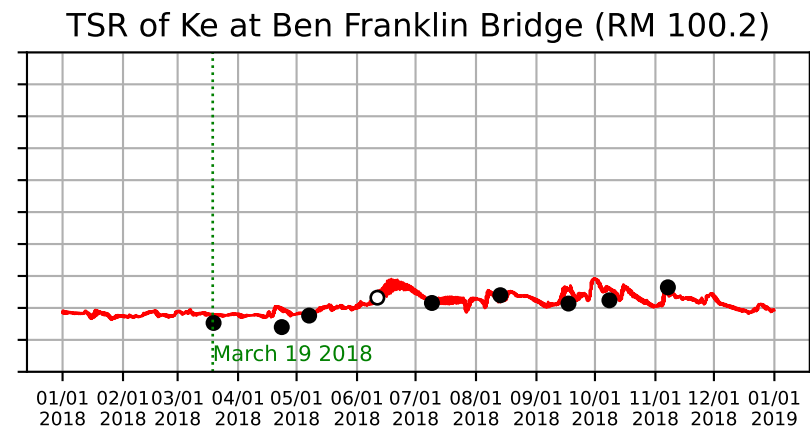
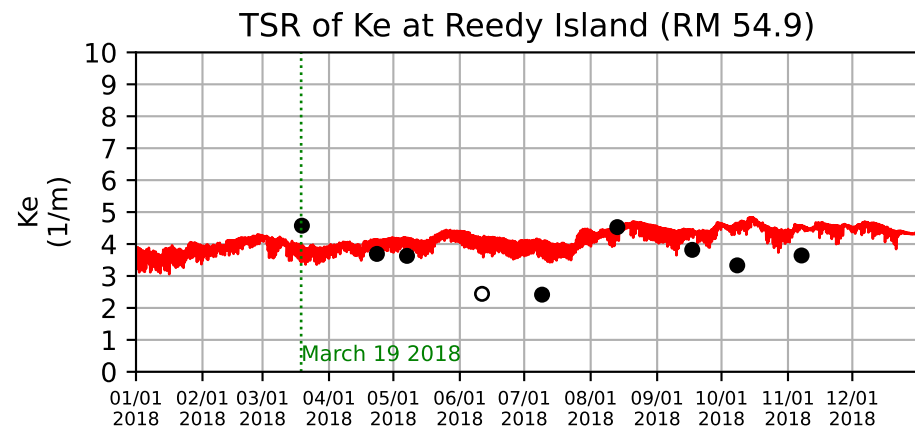
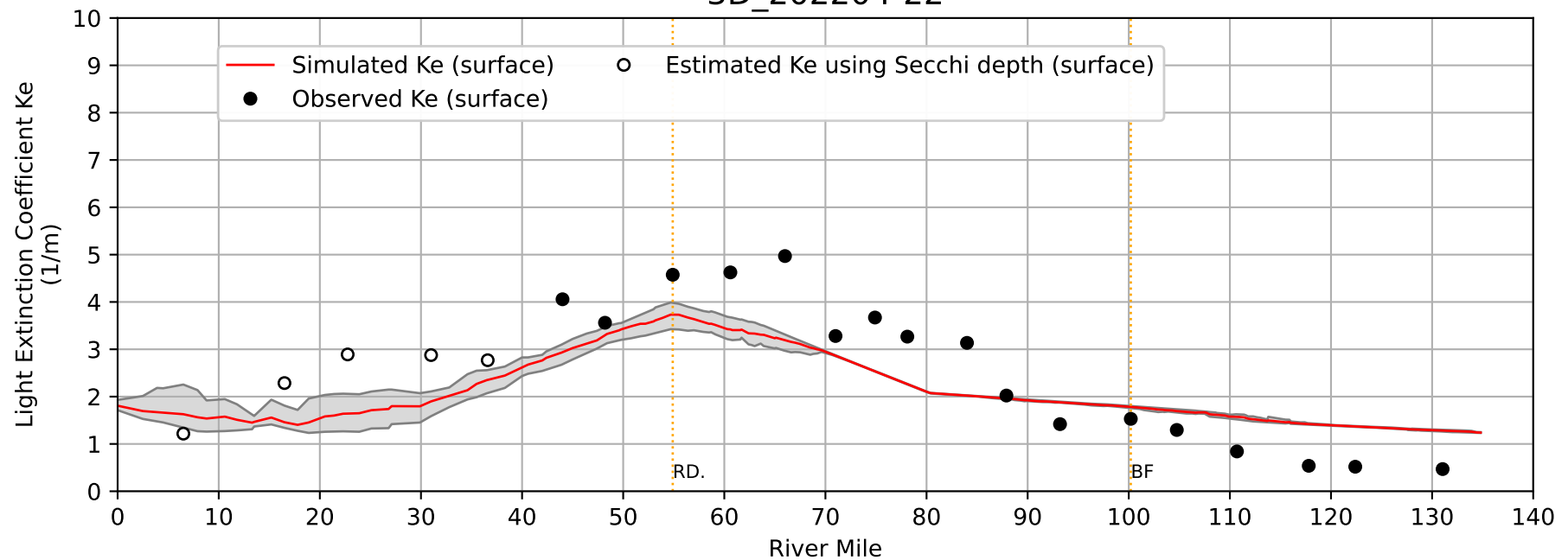


## Appendix G: Diagnostic Analysis

### Appendix G-3: Zone-2 light attenuation diagnosis - $K_e$

This appendix is in connection with Section 3.2.5.3 in the main report – Zone-2 Light Attenuation Diagnosis. It presents the seasonal adjusted light extinction coefficient  $K_e$ , compared with observed  $K_e$ , for the 2018–2019 calibration period.

# Simulated and Observed Ke at Surface Layer. Sample Date: March 19 2018 3D\_202204-22

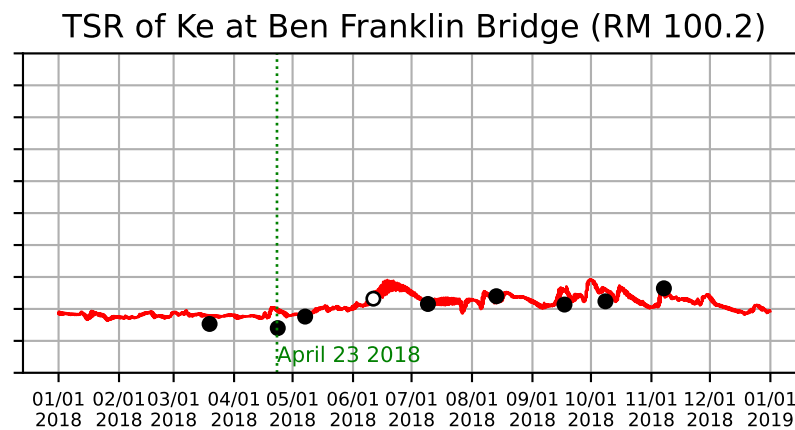
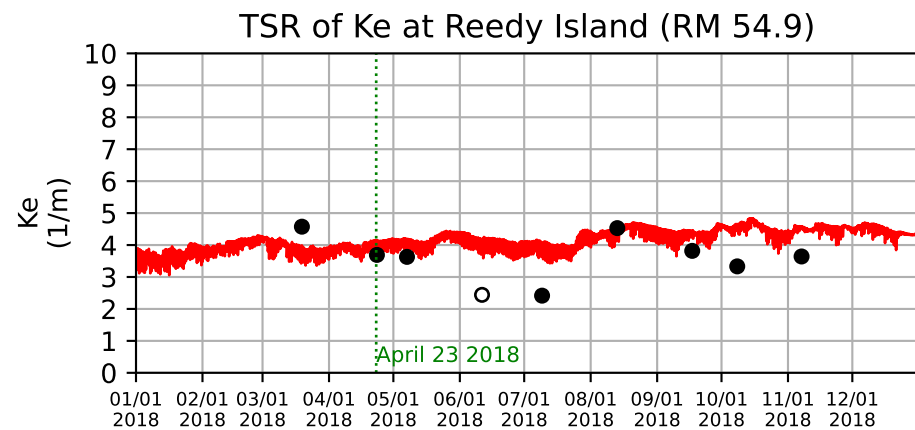
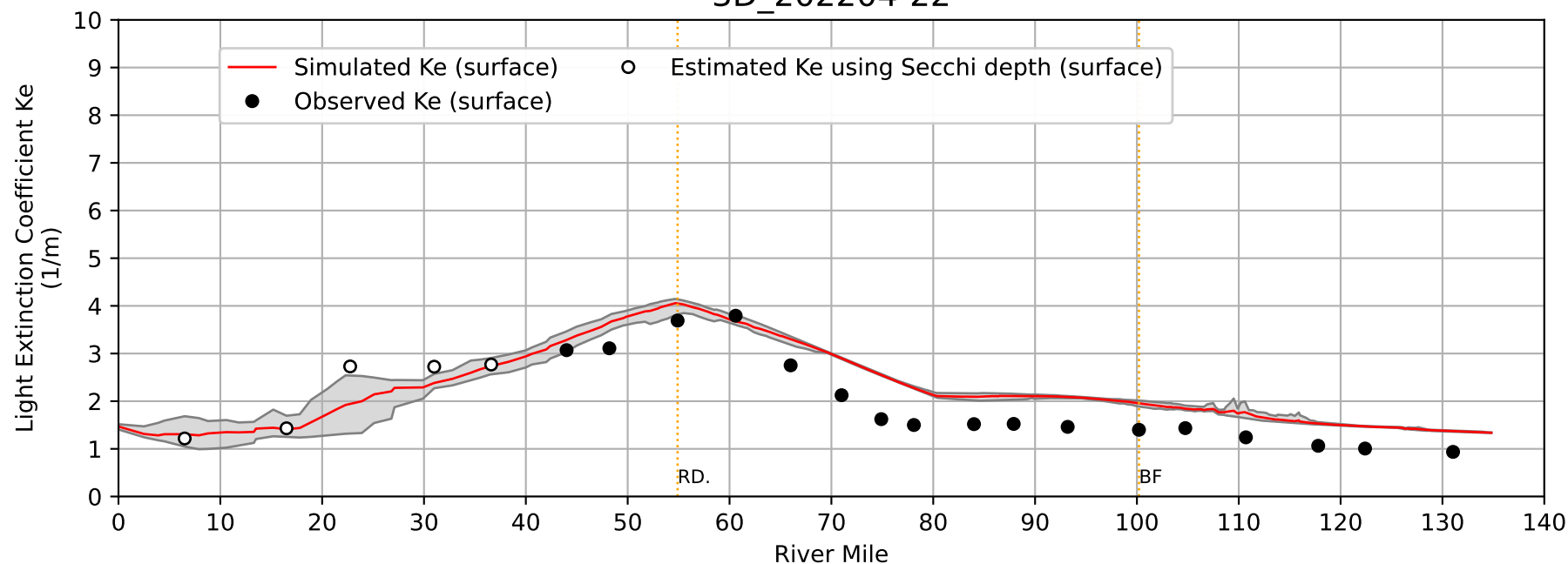


Simulated and Observed Light Extinction Coefficient  $K_e$   
 Model results from 03/19/2018 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
 Run ID: 3D\_202204-22



