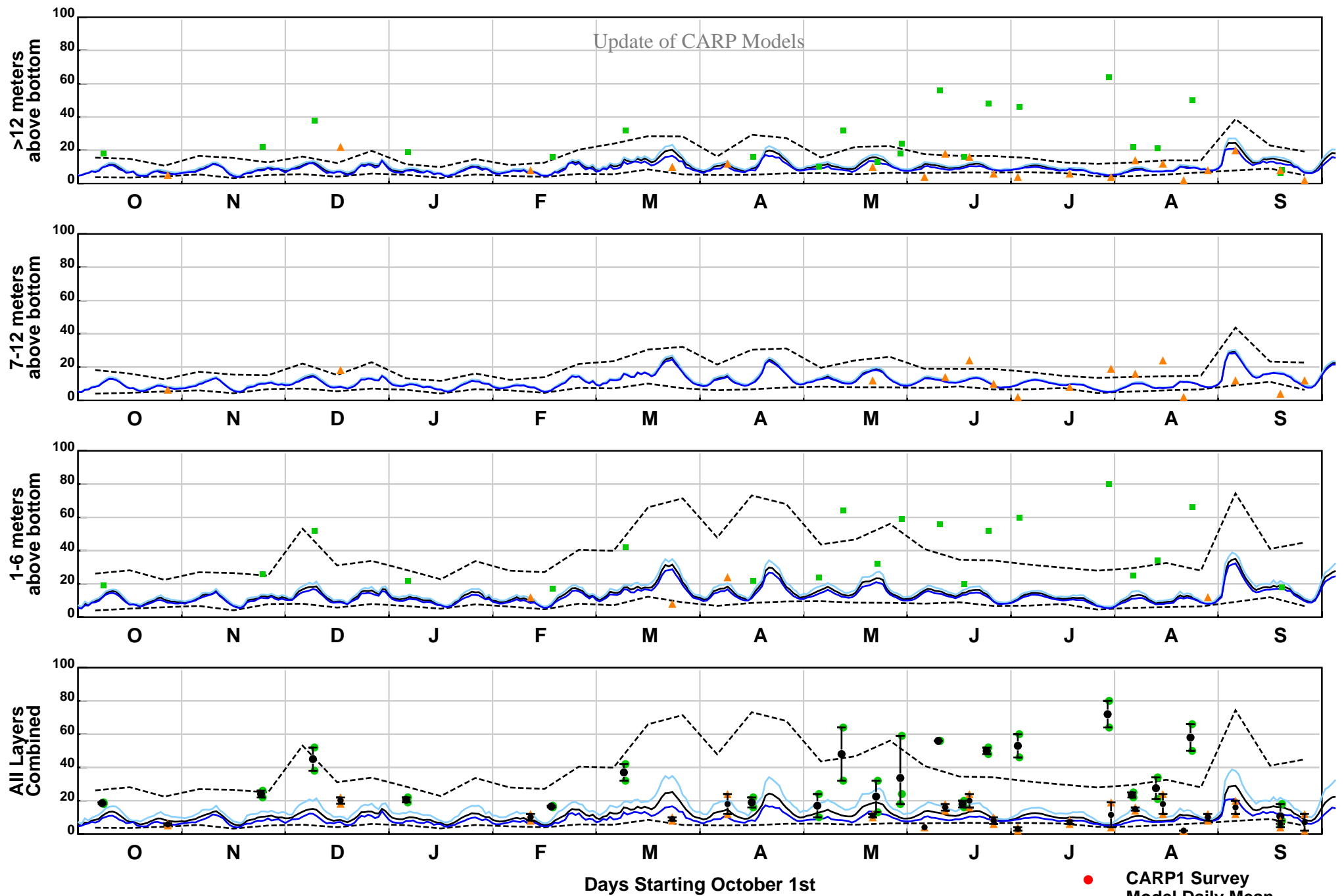
ST-SWEM Suspended Sediment Concentrations (mg/L)
Perth Amboy, October 1st, 2010 - September 30, 2011
CARP2 Grid Cell (12,27)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

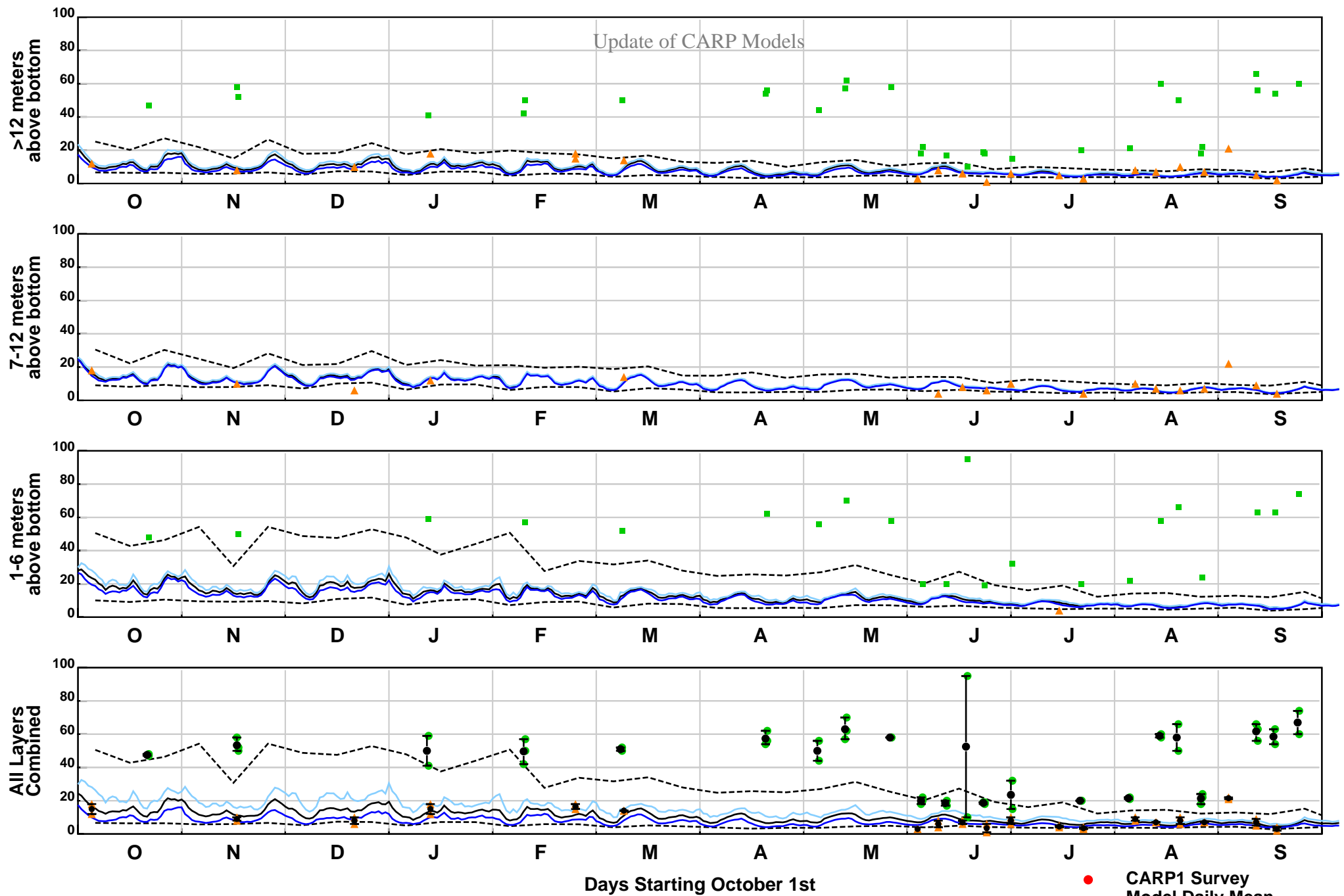


ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 1, October 1st, 2010 - September 30, 2011
CARP2 Grid Cell (23,96)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

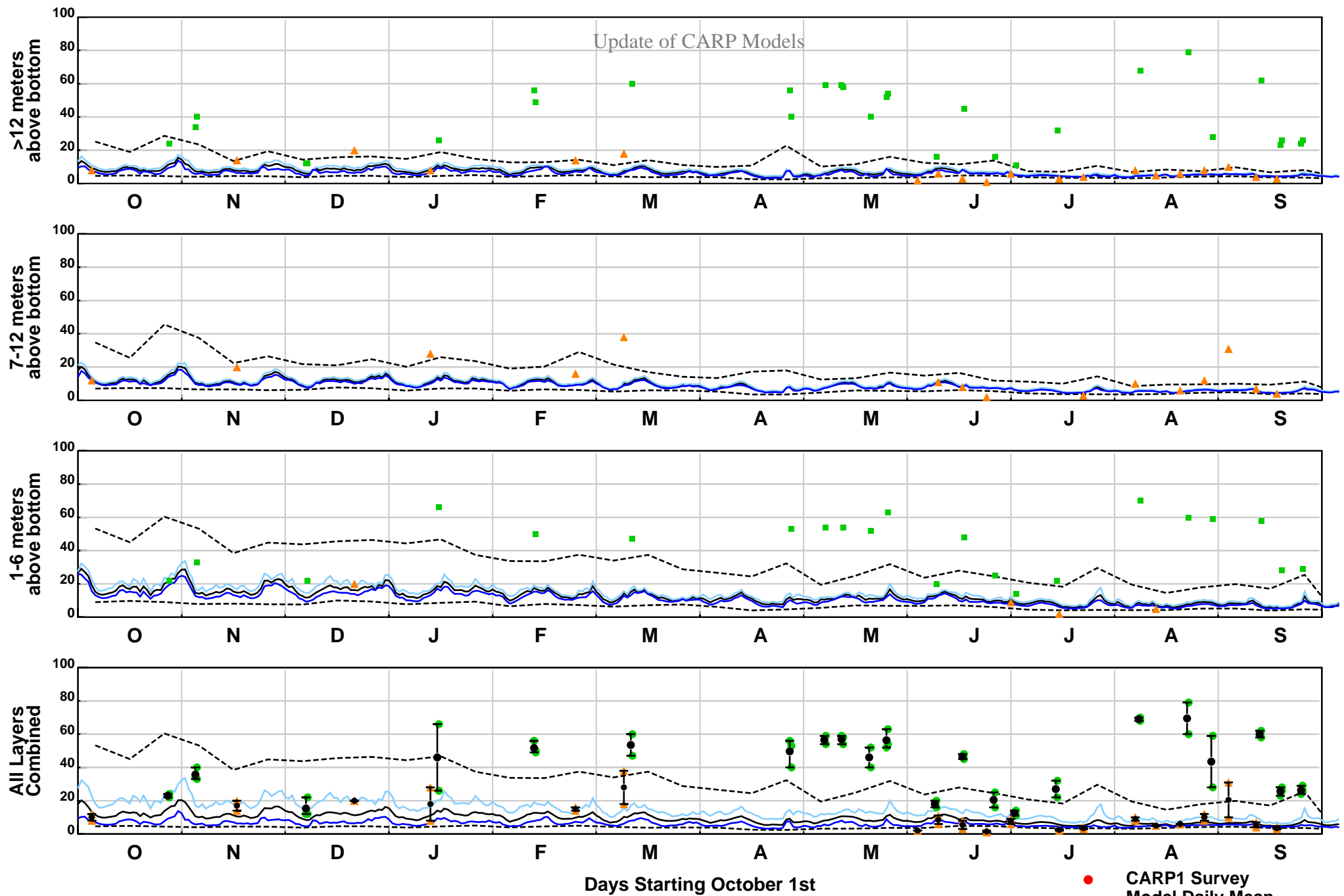


ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 2, October 1st, 2010 - September 30, 2011
CARP2 Grid Cell (23,73)



