Appendix C: Additional Modeling Results for FRFA Scenario 1 Future Condition Simulations

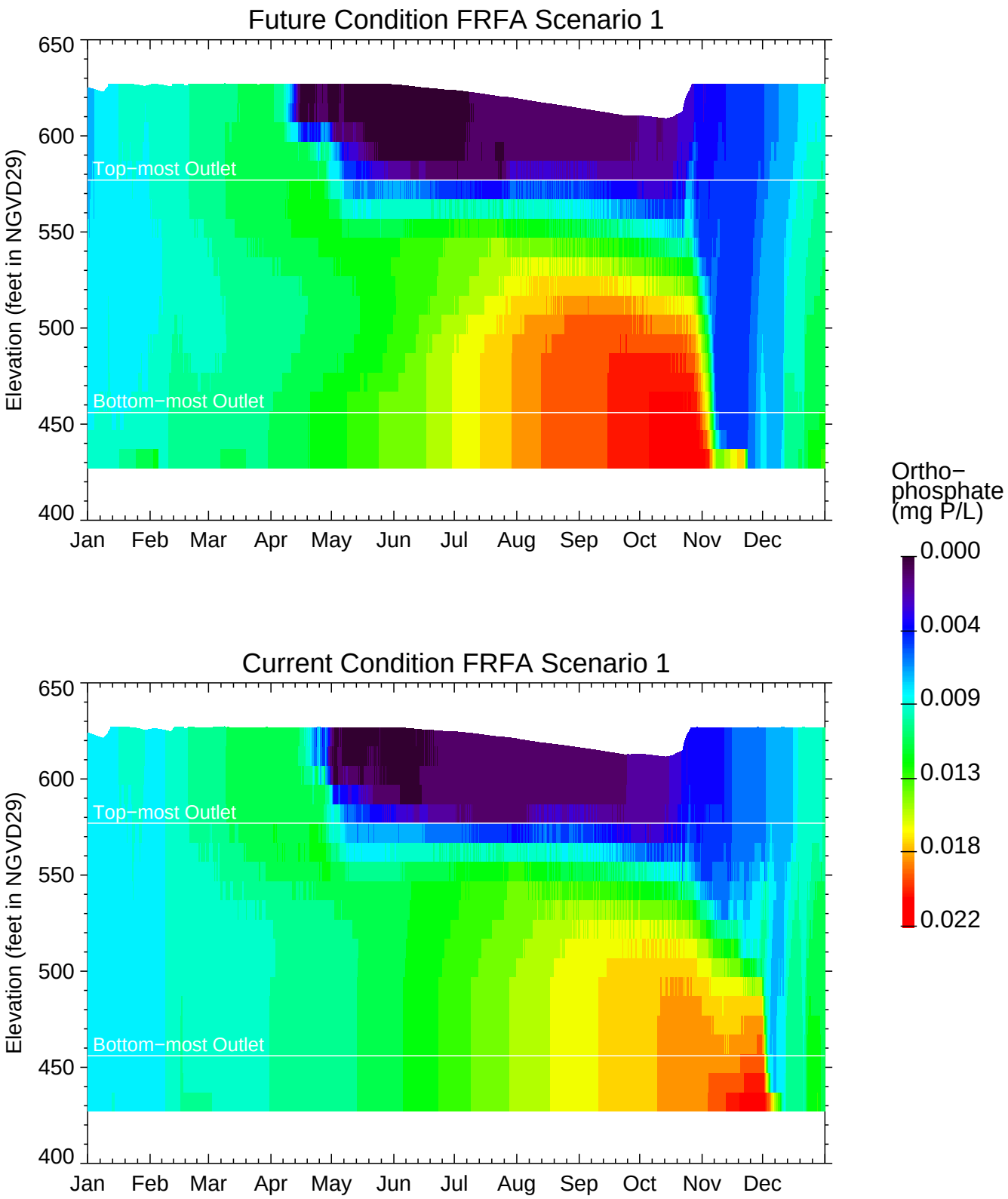

Figure C1−1

Depth Profiles of Model−predicted Orthophosphate in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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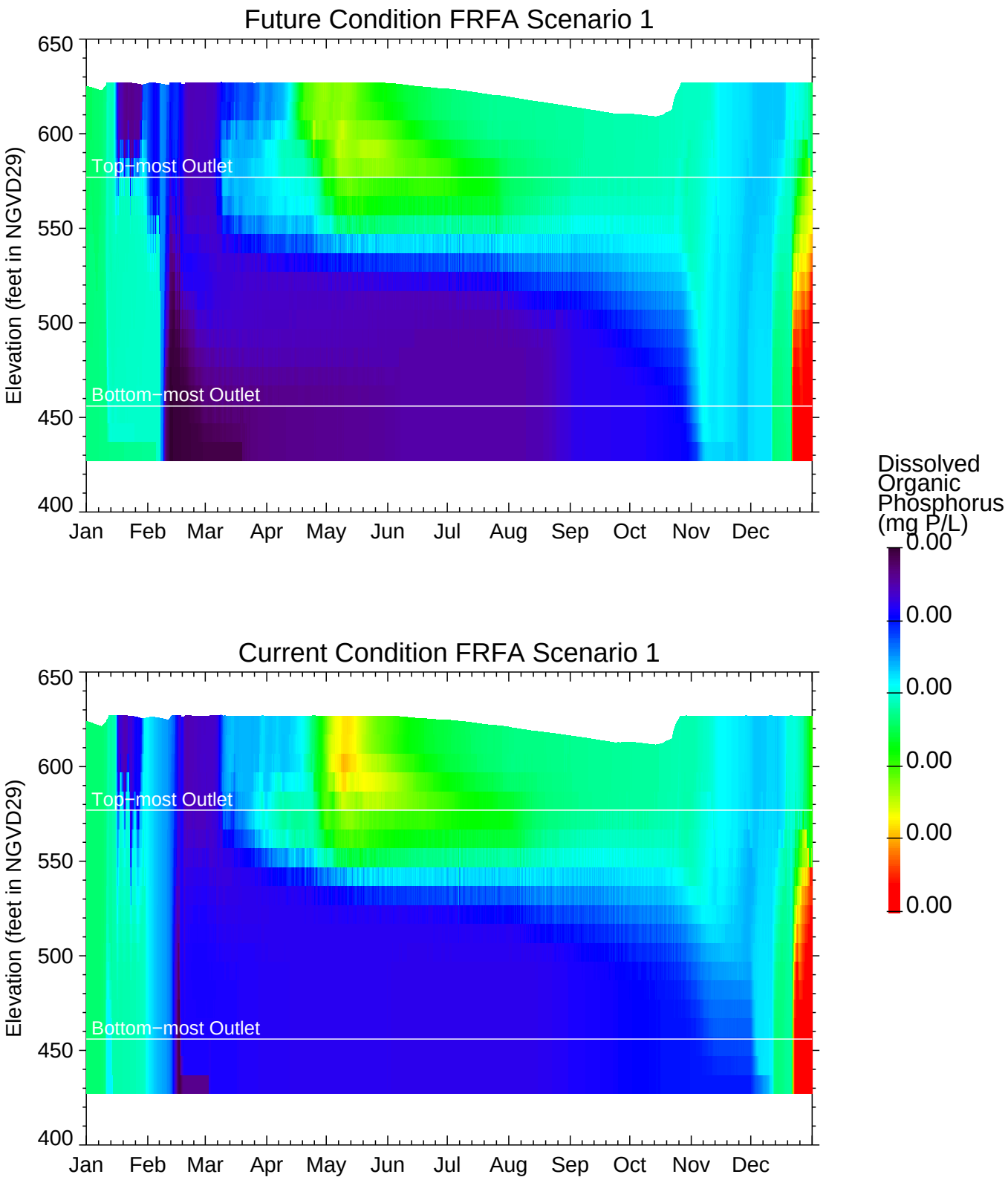

Figure C1−2

Depth Profiles of Model−predicted Dissolved Organic Phosphorus in Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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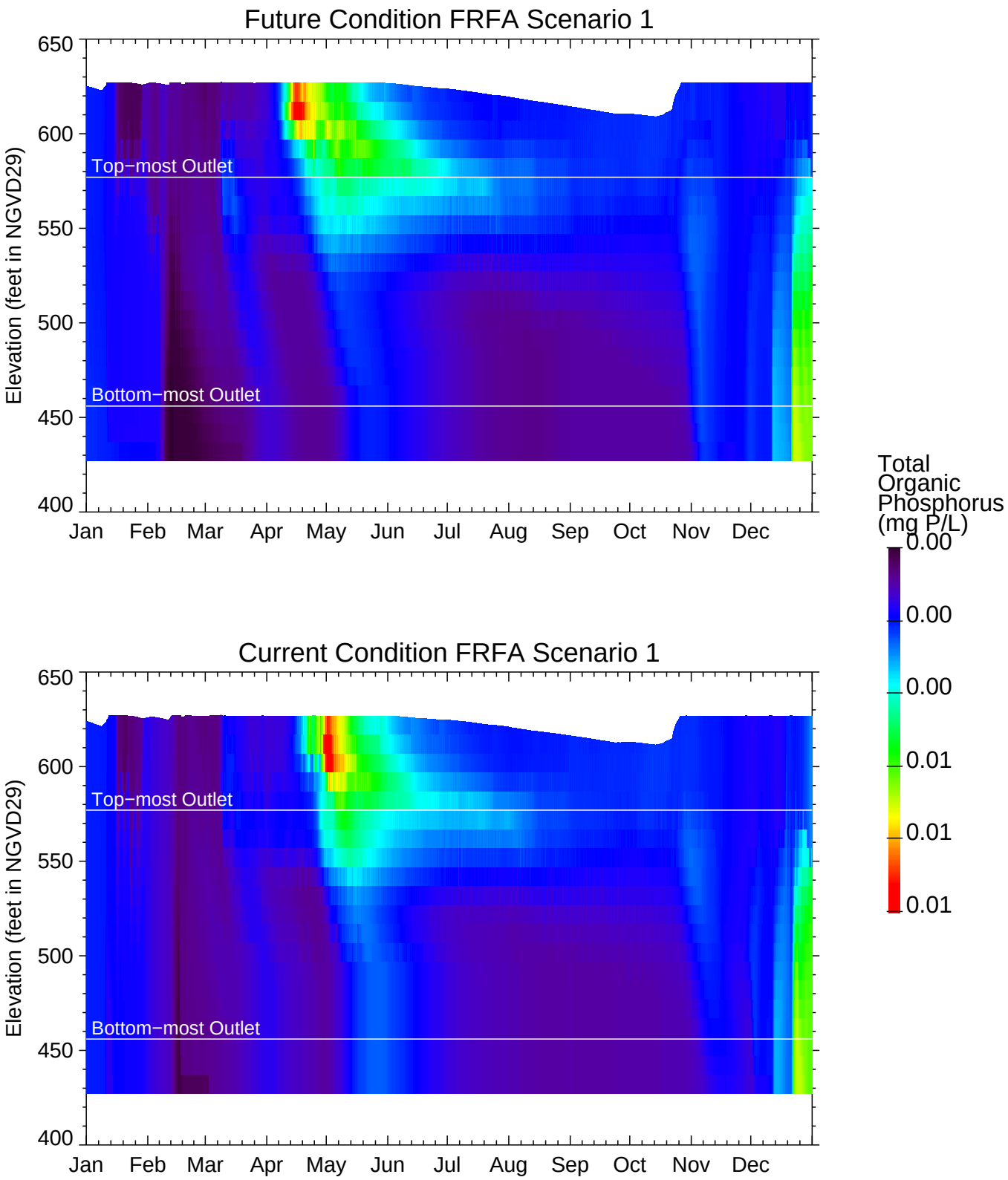

Figure C1−3

Depth Profiles of Model−predicted Total Organic Phosphorus in Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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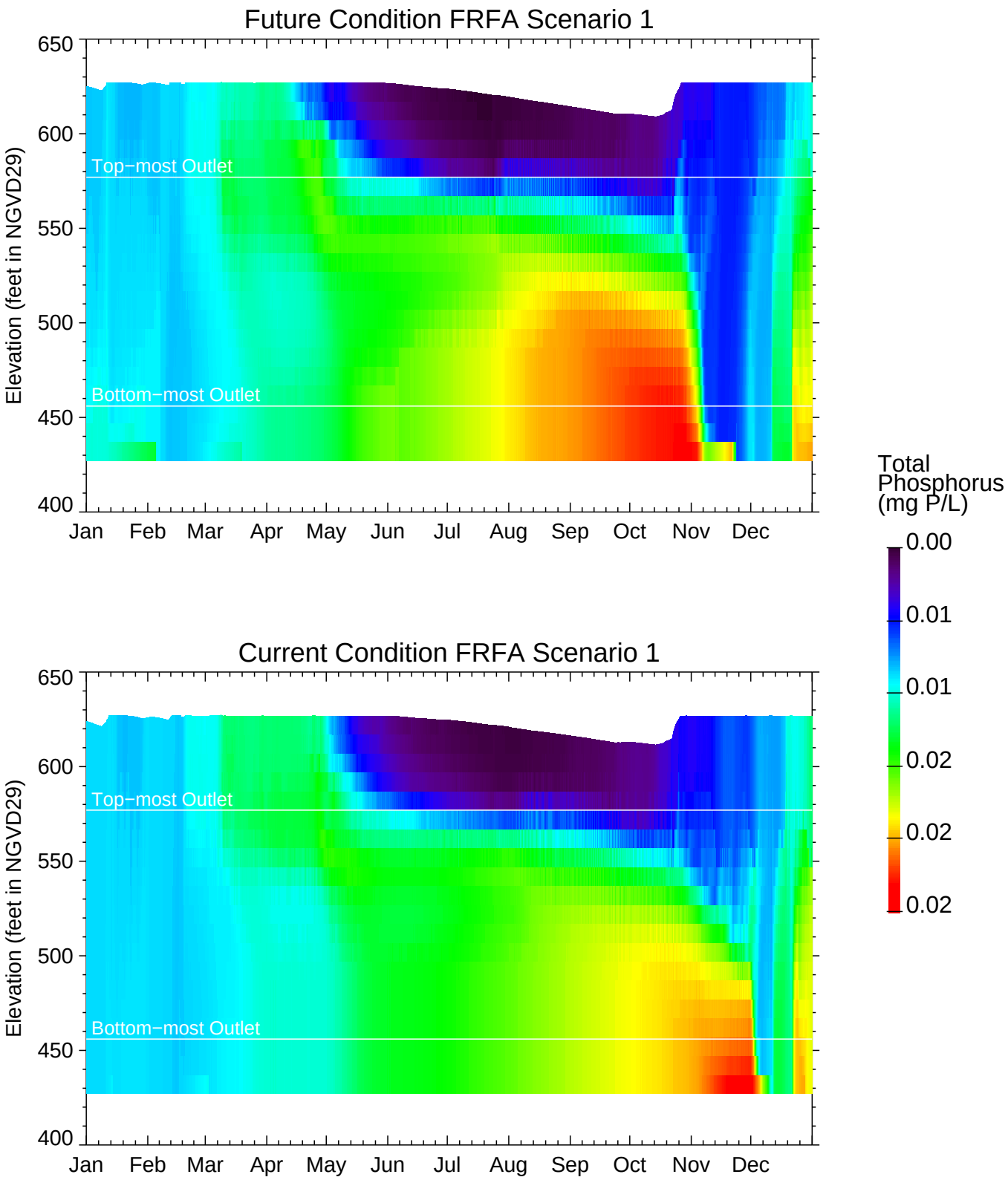

Figure C1−4

Depth Profiles of Model−predicted Total Phosphorus in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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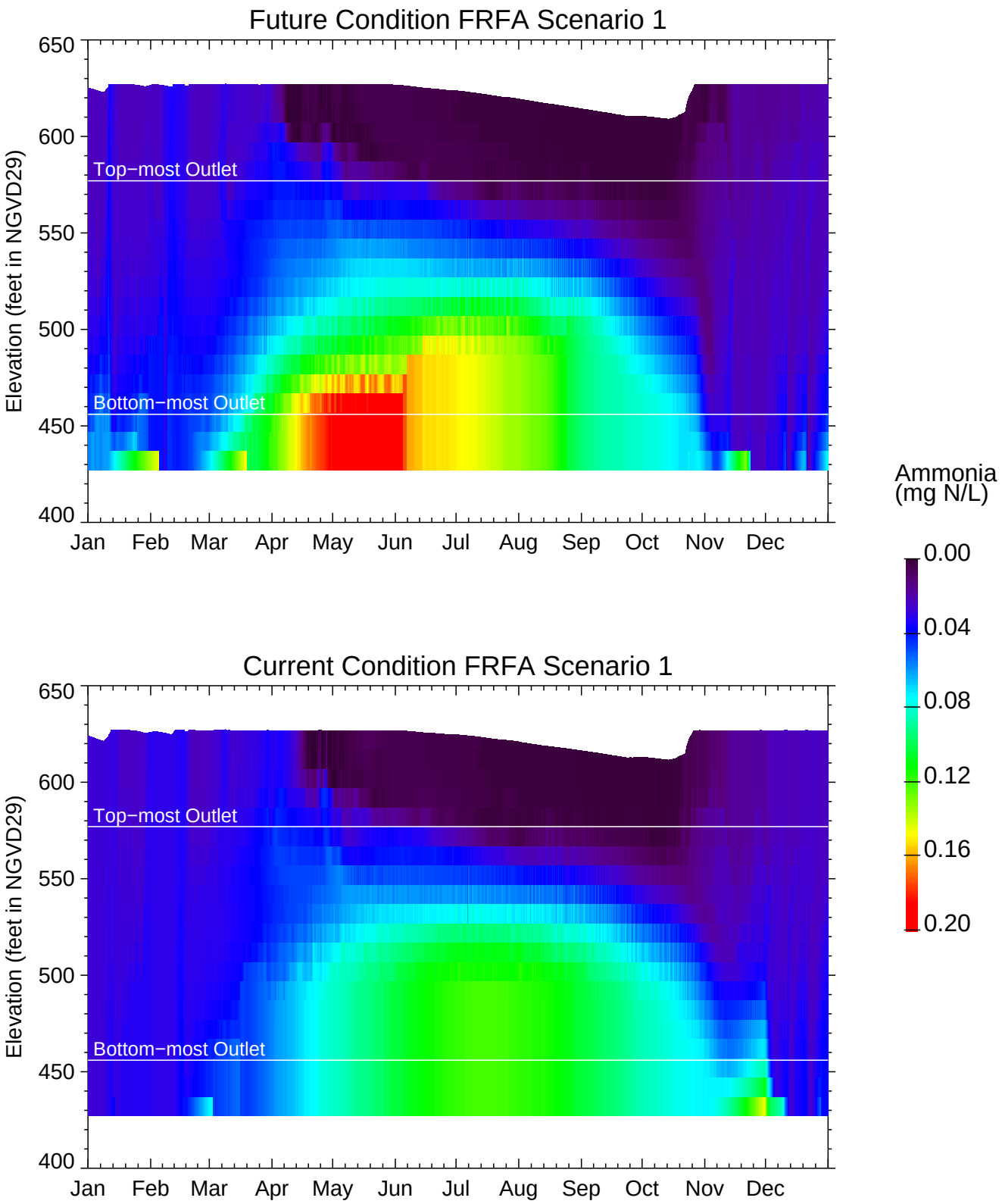

Figure C1−5

Depth Profiles of Model−predicted Ammonia in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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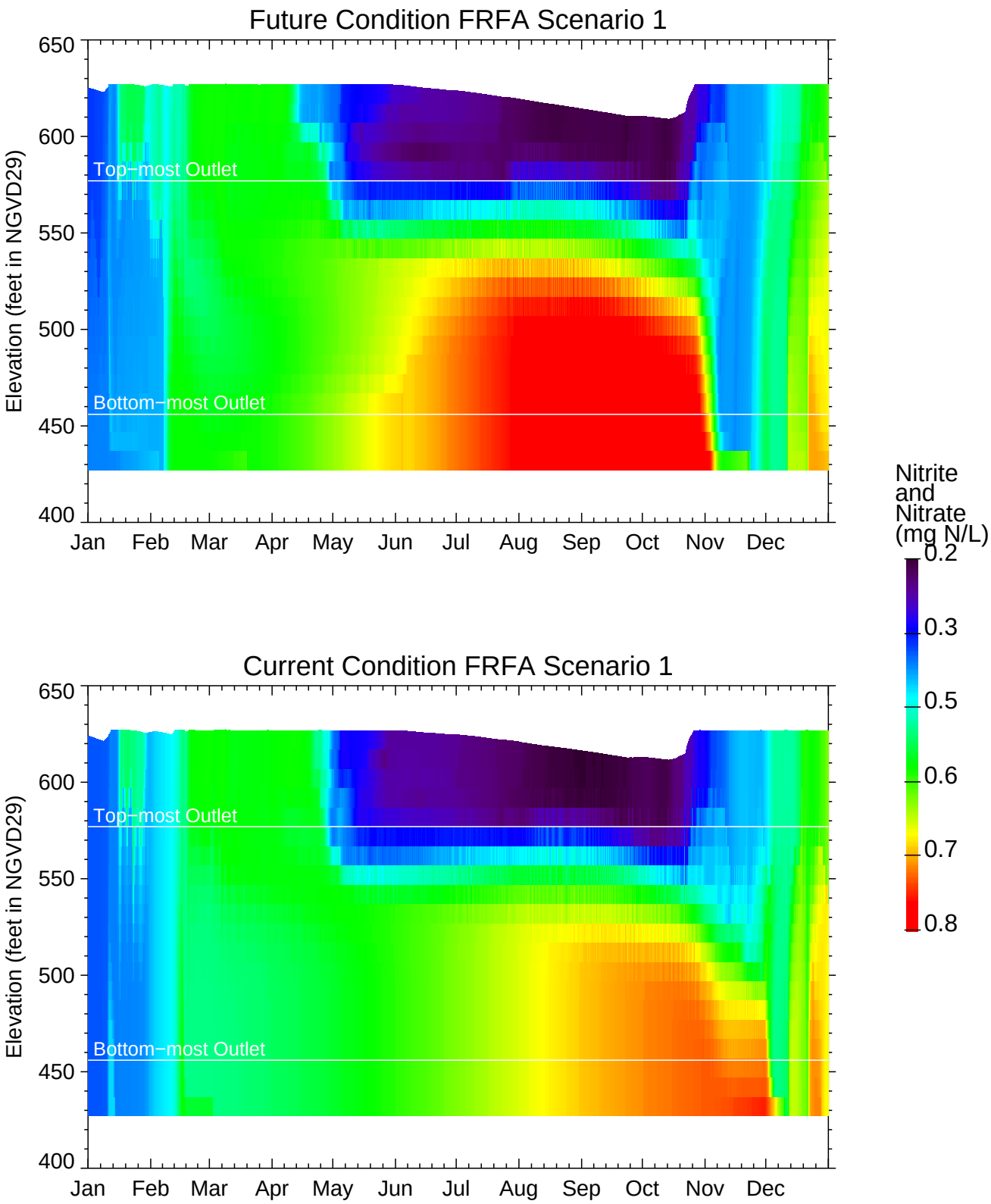

Figure C1−6

Depth Profiles of Model−predicted Nitrite and Nitrate in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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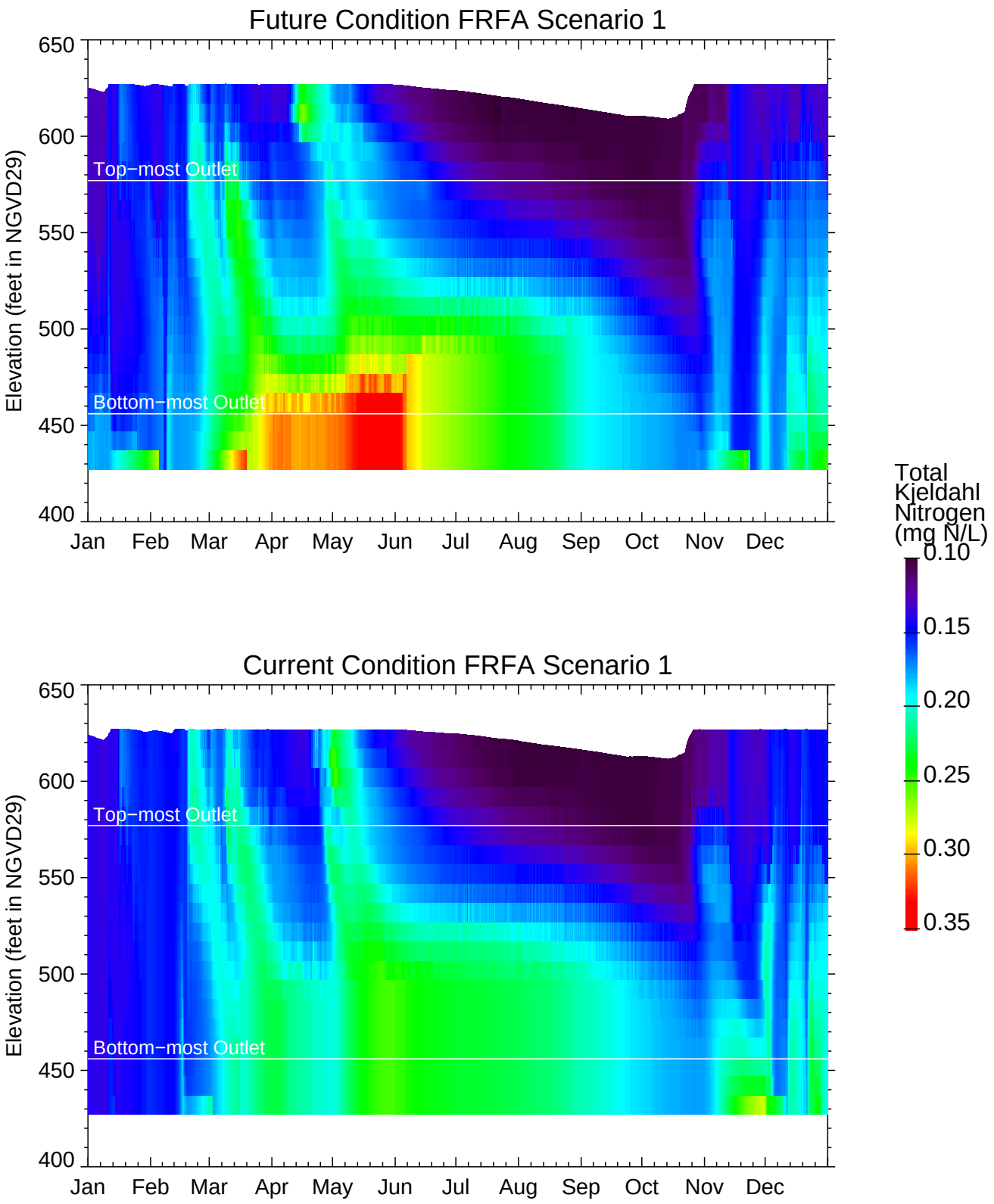