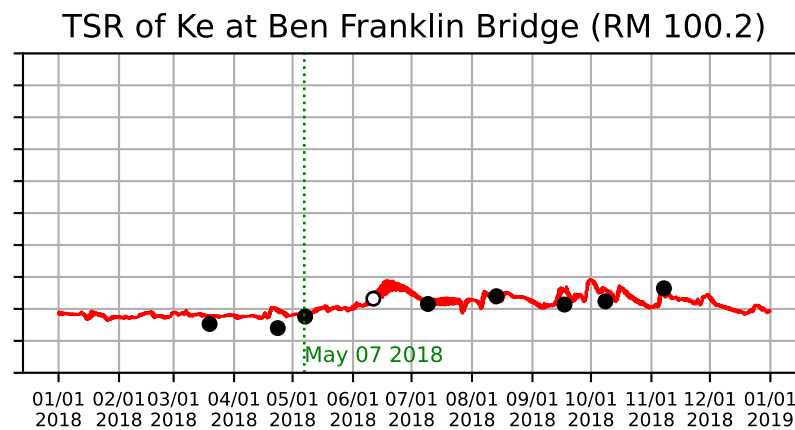
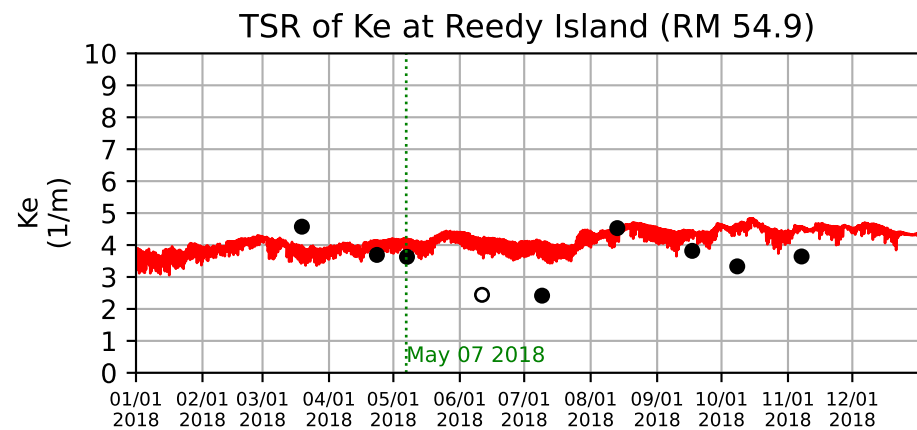
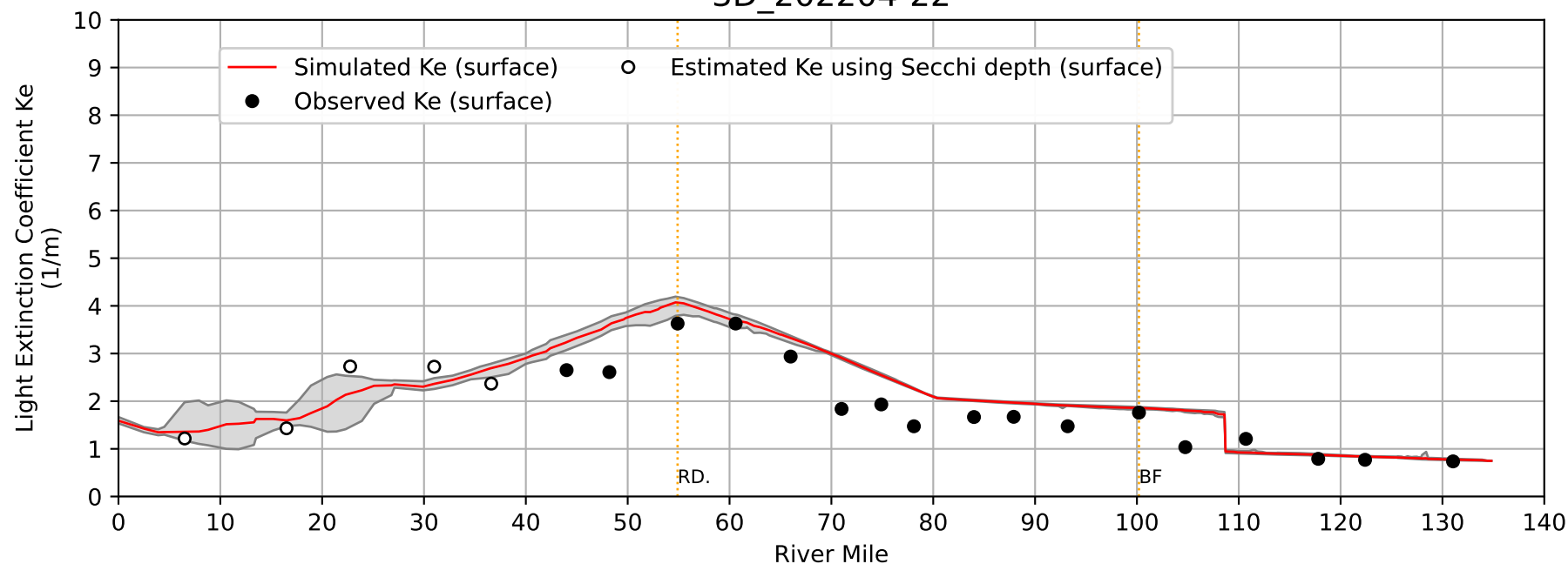
# Simulated and Observed Ke at Surface Layer. Sample Date: April 23 2018 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 04/23/2018 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

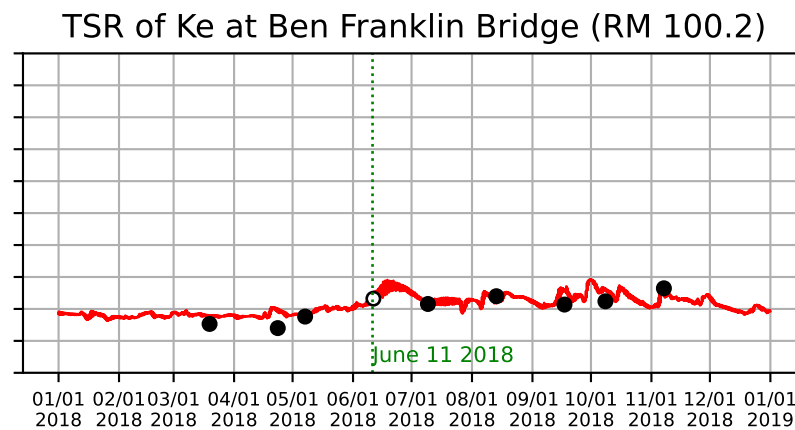
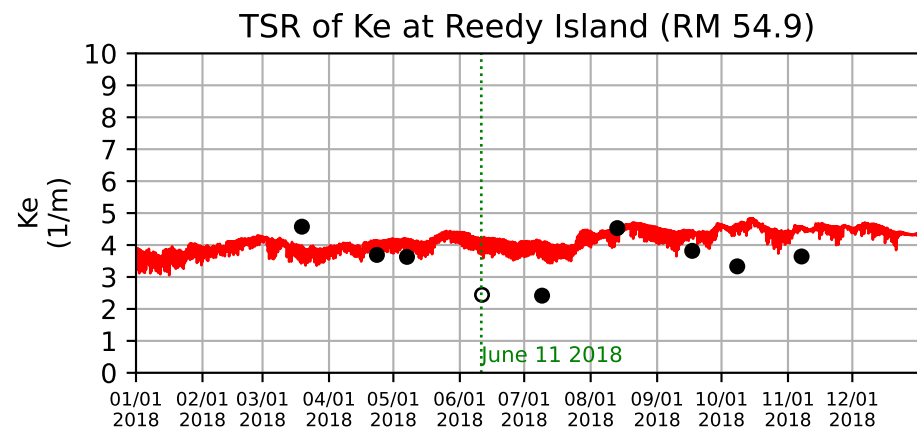
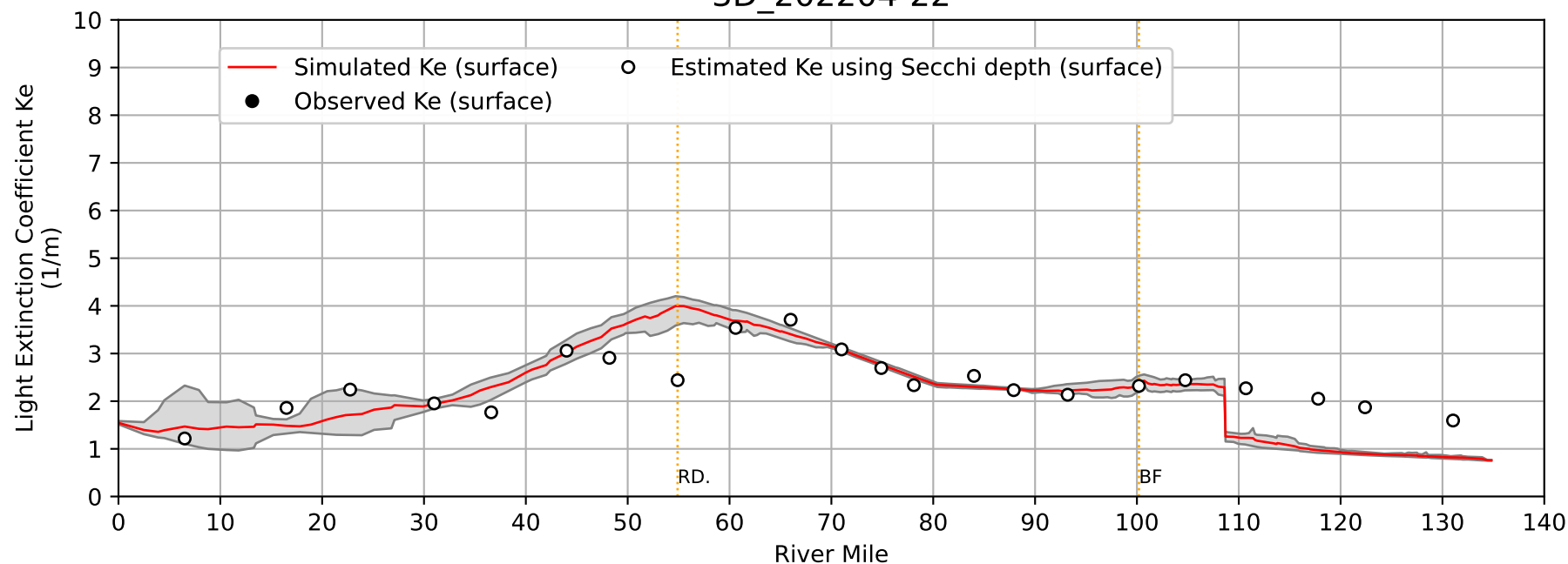
# Simulated and Observed Ke at Surface Layer. Sample Date: May 07 2018 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 05/07/2018 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

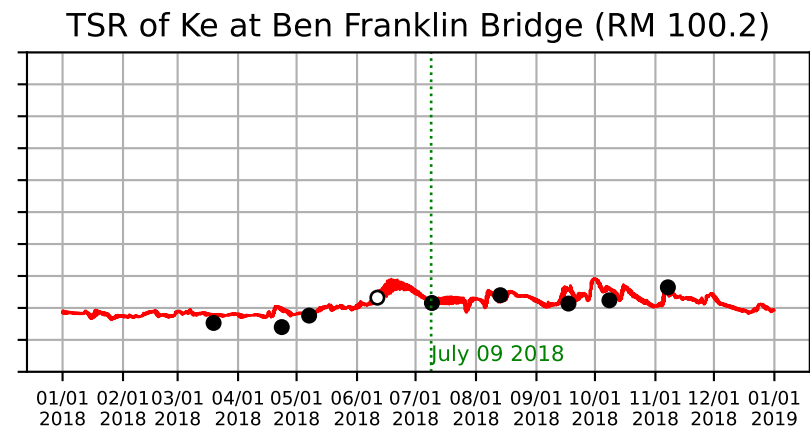
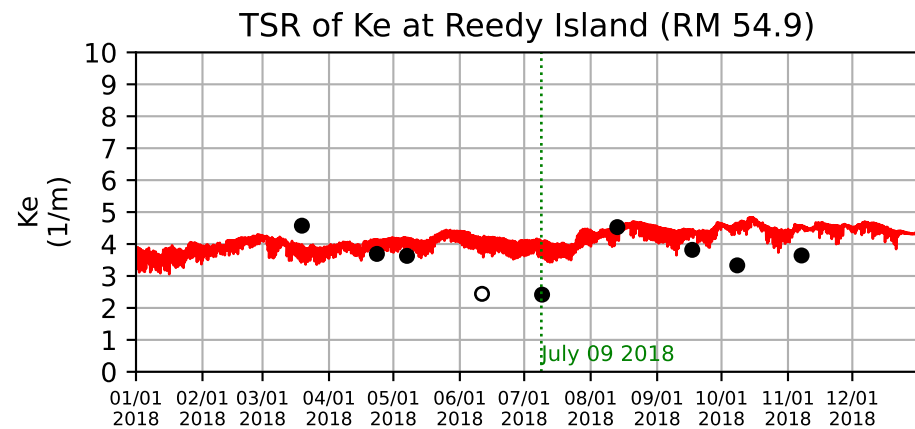
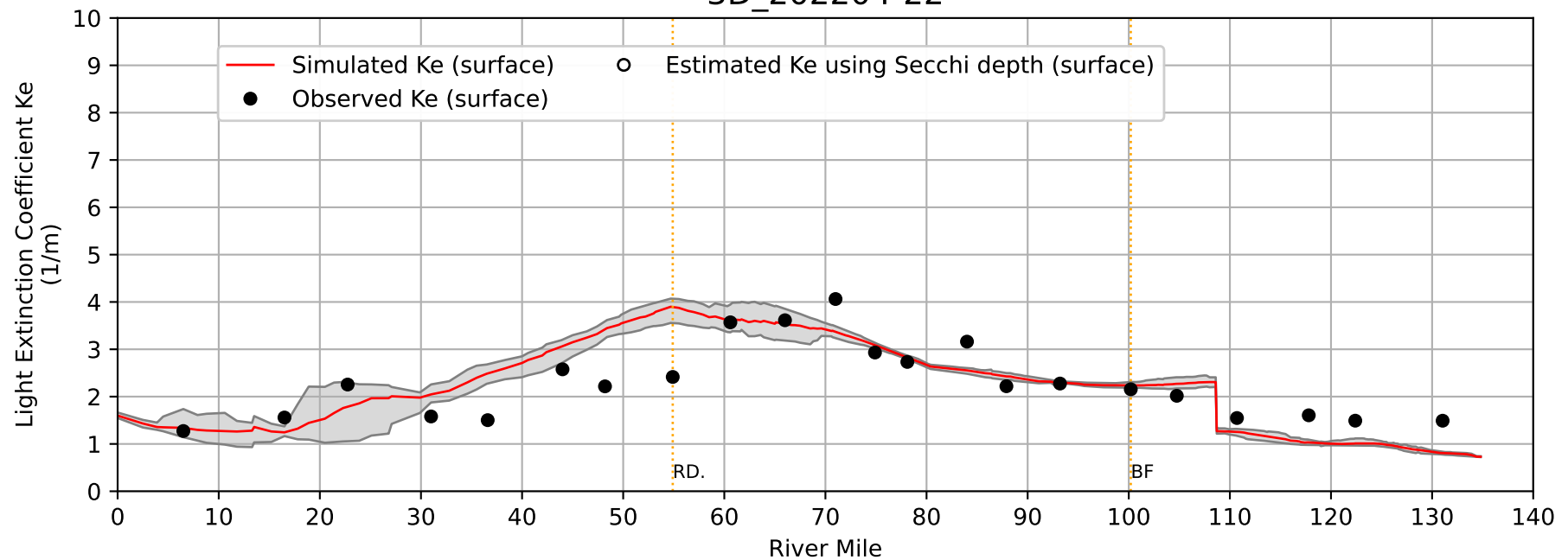
# Simulated and Observed Ke at Surface Layer. Sample Date: June 11 2018 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 06/11/2018 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