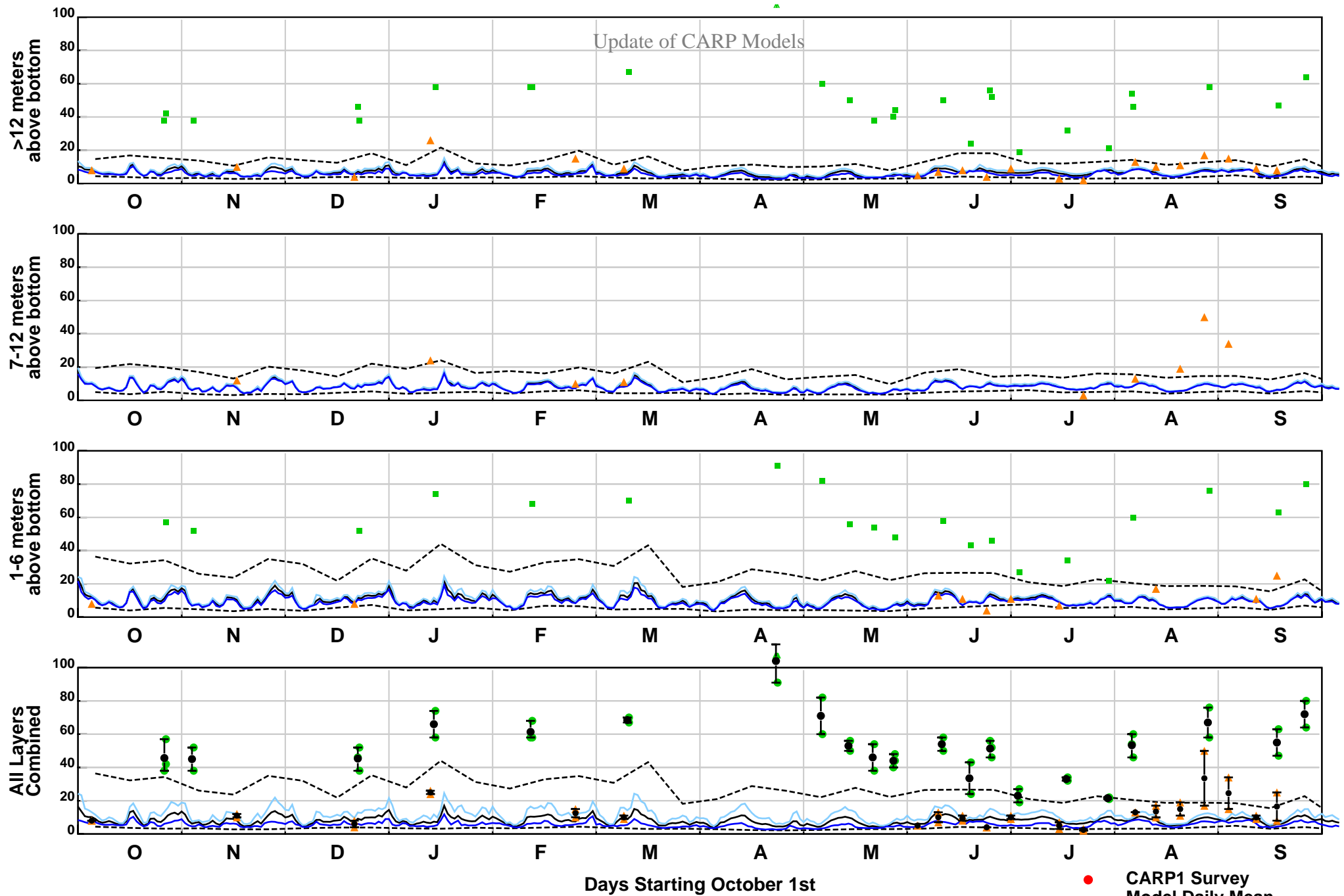
ST-SWEM Suspended Sediment Concentrations (mg/L)
Kill Van Kull, October 1st, 2011 - September 30, 2012
CARP2 Grid Cell (30,66)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



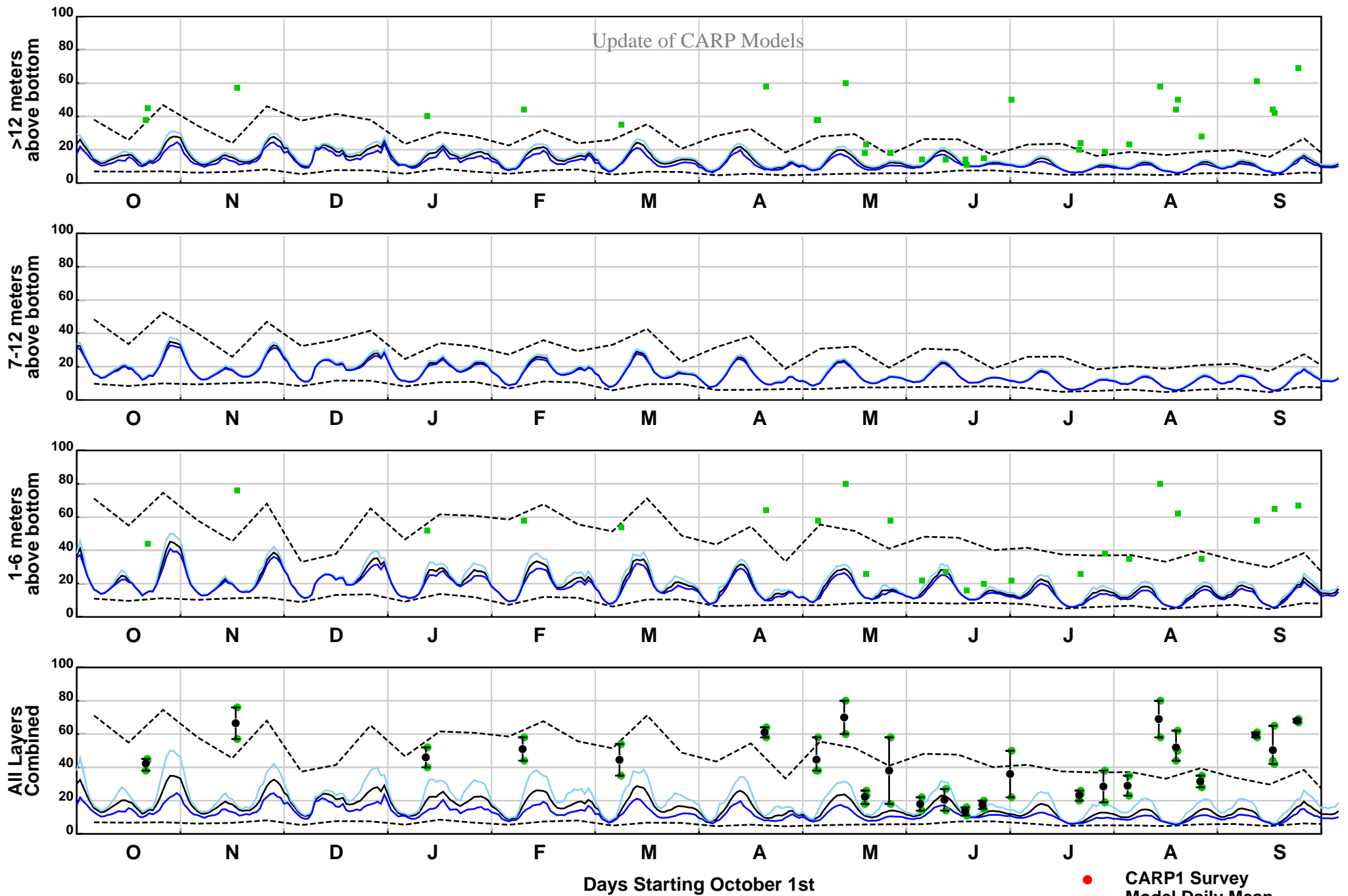
ST-SWEM Suspended Sediment Concentrations (mg/L)
Arthur Kill, October 1st, 2011 - September 30, 2012
CARP2 Grid Cell (12,56)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

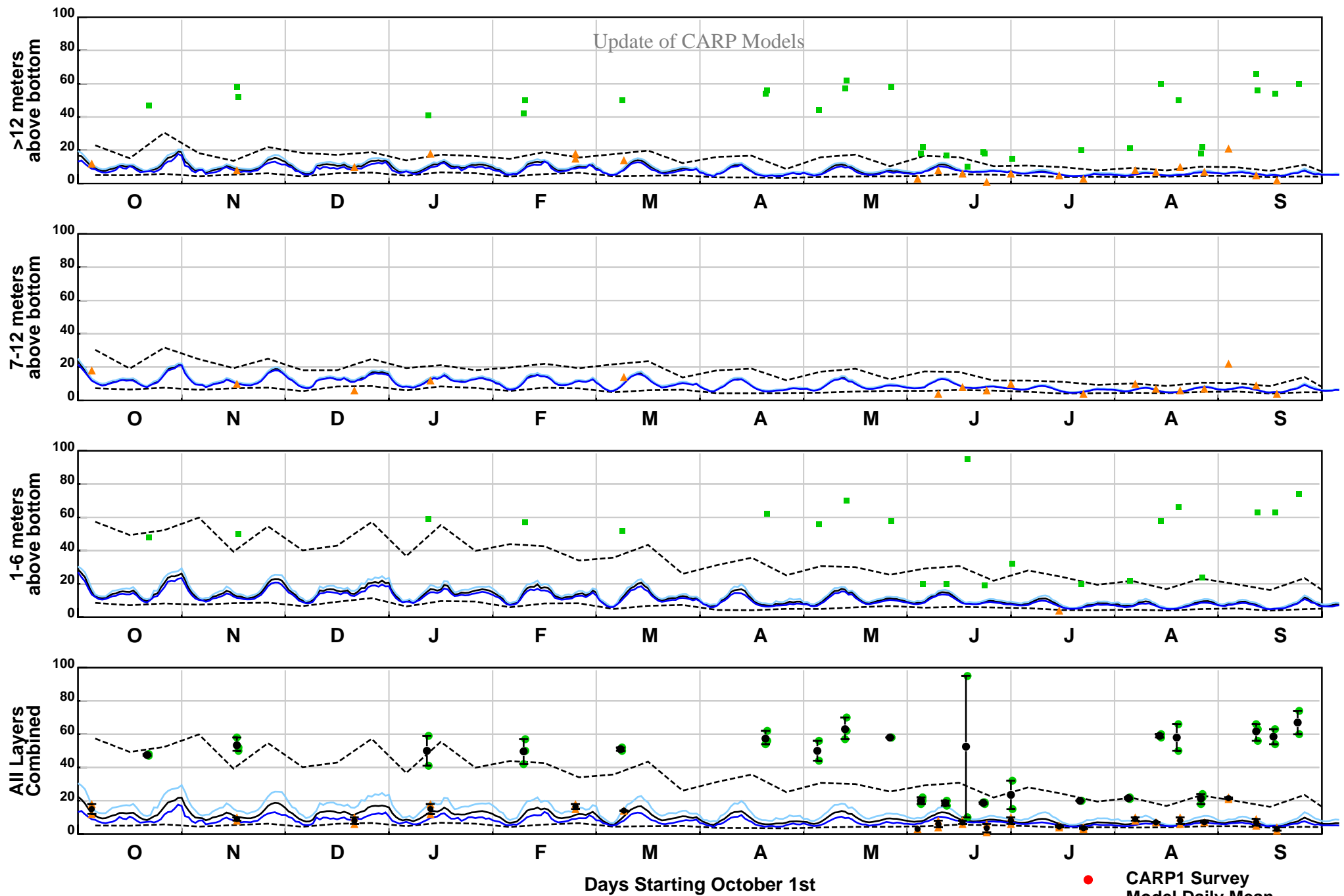


ST-SWEM Suspended Sediment Concentrations (mg/L)
Perth Amboy, October 1st, 2011 - September 30, 2012
CARP2 Grid Cell (12,27)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

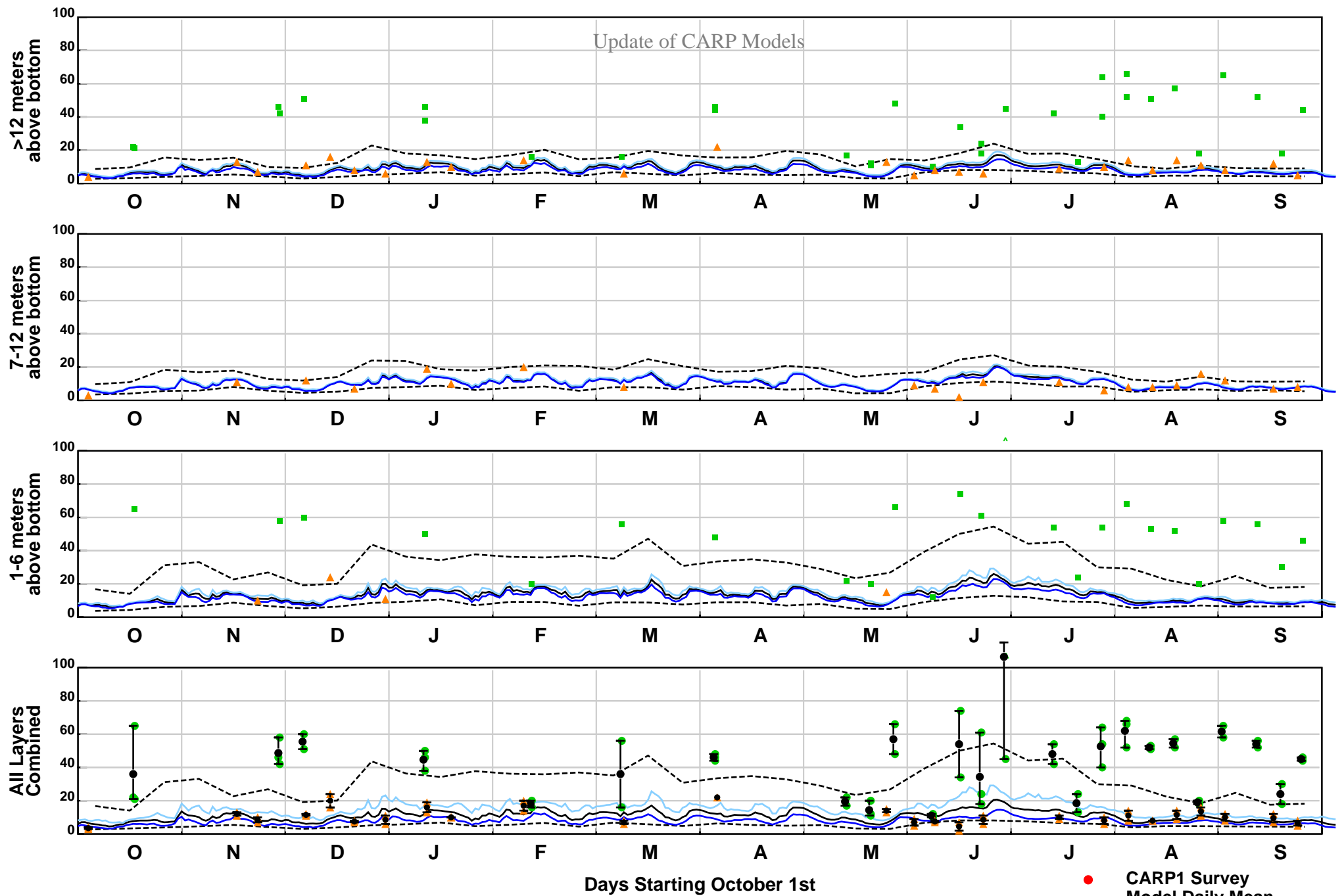


ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 1, October 1st, 2011 - September 30, 2012
CARP2 Grid Cell (23,96)