Figure C1−7

Depth Profiles of Model−predicted Total Kjeldahl Nitrogen in Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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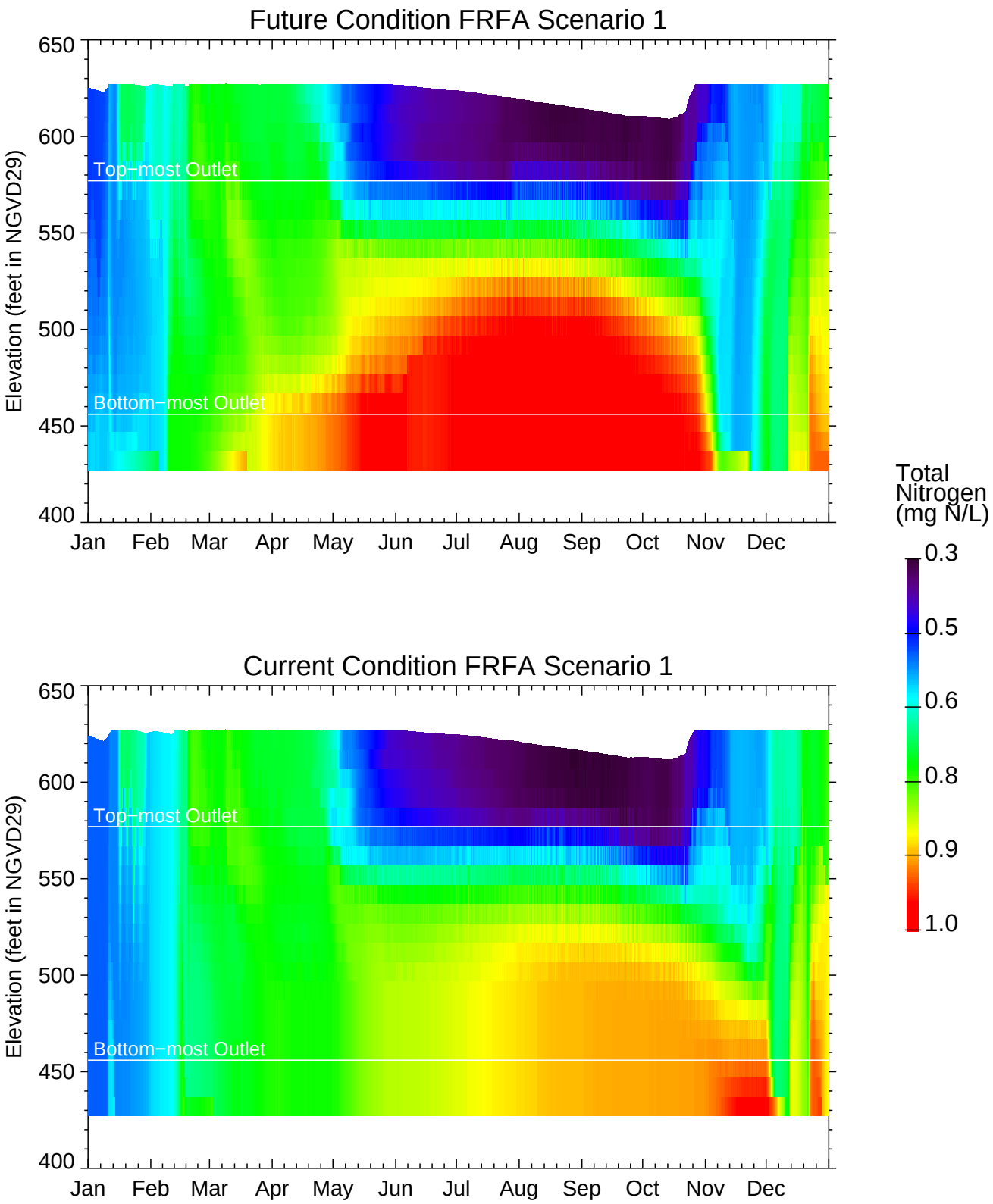

Figure C1−8

Depth Profiles of Model−predicted Total Nitrogen in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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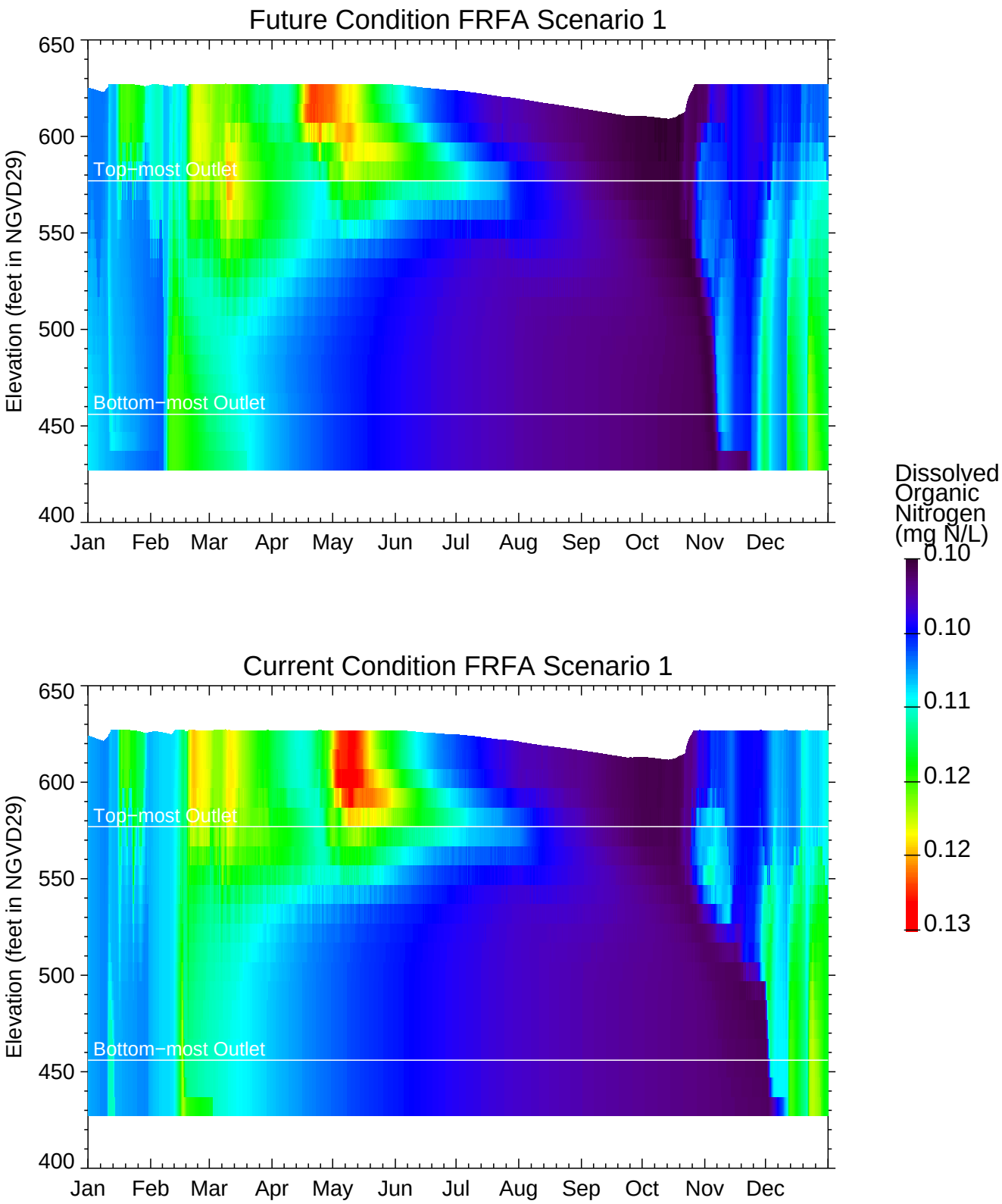

Figure C1−9

Depth Profiles of Model−predicted Dissolved Organic Nitrogen in Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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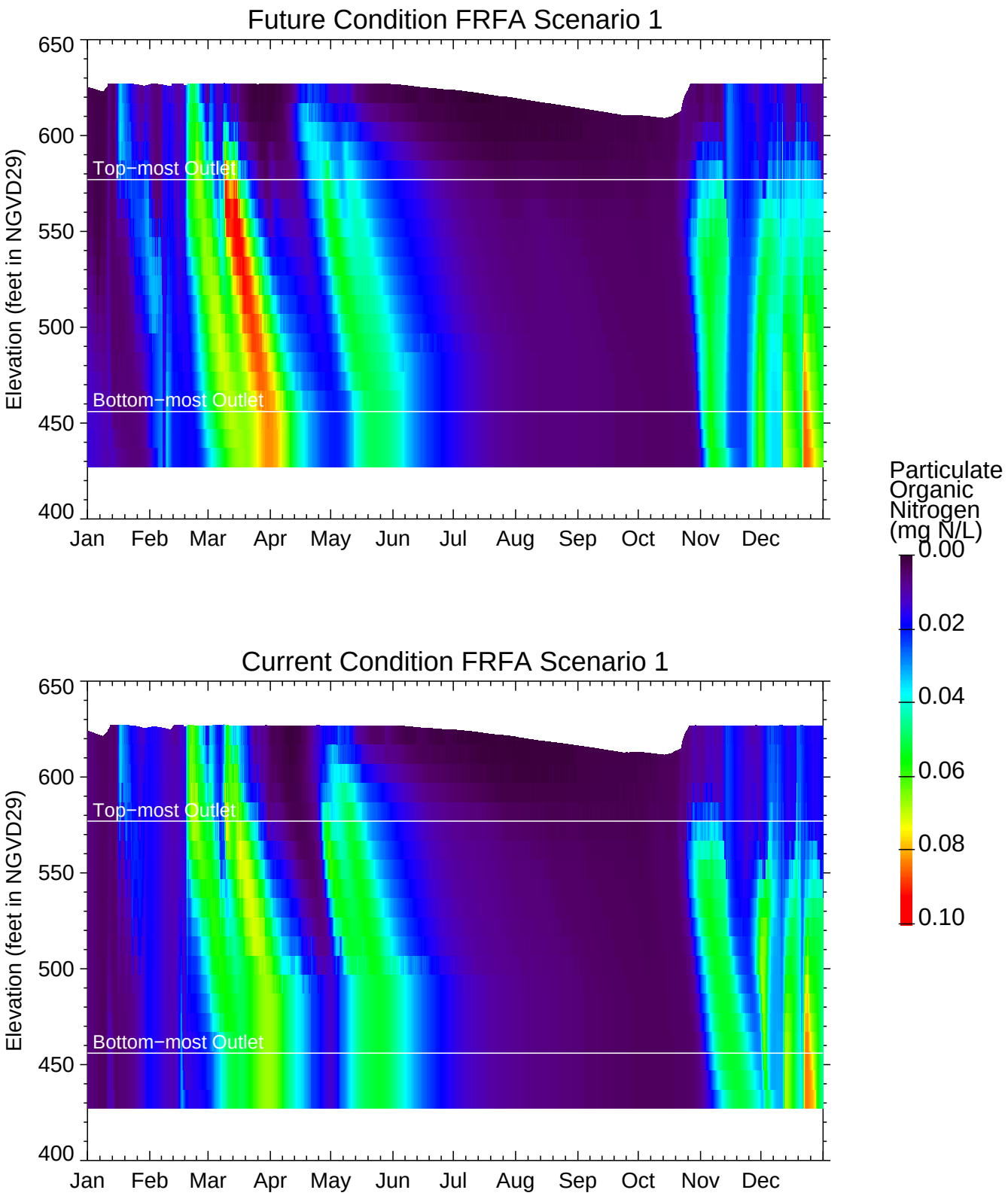

Figure C1−10

Depth Profiles of Model−predicted Particulate Organic Nitrogen in Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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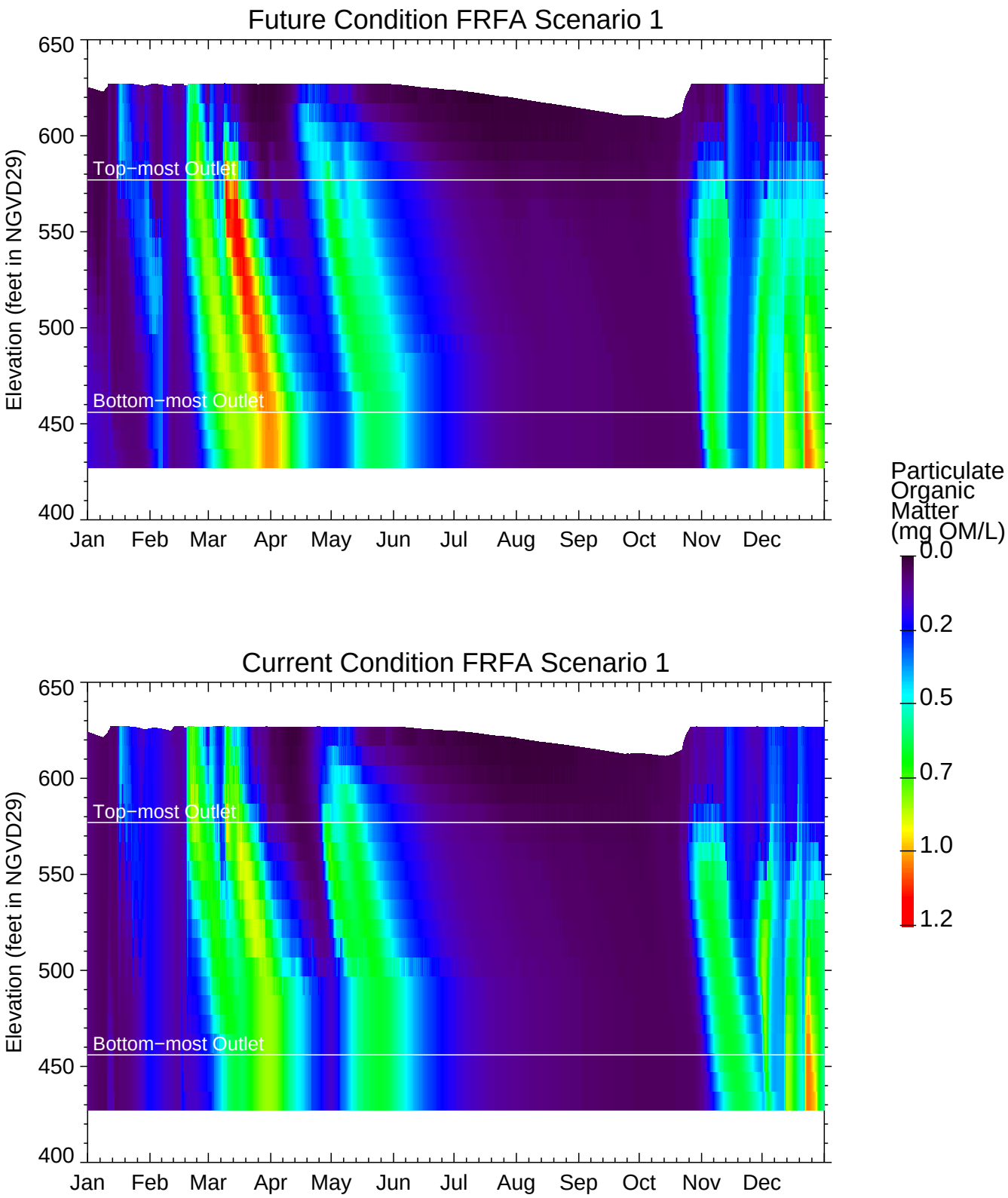

Figure C1−11

Depth Profiles of Model−predicted Particulate Organic Matter in Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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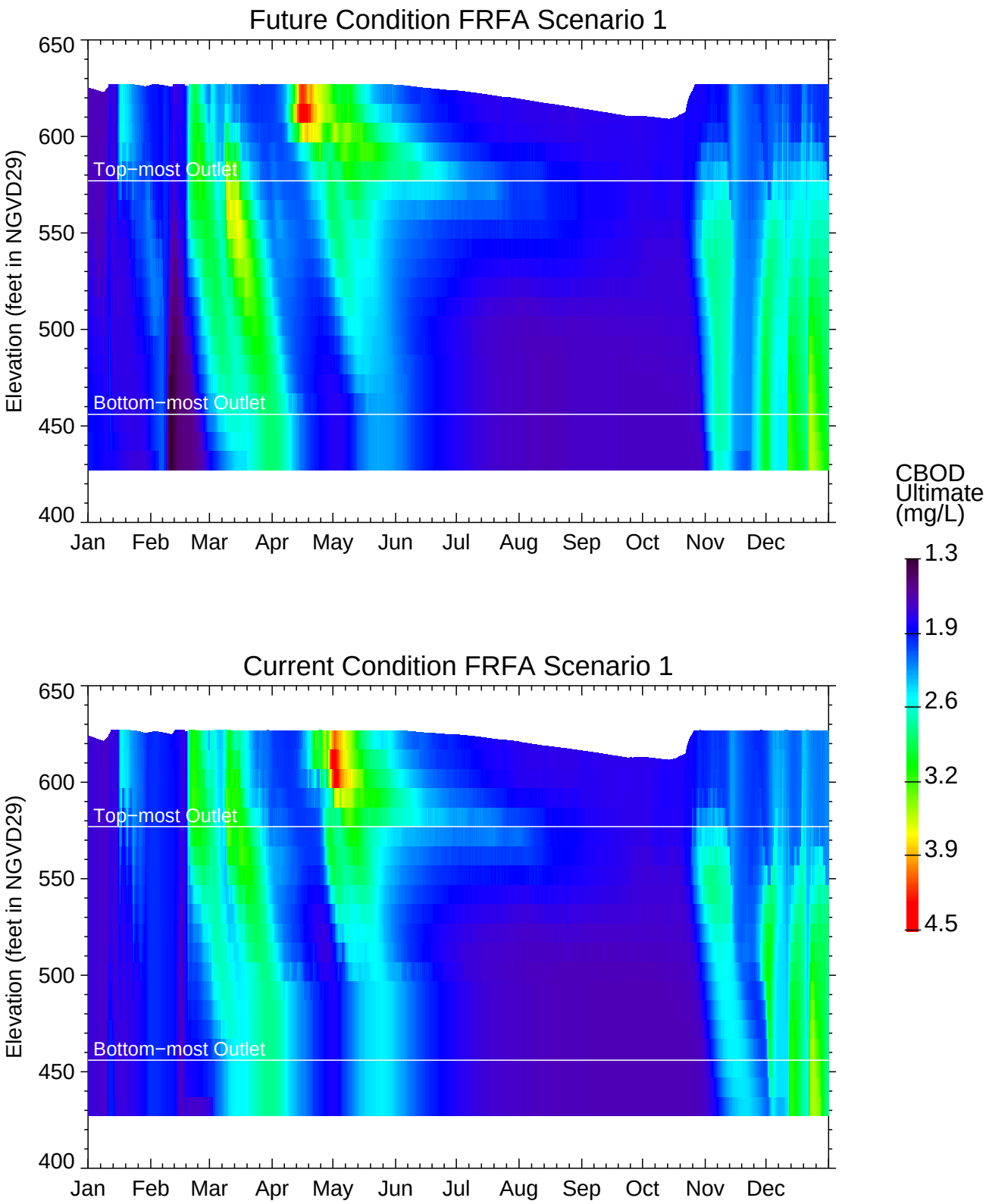

Figure C1−12

Depth Profiles of Model−predicted CBOD Ultimate in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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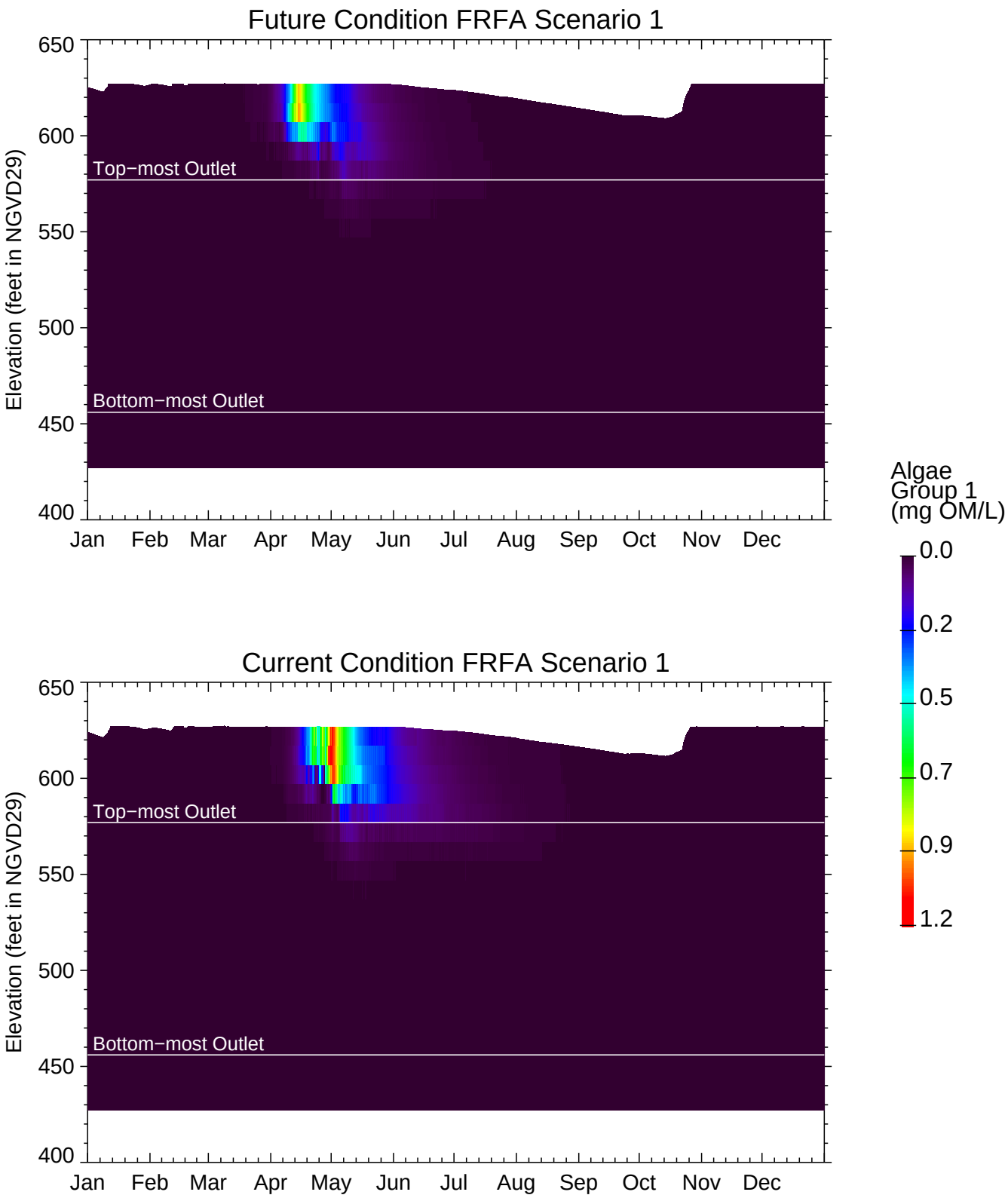

Figure C1−13

Depth Profiles of Model−predicted Algae Group 1 in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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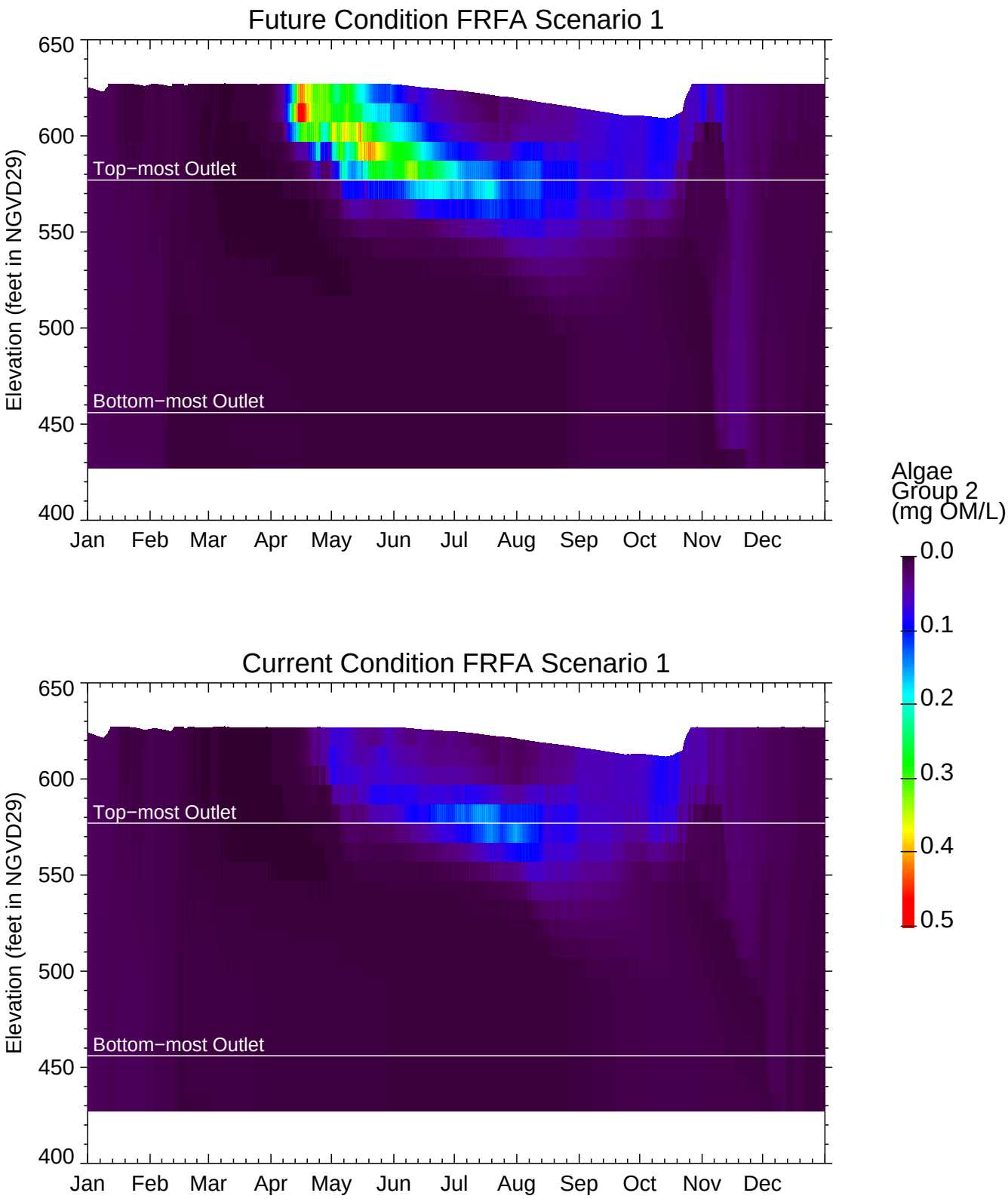

Figure C1−14

Depth Profiles of Model−predicted Algae Group 2 in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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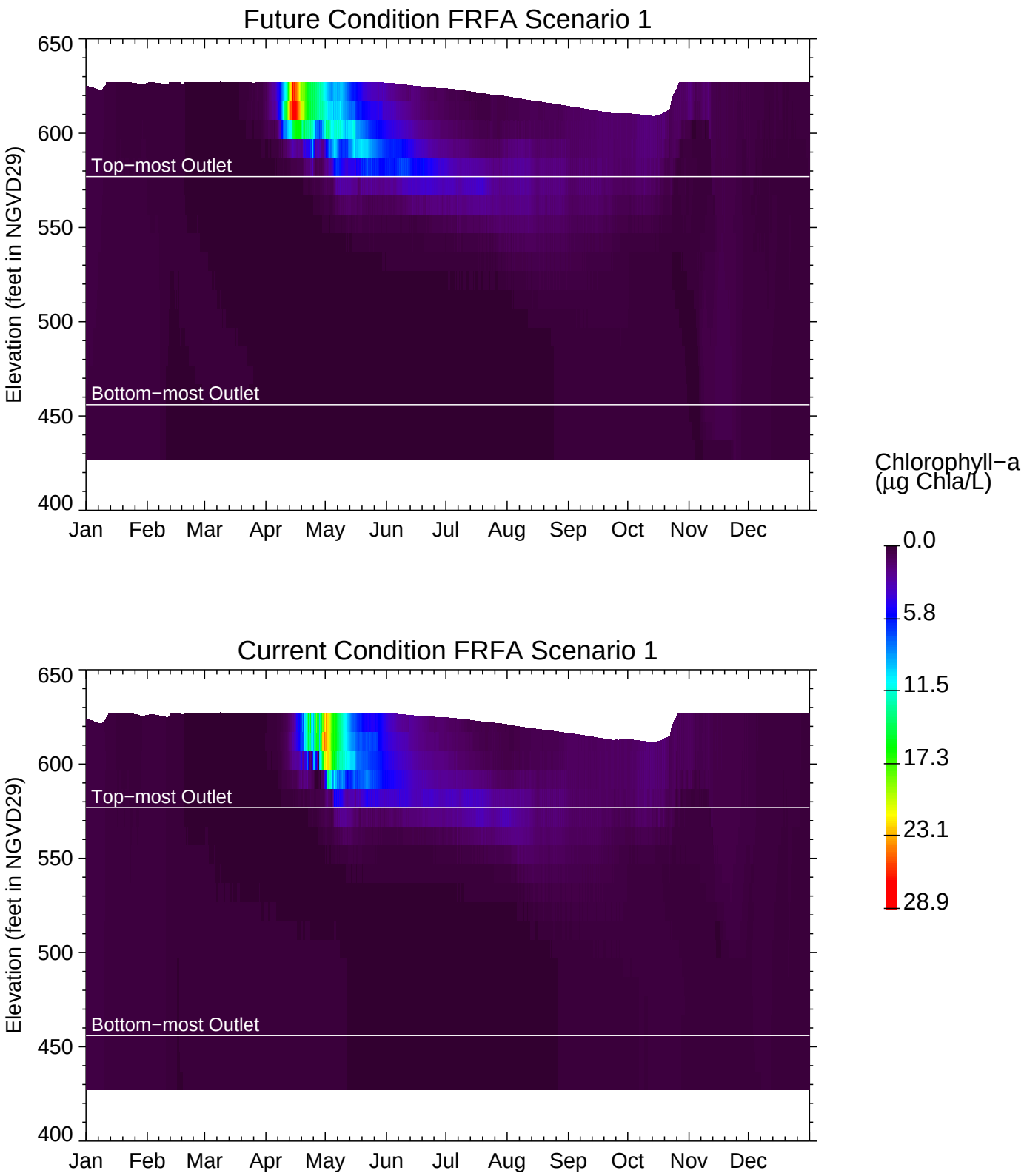