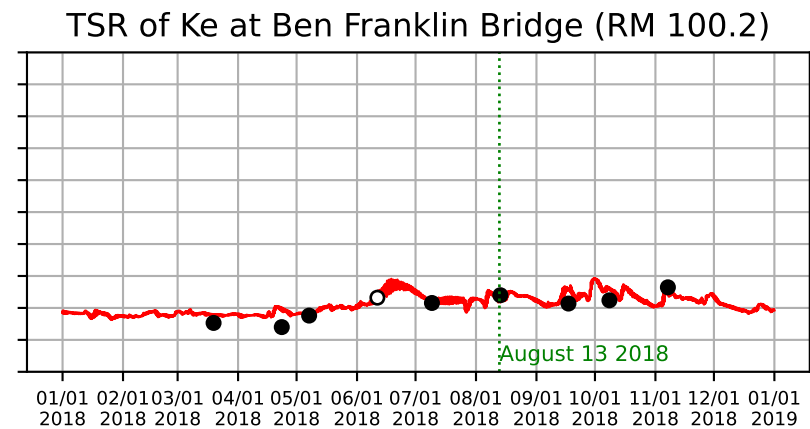
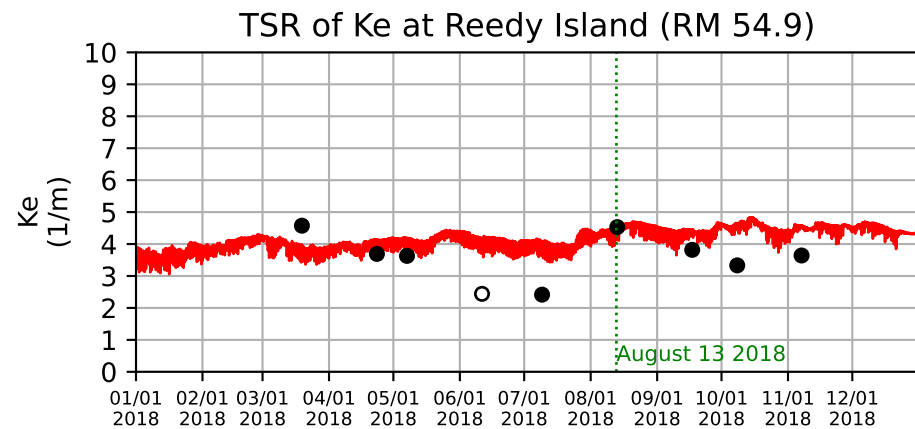
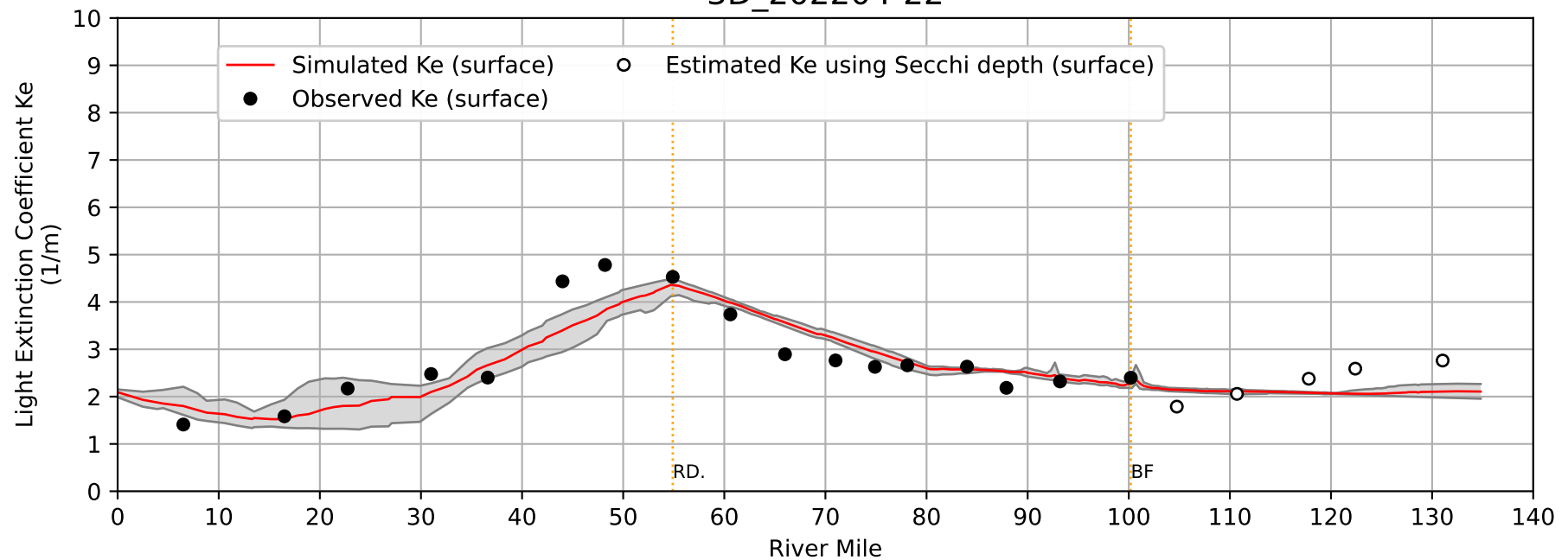
# Simulated and Observed Ke at Surface Layer. Sample Date: July 09 2018 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
 Model results from 07/09/2018 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
 Run ID: 3D\_202204-22

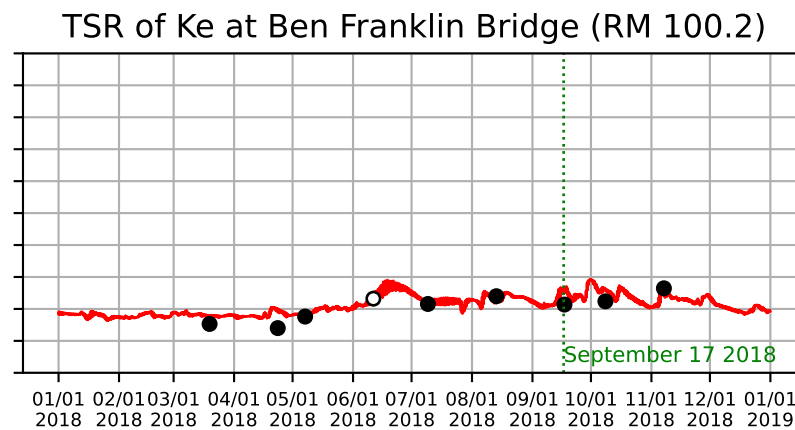
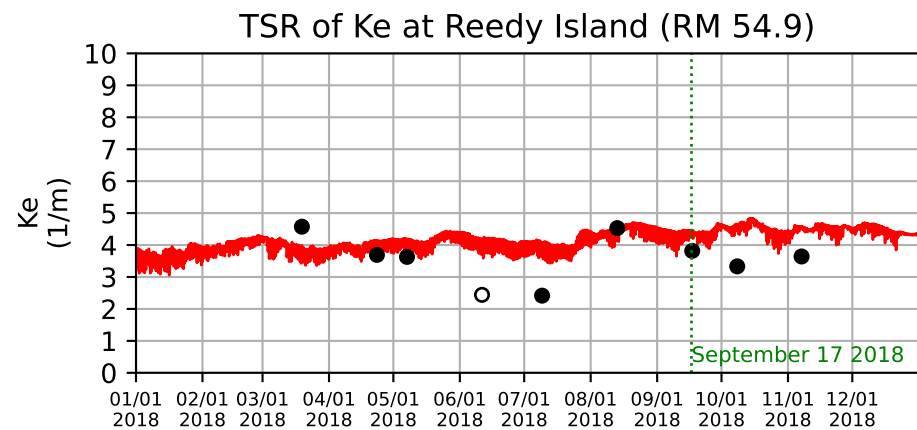
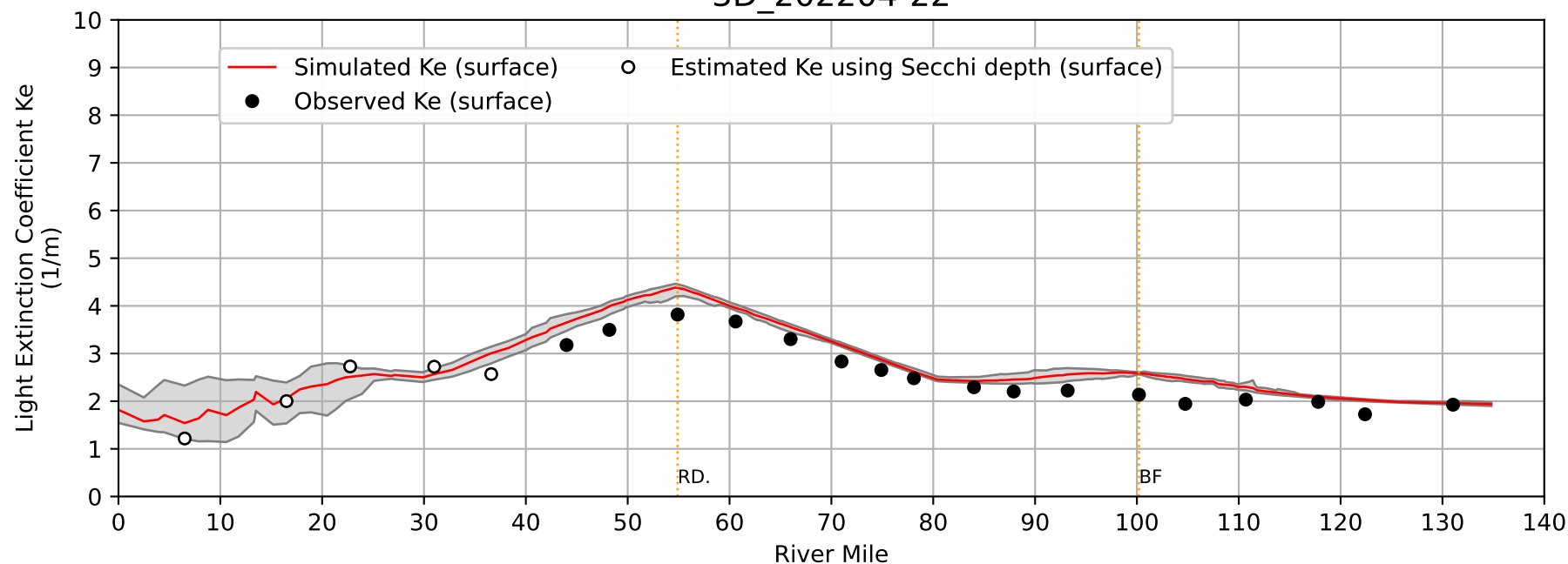
# Simulated and Observed Ke at Surface Layer. Sample Date: August 13 2018 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 08/13/2018 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