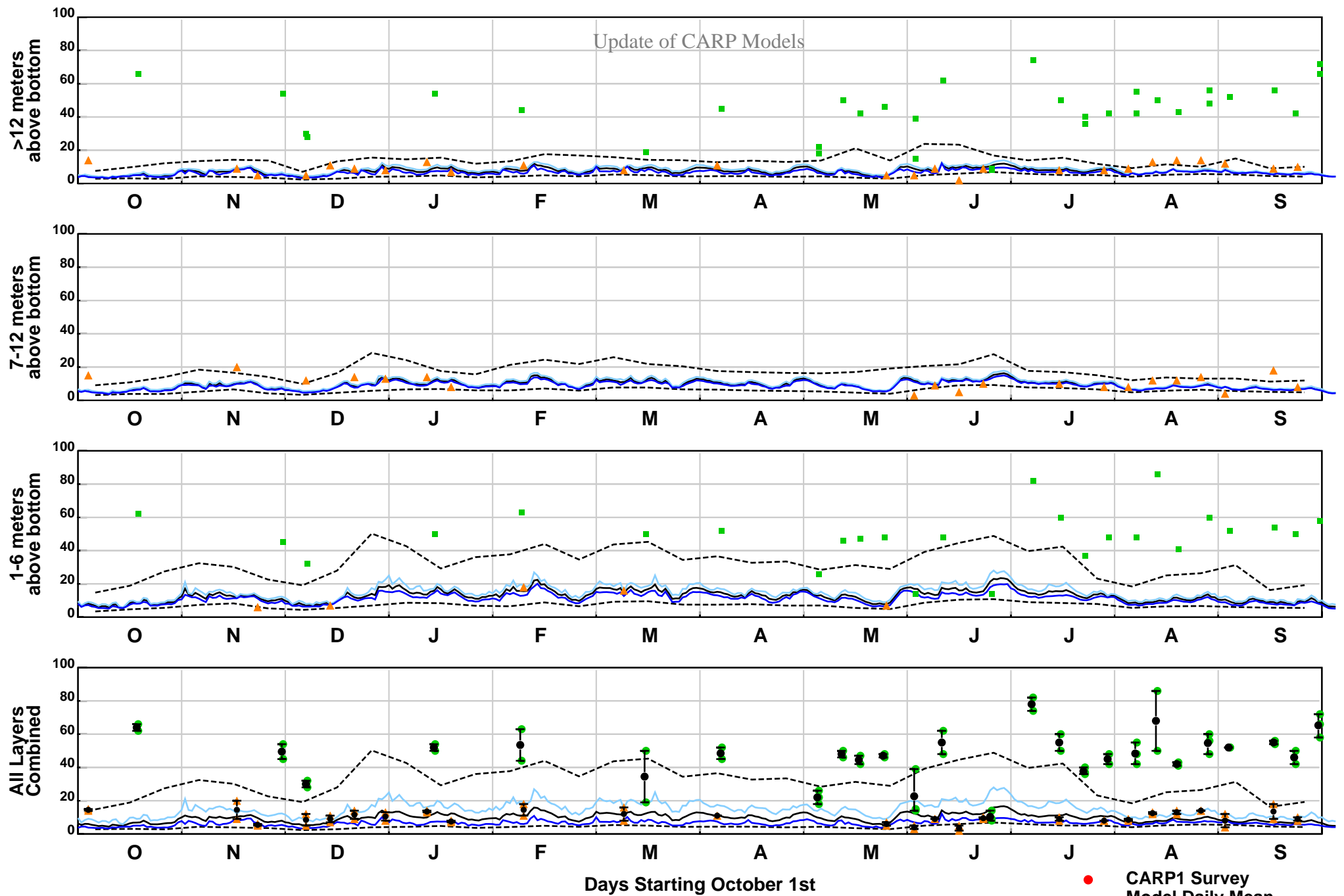


ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 2, October 1st, 2011 - September 30, 2012
CARP2 Grid Cell (23,73)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

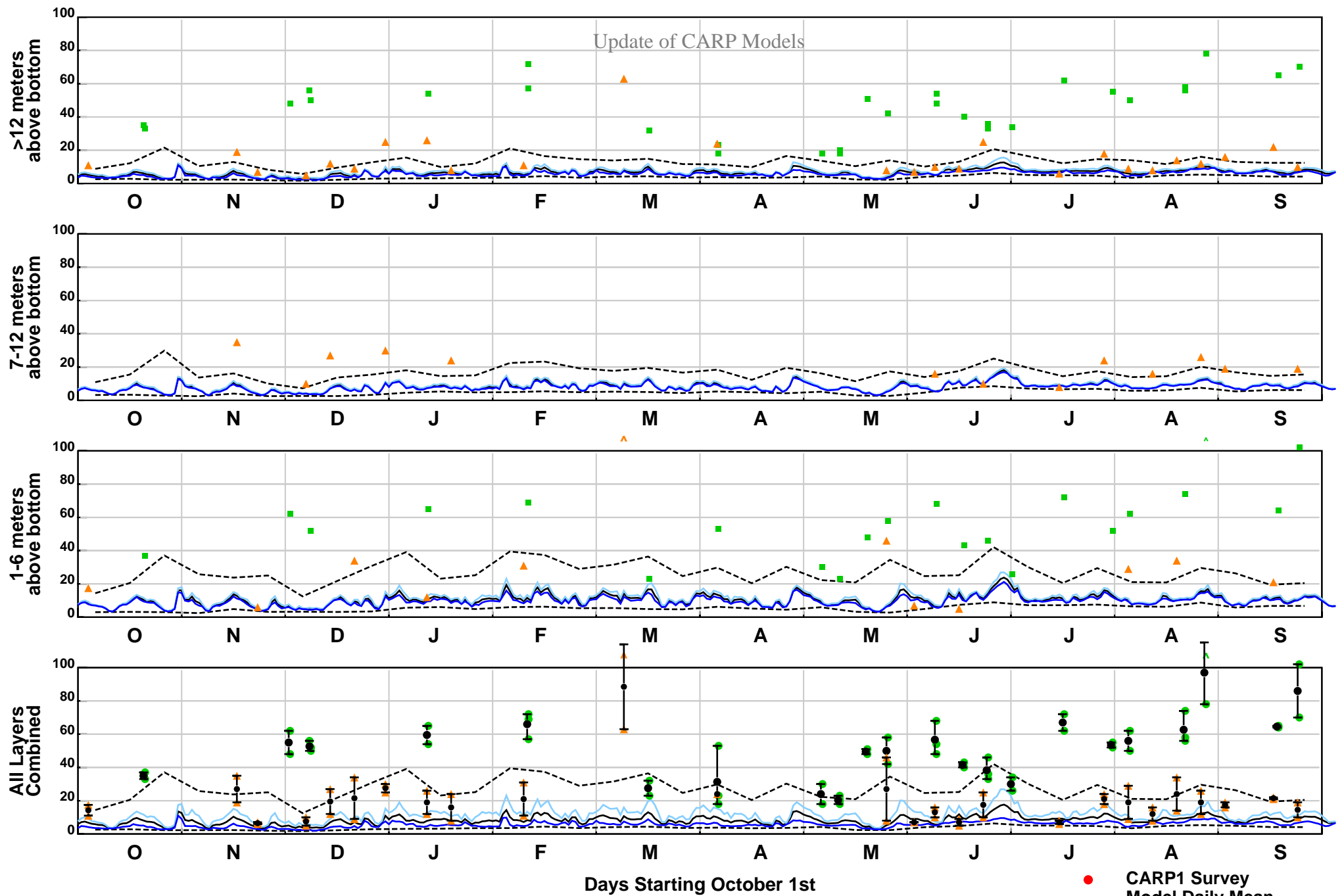


ST-SWEM Suspended Sediment Concentrations (mg/L)
Kill Van Kull, October 1st, 2012 - September 30, 2013
CARP2 Grid Cell (30,66)



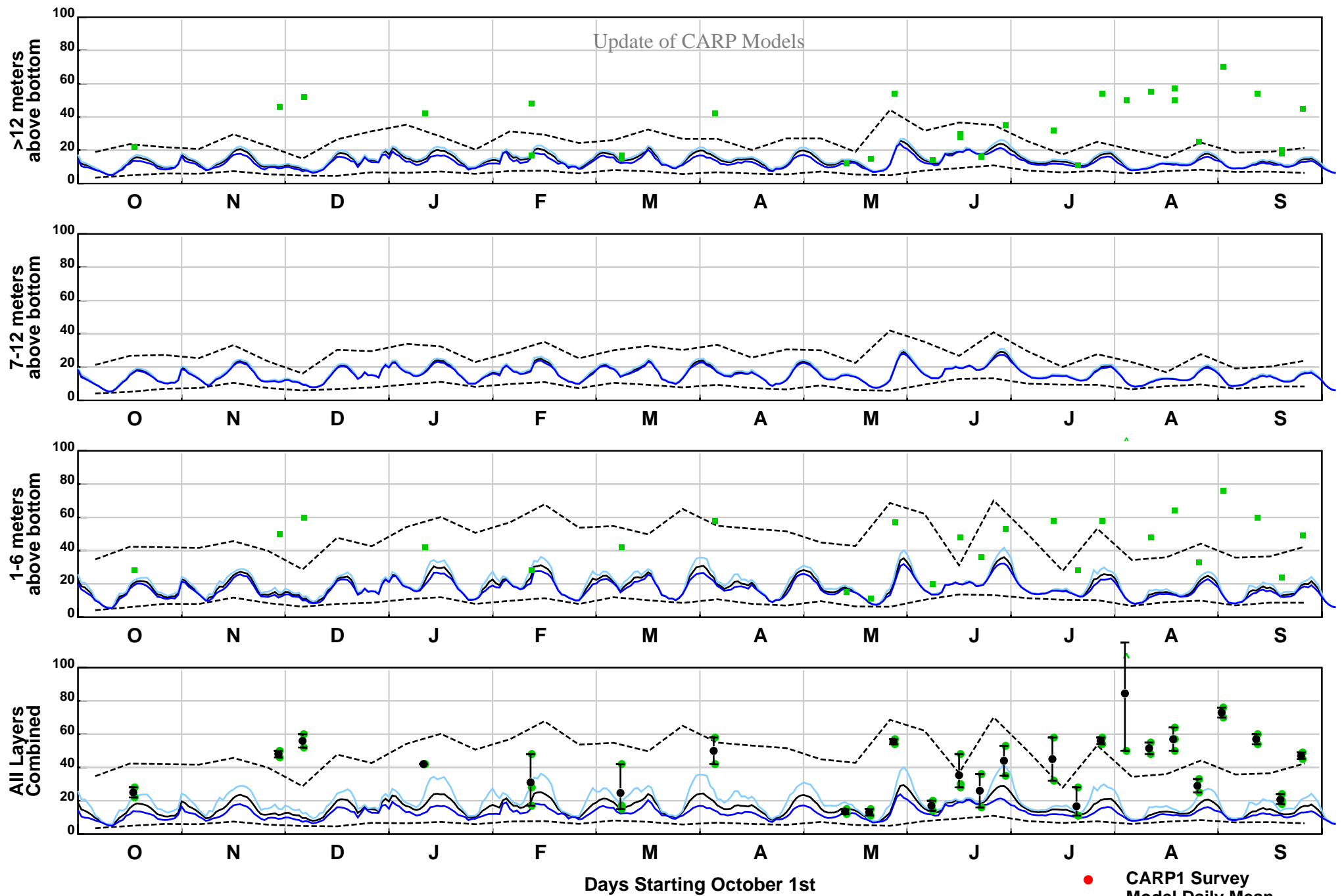
ST-SWEM Suspended Sediment Concentrations (mg/L)
Arthur Kill, October 1st, 2012 - September 30, 2013
CARP2 Grid Cell (12,56)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