Figure C1−15

Depth Profiles of Model−predicted Chlorophyll−a in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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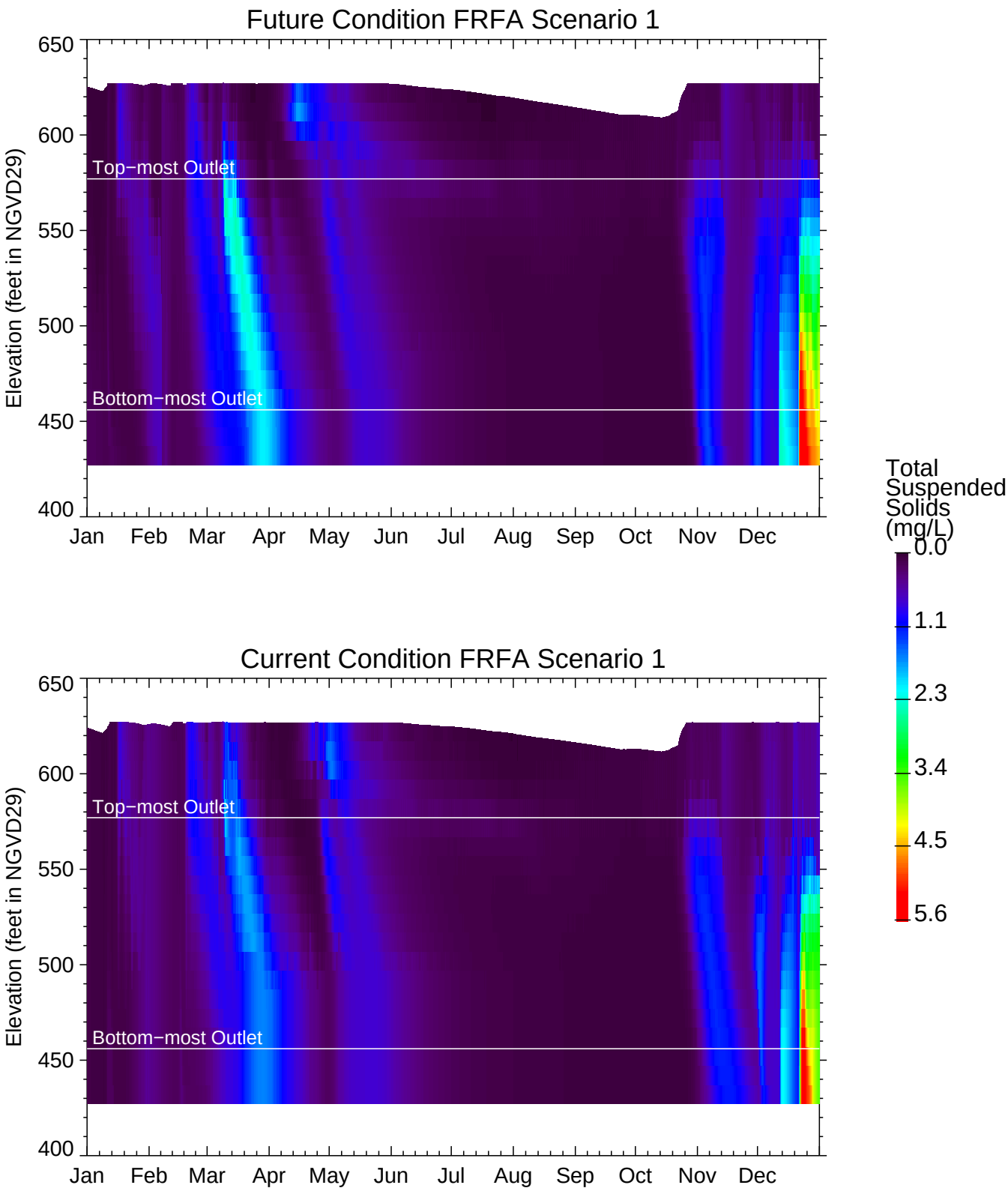

Figure C1−16

Depth Profiles of Model−predicted Total Suspended Solids in Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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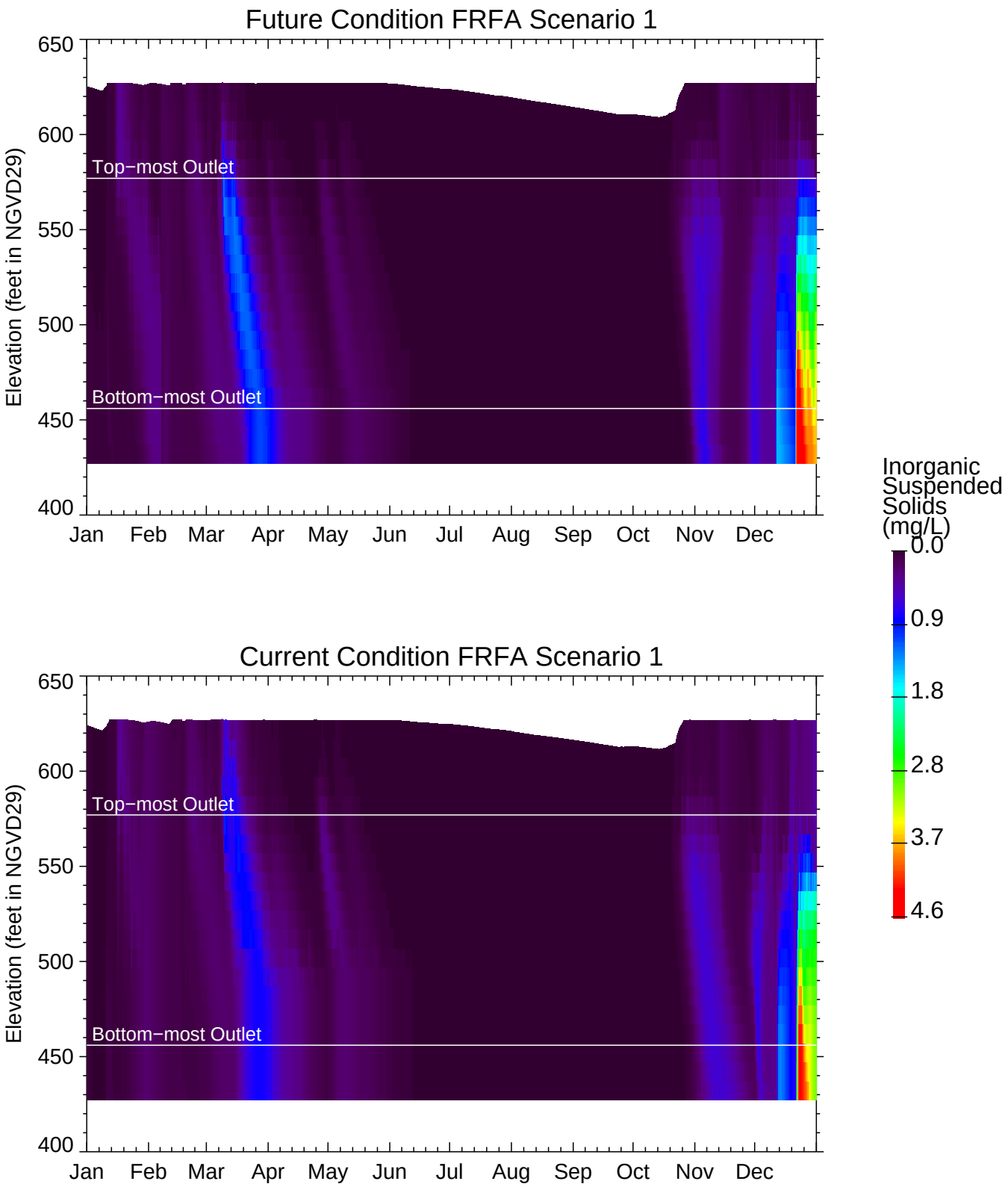

Figure C1−17

Depth Profiles of Model−predicted Inorganic Suspended Solids in Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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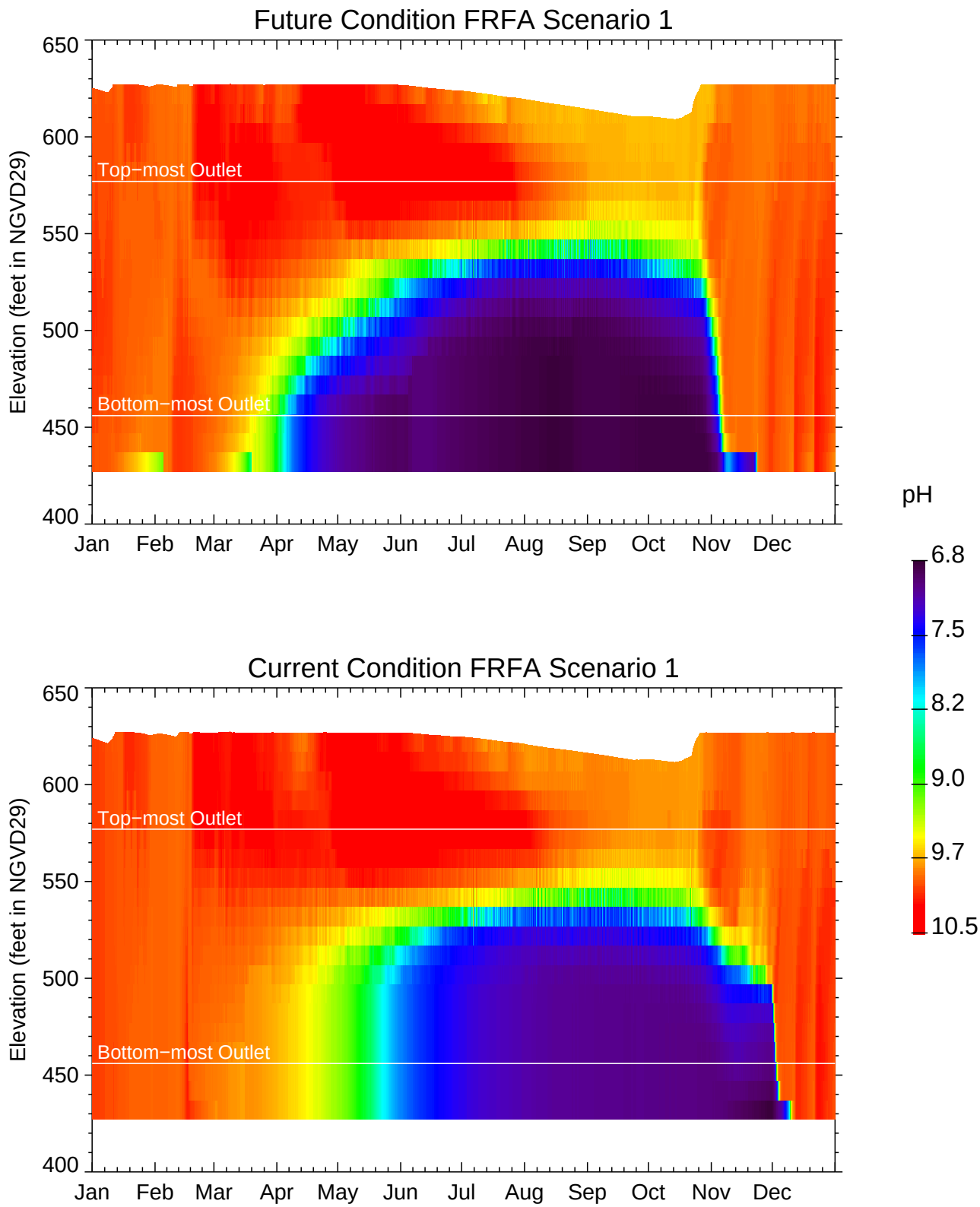

Figure C1−18

Depth Profiles of Model−predicted pH in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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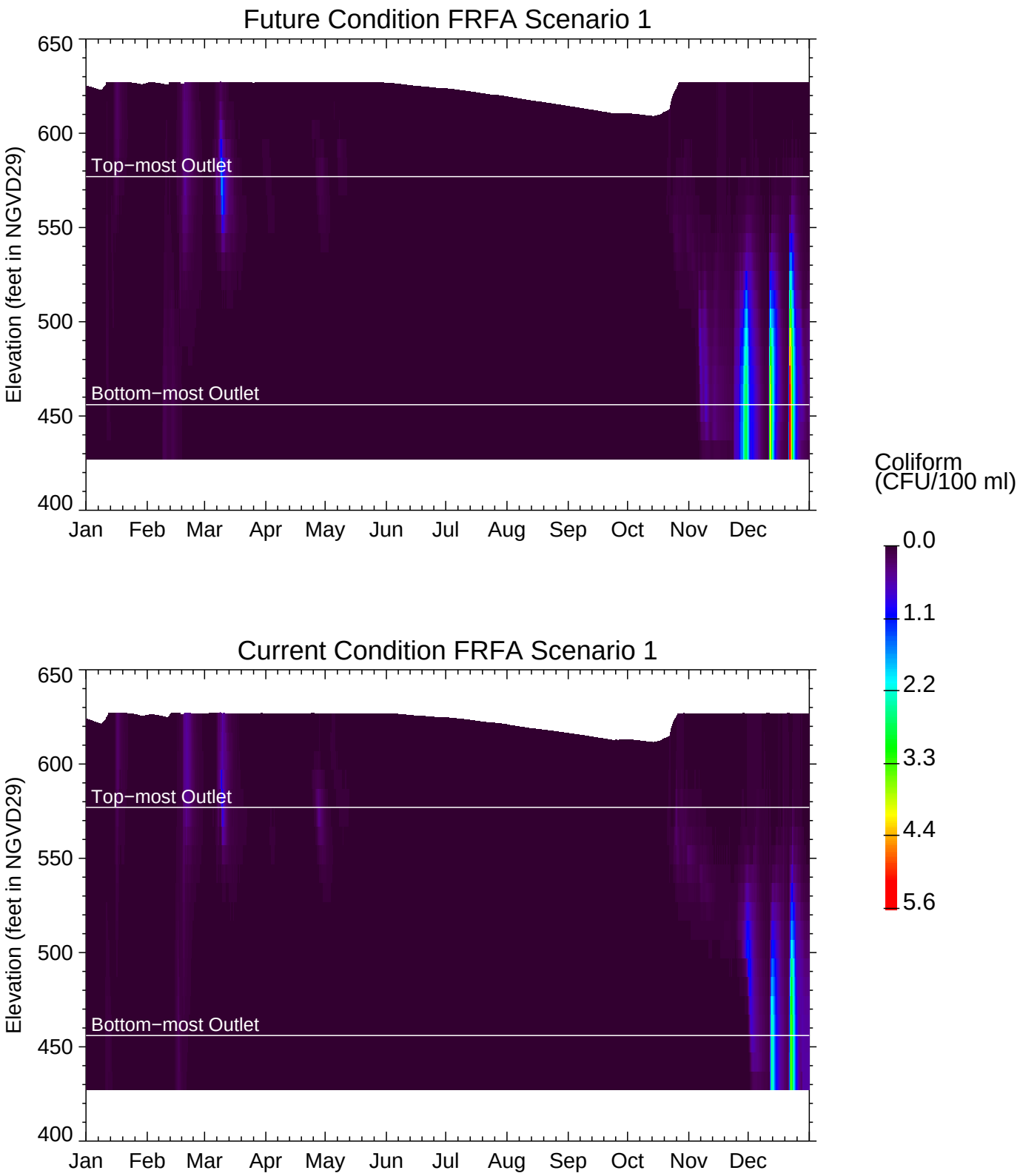

Figure C1−19

Depth Profiles of Model−predicted Coliform in Segment 10 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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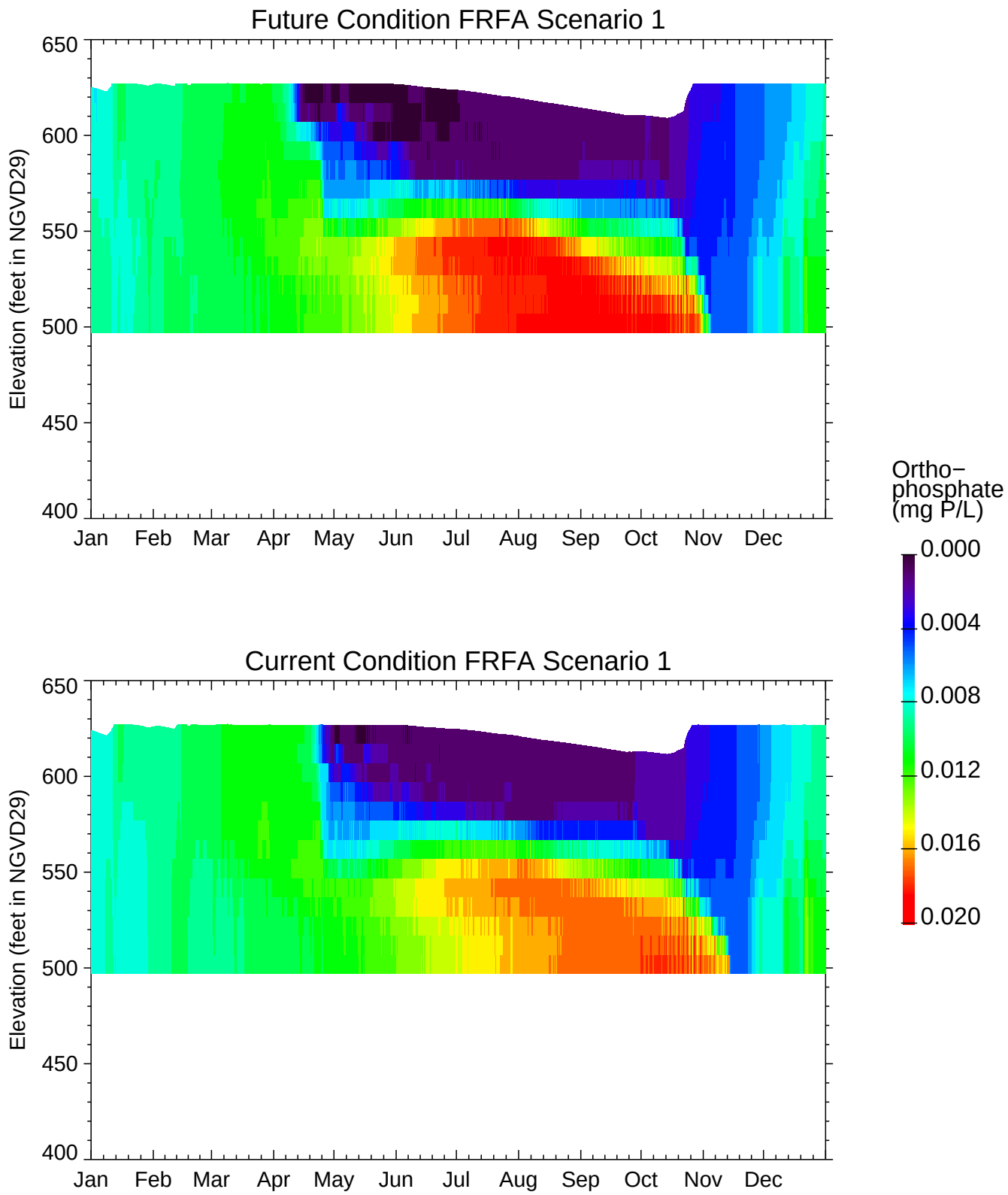

Figure C2−1

Depth Profiles of Model−predicted Orthophosphate in Segment 6 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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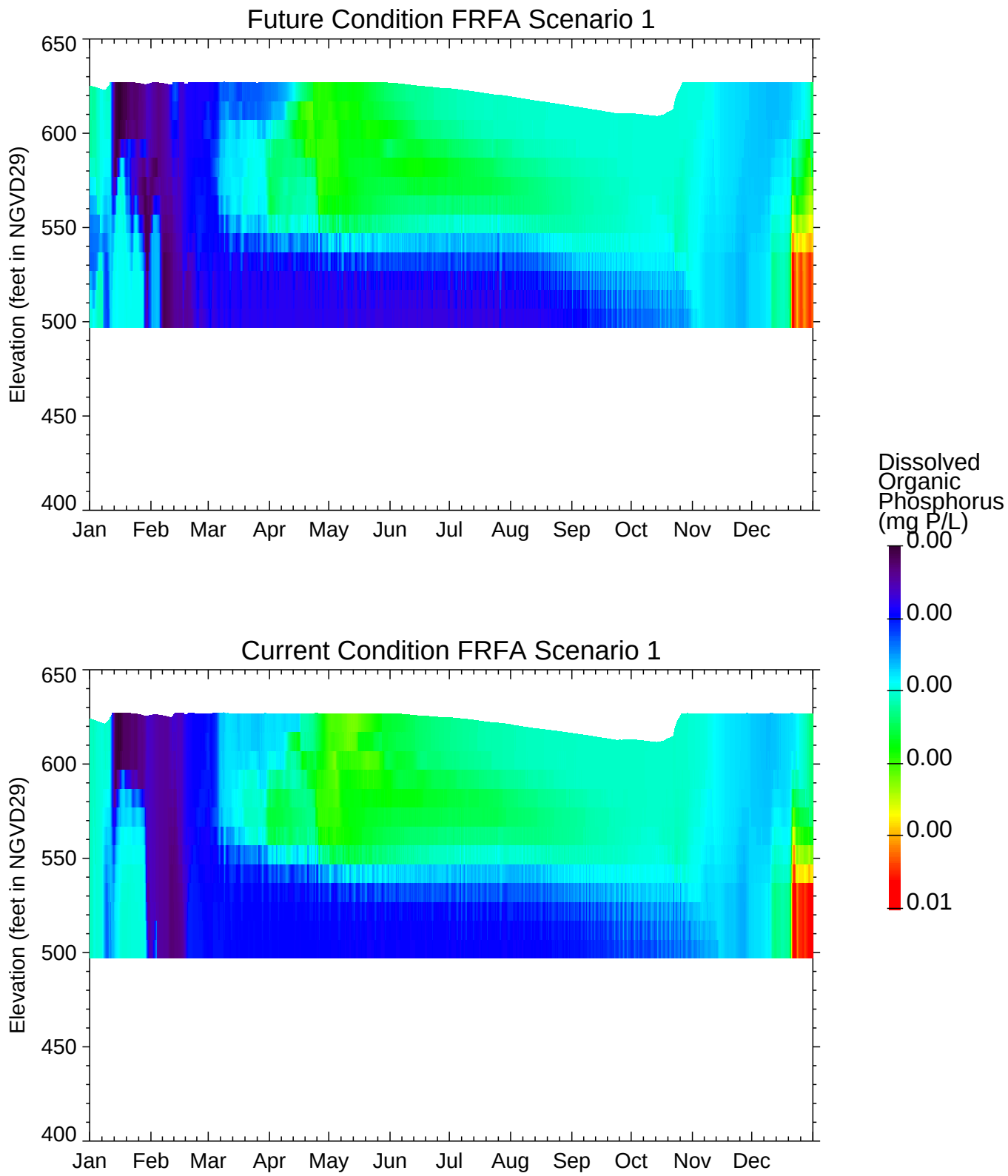

Figure C2−2

Depth Profiles of Model−predicted Dissolved Organic Phosphorus in Segment 6 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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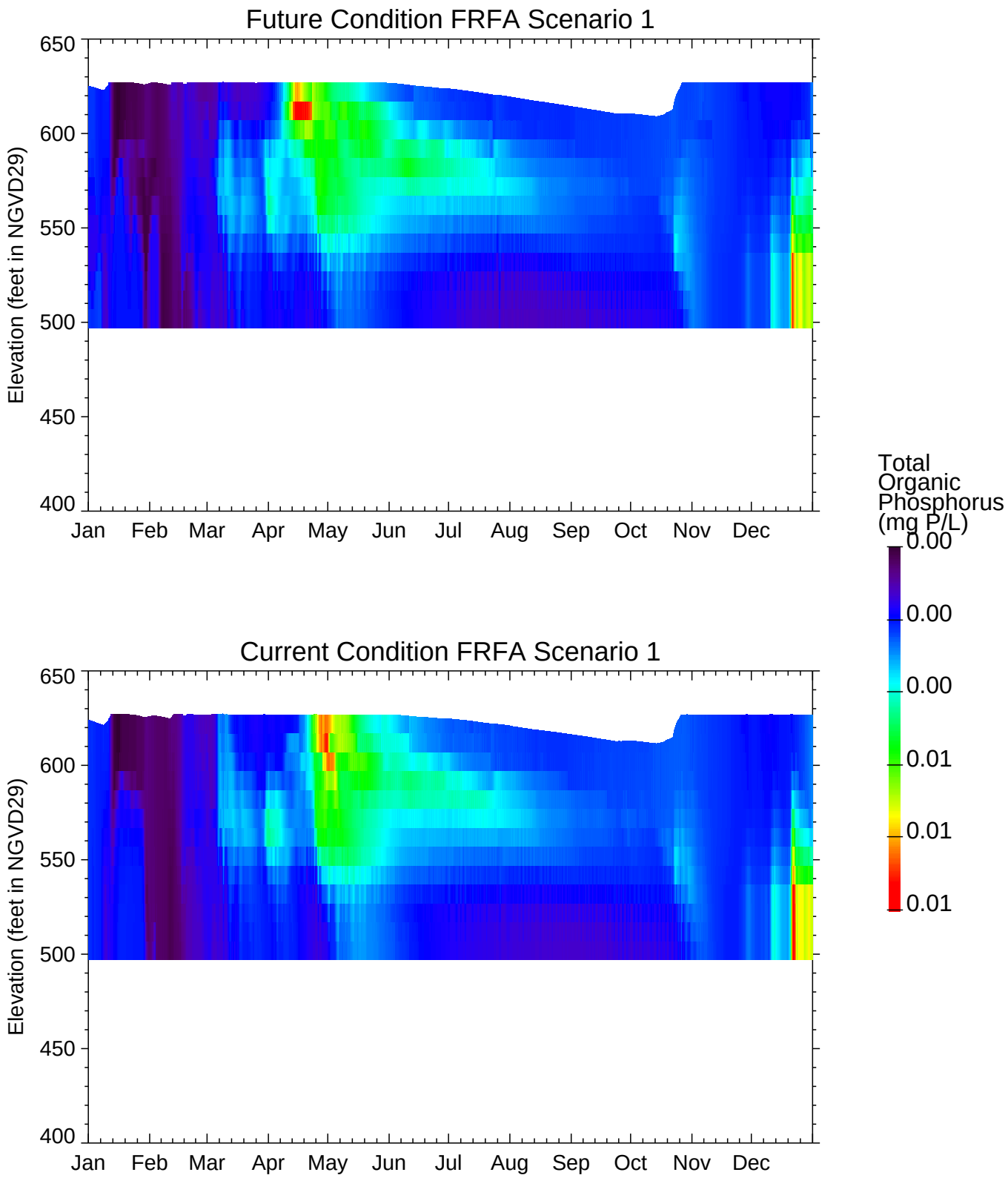