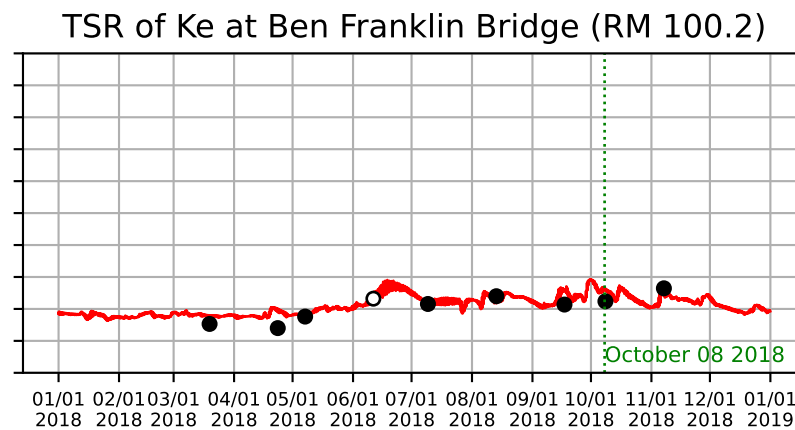
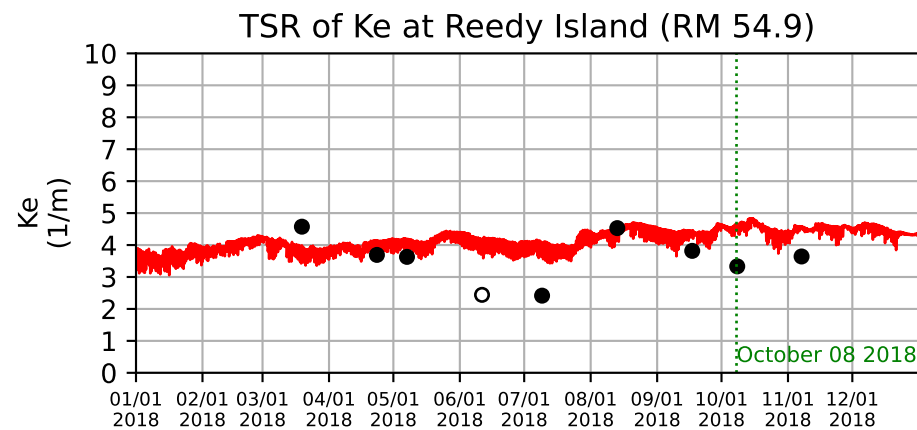
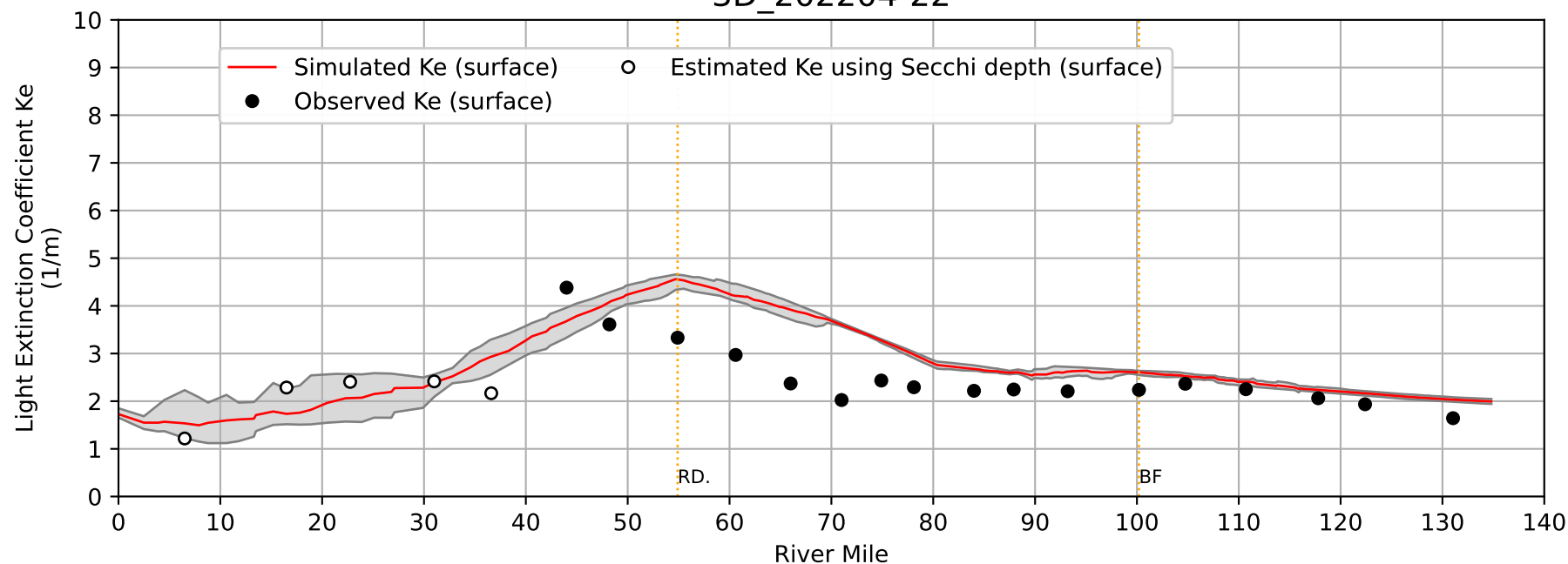
# Simulated and Observed Ke at Surface Layer. Sample Date: September 17 2018 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 09/17/2018 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

## Simulated and Observed Ke at Surface Layer. Sample Date: October 08 2018 3D\_202204-22

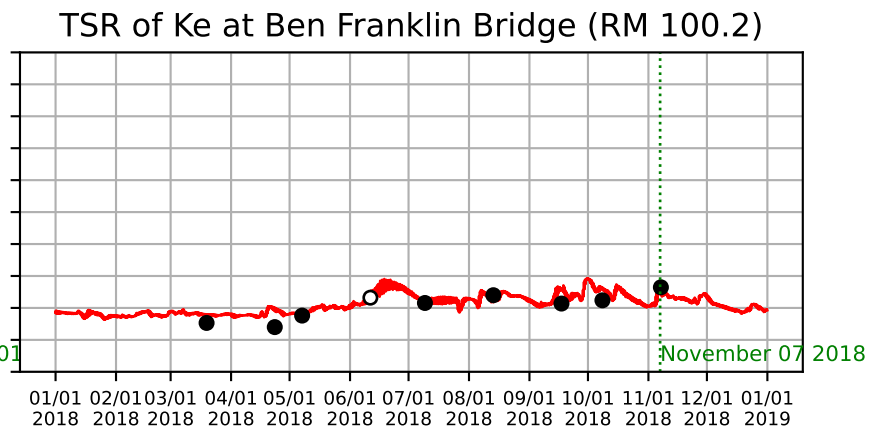
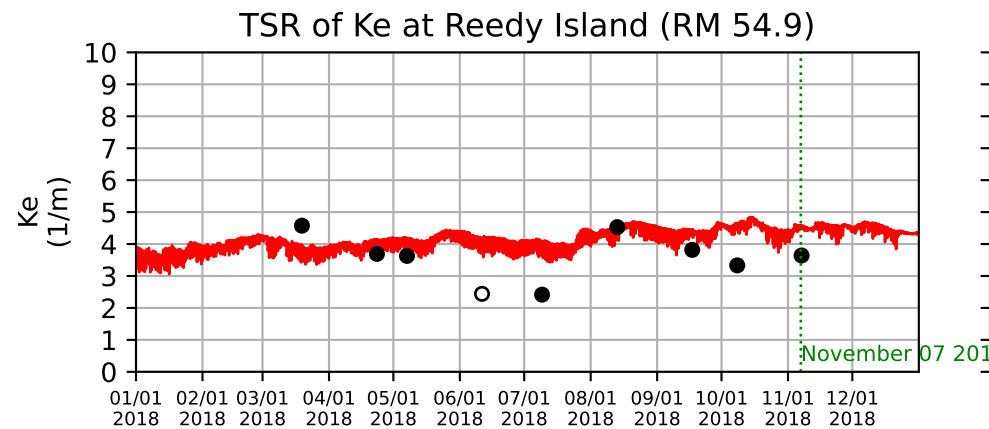
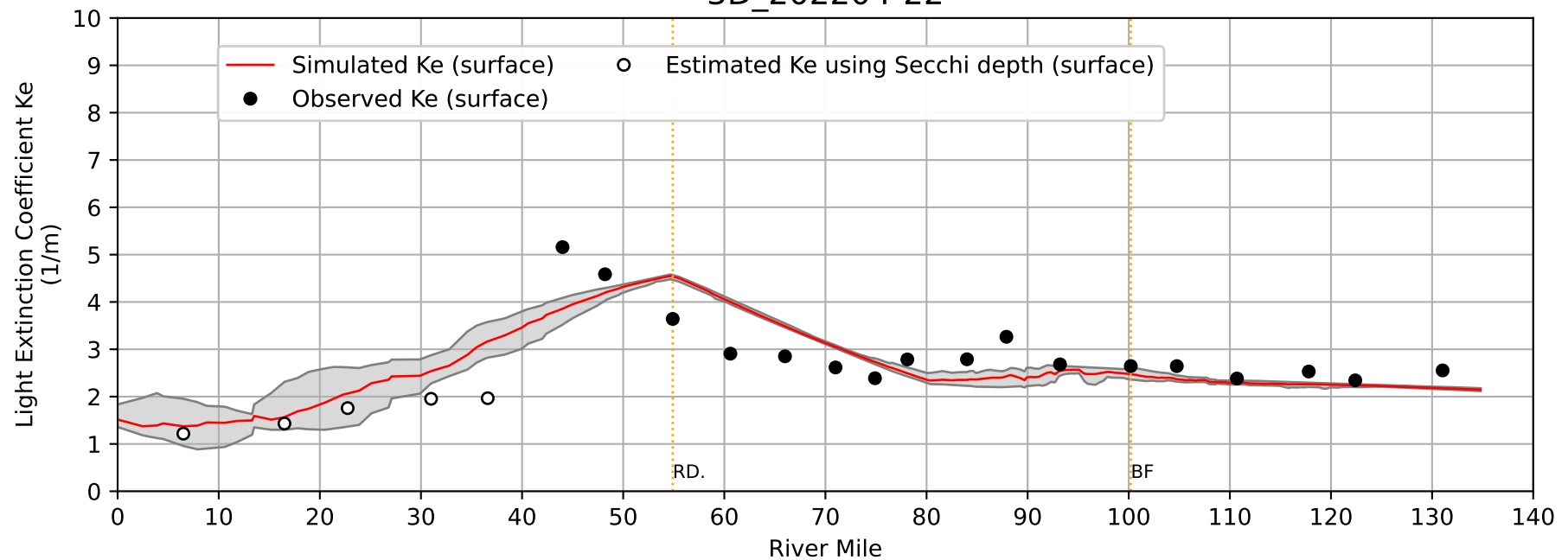


Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 10/08/2018 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22