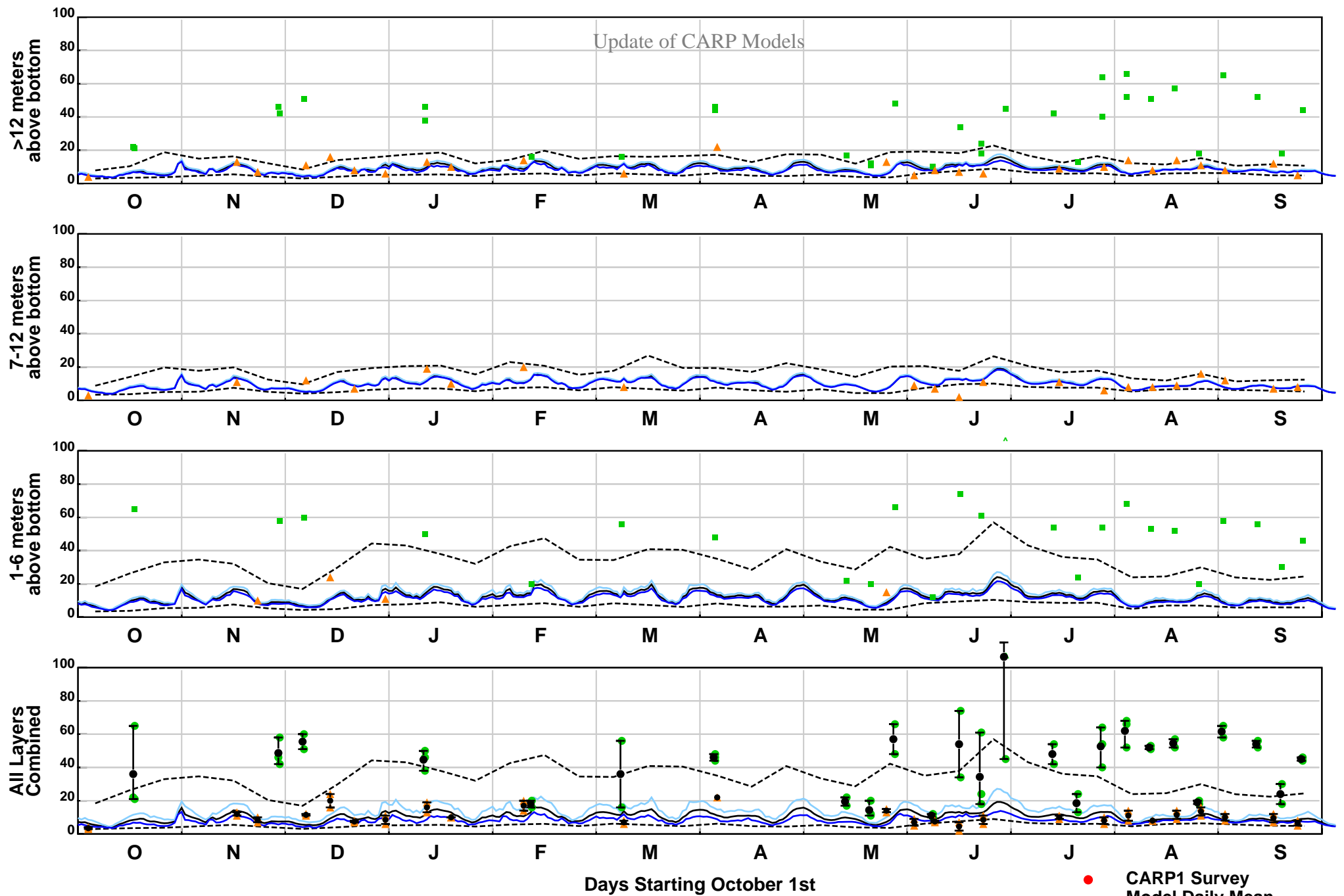
ST-SWEM Suspended Sediment Concentrations (mg/L)
Perth Amboy, October 1st, 2012 - September 30, 2013
CARP2 Grid Cell (12,27)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

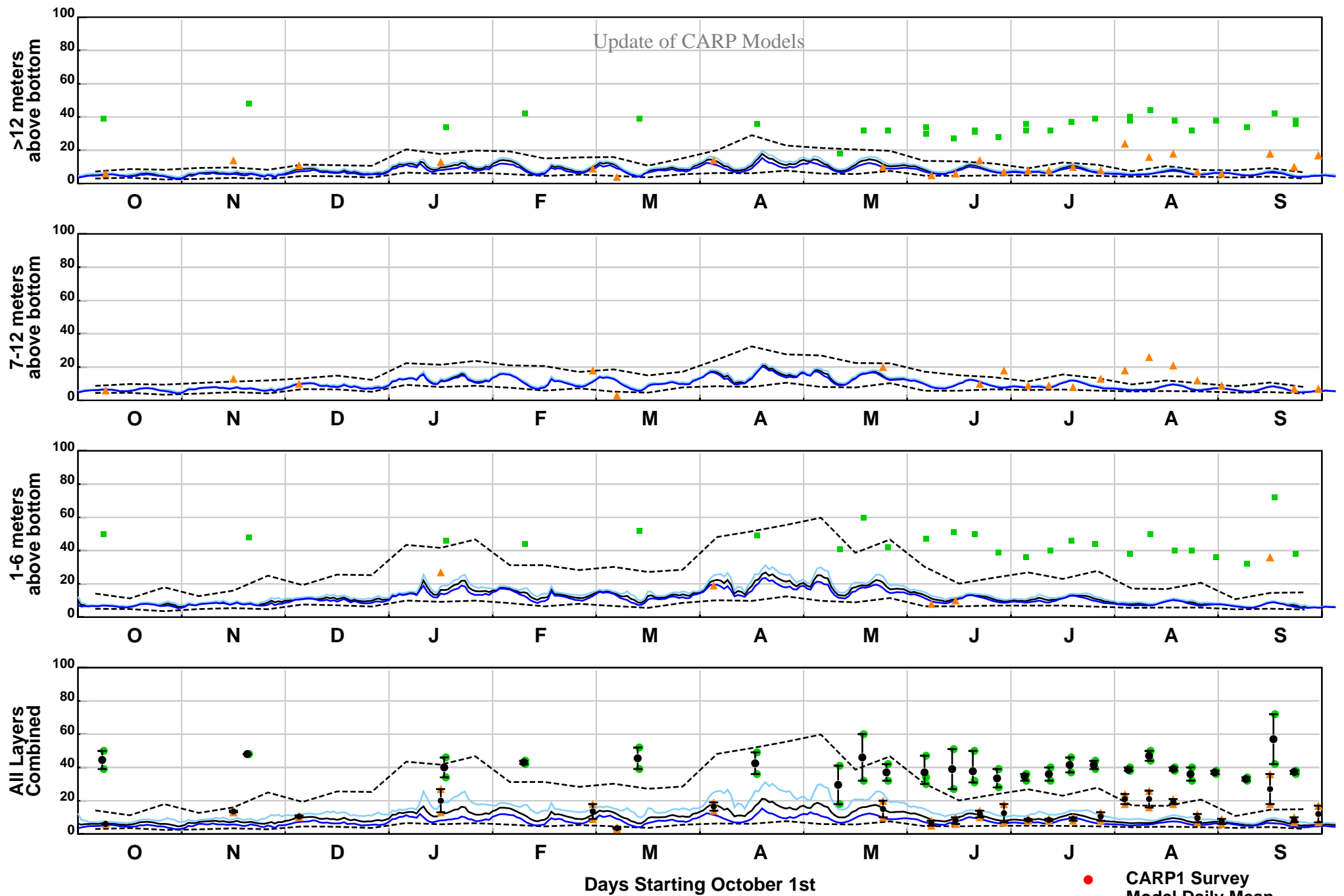


ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 1, October 1st, 2012 - September 30, 2013
CARP2 Grid Cell (23,96)

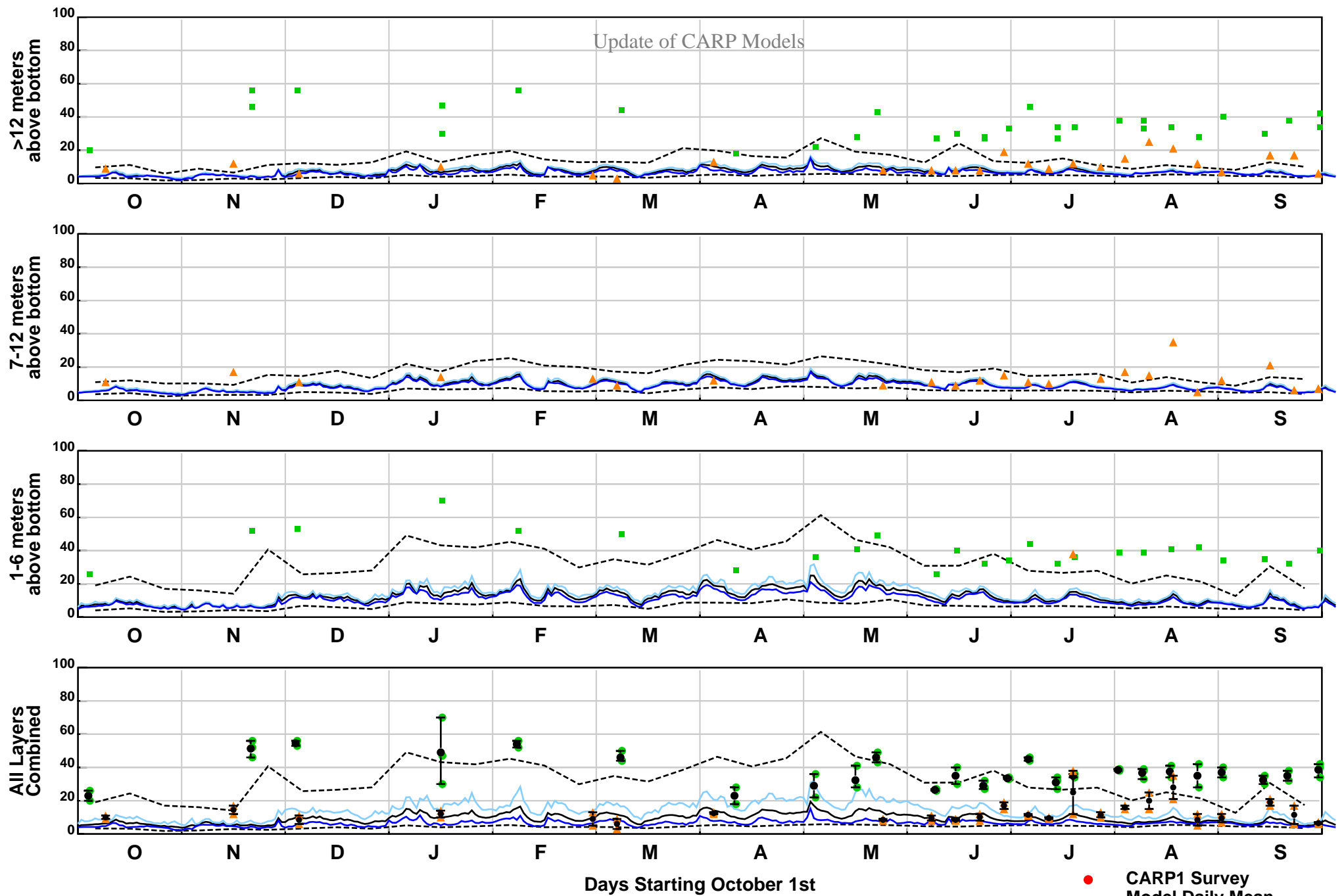
- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 2, October 1st, 2012 - September 30, 2013
CARP2 Grid Cell (23,73)