Figure C2−3

Depth Profiles of Model−predicted Total Organic Phosphorus in Segment 6 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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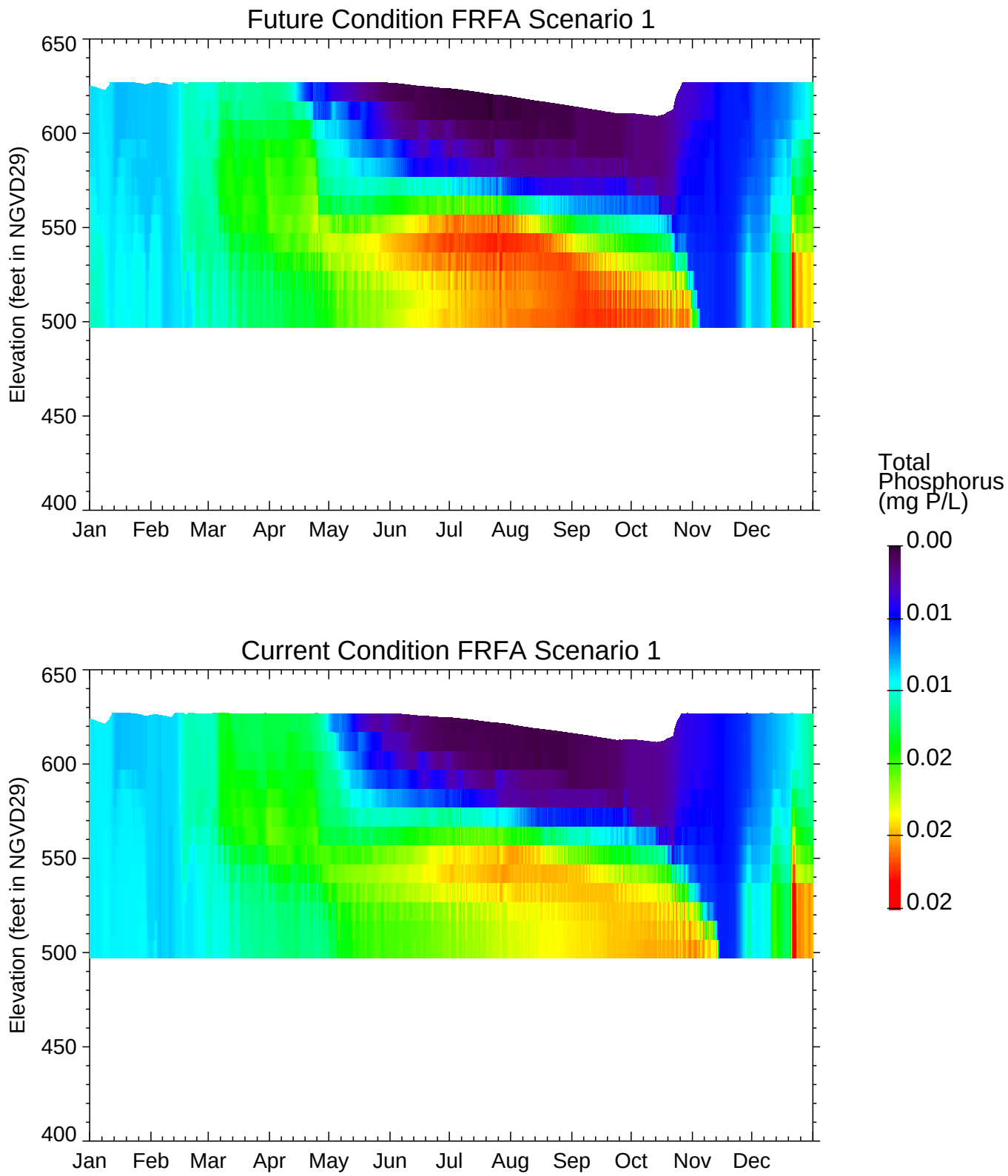

Figure C2−4

Depth Profiles of Model−predicted Total Phosphorus in Segment 6 for
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Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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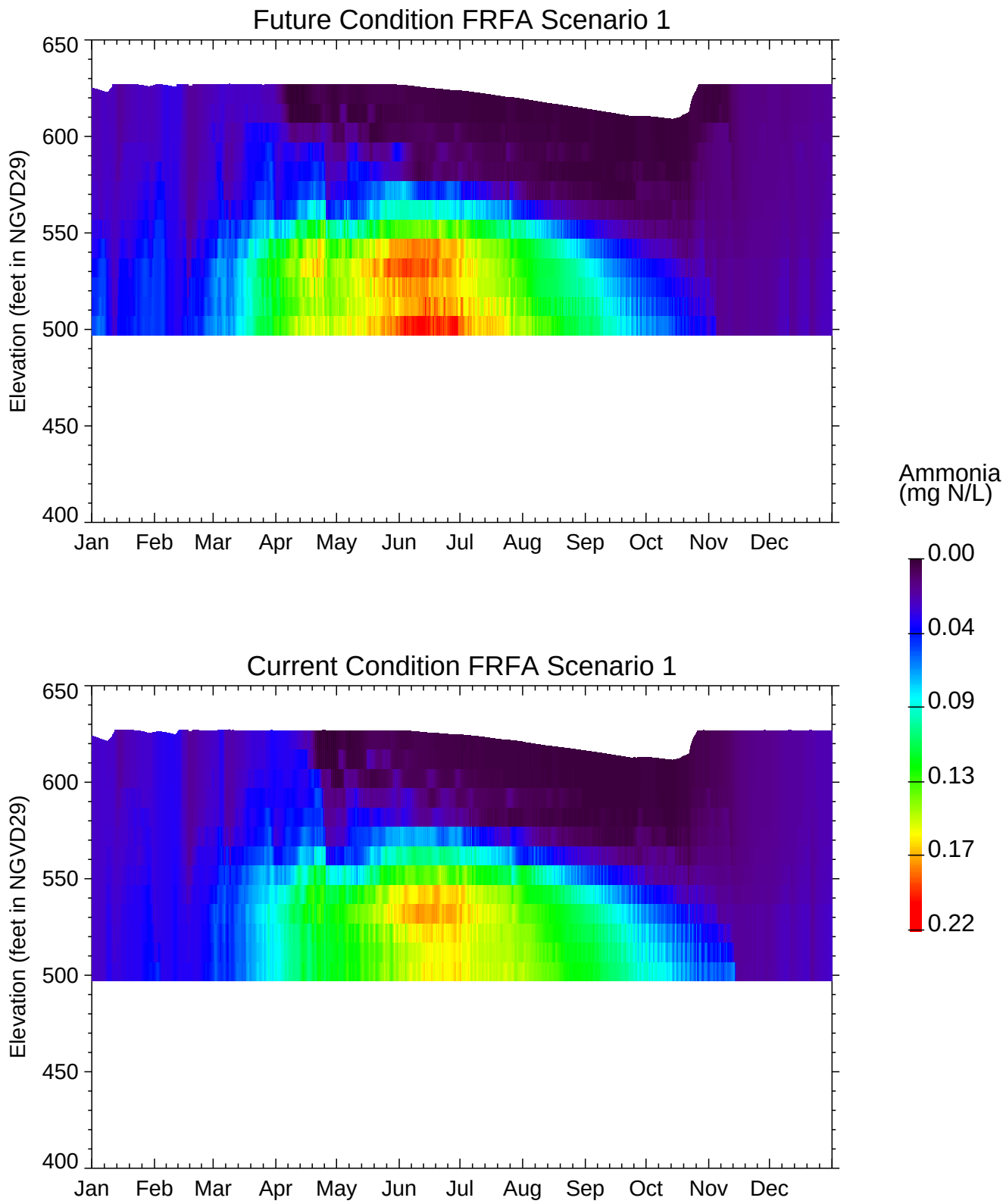

Figure C2−5

Depth Profiles of Model−predicted Ammonia in Segment 6 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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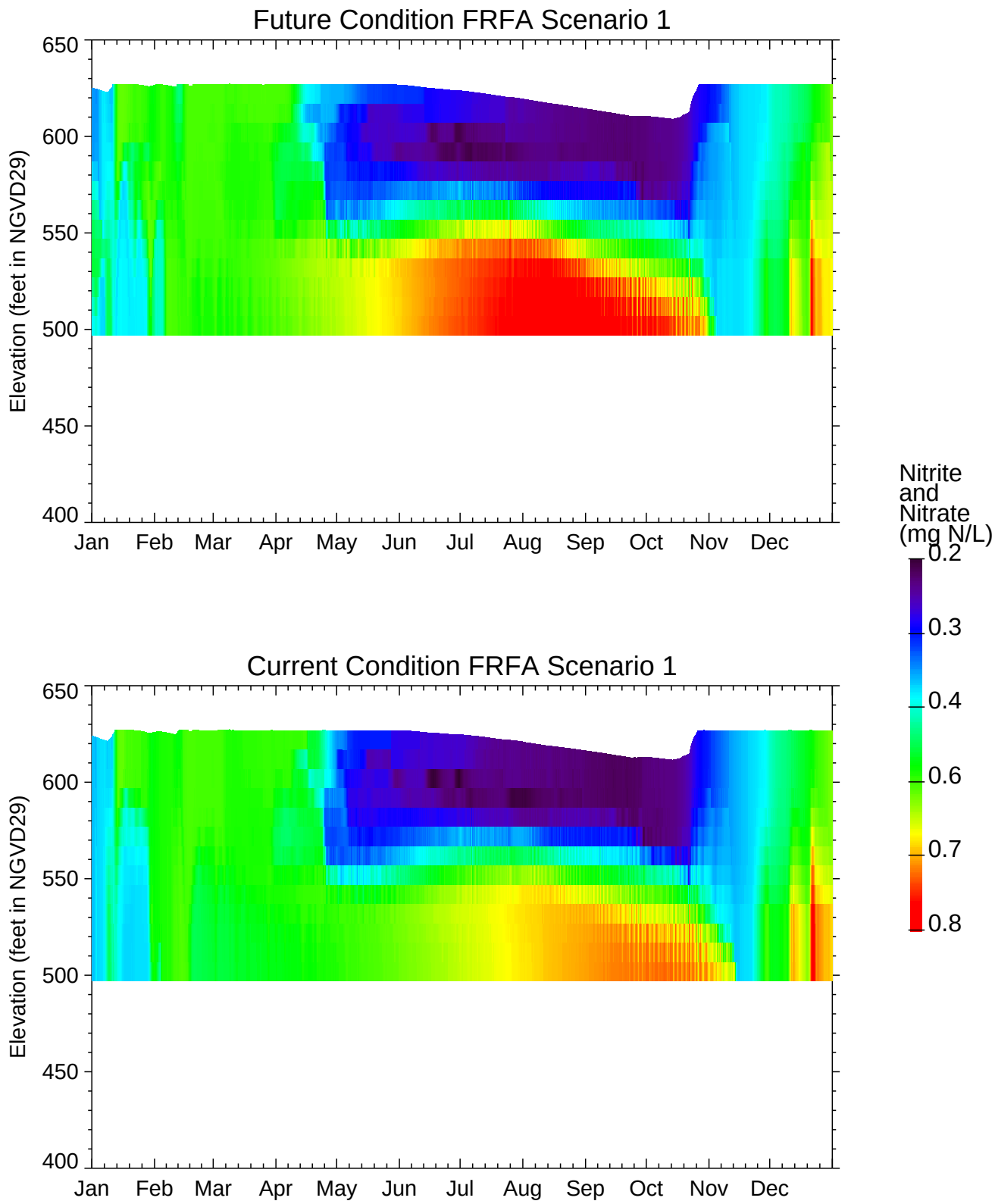

Figure C2−6

Depth Profiles of Model−predicted Nitrite and Nitrate in Segment 6 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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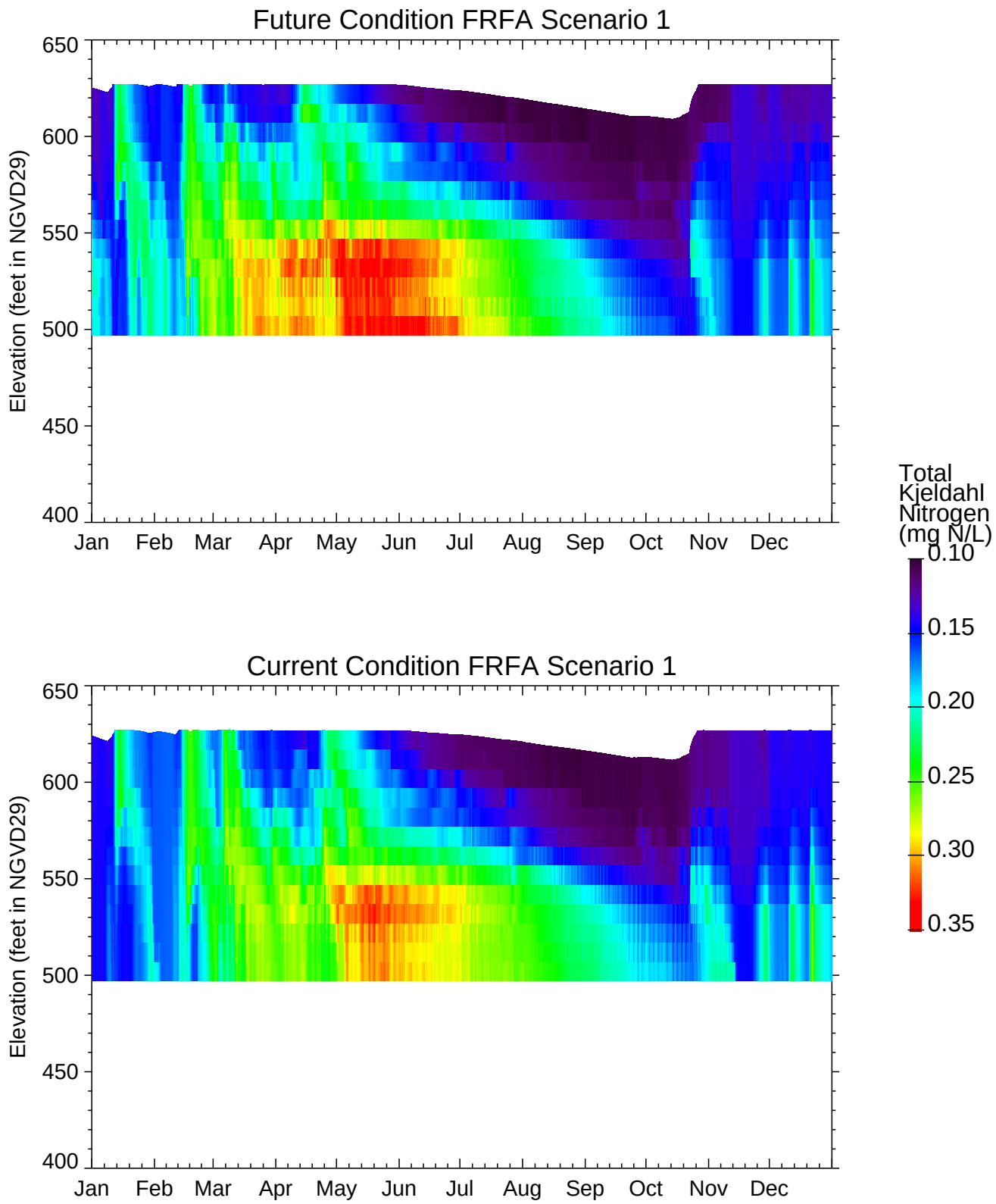

Figure C2−7

Depth Profiles of Model−predicted Total Kjeldahl Nitrogen in Segment 6 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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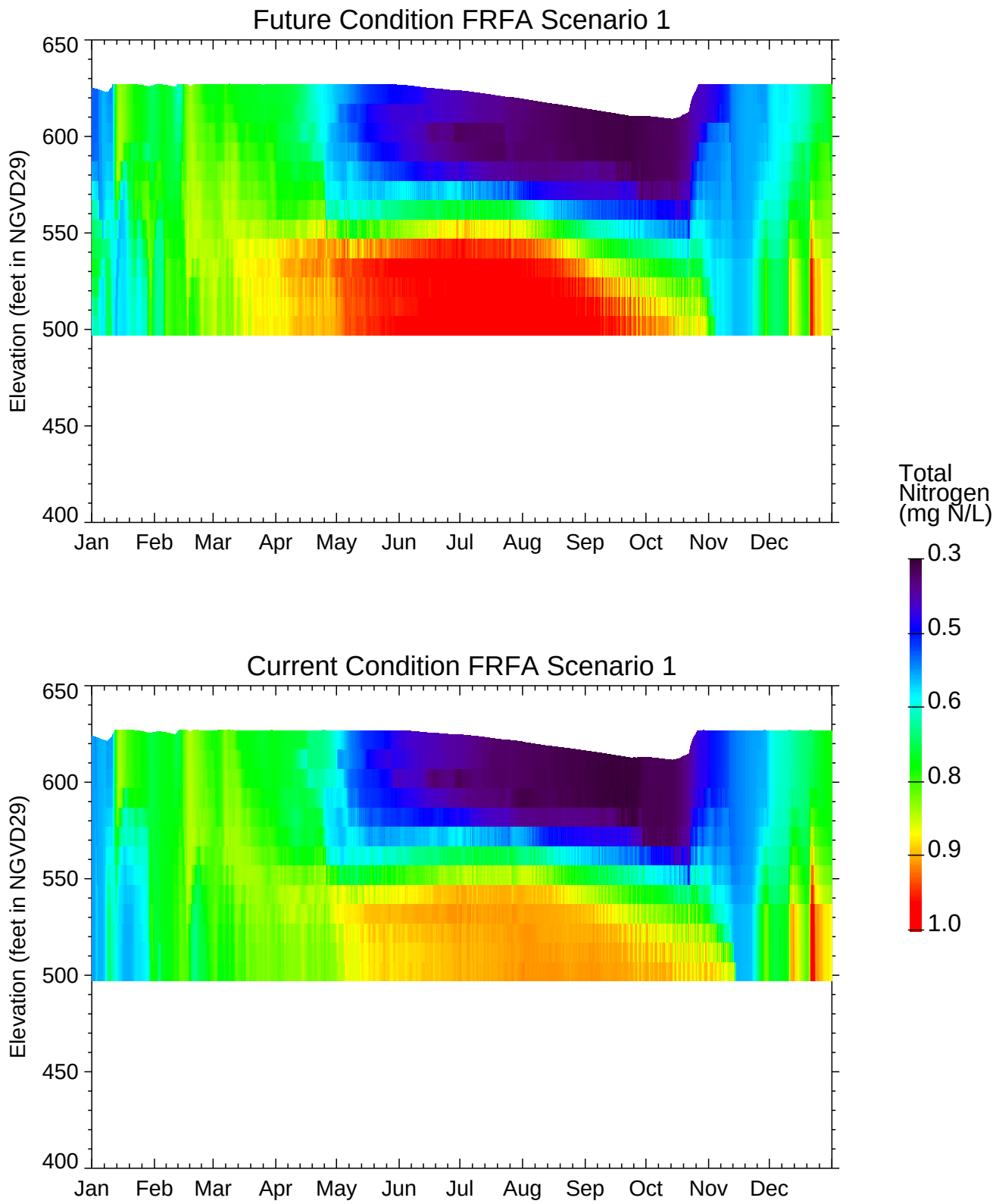

Figure C2−8

Depth Profiles of Model−predicted Total Nitrogen in Segment 6 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

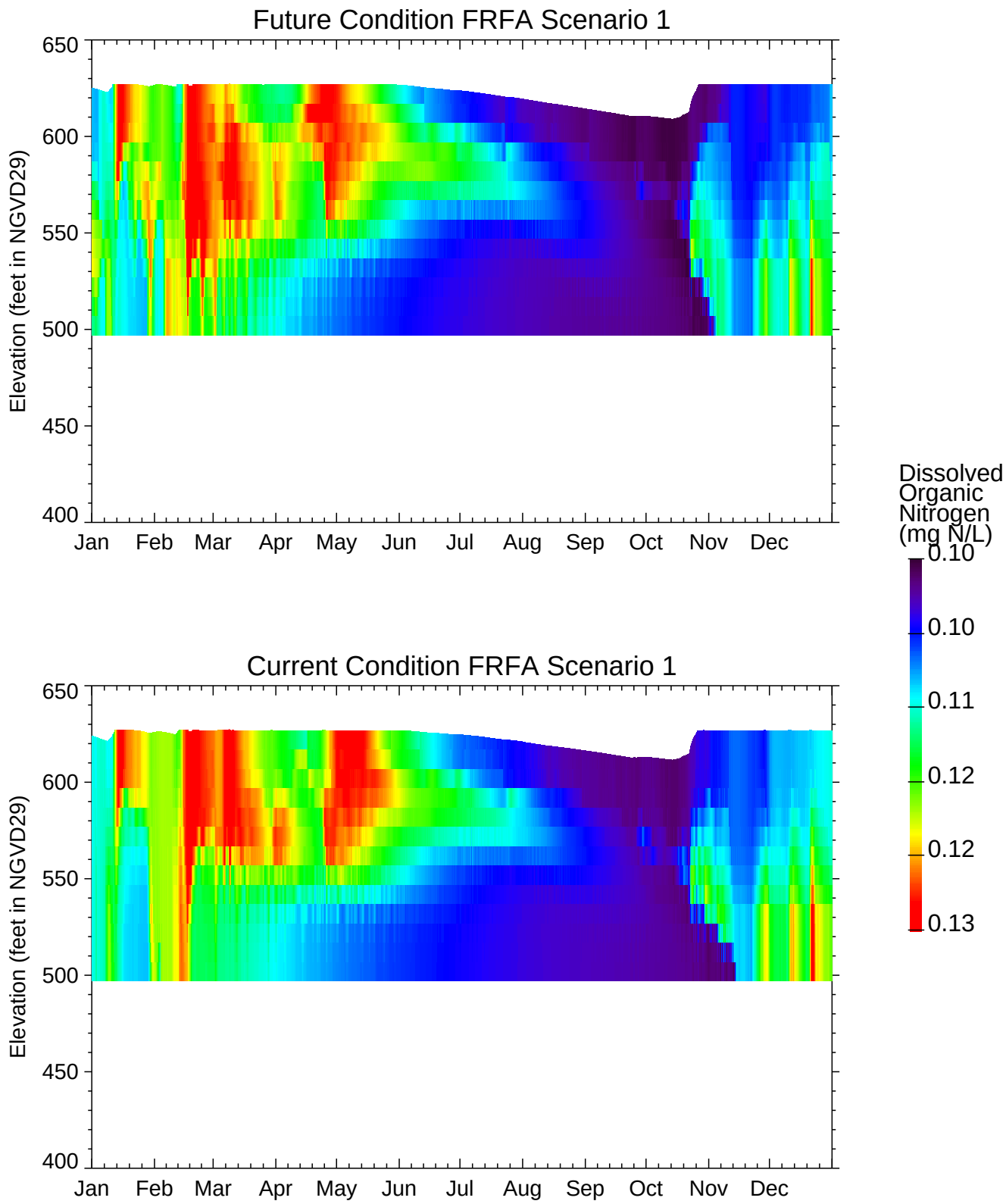

Figure C2−9

Depth Profiles of Model−predicted Dissolved Organic Nitrogen in Segment 6 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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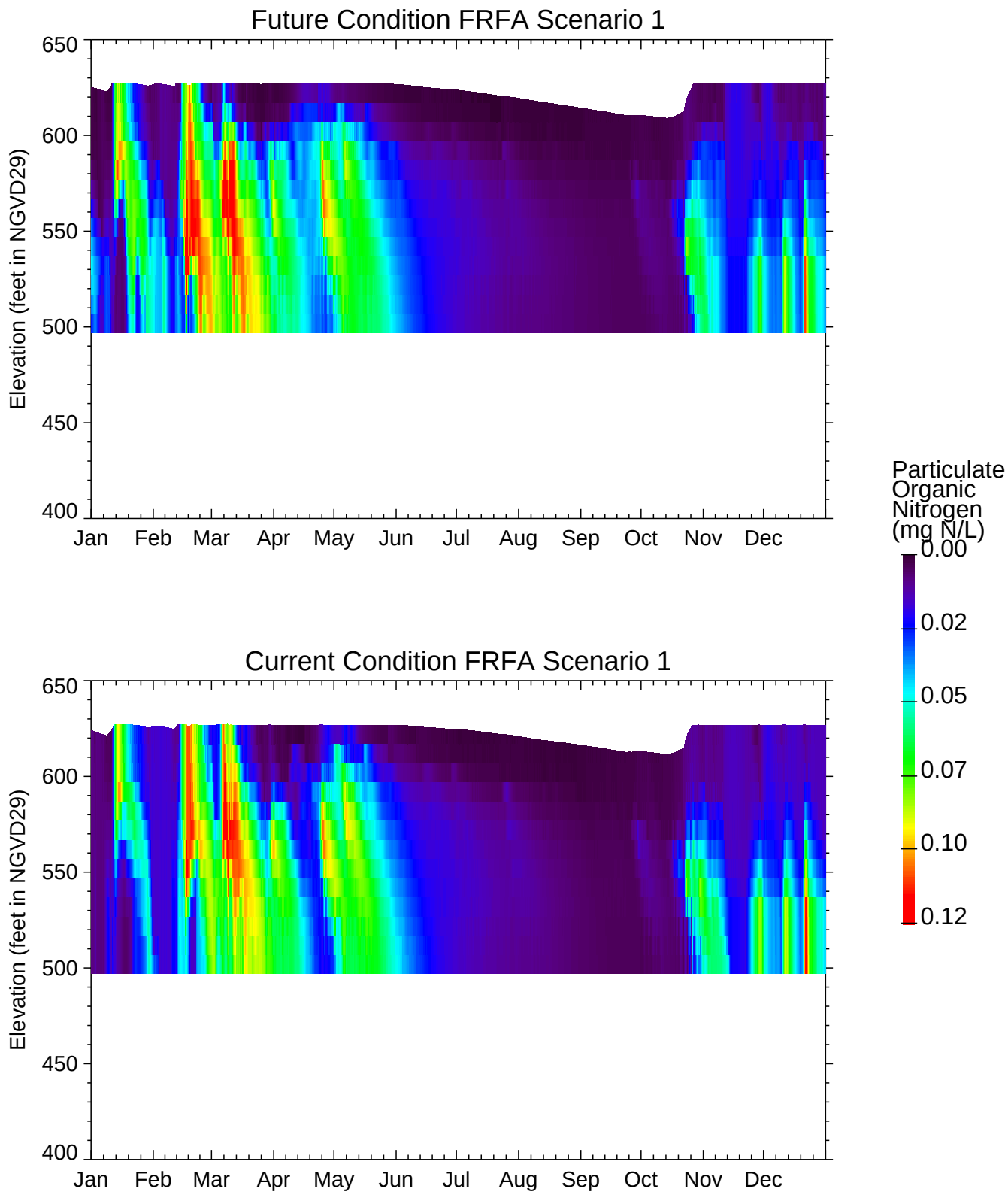

Figure C2−10

Depth Profiles of Model−predicted Particulate Organic Nitrogen in Segment 6 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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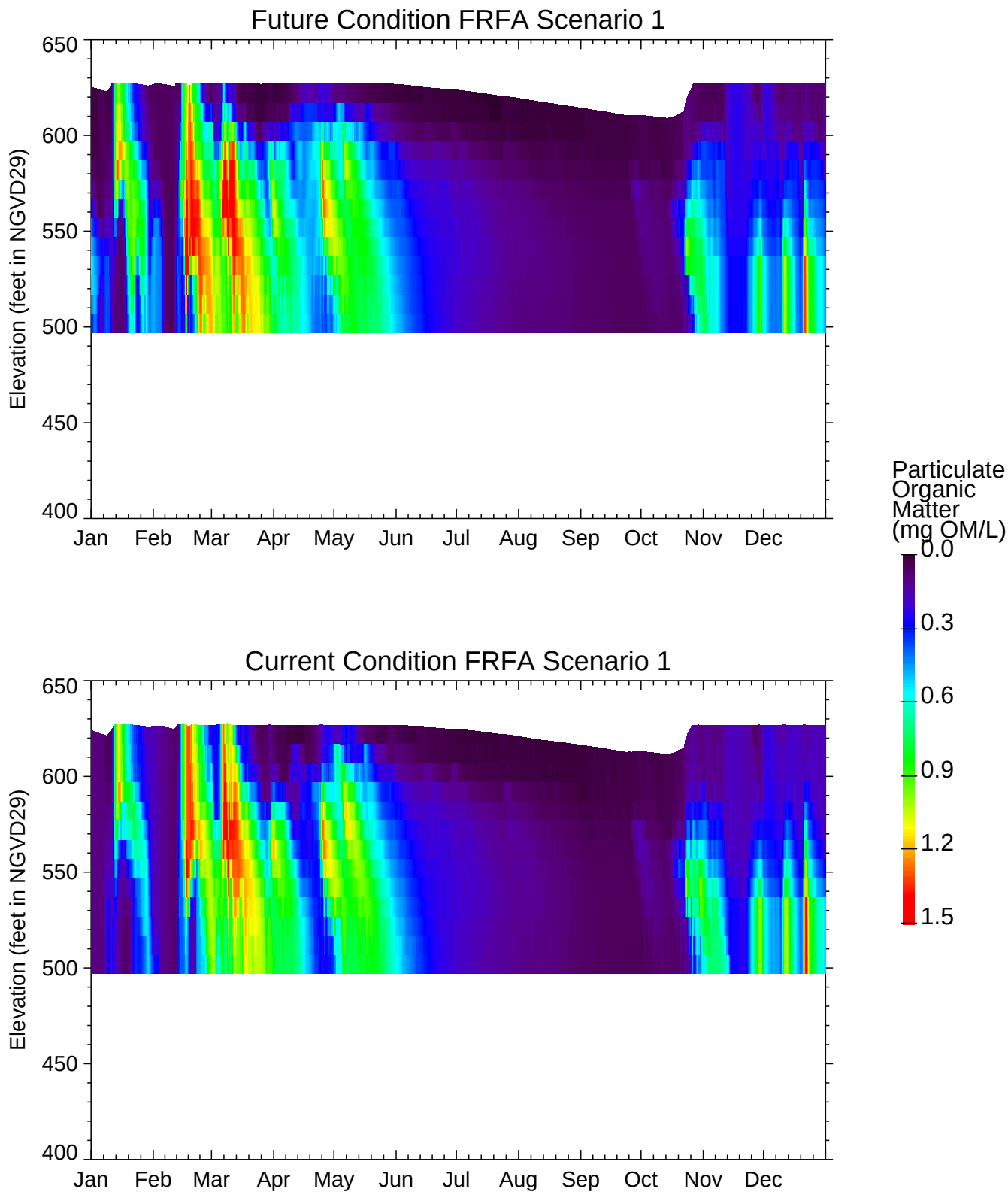