# Simulated and Observed Ke at Surface Layer. Sample Date: November 07 2018 3D\_202204-22

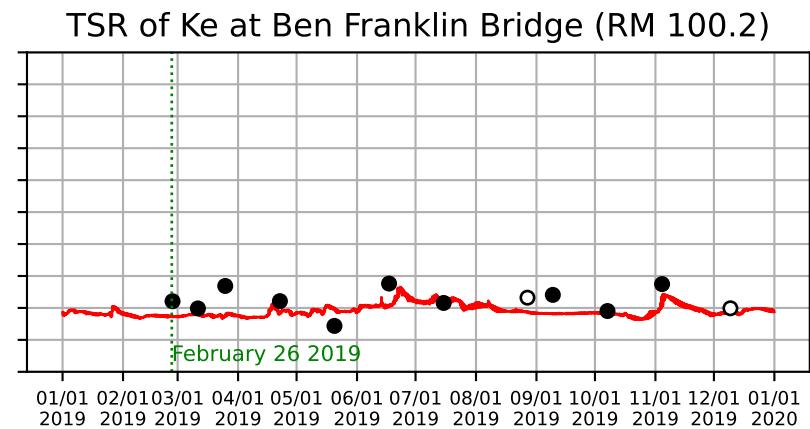
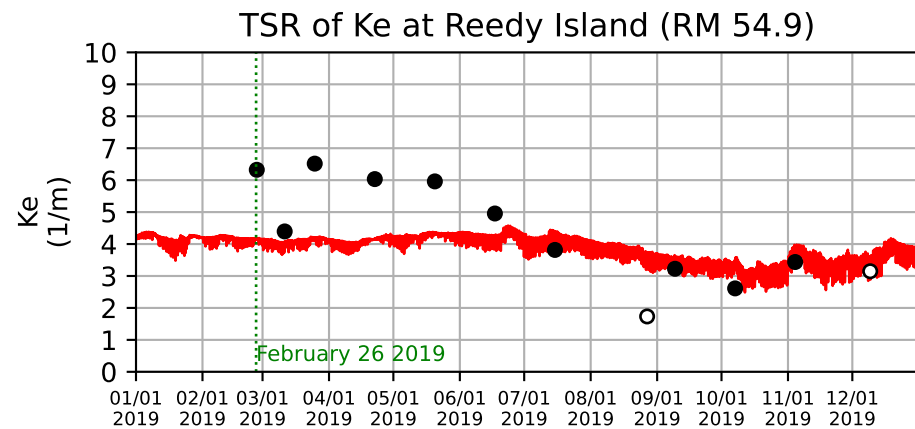
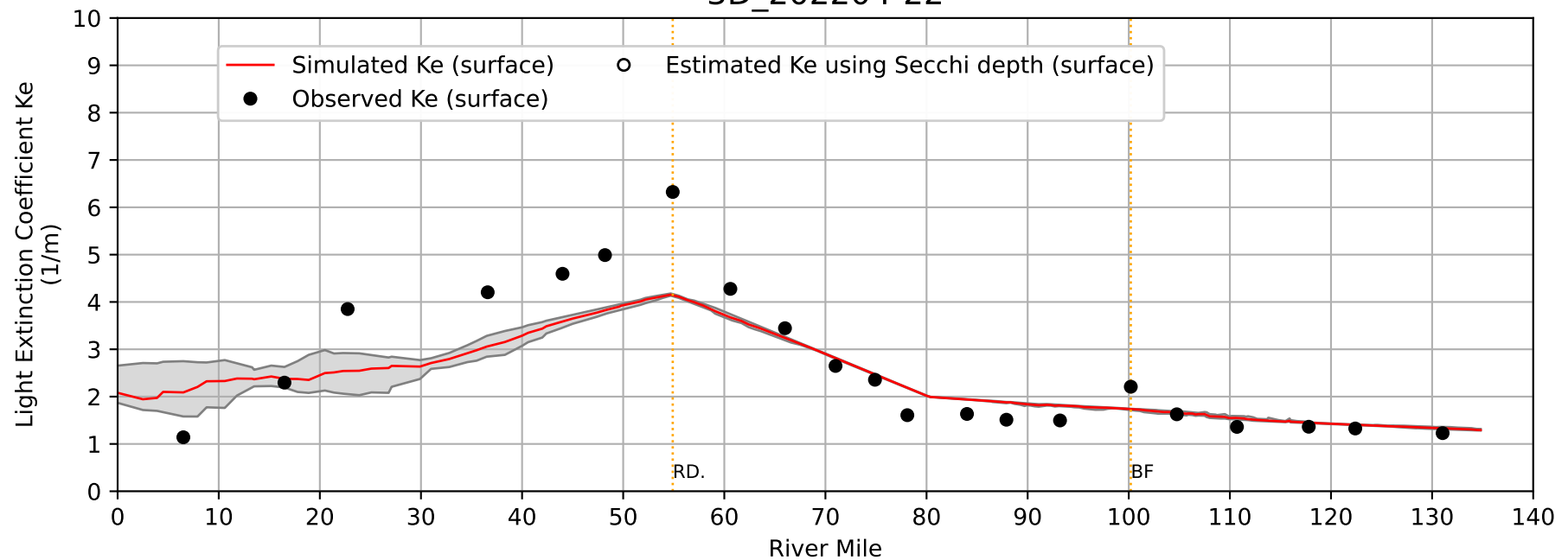


Simulated and Observed Light Extinction Coefficient  $K_e$   
 Model results from 11/07/2018 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
 Run ID: 3D\_202204-22



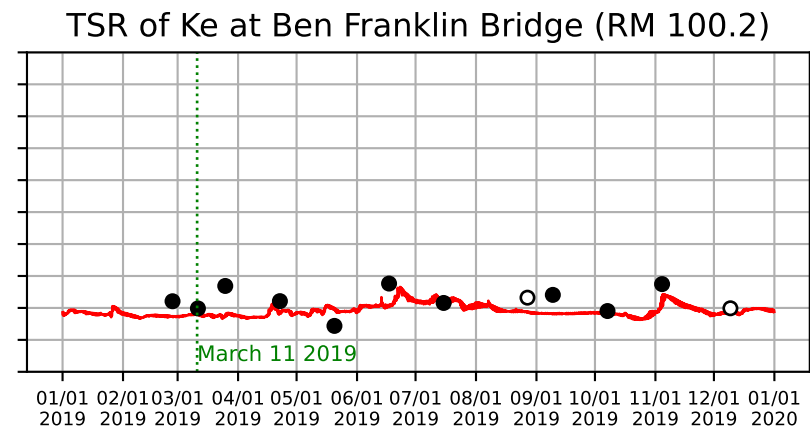
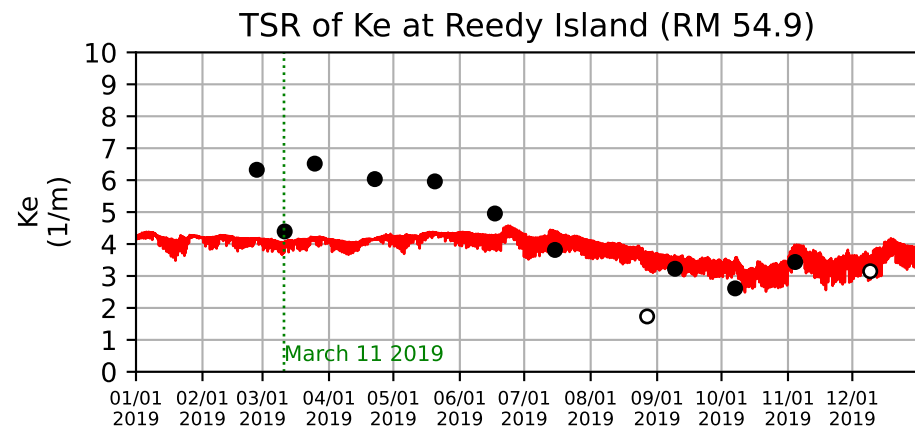
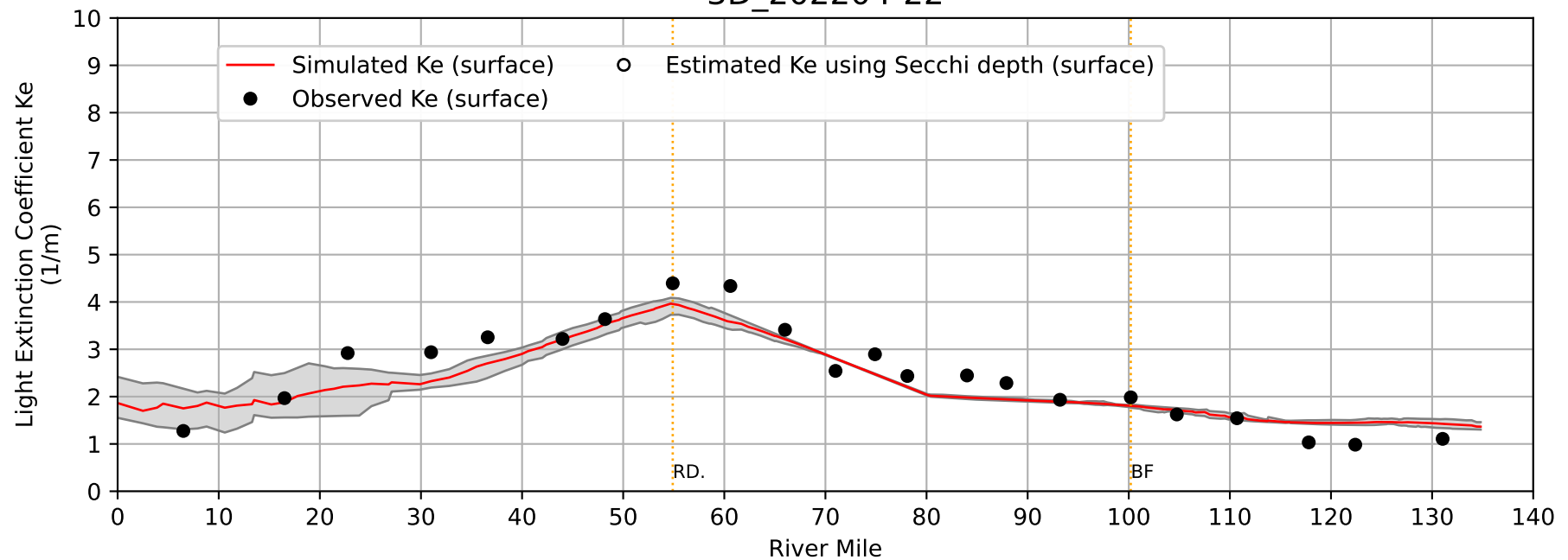
# Simulated and Observed Ke at Surface Layer. Sample Date: February 26 2019 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 02/26/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