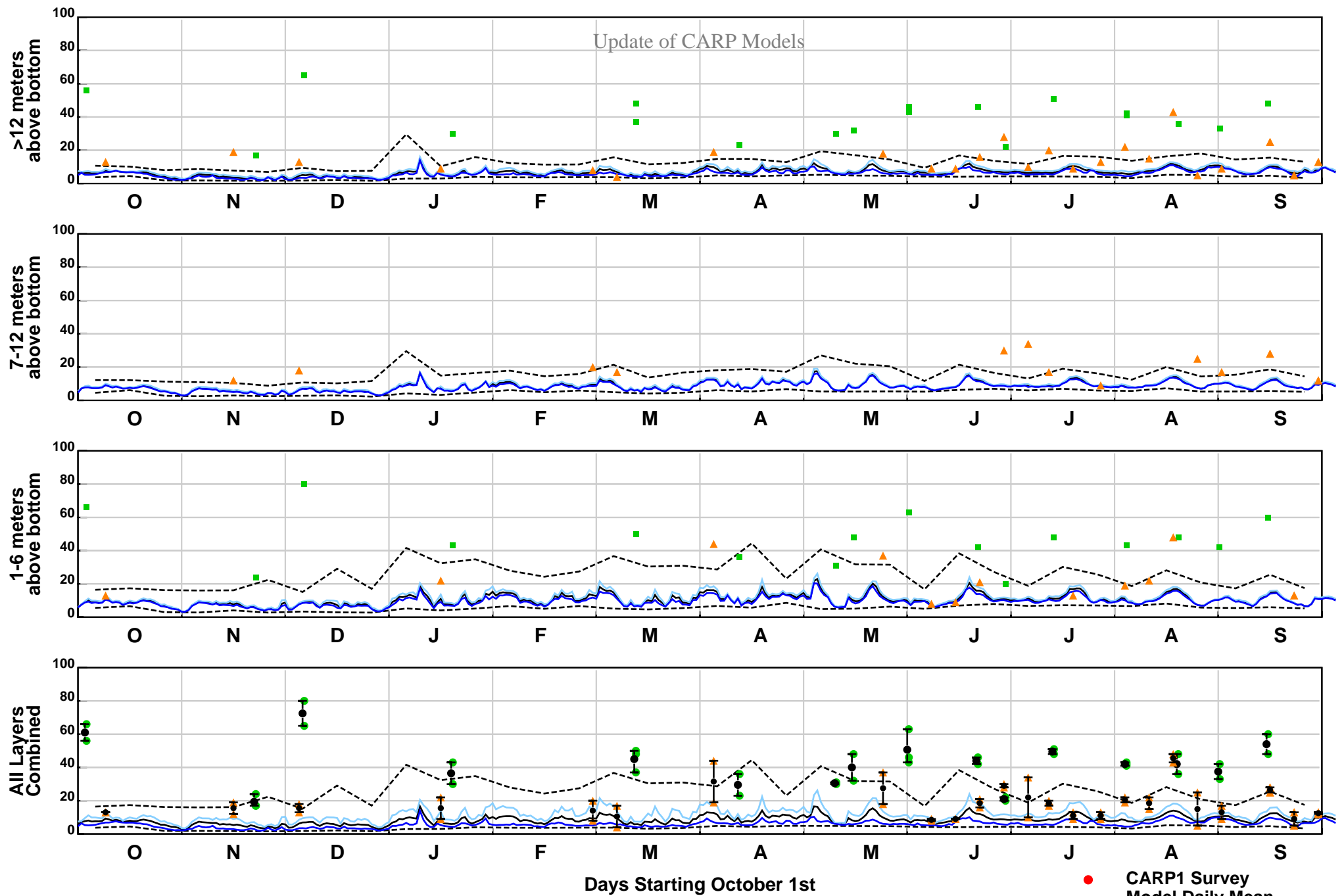


ST-SWEM Suspended Sediment Concentrations (mg/L)
Kill Van Kull, October 1st, 2013 - September 30, 2014
CARP2 Grid Cell (30,66)



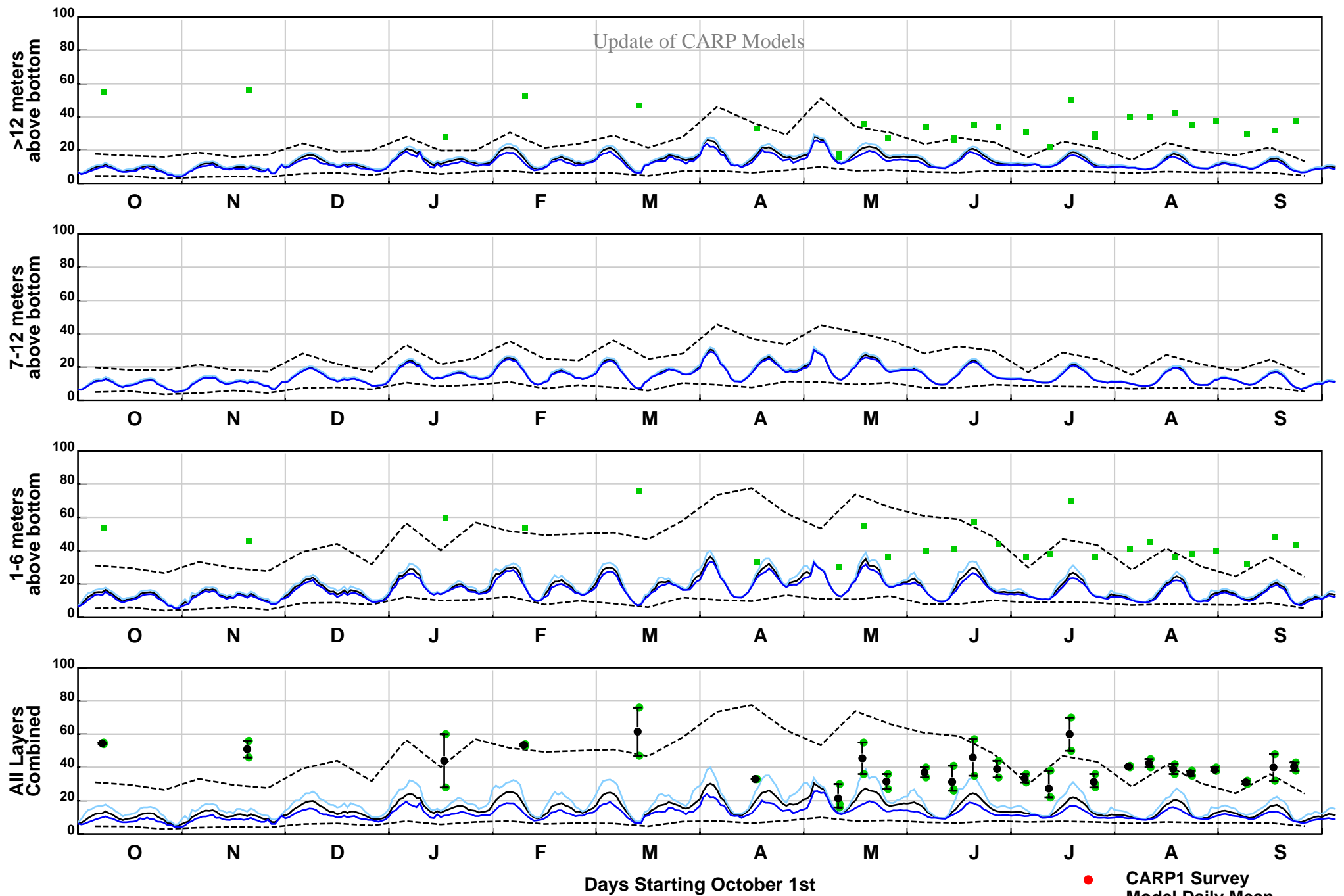
ST-SWEM Suspended Sediment Concentrations (mg/L)
Arthur Kill, October 1st, 2013 - September 30, 2014
CARP2 Grid Cell (12,56)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



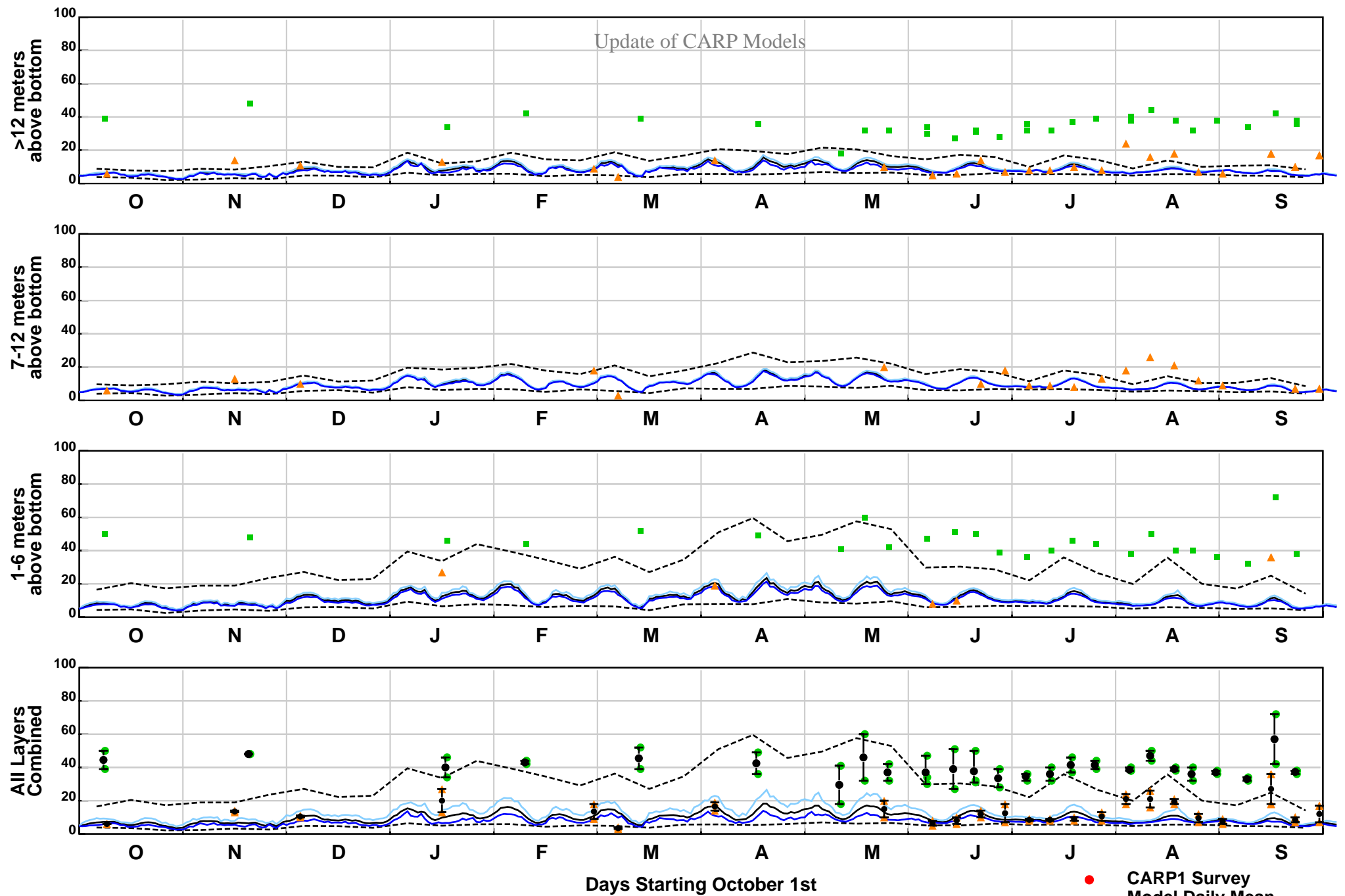
ST-SWEM Suspended Sediment Concentrations (mg/L)
Perth Amboy, October 1st, 2013 - September 30, 2014
CARP2 Grid Cell (12,27)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