Figure C2−11

Depth Profiles of Model−predicted Particulate Organic Matter in Segment 6 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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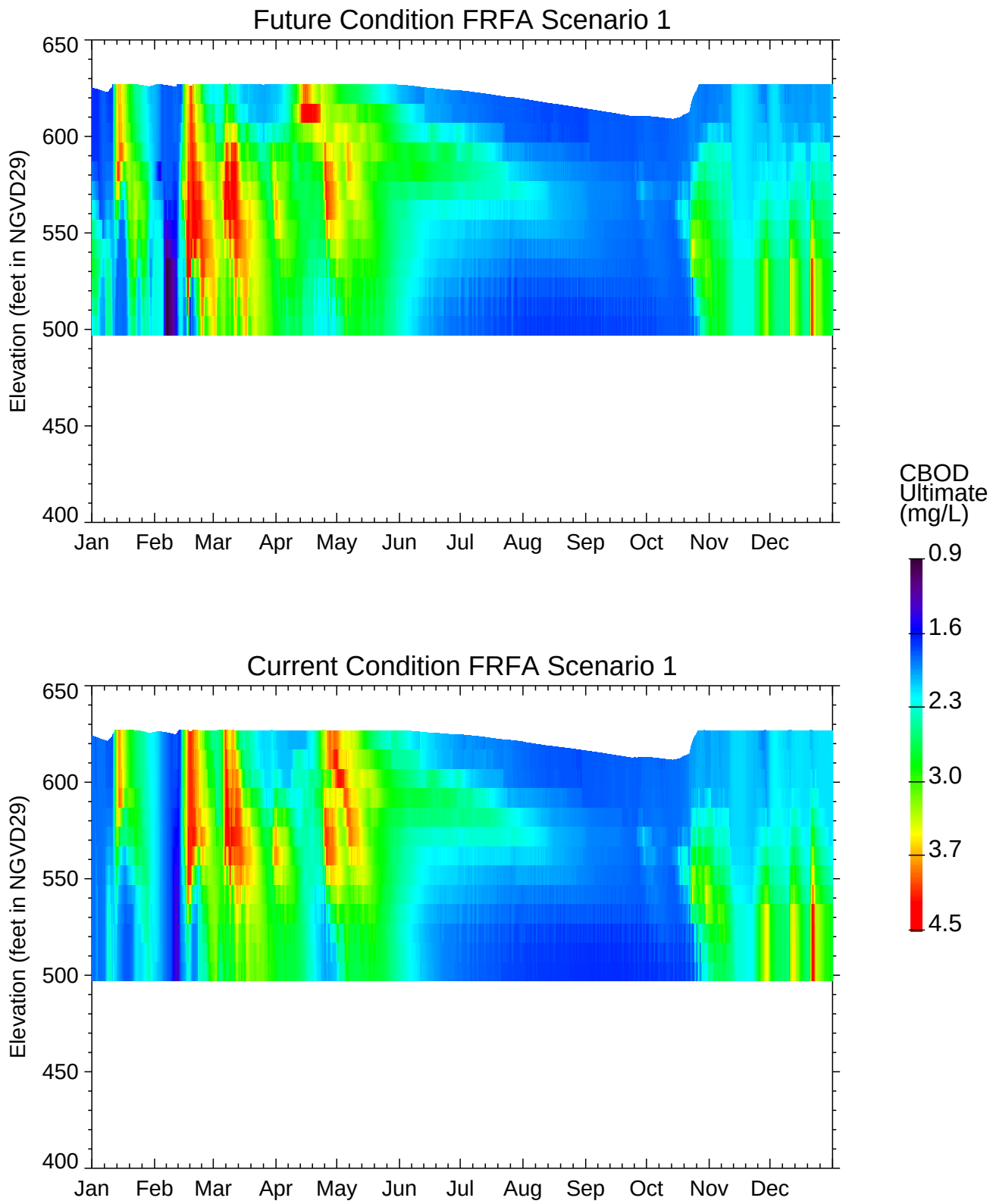

Figure C2−12

Depth Profiles of Model−predicted CBOD Ultimate in Segment 6 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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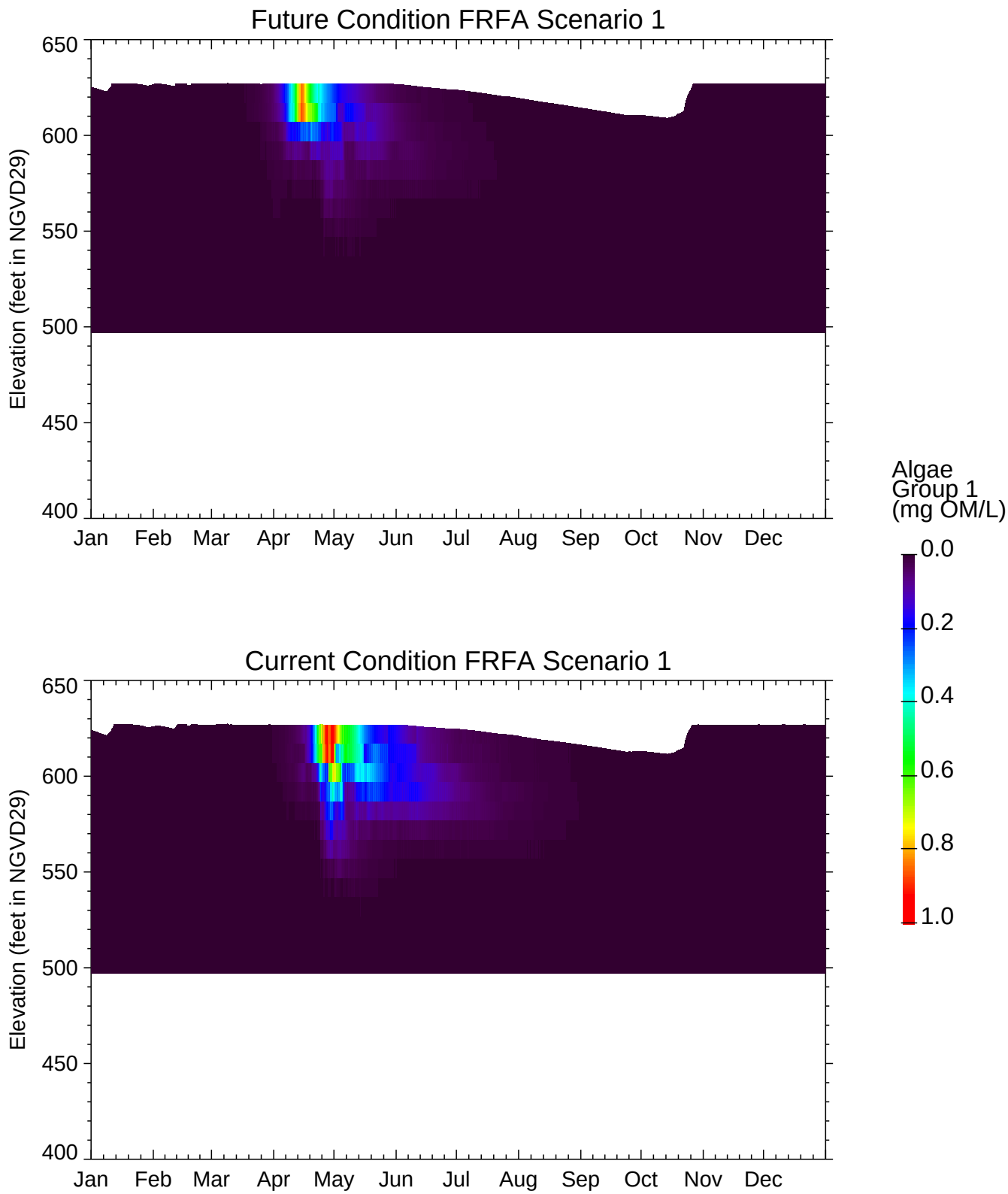

Figure C2−13

Depth Profiles of Model−predicted Algae Group 1 in Segment 6 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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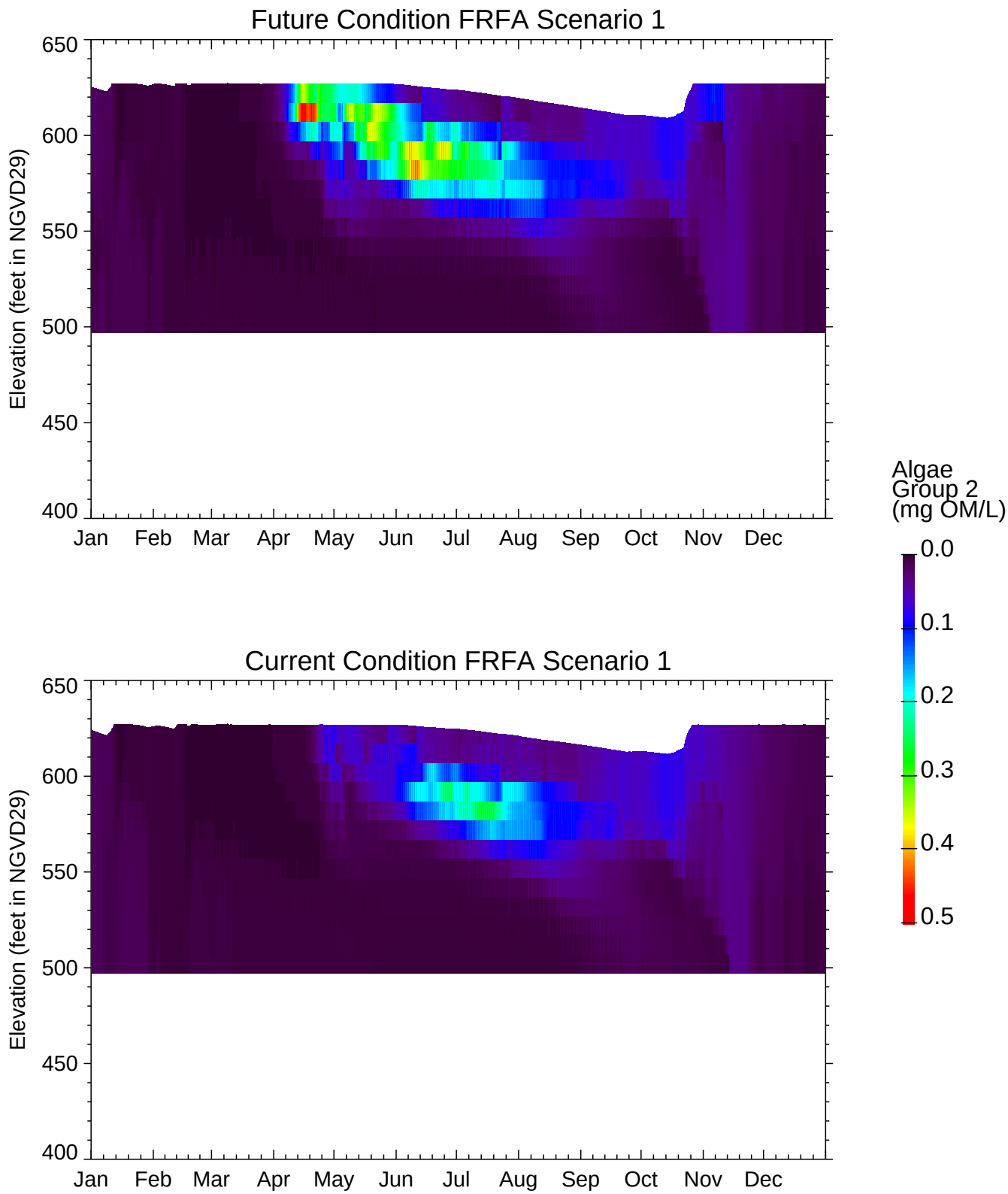

Figure C2−14

Depth Profiles of Model−predicted Algae Group 2 in Segment 6 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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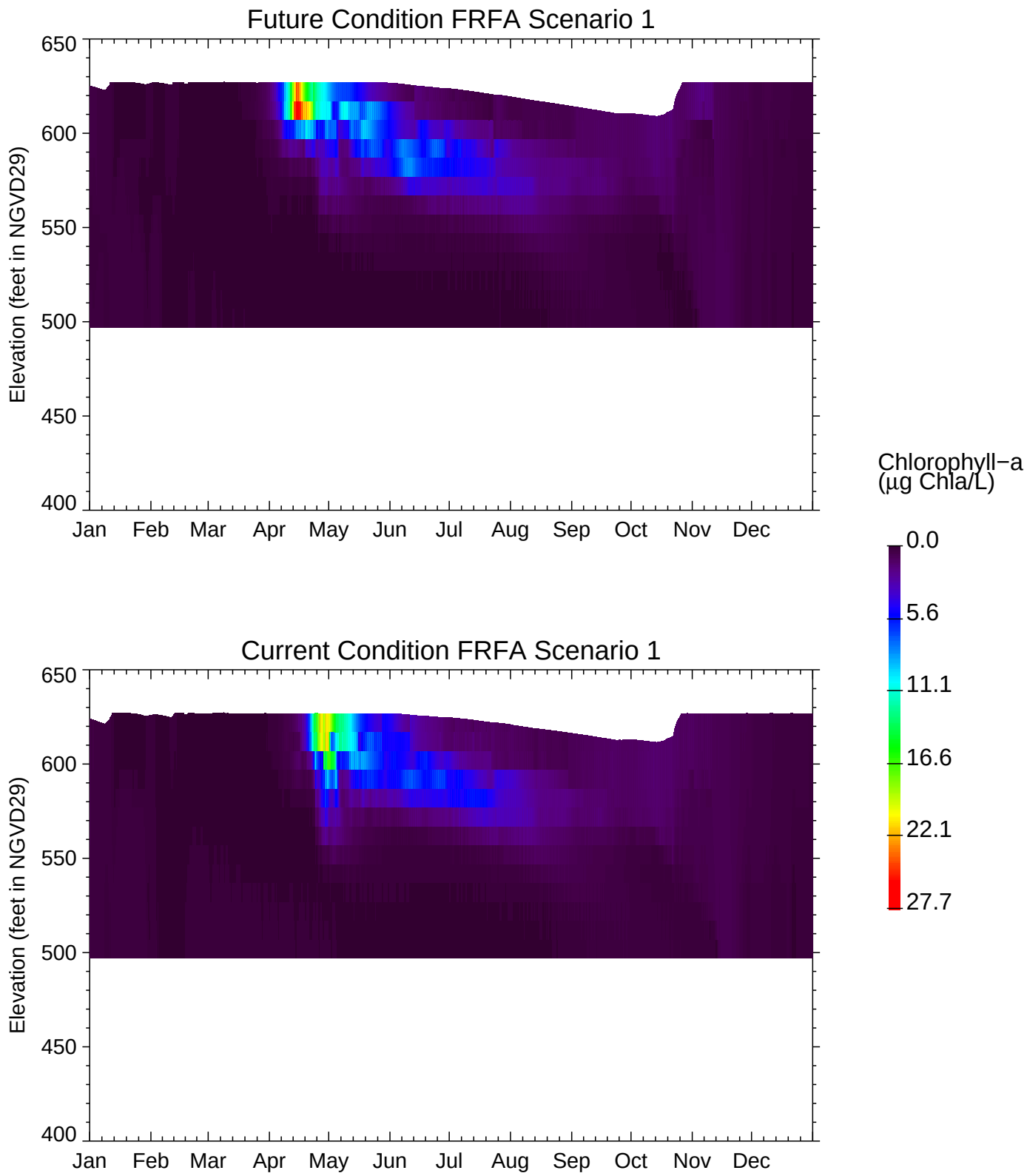

Figure C2−15

Depth Profiles of Model−predicted Chlorophyll−a in Segment 6 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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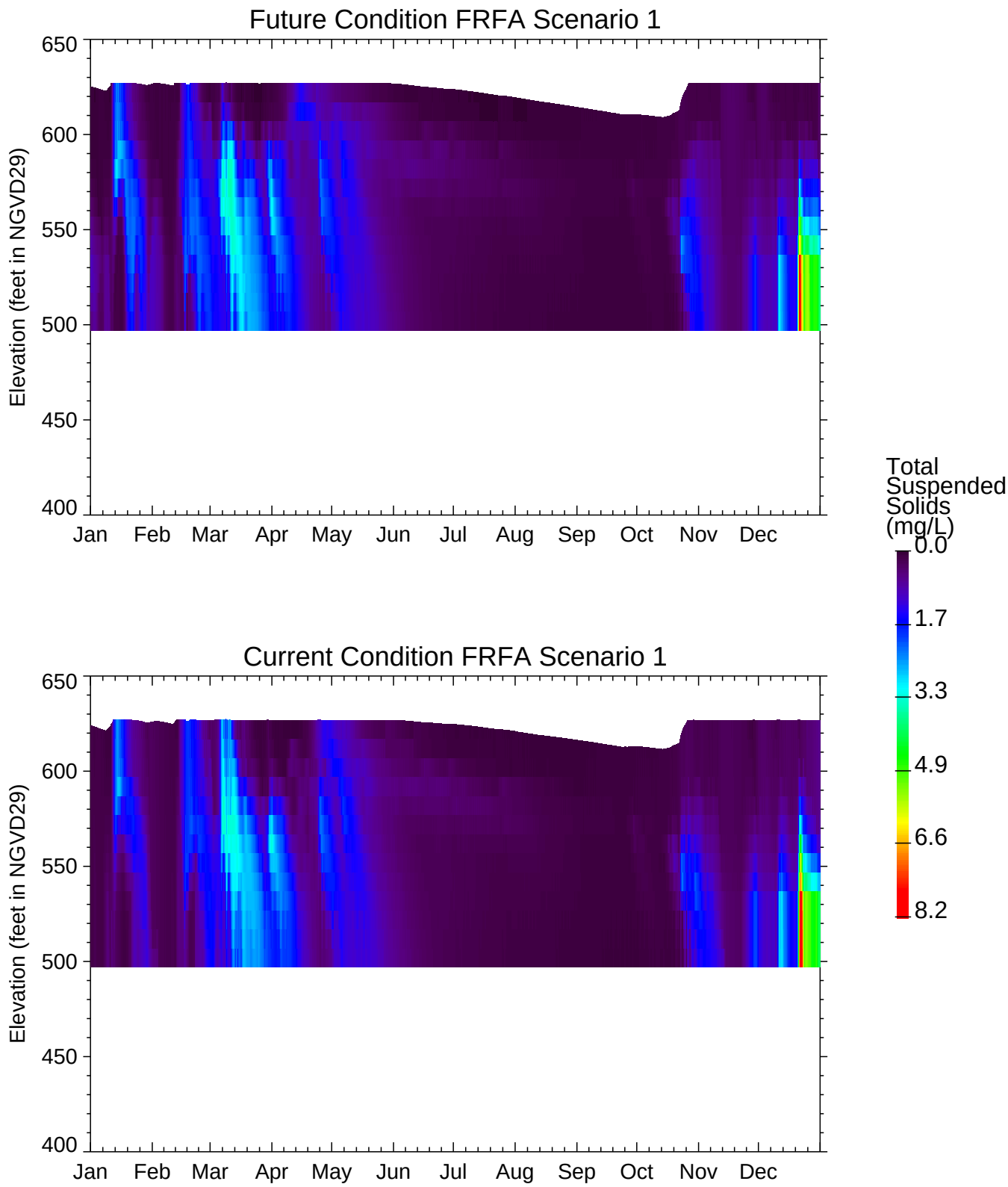

Figure C2−16

Depth Profiles of Model−predicted Total Suspended Solids in Segment 6 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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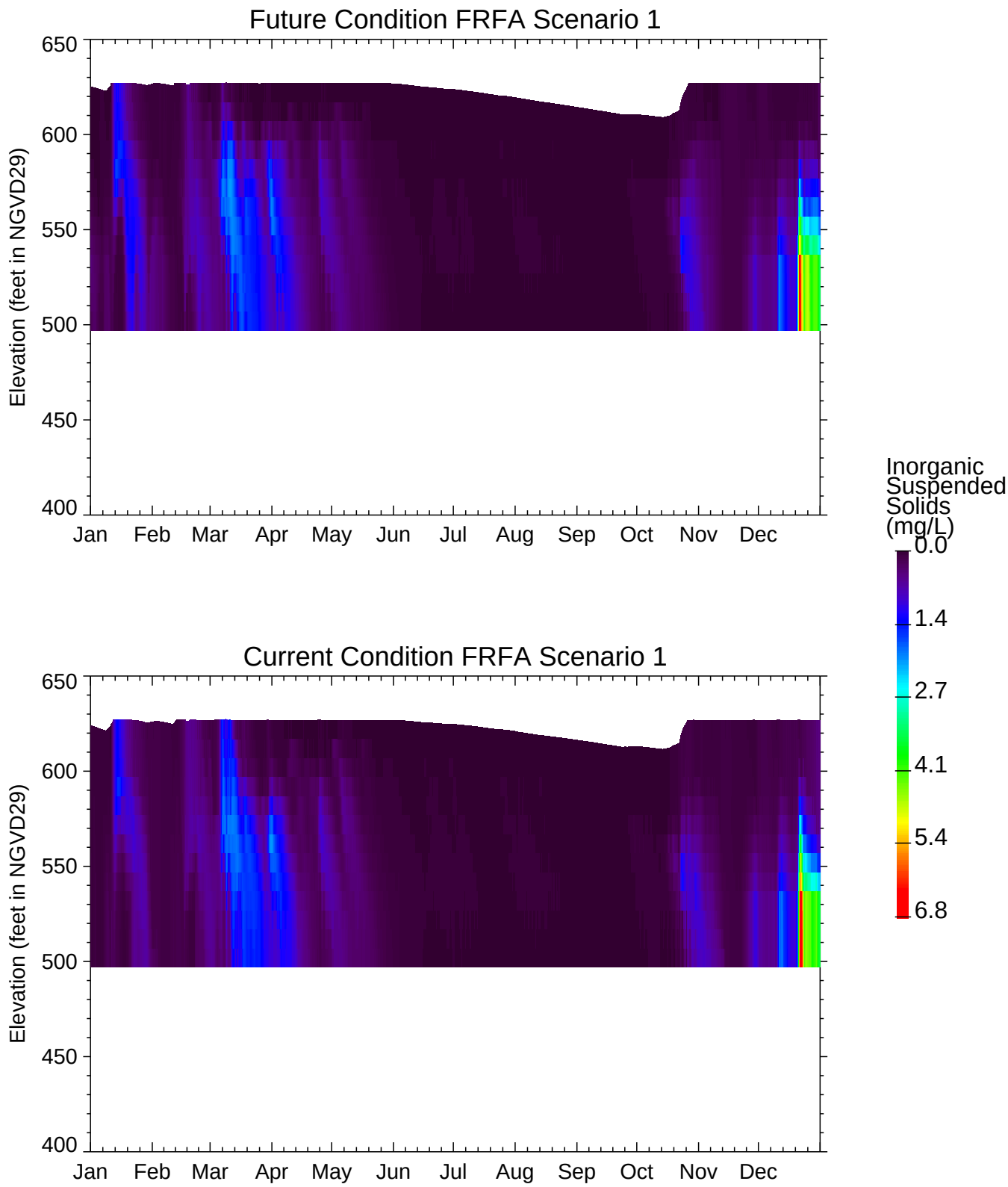

Figure C2−17

Depth Profiles of Model−predicted Inorganic Suspended Solids in Segment 6 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

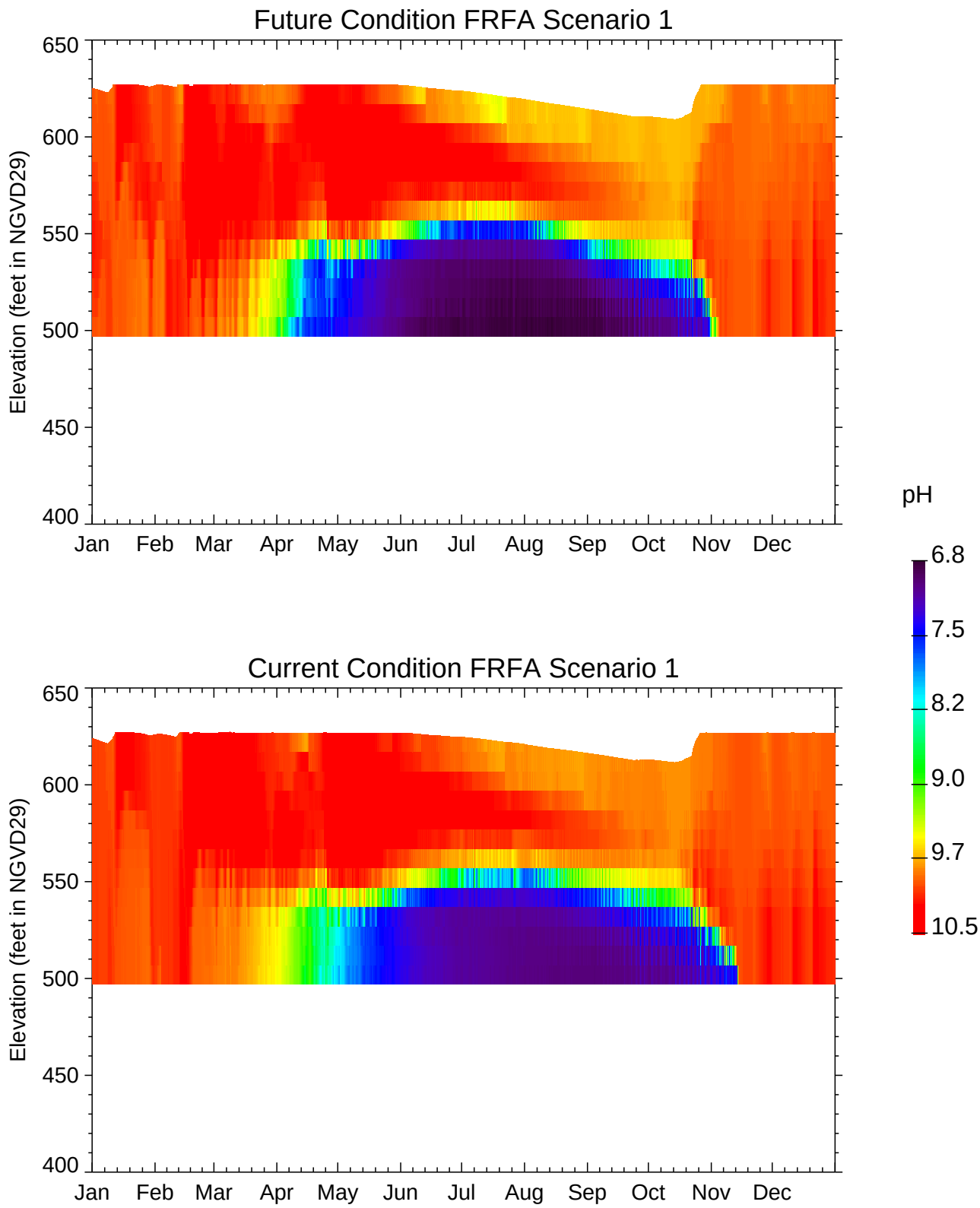

Figure C2−18

Depth Profiles of Model−predicted pH in Segment 6 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