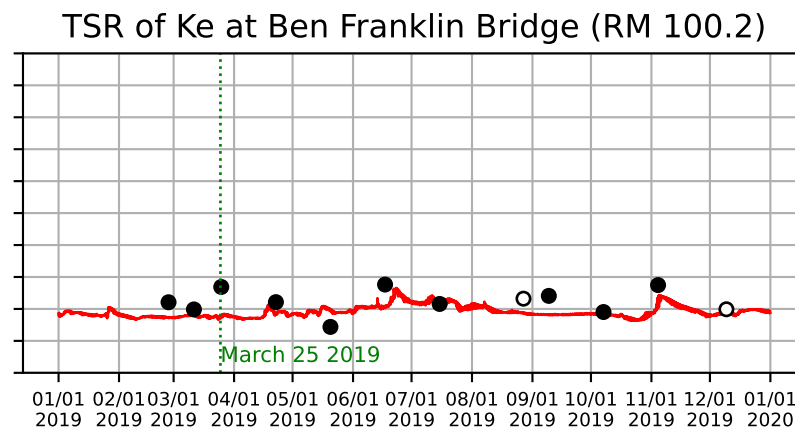
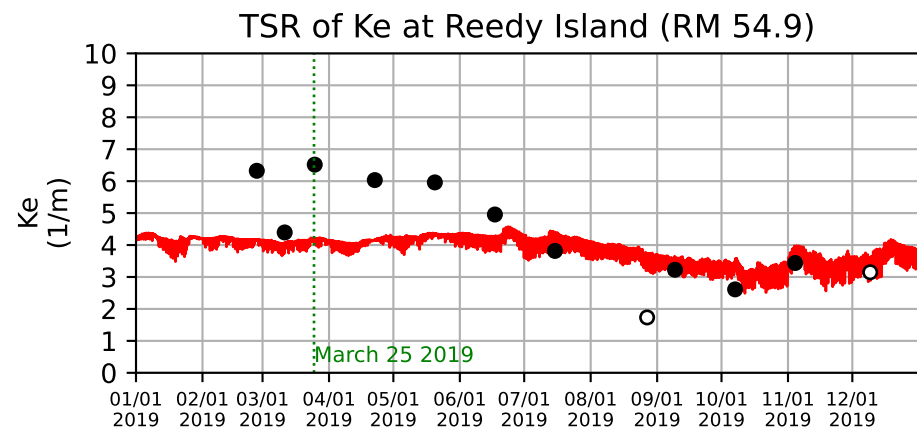
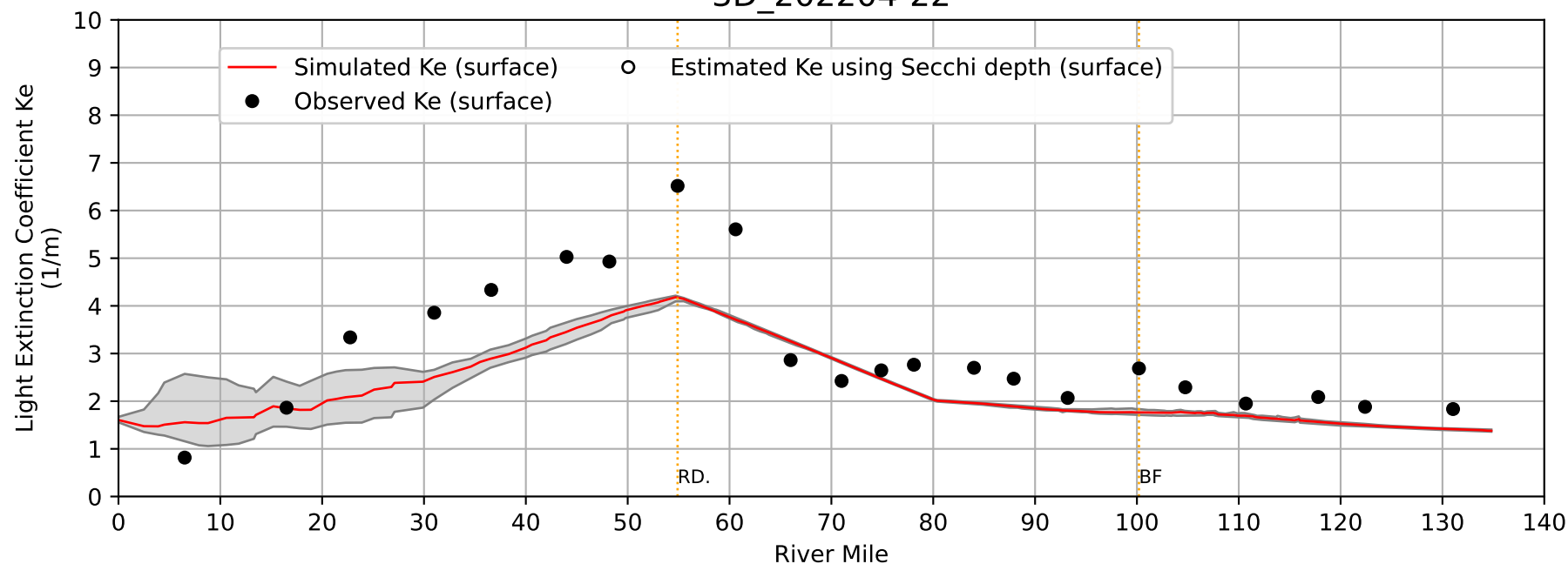
# Simulated and Observed Ke at Surface Layer. Sample Date: March 11 2019 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 03/11/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

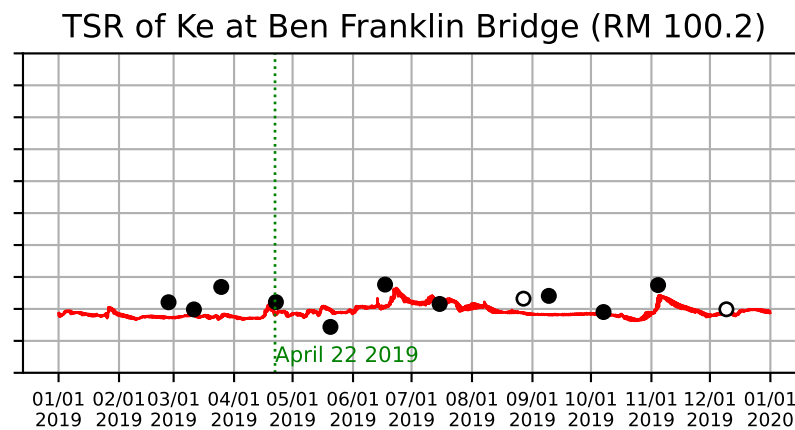
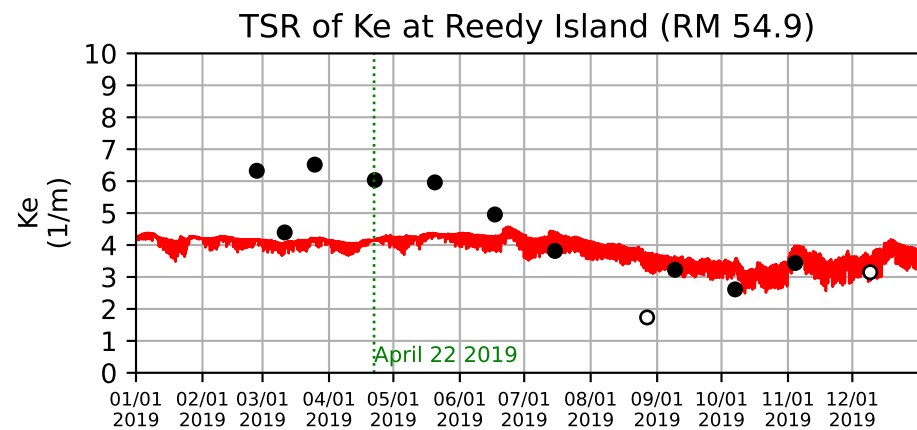
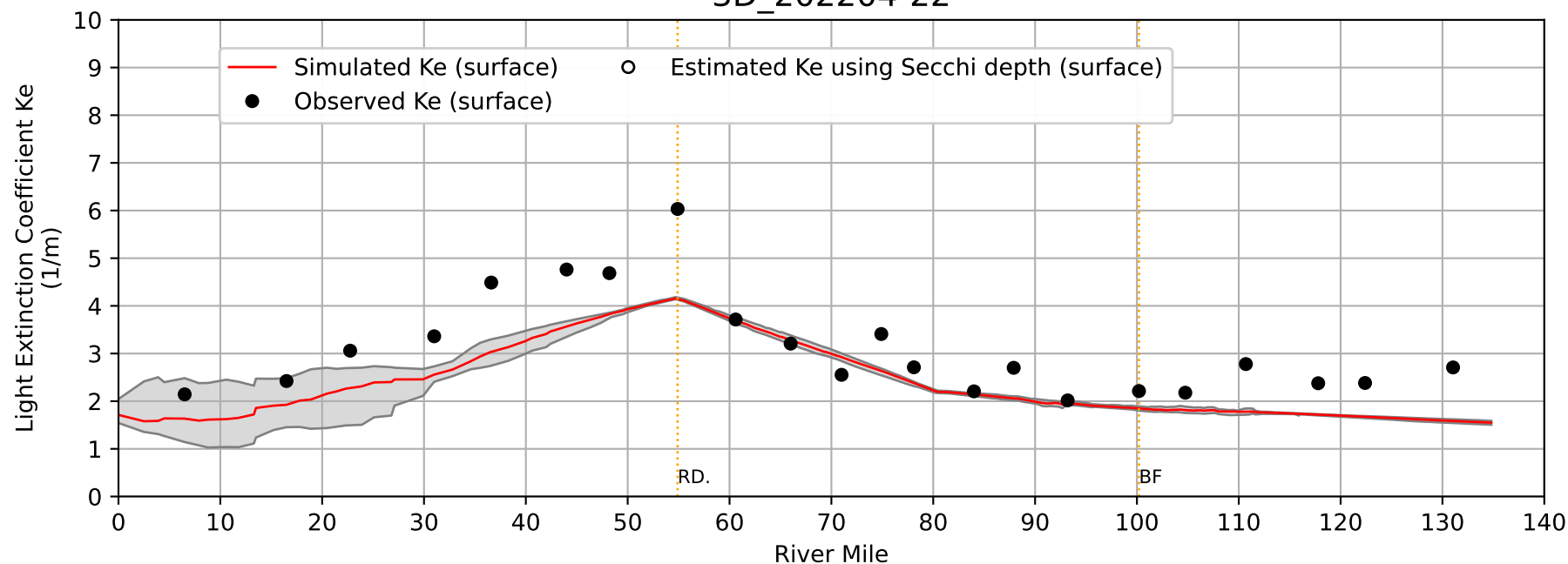
# Simulated and Observed Ke at Surface Layer. Sample Date: March 25 2019 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 03/25/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

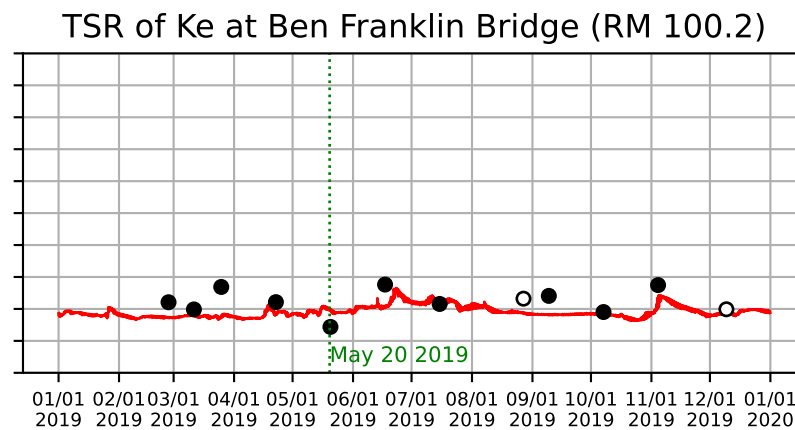
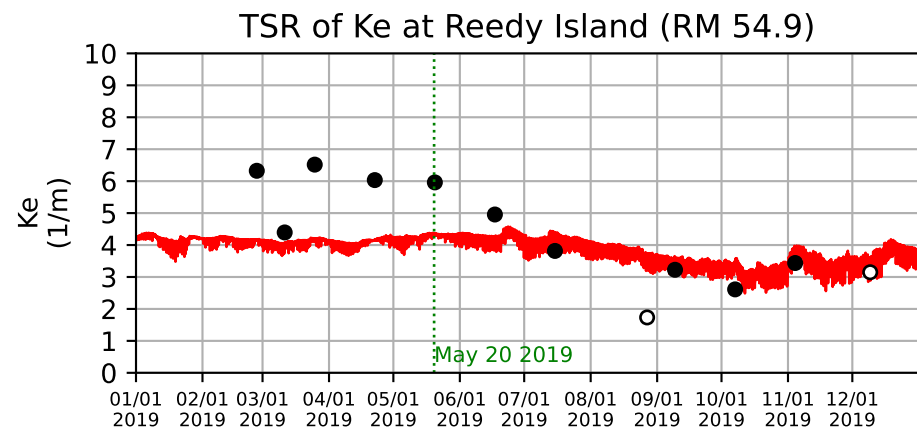
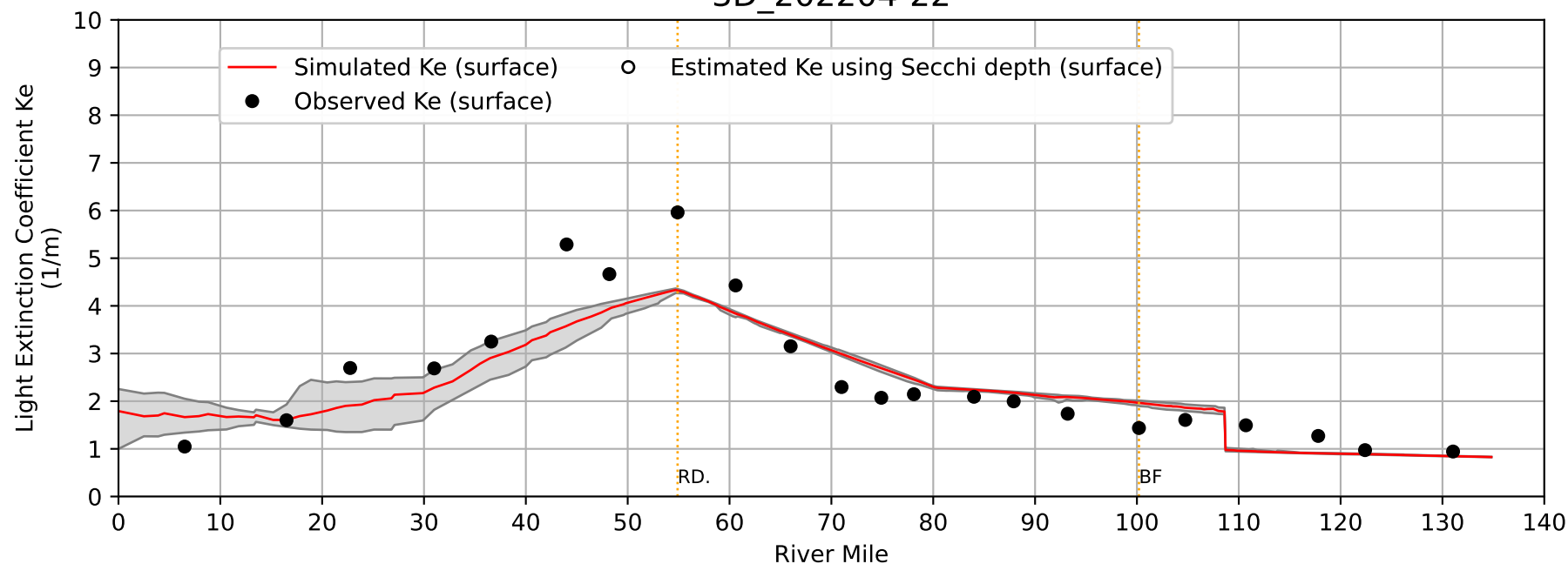
# Simulated and Observed Ke at Surface Layer. Sample Date: April 22 2019 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 04/22/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