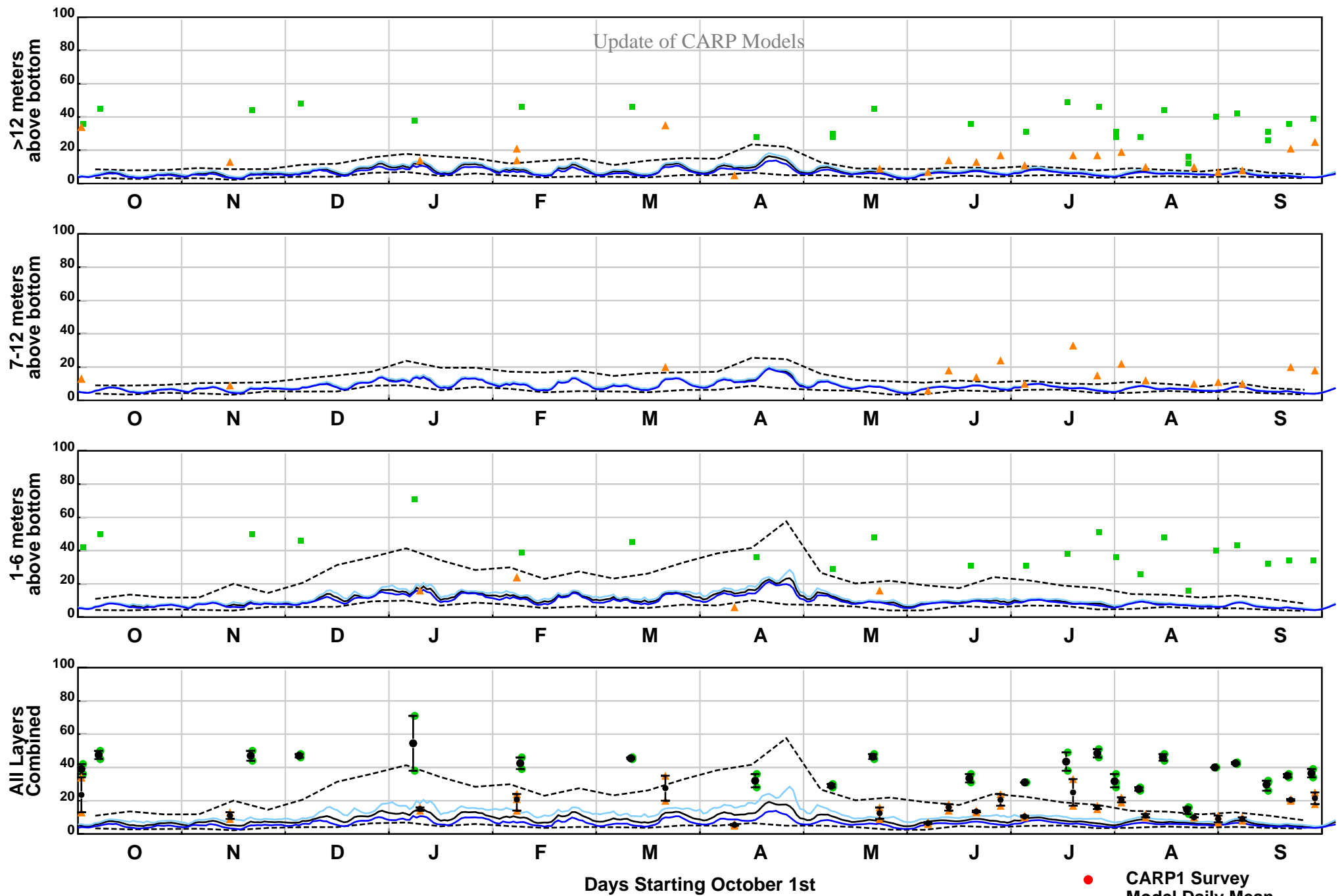
ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 1, October 1st, 2013 - September 30, 2014
CARP2 Grid Cell (23,96)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



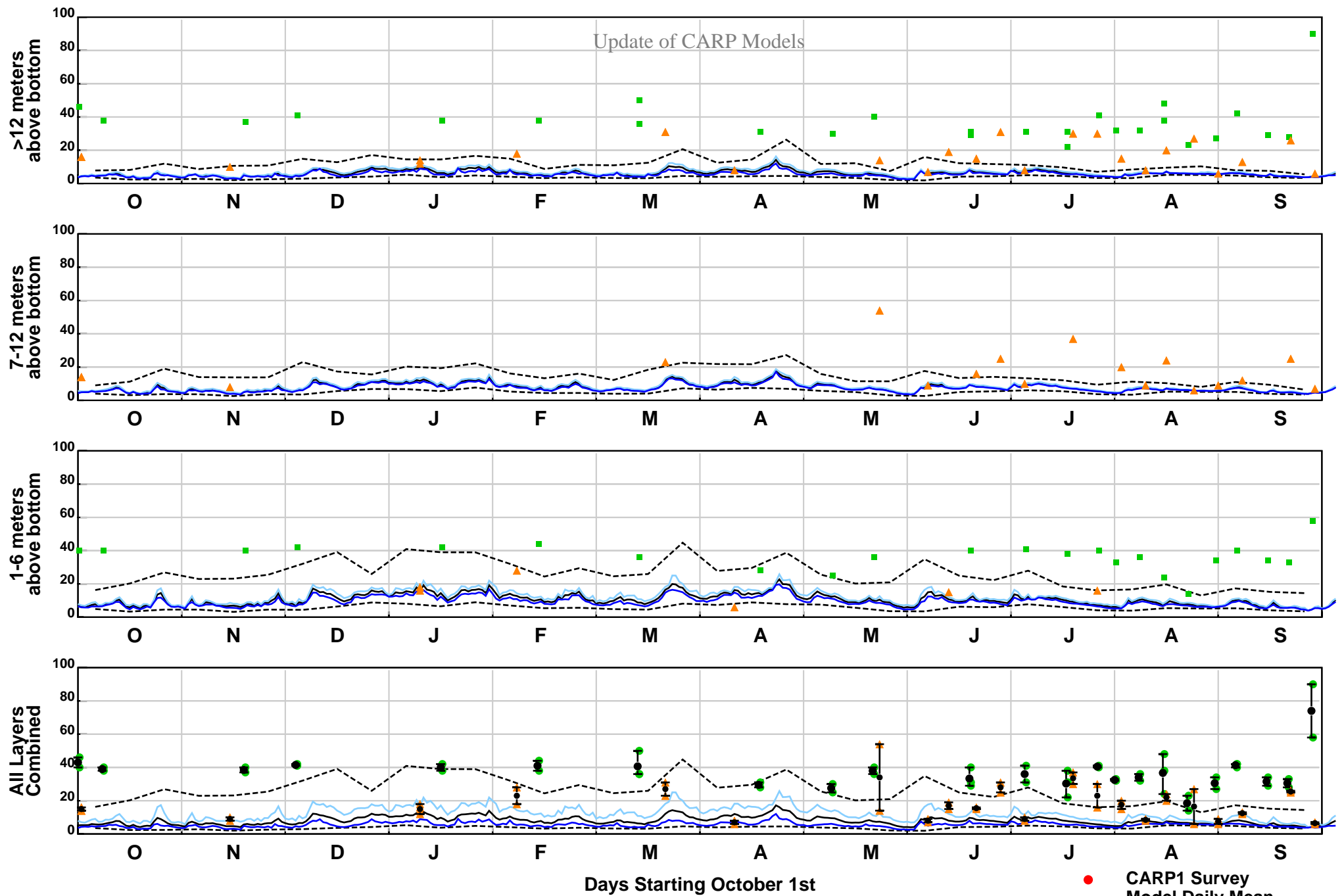
ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 2, October 1st, 2013 - September 30, 2014
CARP2 Grid Cell (23,73)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



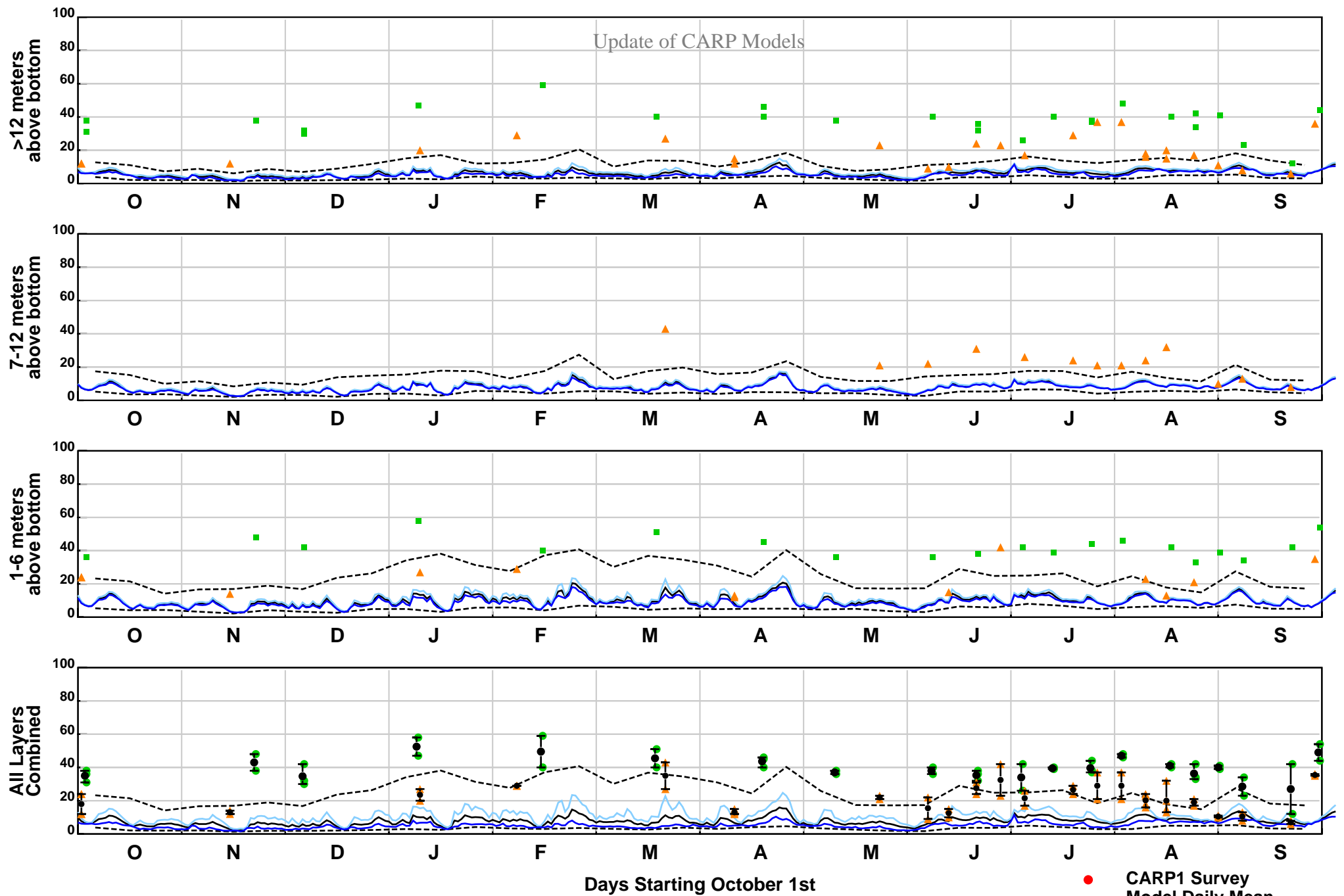
ST-SWEM Suspended Sediment Concentrations (mg/L)
Kill Van Kull, October 1st, 2014 - September 30, 2015
CARP2 Grid Cell (30,66)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



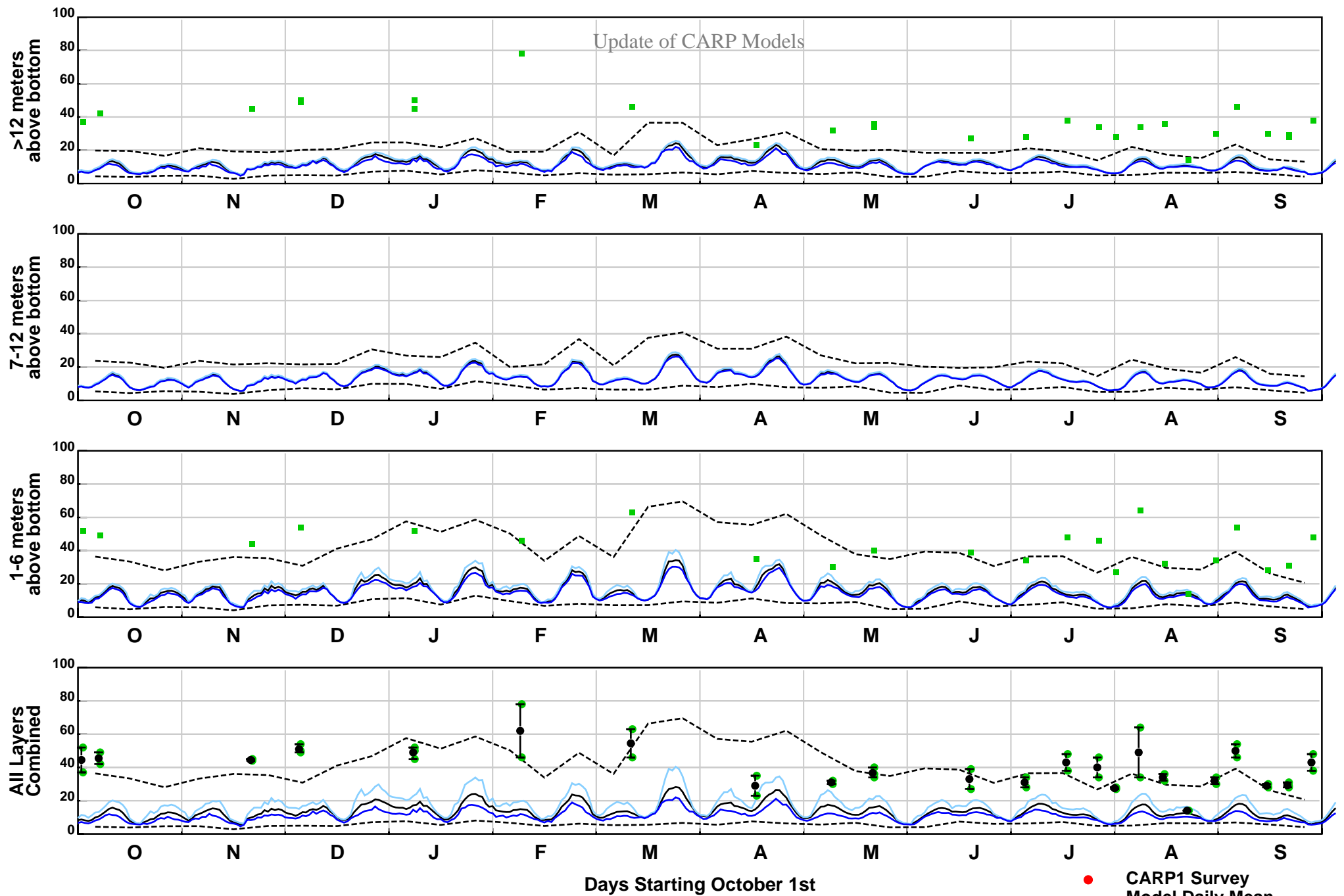
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Arthur Kill, October 1st, 2014 - September 30, 2015
CARP2 Grid Cell (12,56)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