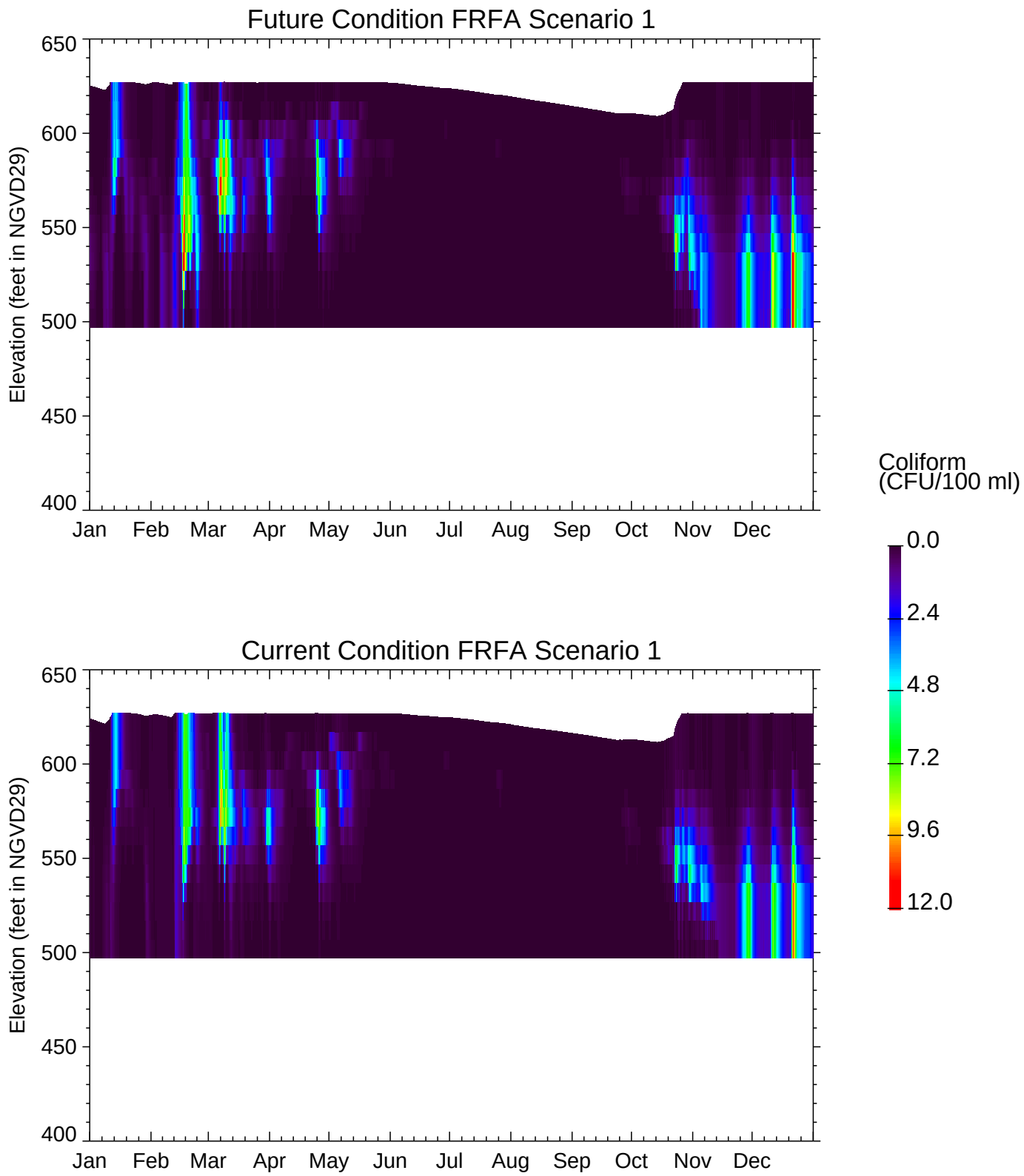

Figure C2−19

Depth Profiles of Model−predicted Coliform in Segment 6 for
FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

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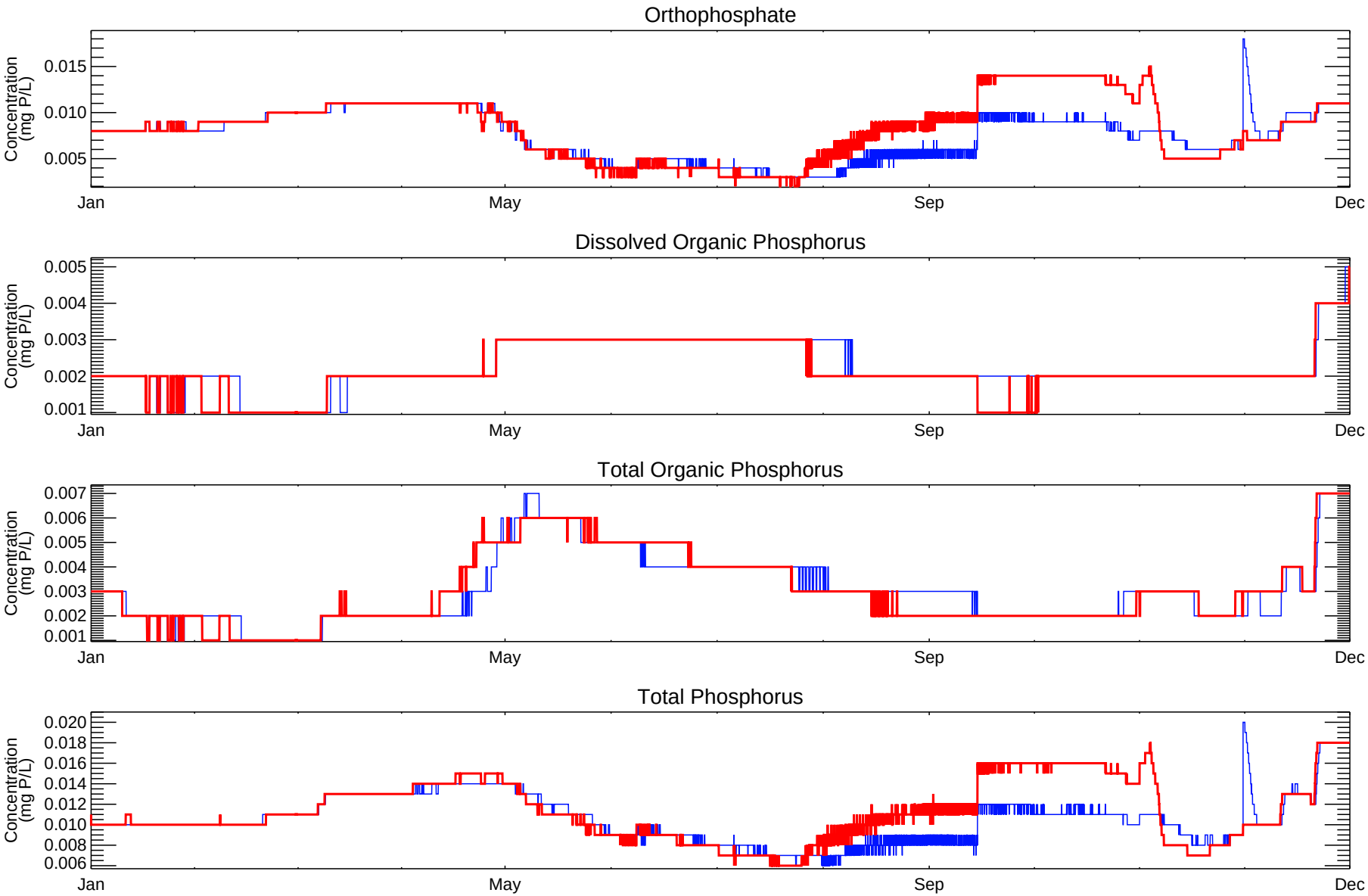


Figure C3−1

Outflow Concentrations for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

Model outputs are hourly

ANCHOR QEA

Current Condition
Future Condition

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\CEQUAL_most_post__plot_temporals_WQ_cwo.pro Fri Oct 07 13:16:31 2016

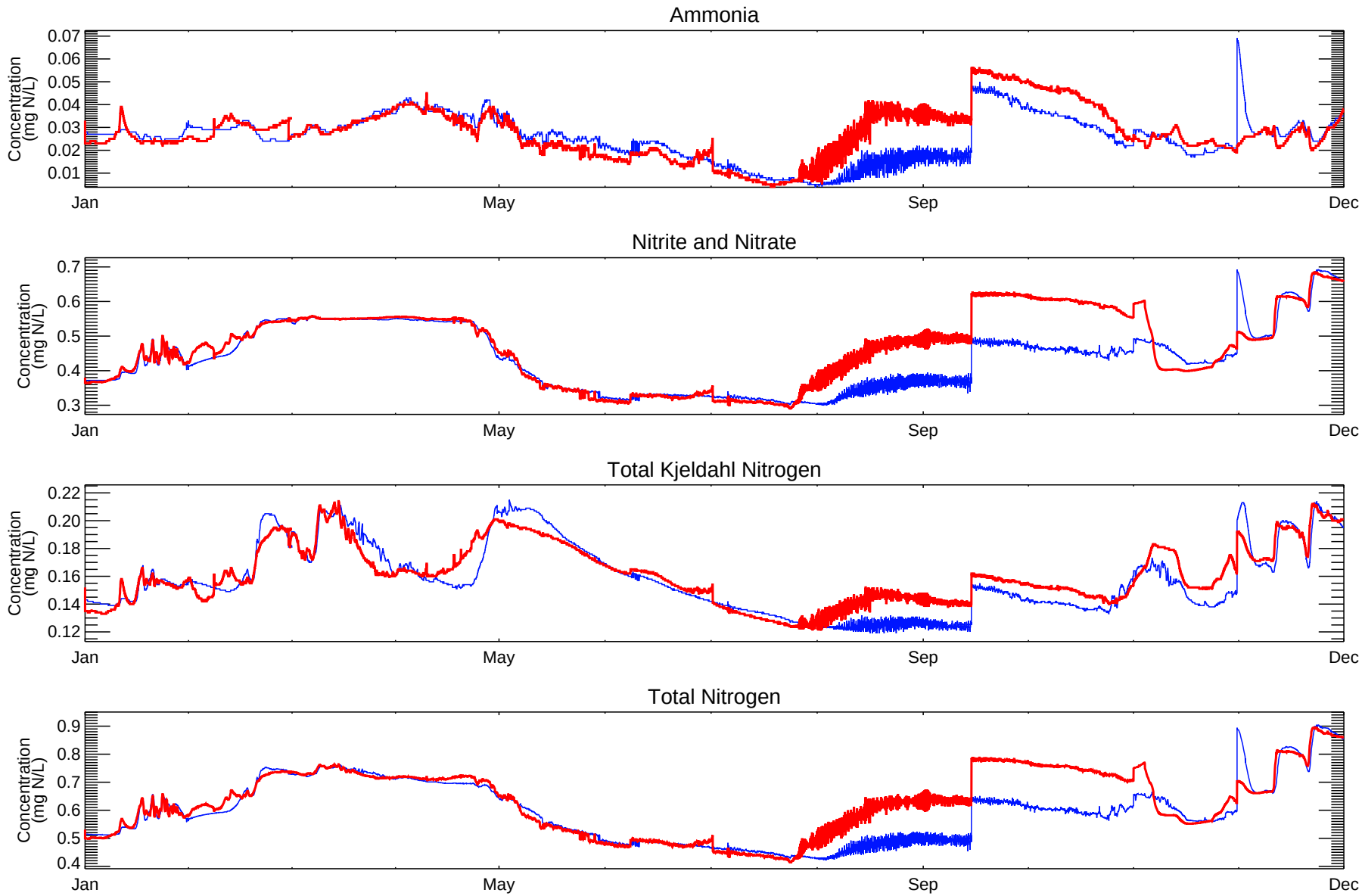


Figure C3−2

Outflow Concentrations for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

Model outputs are hourly

ANCHOR QEA

Current Condition
Future Condition

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\CEQUAL_most_post__plot_temporals_WQ_cwo.pro Fri Oct 07 13:16:32 2016

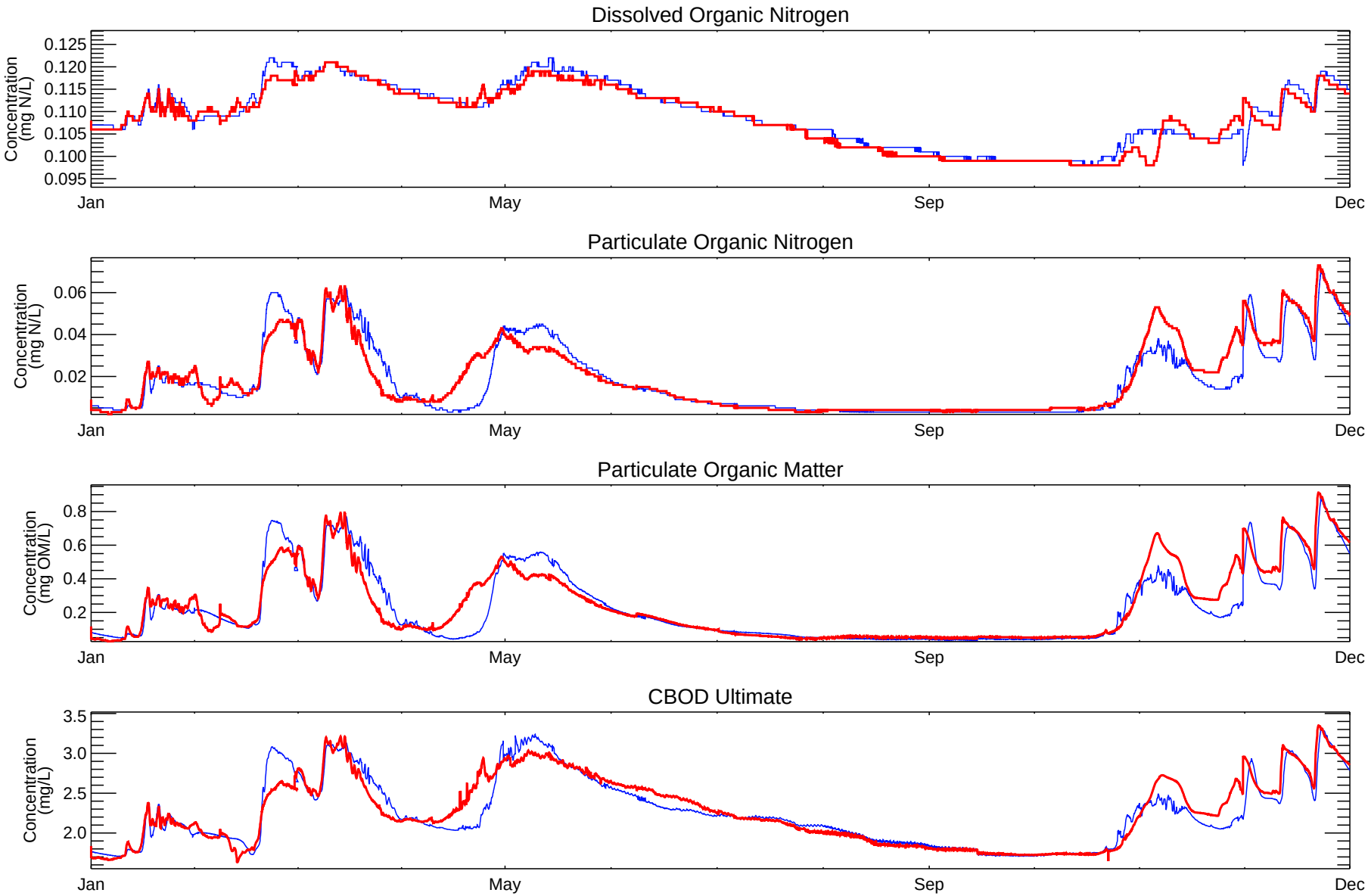


Figure C3–3

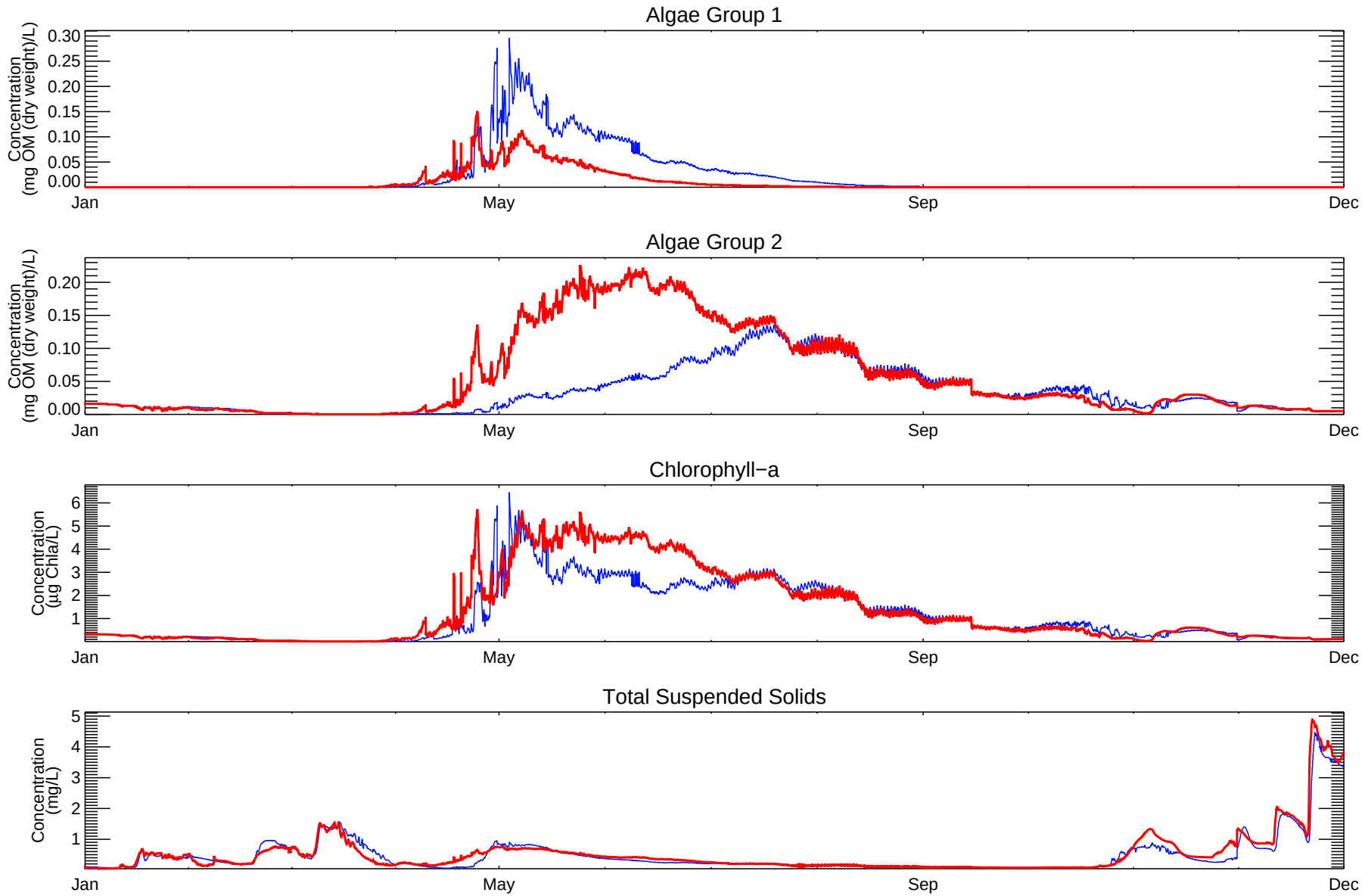
Outflow Concentrations for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

Model outputs are hourly

ANCHOR QEA

Current Condition
Future Condition

BG – F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\CEQUAL_most_post__plot_temporals_WQ_cwo.pro Fri Oct 07 13:16:32 2016



ANCHOR QEA

Current Condition
Future Condition

Figure C3−4

Outflow Concentrations for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

Model outputs are hourly

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\CEQUAL_most_post__plot_temporals_WQ_cwo.pro Fri Oct 07 13:16:33 2016

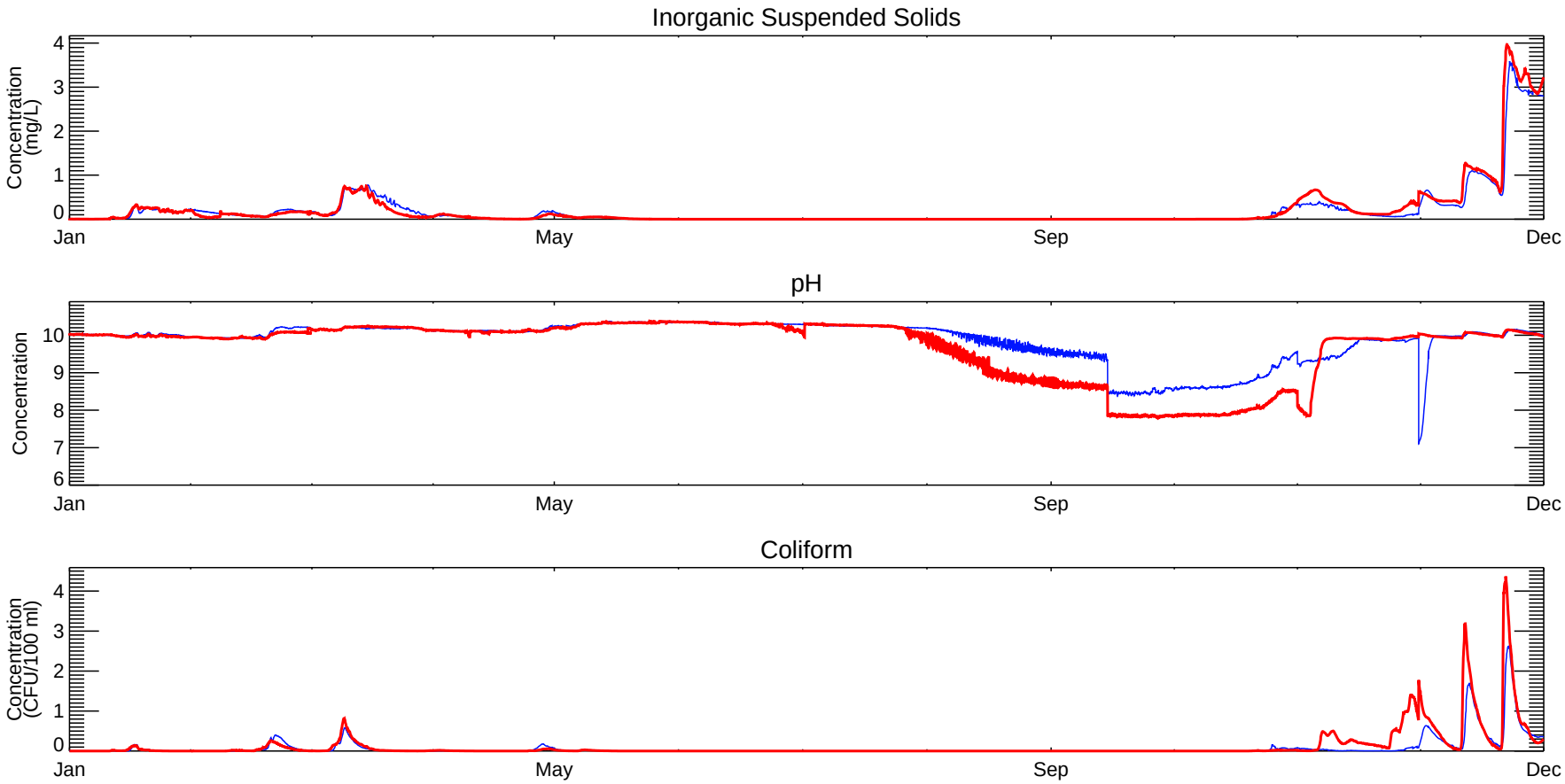


Figure C3−5

Outflow Concentrations for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

Model outputs are hourly

ANCHOR QEA

Current Condition
Future Condition

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\CEQUAL_most_post__plot_temporals_WQ_cwo.pro Fri Oct 07 13:16:34 2016

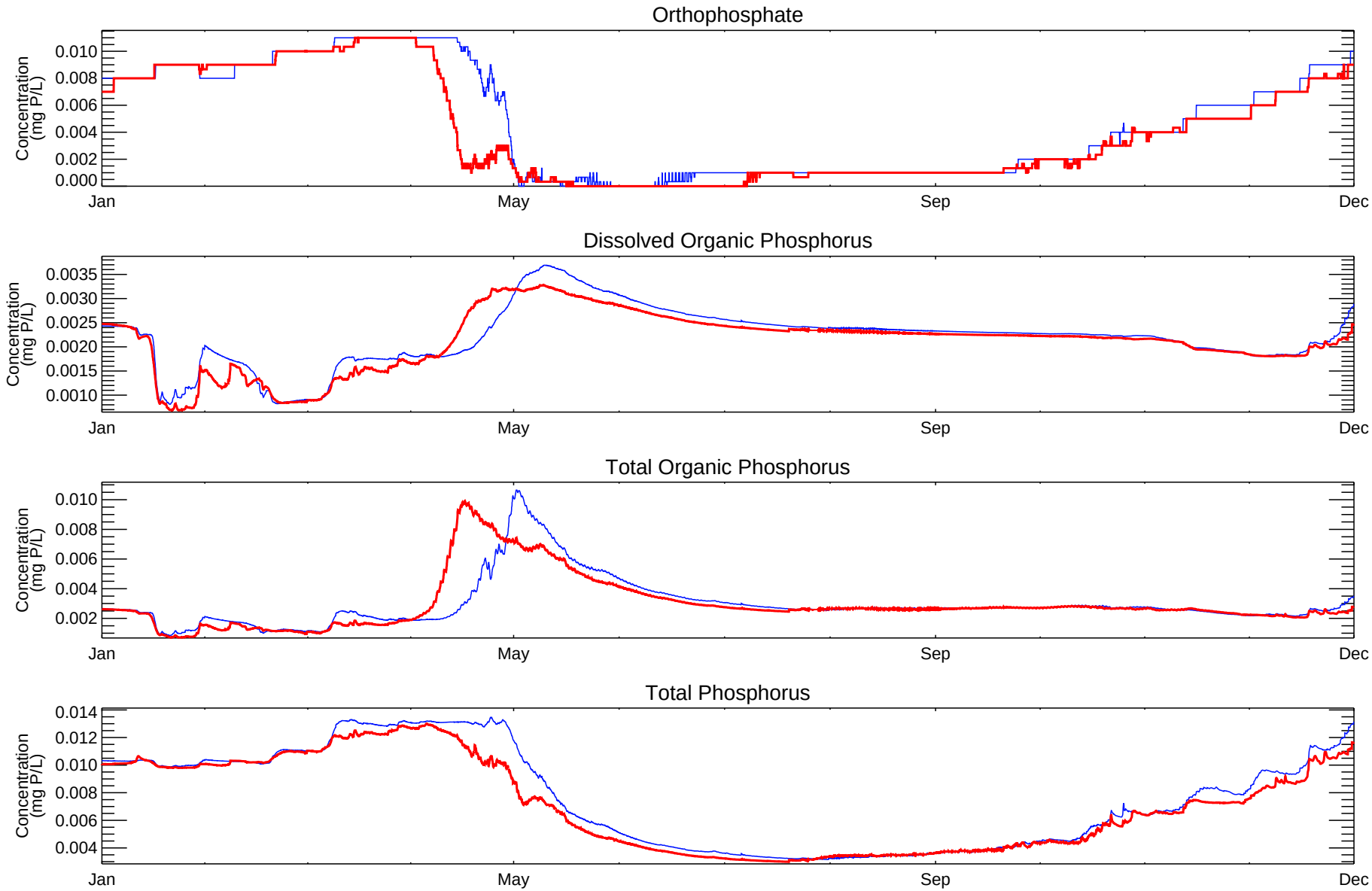


Figure C4−1

Concentrations in the Top 30 Feet of Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

Model outputs are hourly

ANCHOR QEA

Current Condition
Future Condition

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\CEQUAL_most_post__plot_temporals_WQ_cwo.pro Fri Oct 07 13:34:50 2016

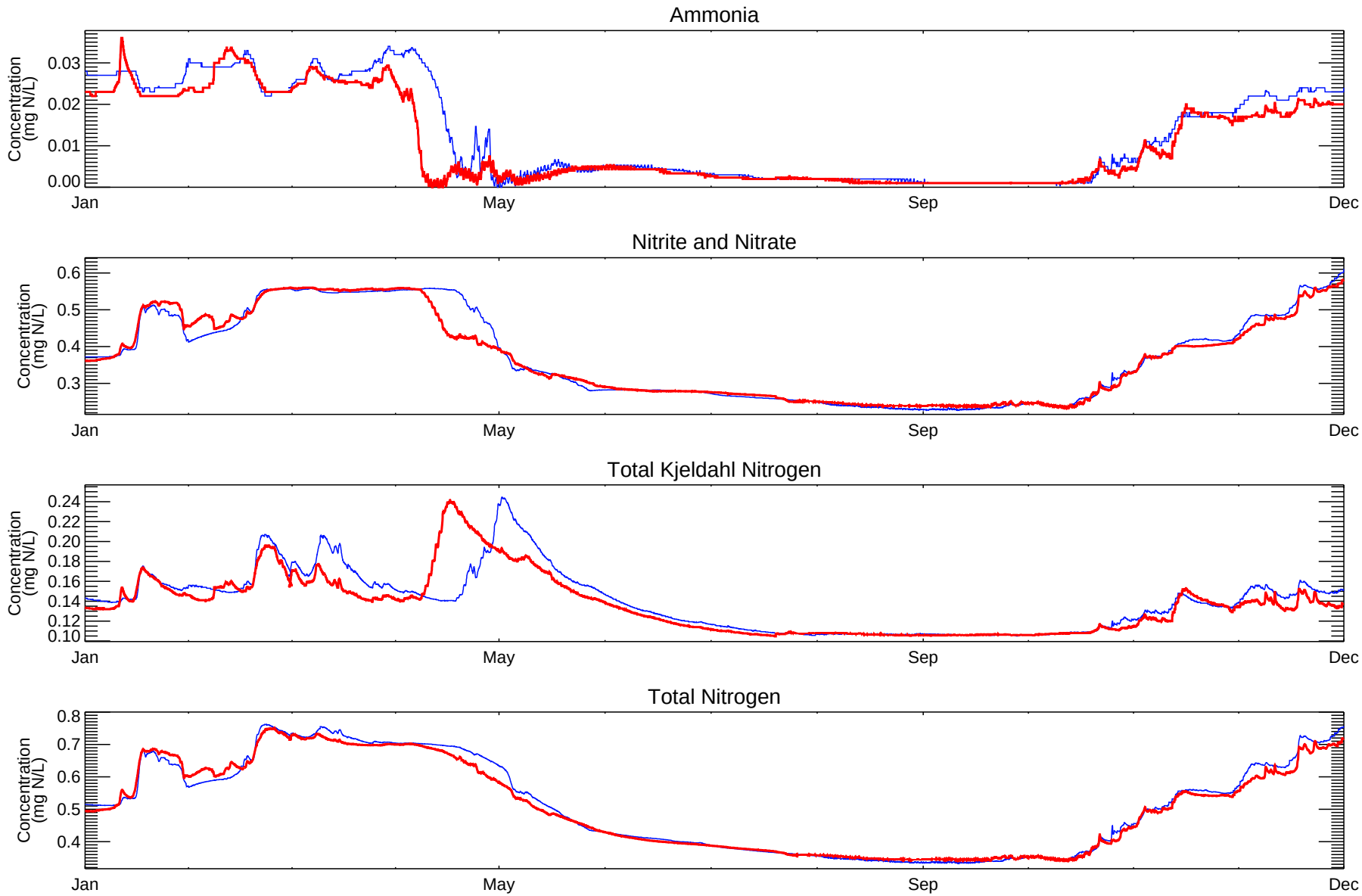


Figure C4−2

Concentrations in the Top 30 Feet of Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