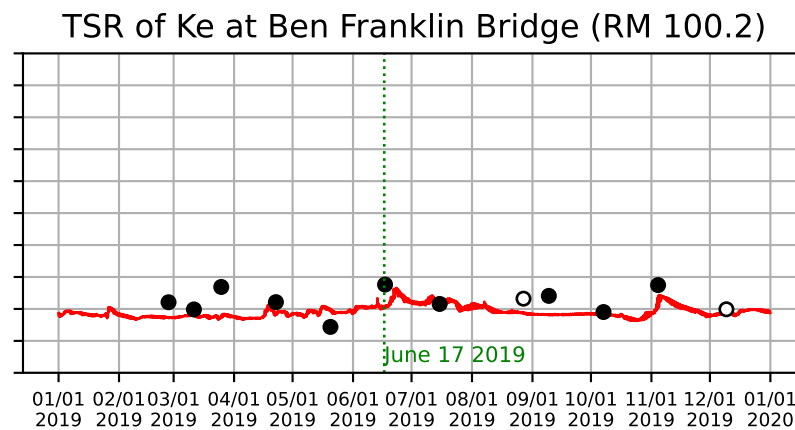
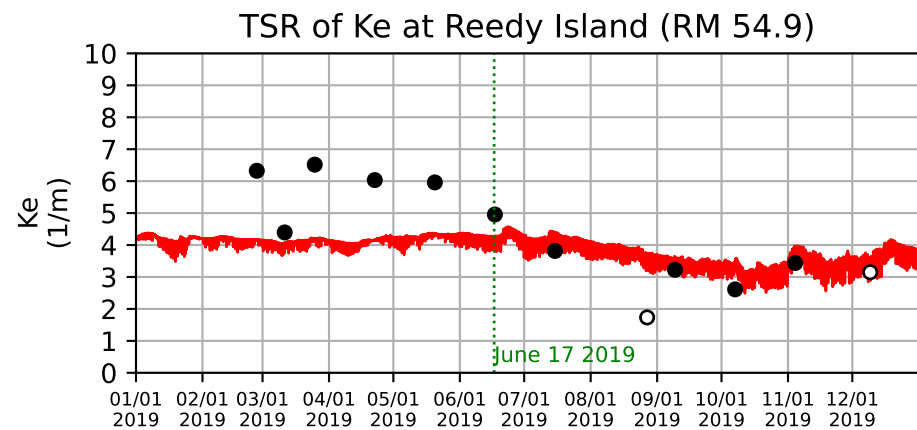
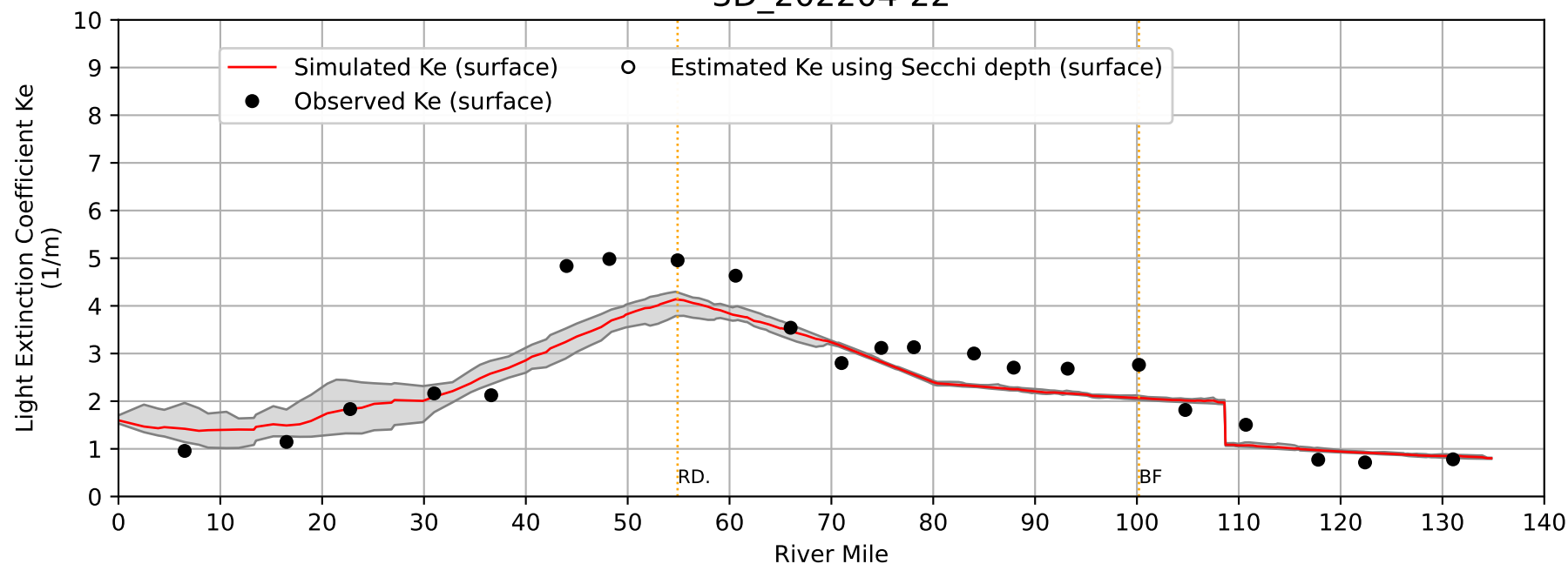
# Simulated and Observed Ke at Surface Layer. Sample Date: May 20 2019 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 05/20/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

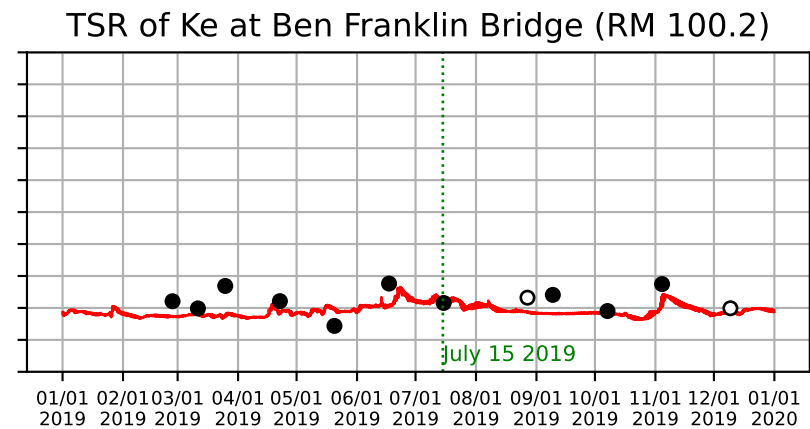
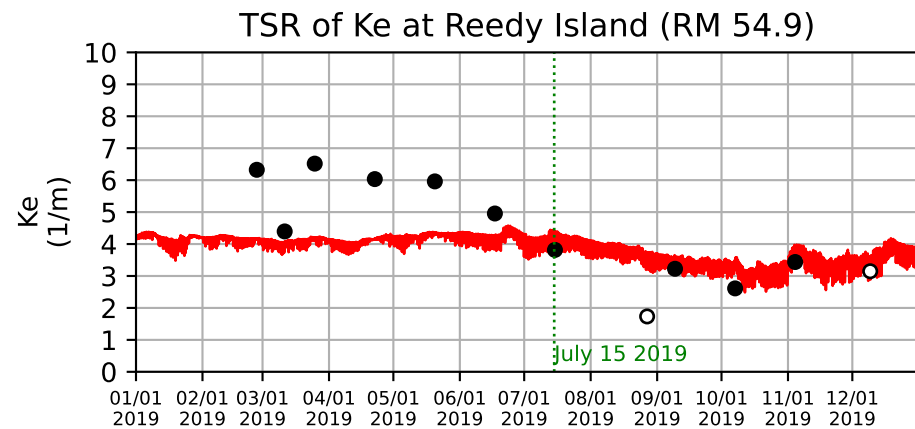
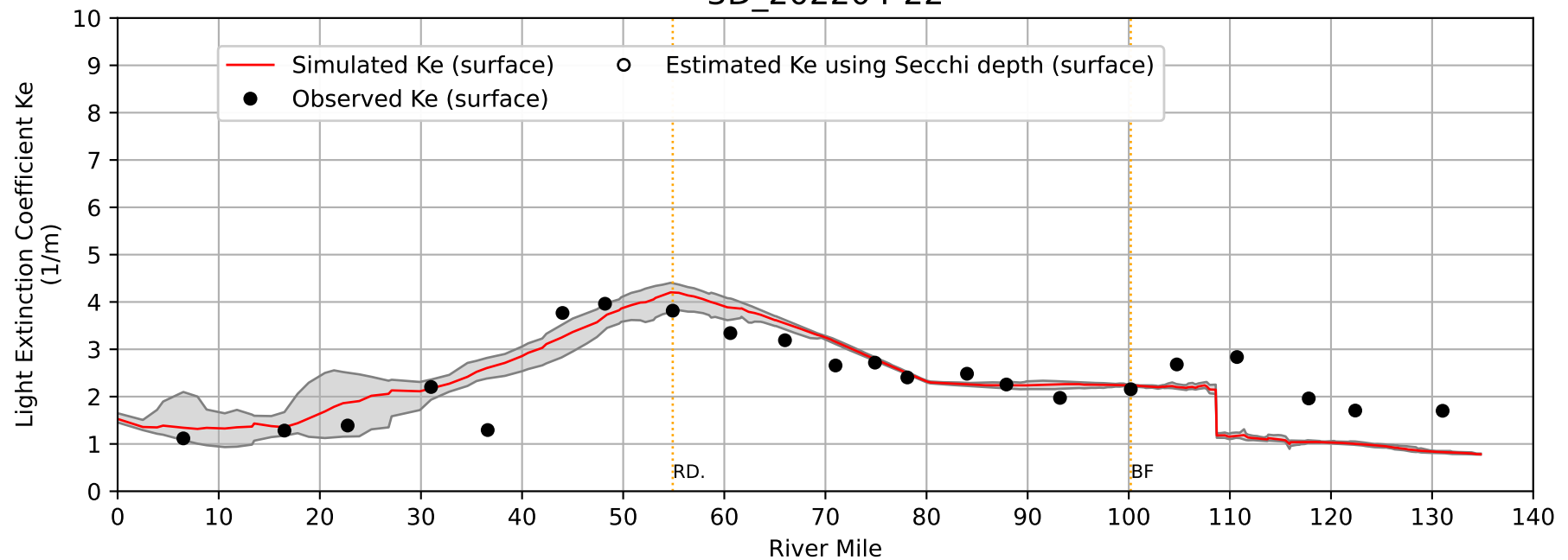
# Simulated and Observed Ke at Surface Layer. Sample Date: June 17 2019 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 06/17/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