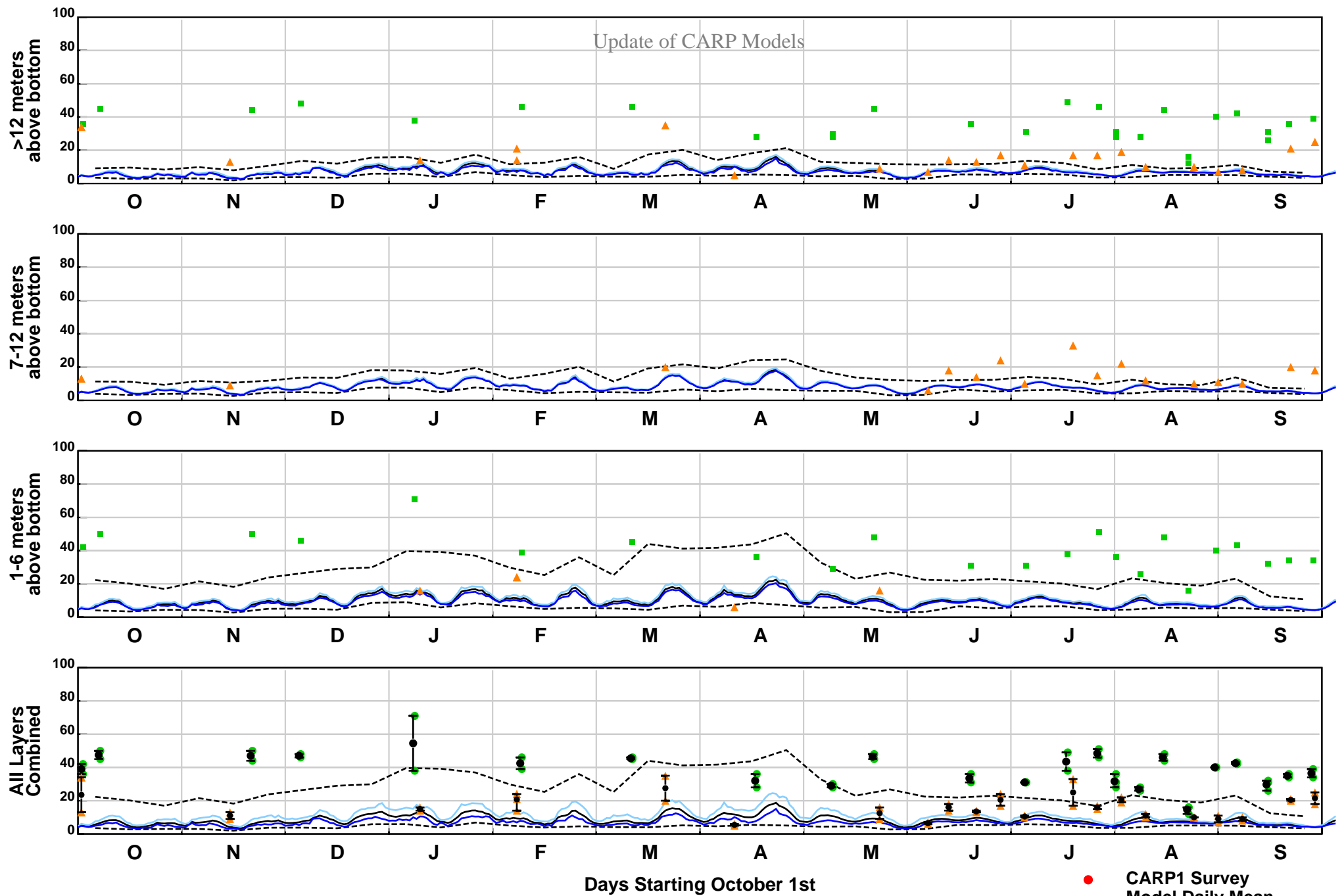
ST-SWEM Suspended Sediment Concentrations (mg/L)
Perth Amboy, October 1st, 2014 - September 30, 2015
CARP2 Grid Cell (12,27)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



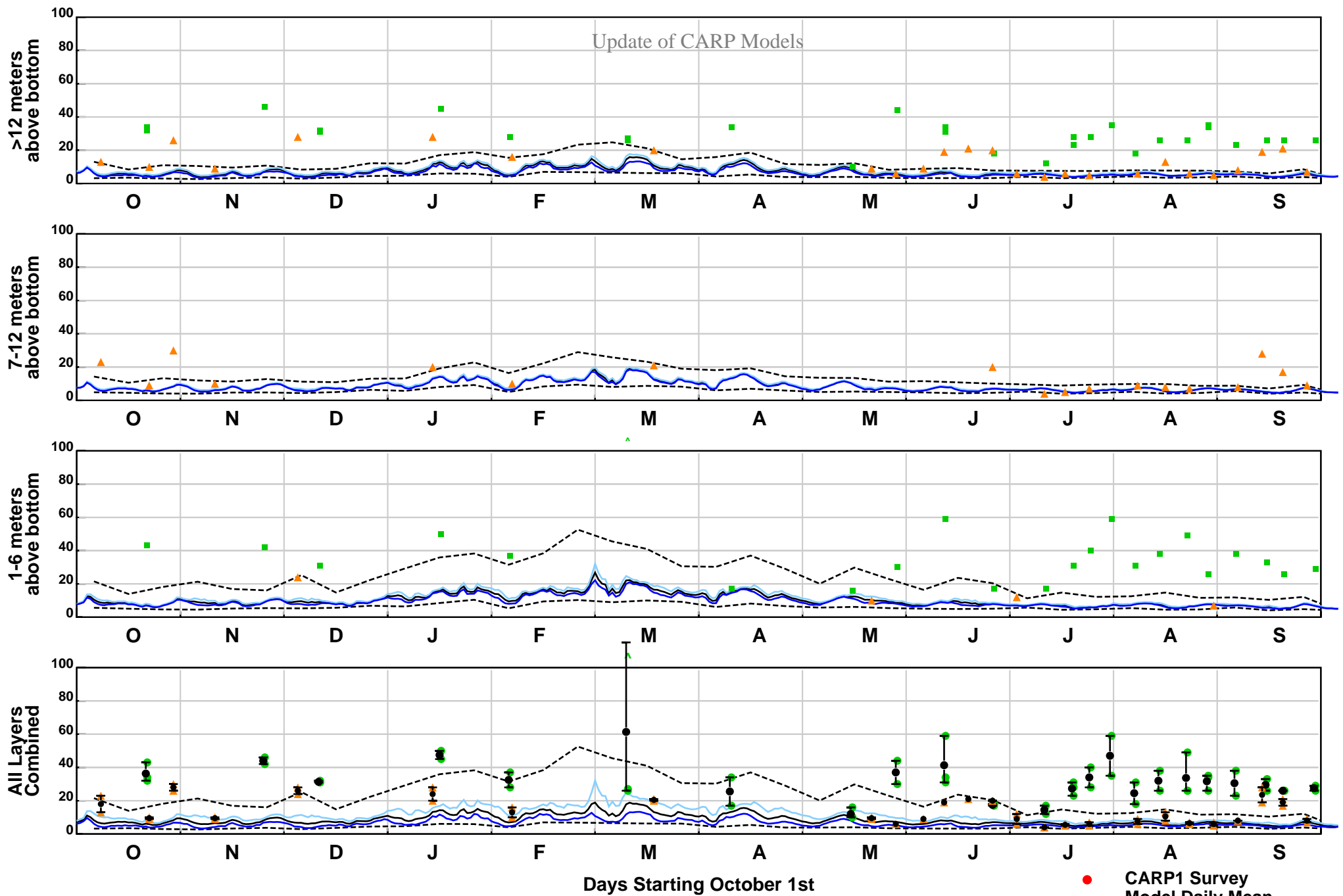
ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 1, October 1st, 2014 - September 30, 2015
CARP2 Grid Cell (23,96)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



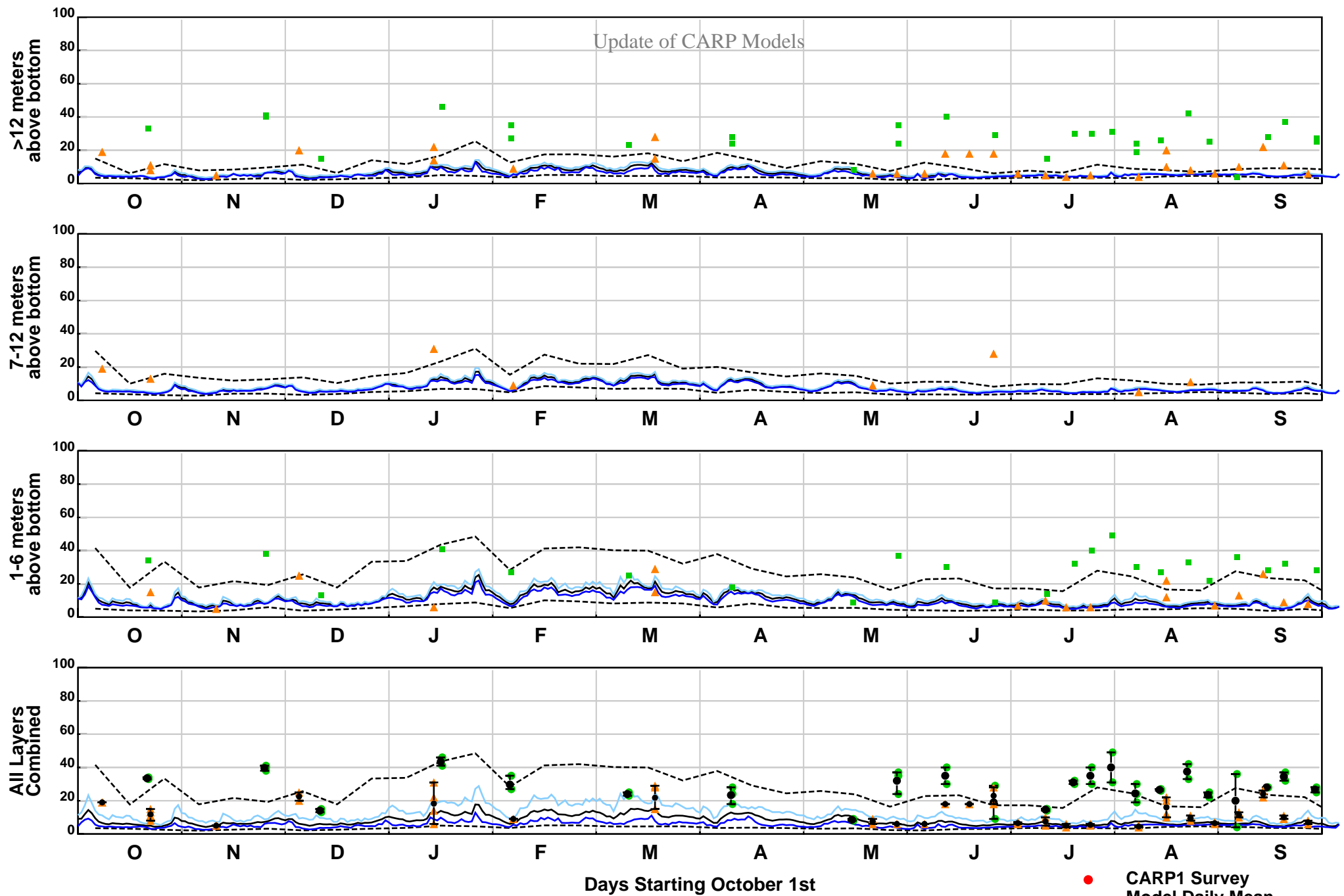
ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 2, October 1st, 2014 - September 30, 2015
CARP2 Grid Cell (23,73)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