Model outputs are hourly

ANCHOR QEA

Current Condition
Future Condition

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\CEQUAL_most_post__plot_temporals_WQ_cwo.pro Fri Oct 07 13:34:50 2016

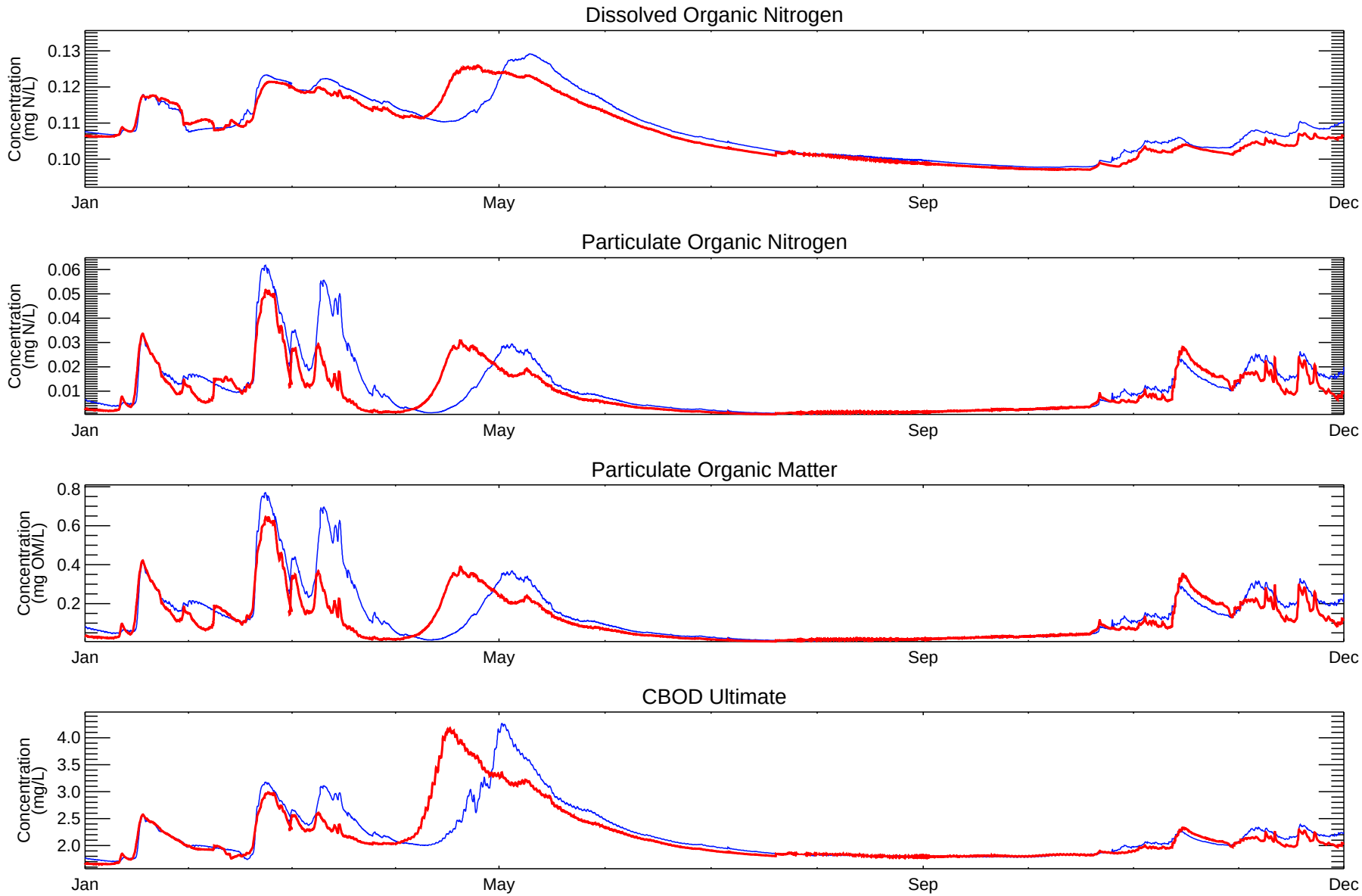


Figure C4−3

Concentrations in the Top 30 Feet of Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

Model outputs are hourly

ANCHOR QEA

Current Condition
Future Condition

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\CEQUAL_most_post__plot_temporals_WQ_cwo.pro Fri Oct 07 13:34:51 2016

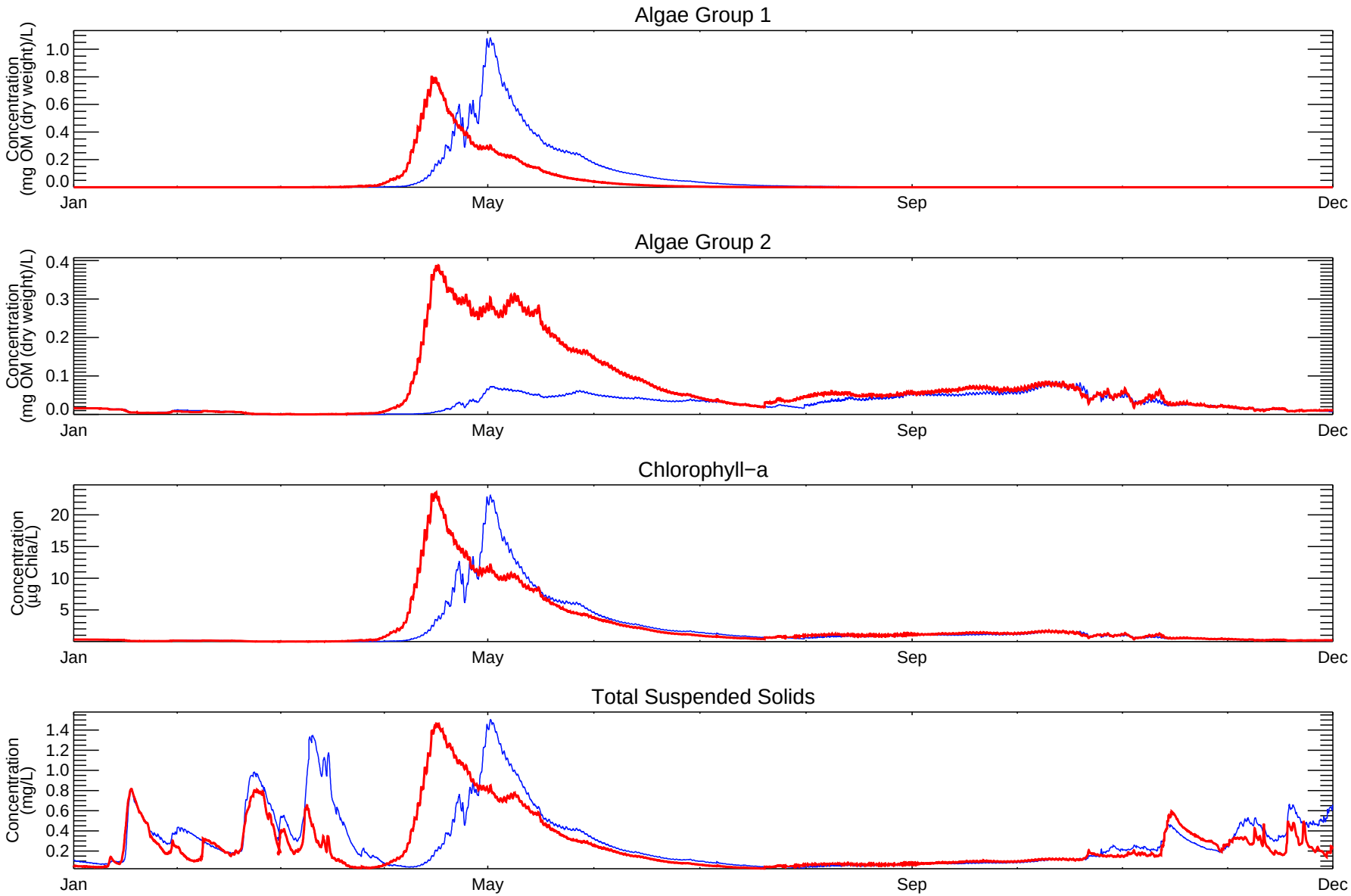


Figure C4−4

Concentrations in the Top 30 Feet of Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

Model outputs are hourly

ANCHOR QEA

Current Condition
Future Condition

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\CEQUAL_most_post__plot_temporals_WQ_cwo.pro Fri Oct 07 13:34:52 2016

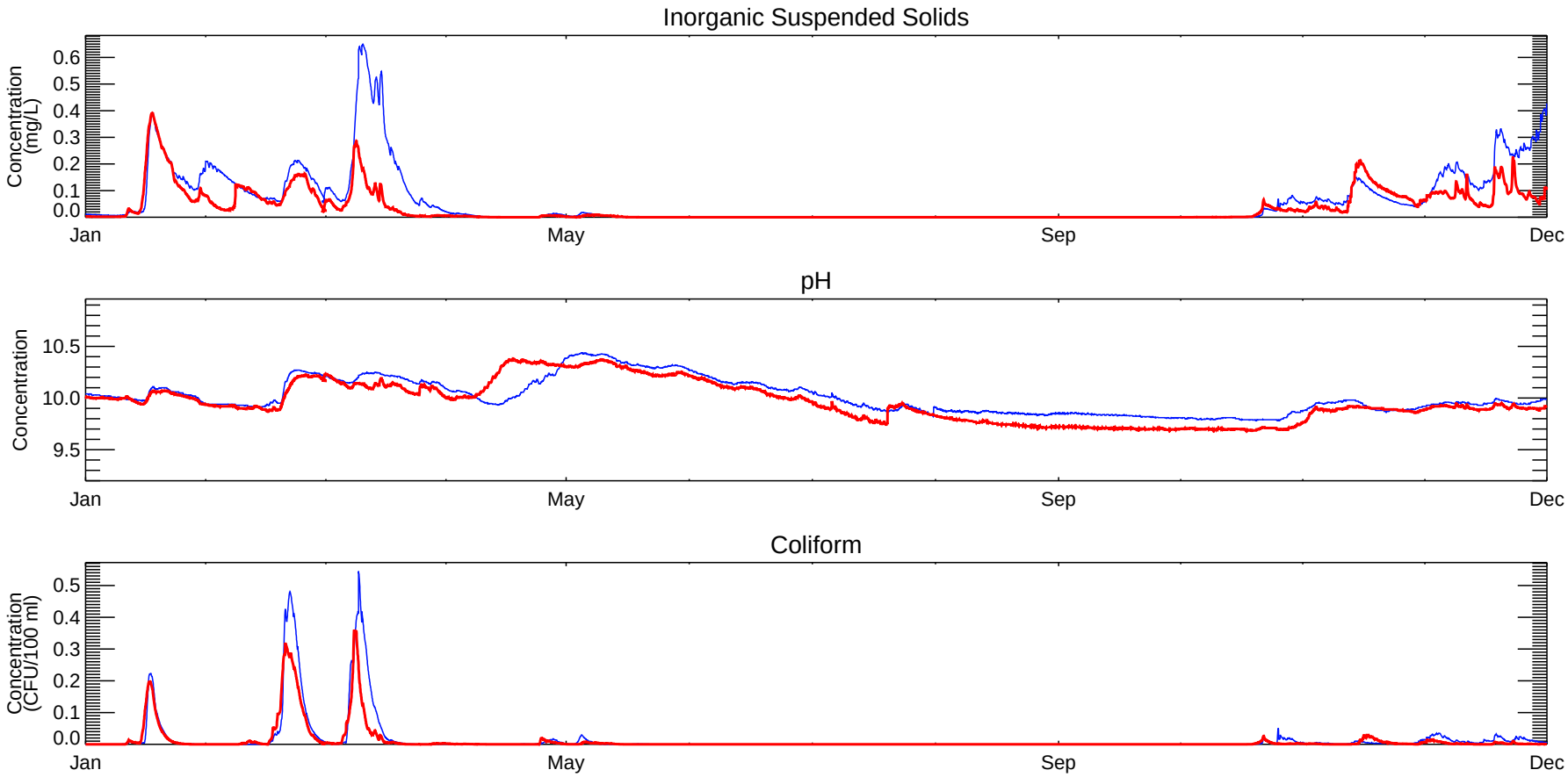


Figure C4−5

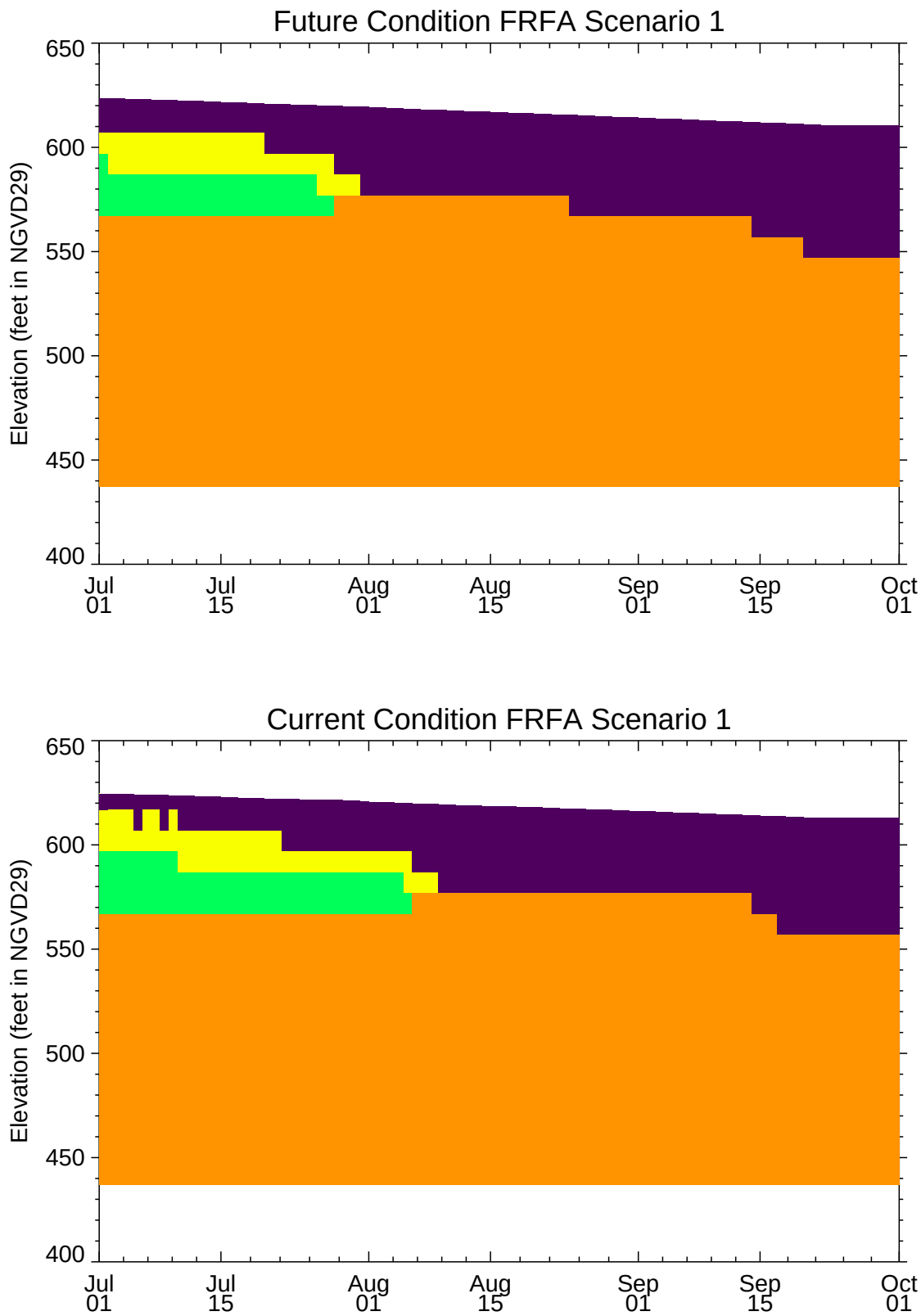
Concentrations in the Top 30 Feet of Segment 10 for FRFA Scenario 1 Future Condition Simulation
Reservoir Water Quality Model
Chehalis Basin Strategy: Reducing Flood Damage and Restoring Aquatic Species Habitat

Model outputs are hourly

ANCHOR QEA

Current Condition
Future Condition

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\CEQUAL_most_post__plot_temporals_WQ_cwo.pro Fri Oct 07 13:34:53 2016



- Temperature < 16 °C and DO > 9.5 mg/L
- Temperature < 16 °C and DO < 9.5 mg/L
- Temperature > 16 °C and DO > 9.5 mg/L
- Temperature > 16 °C and DO < 9.5 mg/L

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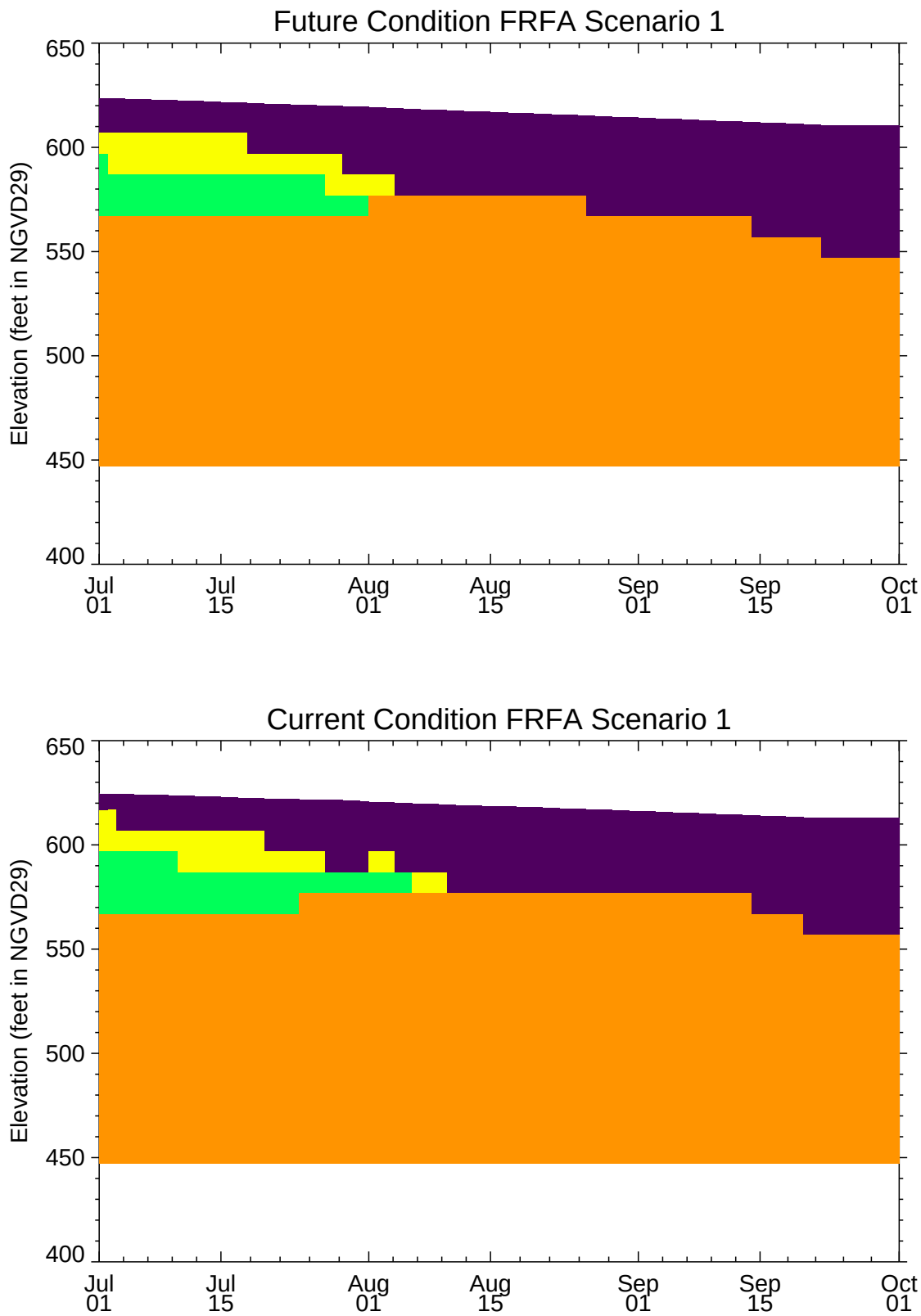
Figure C5−1

FRFA Scenario 1 Future Condition Simulation,
Model Segment 9:
Temperature and DO Conditions That Are
Suitable for Salmonids in Summer
Reservoir Water Quality Model

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\Chehalis_mod_post__plot_colorflood_depth_time.pro Fri Oct 07 13:43:48 2016



- Temperature < 16 °C and DO > 9.5 mg/L
- Temperature < 16 °C and DO < 9.5 mg/L
- Temperature > 16 °C and DO > 9.5 mg/L
- Temperature > 16 °C and DO < 9.5 mg/L

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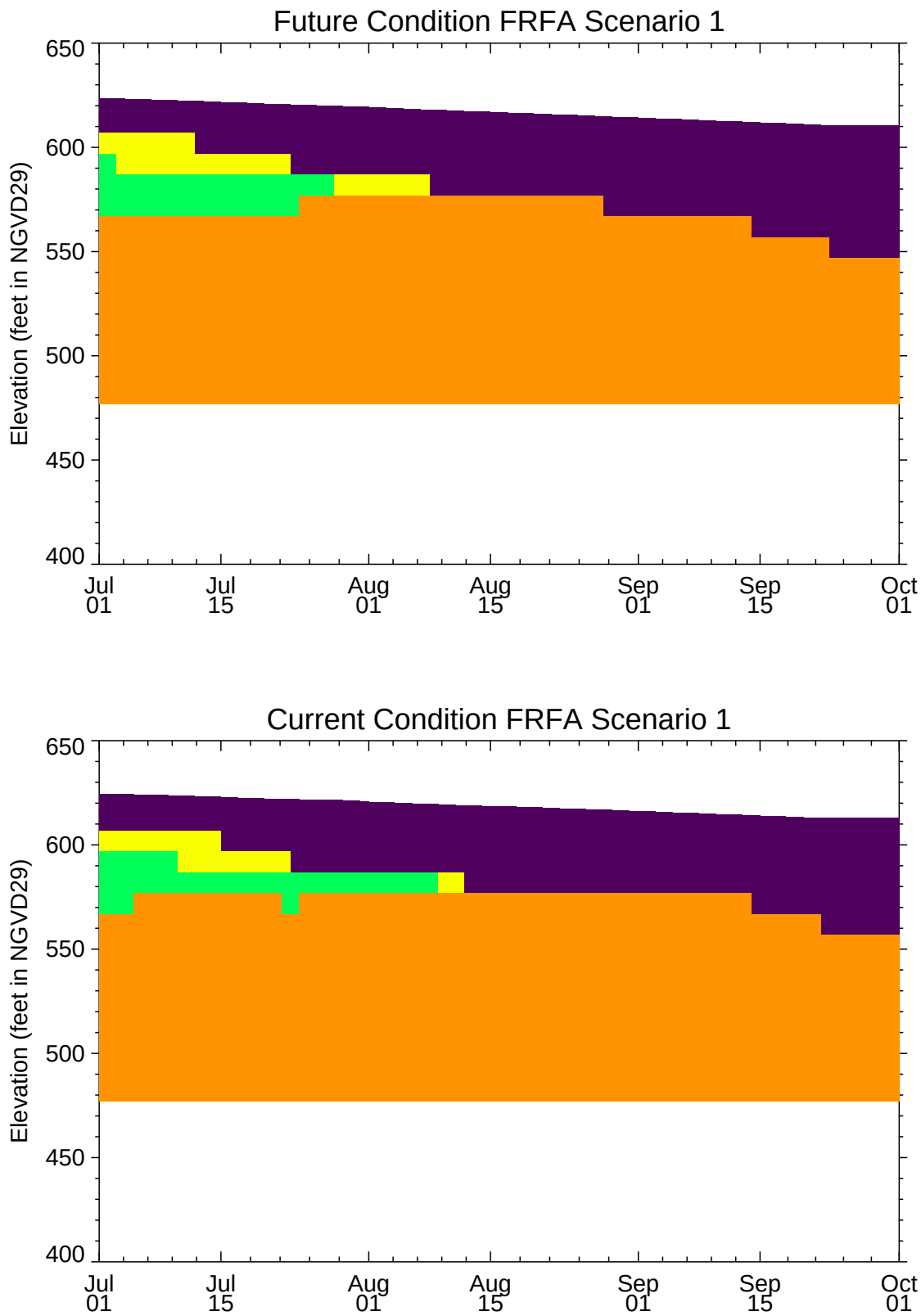
Figure C5−2

FRFA Scenario 1 Future Condition Simulation,
Model Segment 8:
Temperature and DO Conditions That Are
Suitable for Salmonids in Summer
Reservoir Water Quality Model

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\Chehalis_mod_post__plot_colorflood_depth_time.pro Fri Oct 07 13:46:39 2016



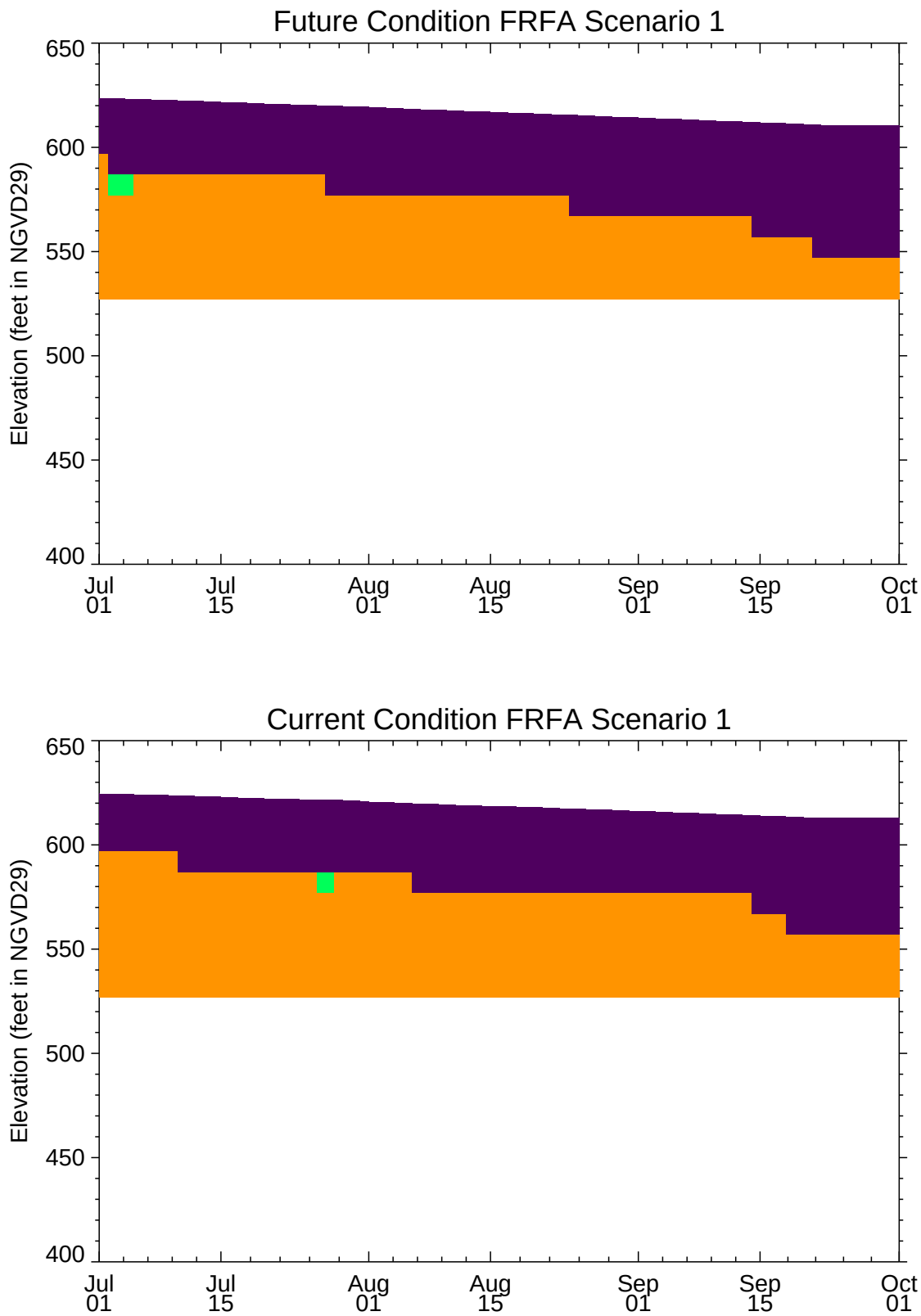
- Temperature < 16 °C and DO > 9.5 mg/L
- Temperature < 16 °C and DO < 9.5 mg/L
- Temperature > 16 °C and DO > 9.5 mg/L
- Temperature > 16 °C and DO < 9.5 mg/L

ANCHOR QEA

Figure C5−3

FRFA Scenario 1 Future Condition Simulation, Model Segment 7:
Temperature and DO Conditions That Are Suitable for Salmonids in Summer
Reservoir Water Quality Model

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\Chehalis_mod_post__plot_colorflood_depth_time.pro Fri Oct 07 13:49:51 2016



- Temperature < 16 °C and DO > 9.5 mg/L
- Temperature < 16 °C and DO < 9.5 mg/L
- Temperature > 16 °C and DO > 9.5 mg/L
- Temperature > 16 °C and DO < 9.5 mg/L

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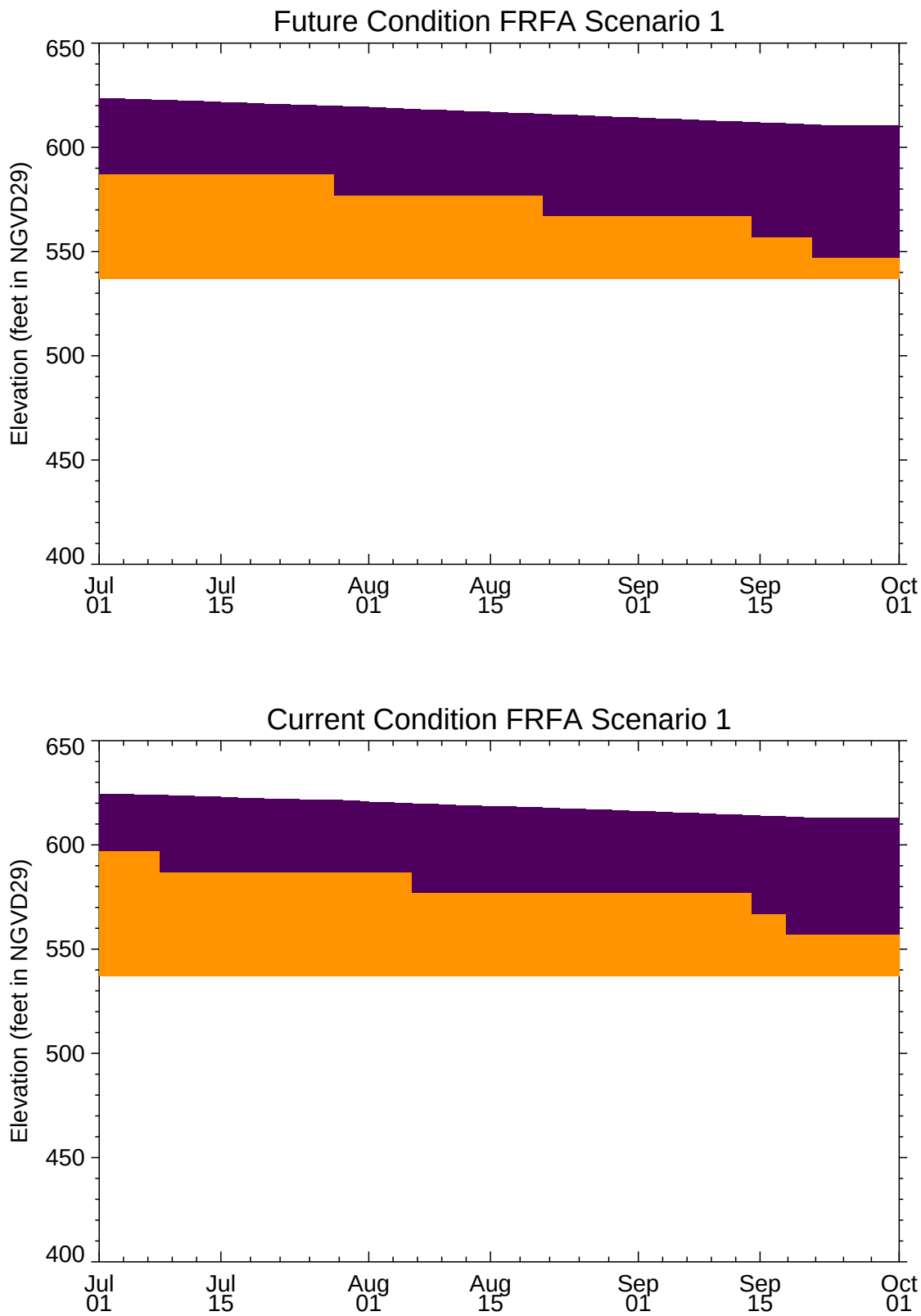
Figure C5−4

FRFA Scenario 1 Future Condition Simulation,
Model Segment 5:
Temperature and DO Conditions That Are
Suitable for Salmonids in Summer
Reservoir Water Quality Model

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\Chehalis_mod_post__plot_colorflood_depth_time.pro Fri Oct 07 13:57:43 2016



- Temperature < 16 °C and DO > 9.5 mg/L
- Temperature < 16 °C and DO < 9.5 mg/L
- Temperature > 16 °C and DO > 9.5 mg/L
- Temperature > 16 °C and DO < 9.5 mg/L

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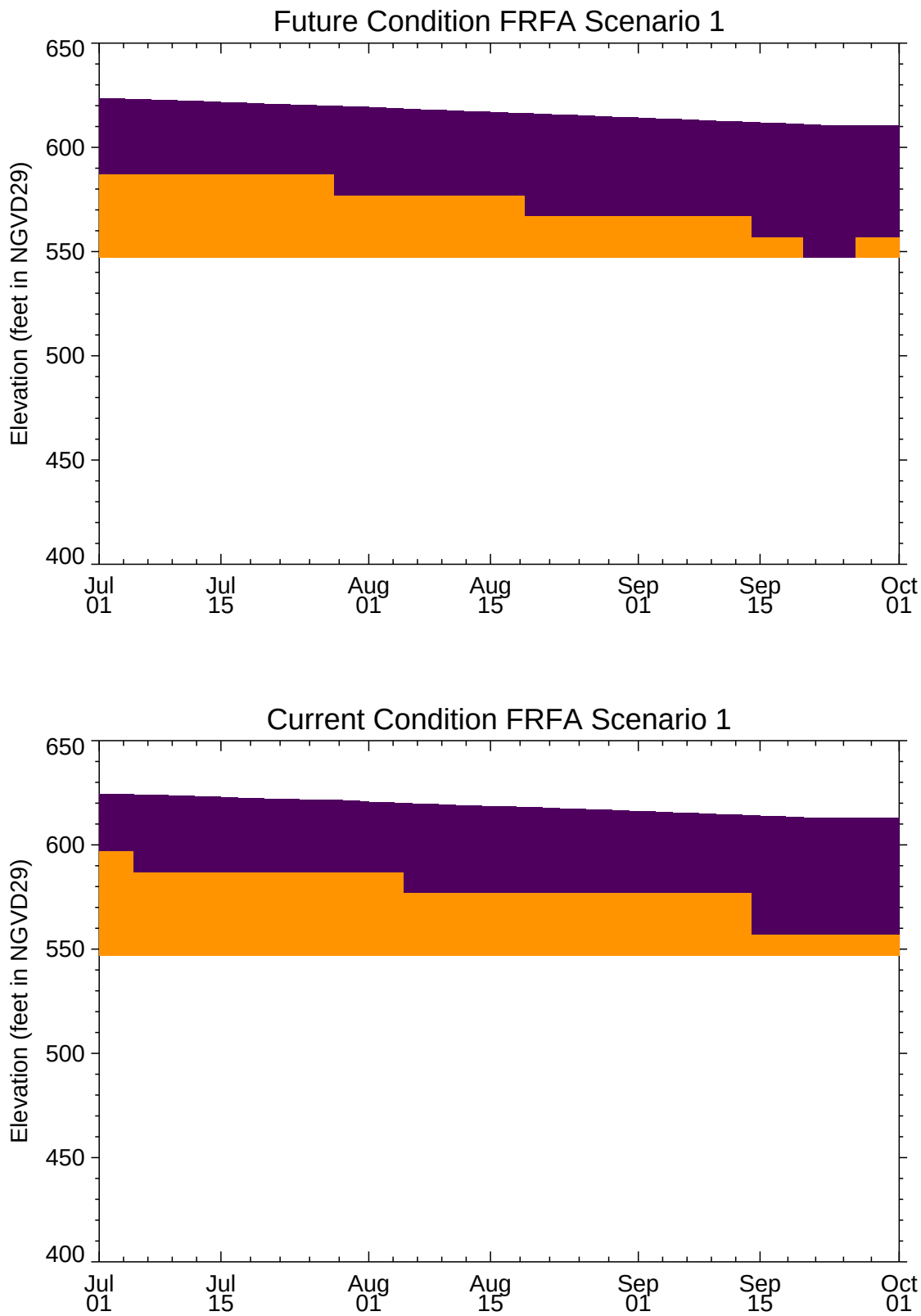
Figure C5−5

FRFA Scenario 1 Future Condition Simulation,
Model Segment 4:
Temperature and DO Conditions That Are
Suitable for Salmonids in Summer
Reservoir Water Quality Model

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\Chehalis_mod_post__plot_colorflood_depth_time.pro Fri Oct 07 14:04:08 2016



- Temperature < 16 °C and DO > 9.5 mg/L
- Temperature < 16 °C and DO < 9.5 mg/L
- Temperature > 16 °C and DO > 9.5 mg/L
- Temperature > 16 °C and DO < 9.5 mg/L

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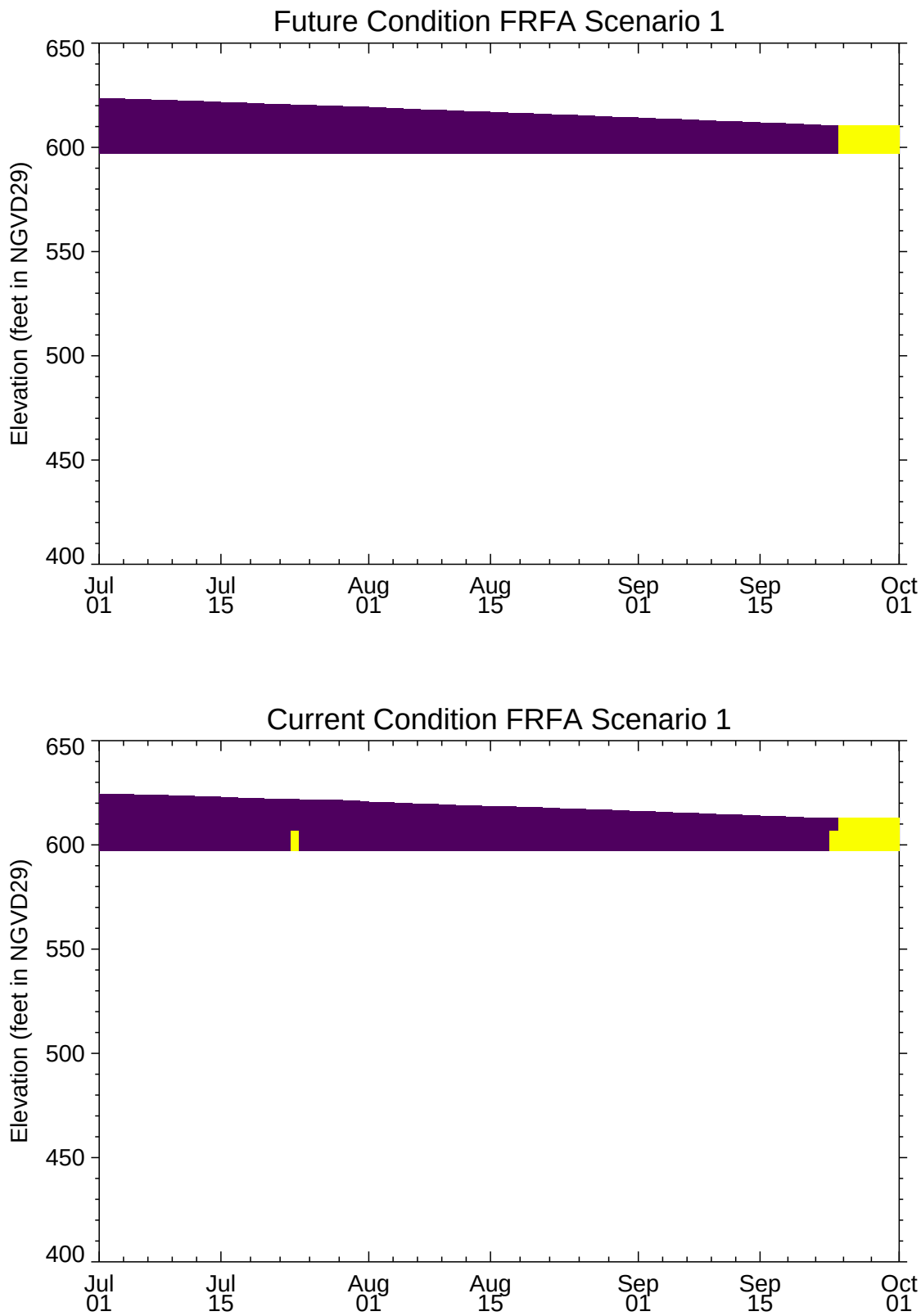
Figure C5−6

FRFA Scenario 1 Future Condition Simulation,
Model Segment 3:
Temperature and DO Conditions That Are
Suitable for Salmonids in Summer
Reservoir Water Quality Model

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\Chehalis_mod_post__plot_colorflood_depth_time.pro Fri Oct 07 14:06:13 2016



- Temperature < 16 °C and DO > 9.5 mg/L
- Temperature < 16 °C and DO < 9.5 mg/L
- Temperature > 16 °C and DO > 9.5 mg/L
- Temperature > 16 °C and DO < 9.5 mg/L

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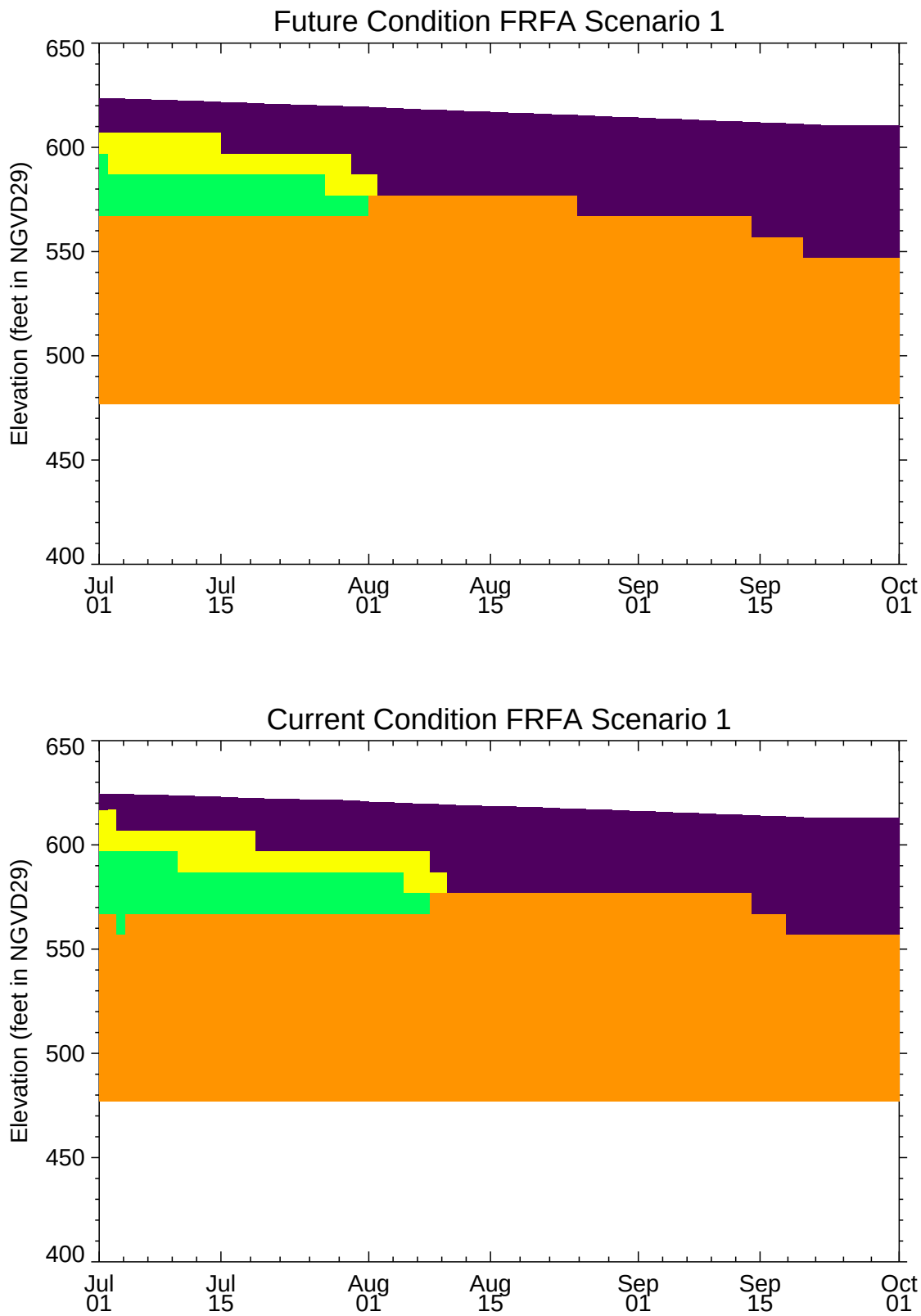
Figure C5−7

FRFA Scenario 1 Future Condition Simulation,
Model Segment 2:
Temperature and DO Conditions That Are
Suitable for Salmonids in Summer
Reservoir Water Quality Model

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\Chehalis_mod_post__plot_colorflood_depth_time.pro Fri Oct 07 14:07:54 2016



- Temperature < 16 °C and DO > 9.5 mg/L
- Temperature < 16 °C and DO < 9.5 mg/L
- Temperature > 16 °C and DO > 9.5 mg/L
- Temperature > 16 °C and DO < 9.5 mg/L

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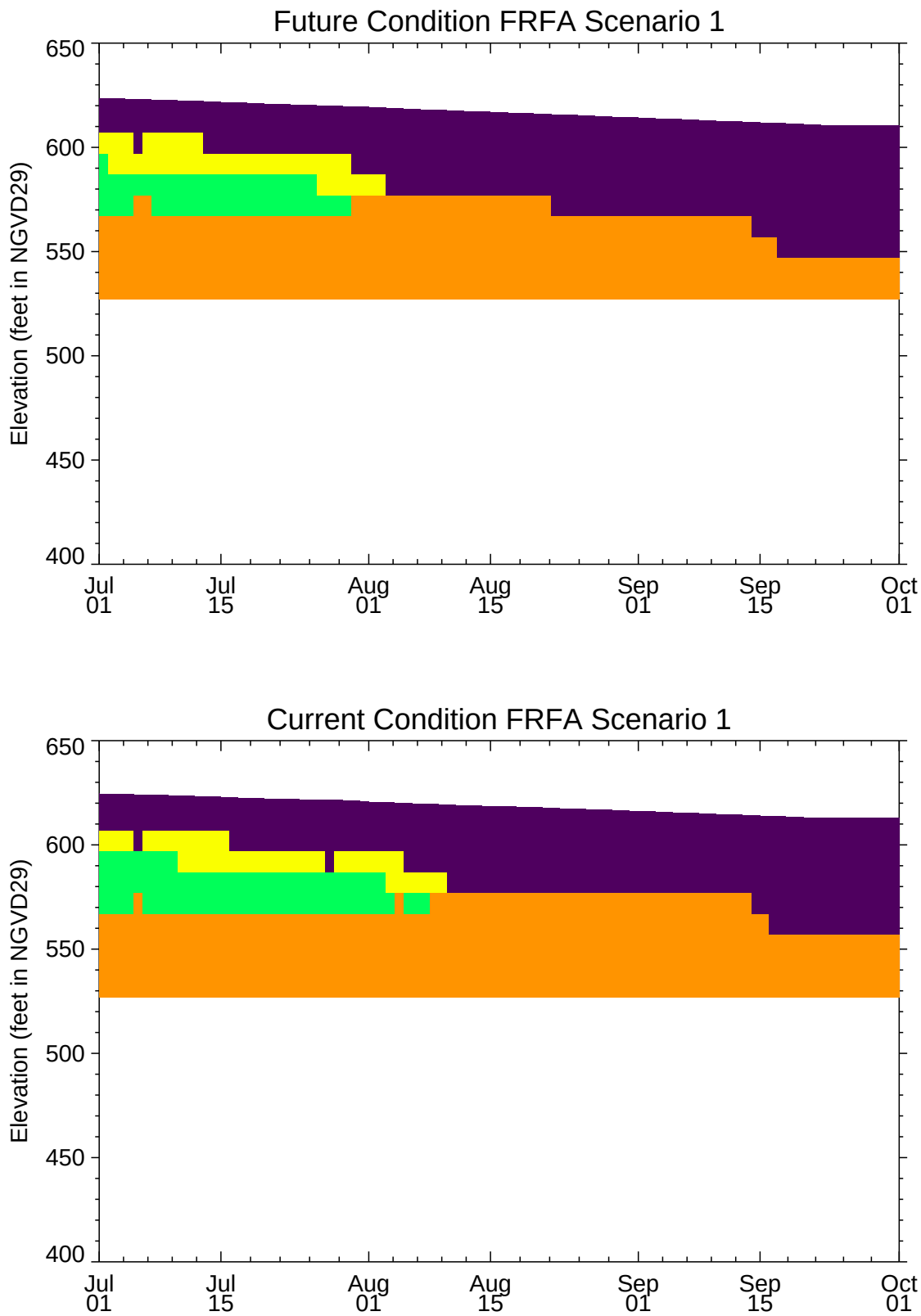
Figure C5−8

FRFA Scenario 1 Future Condition Simulation,
Model Segment 15:
Temperature and DO Conditions That Are
Suitable for Salmonids in Summer
Reservoir Water Quality Model

BG − F:\TEMP_MODEL_RUN\Chehalis\Postprocessors\Chehalis_mod_post__plot_colorflood_depth_time.pro Fri Oct 07 14:10:56 2016



- Temperature < 16 °C and DO > 9.5 mg/L
- Temperature < 16 °C and DO < 9.5 mg/L
- Temperature > 16 °C and DO > 9.5 mg/L
- Temperature > 16 °C and DO < 9.5 mg/L

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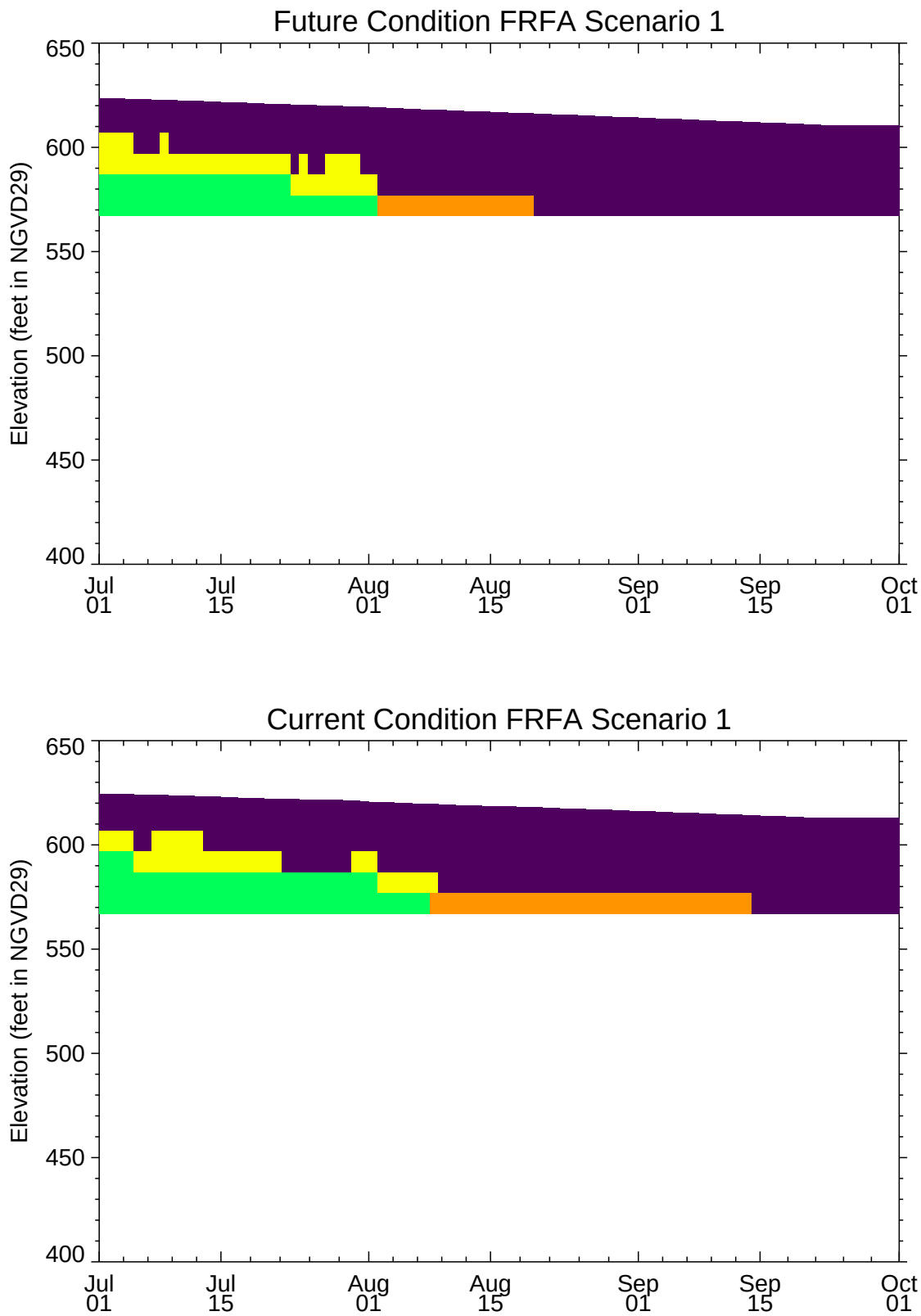
Figure C5−9

FRFA Scenario 1 Future Condition Simulation,
Model Segment 14:
Temperature and DO Conditions That Are
Suitable for Salmonids in Summer
Reservoir Water Quality Model



- Temperature < 16 °C and DO > 9.5 mg/L
- Temperature < 16 °C and DO < 9.5 mg/L
- Temperature > 16 °C and DO > 9.5 mg/L
- Temperature > 16 °C and DO < 9.5 mg/L

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Figure C5−10

FRFA Scenario 1 Future Condition Simulation,
Model Segment 13:
Temperature and DO Conditions That Are
Suitable for Salmonids in Summer
Reservoir Water Quality Model