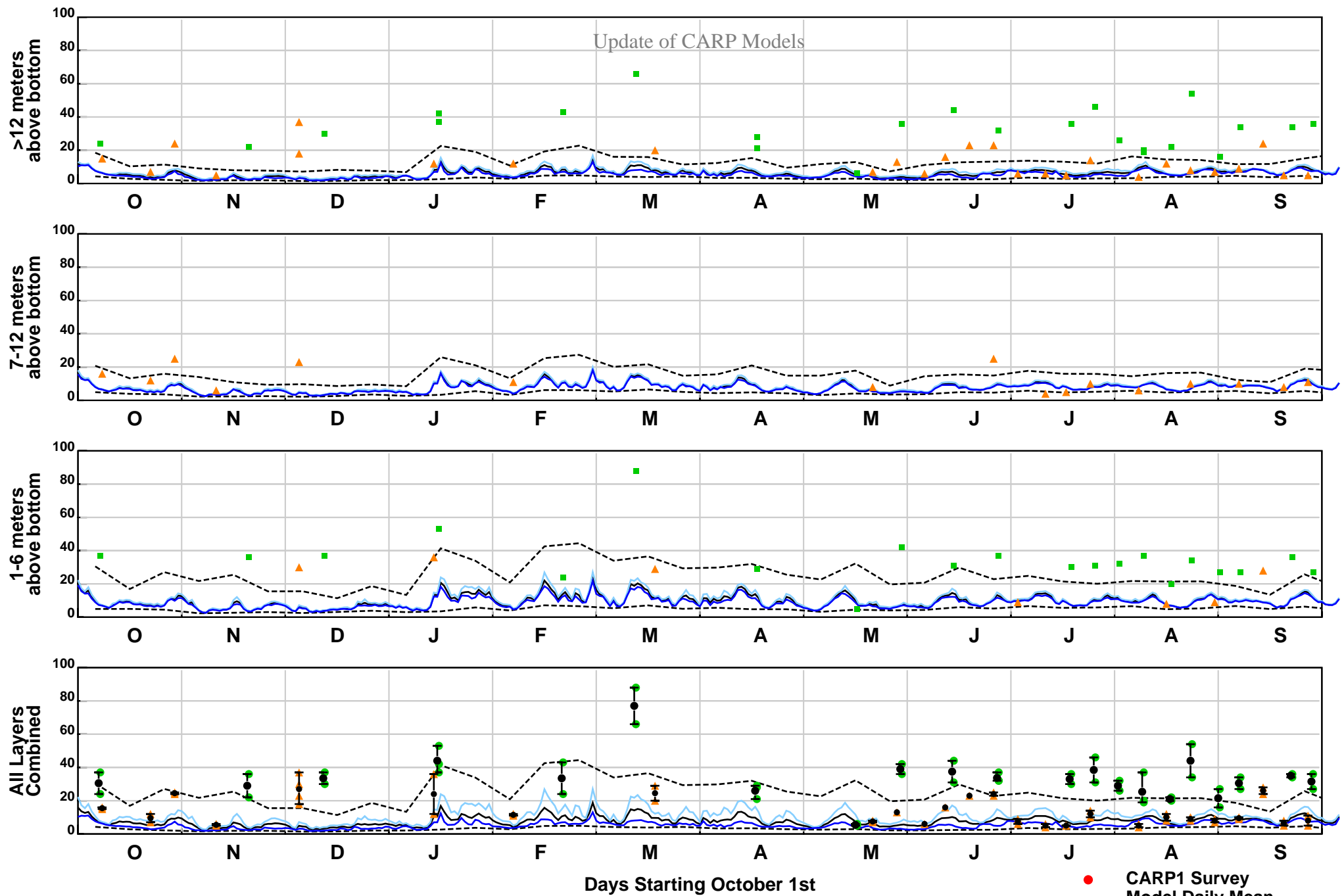


ST-SWEM Suspended Sediment Concentrations (mg/L)
Kill Van Kull, October 1st, 2015 - September 30, 2016
CARP2 Grid Cell (30,66)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey

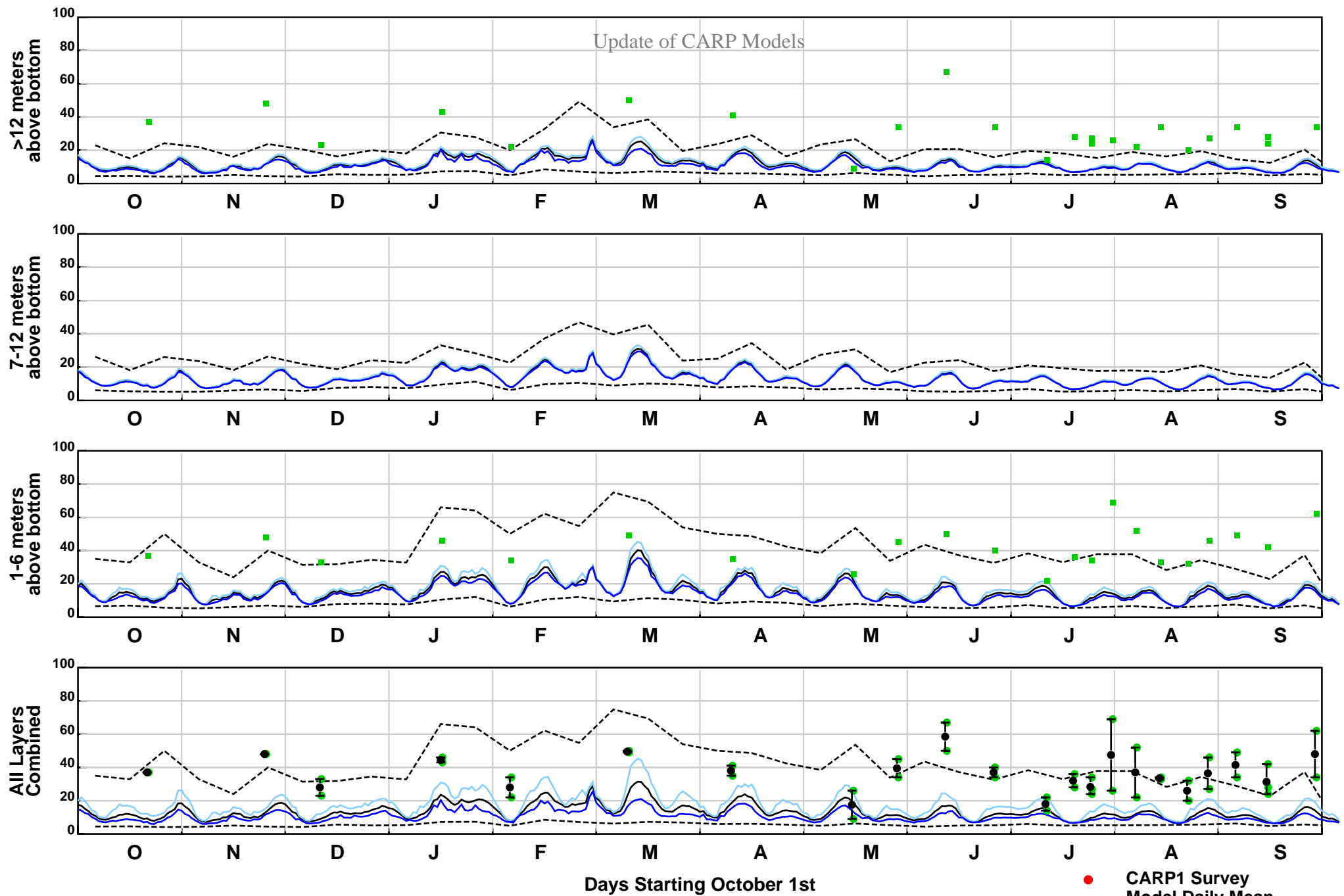


ST-SWEM Suspended Sediment Concentrations (mg/L)
Arthur Kill, October 1st, 2015 - September 30, 2016
CARP2 Grid Cell (12,56)



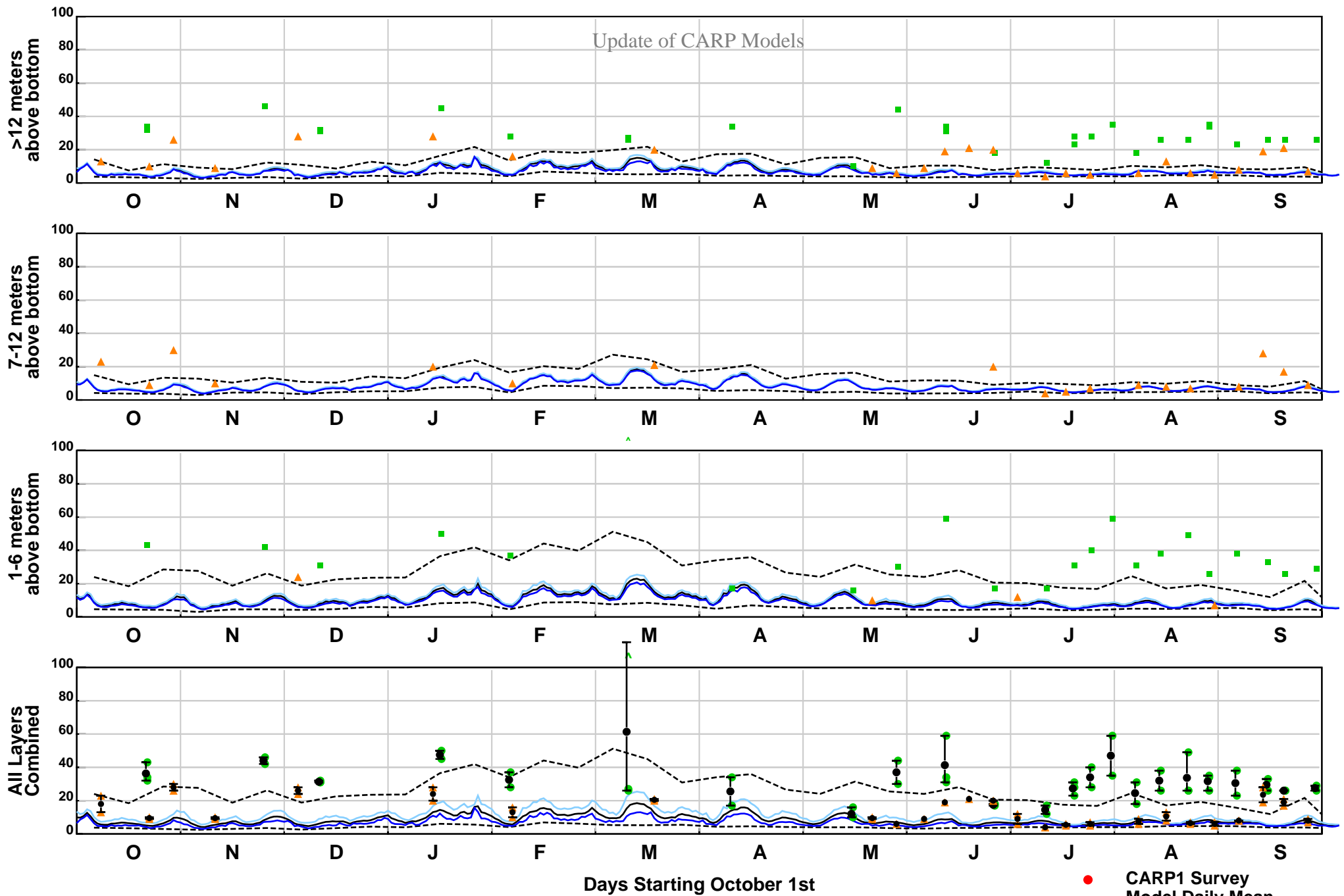
ST-SWEM Suspended Sediment Concentrations (mg/L)
Perth Amboy, October 1st, 2015 - September 30, 2016
CARP2 Grid Cell (12,27)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 1, October 1st, 2015 - September 30, 2016
CARP2 Grid Cell (23,96)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey



ST-SWEM Suspended Sediment Concentrations (mg/L)
Newark Bay 2, October 1st, 2015 - September 30, 2016
CARP2 Grid Cell (23,73)

- CARP1 Survey
- Model Daily Mean
- Model Daily Max
- Model Daily Min
- - - Instantaneous Max/Min
- NJHDG Survey
- ▲ Harbor Survey