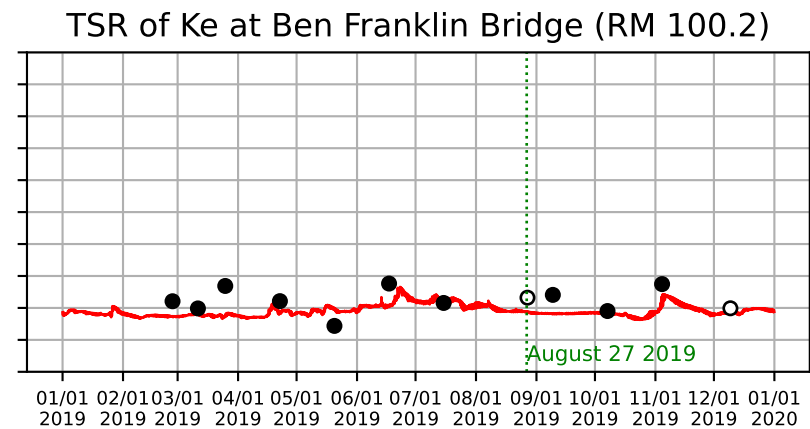
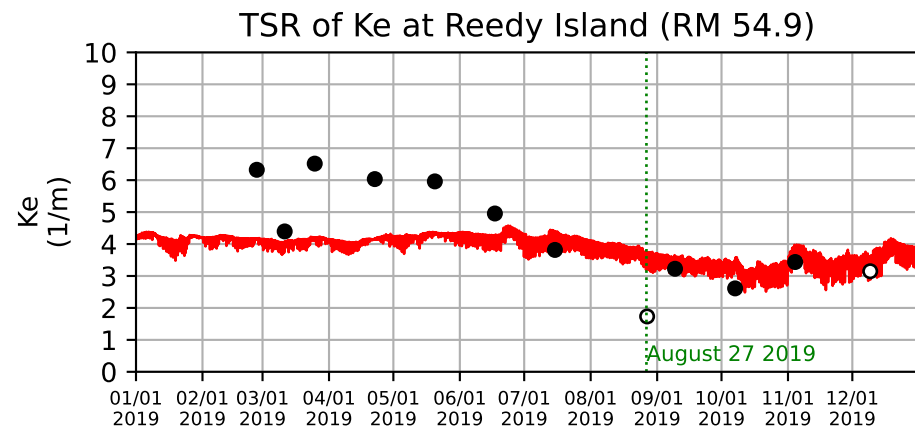
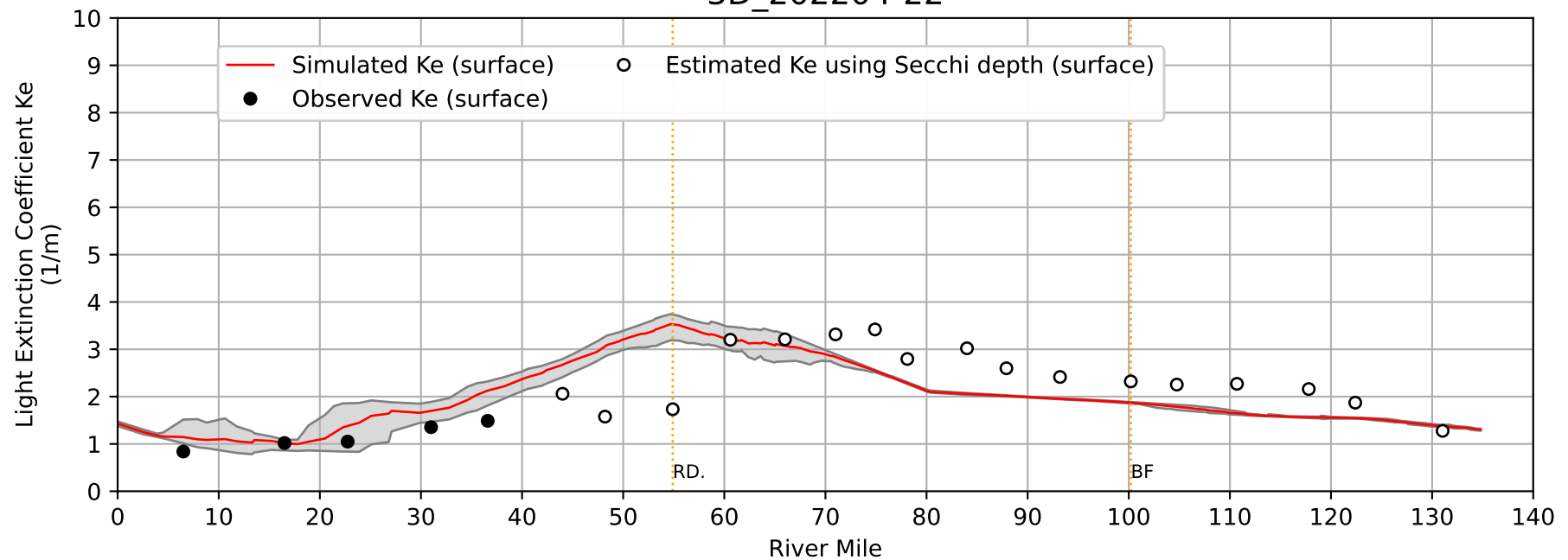
# Simulated and Observed Ke at Surface Layer. Sample Date: July 15 2019 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 07/15/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

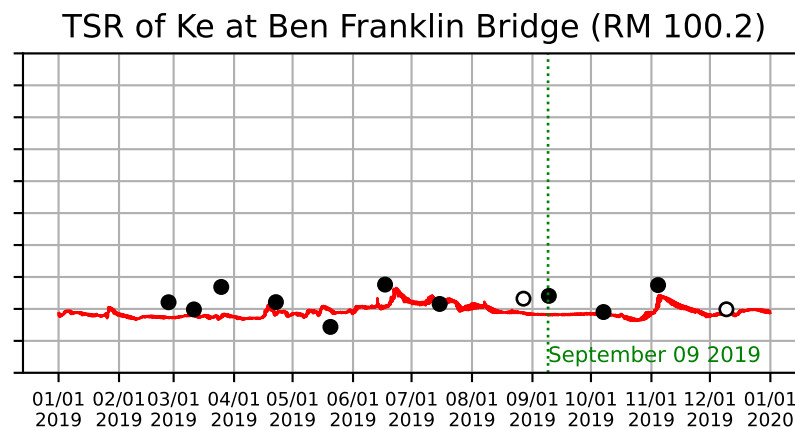
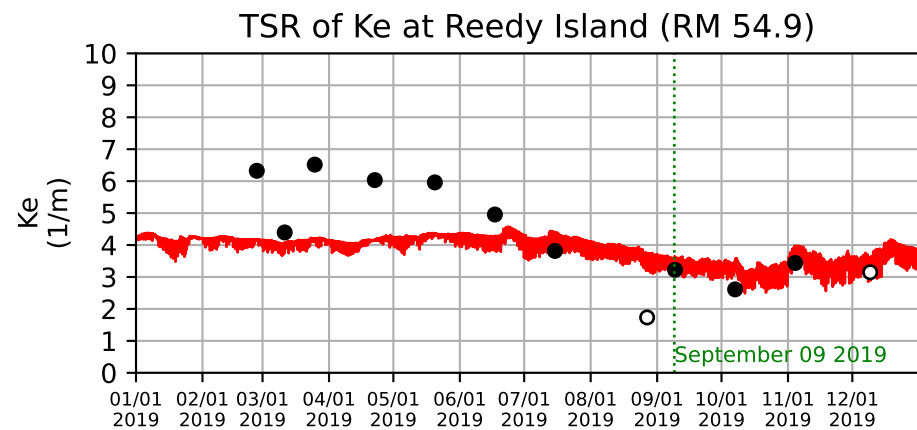
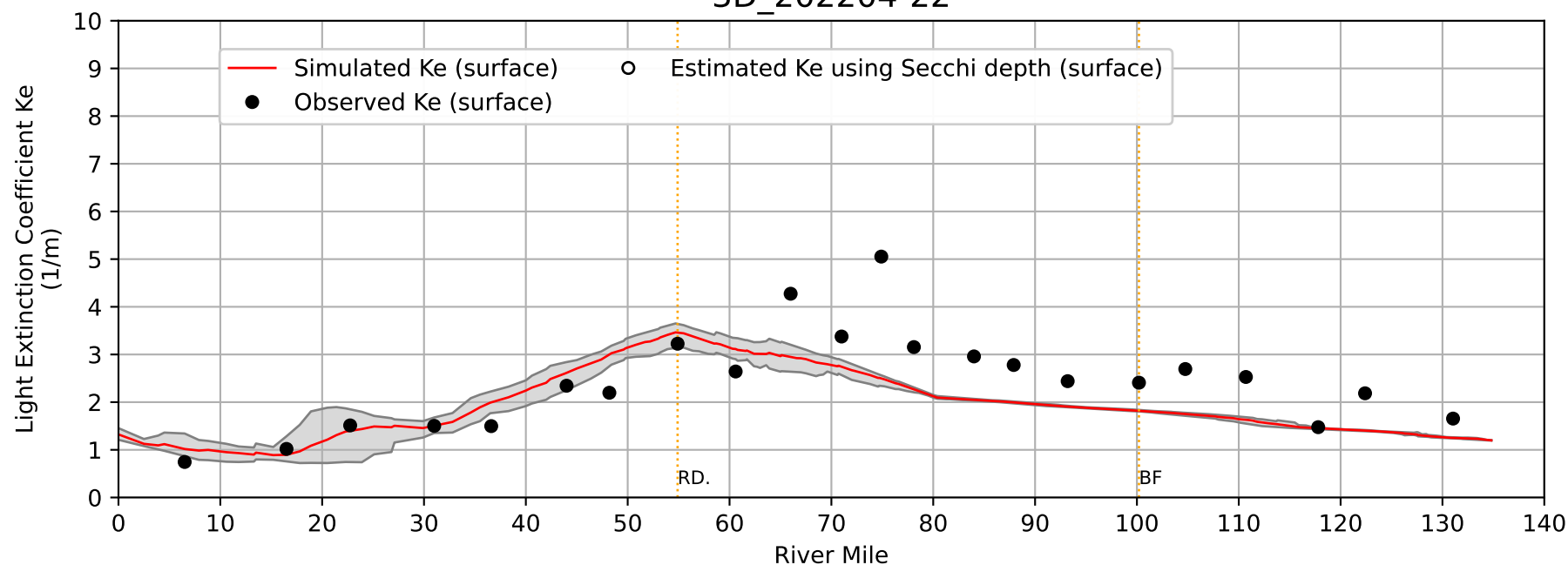
# Simulated and Observed Ke at Surface Layer. Sample Date: August 27 2019 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 08/27/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

# Simulated and Observed Ke at Surface Layer. Sample Date: September 09 2019 3D\_202204-22

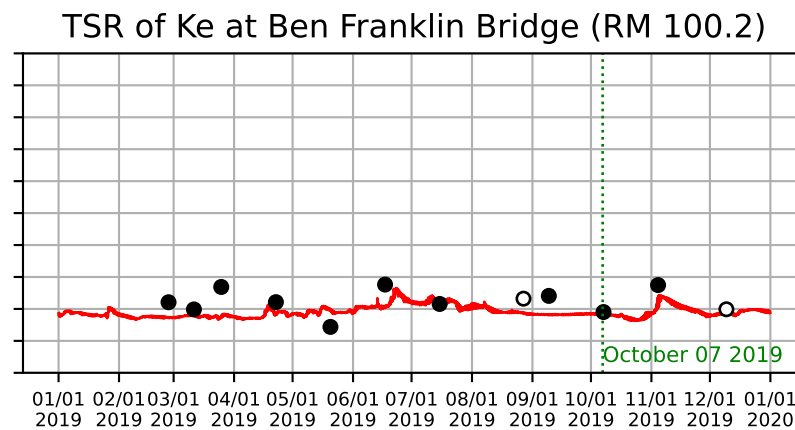
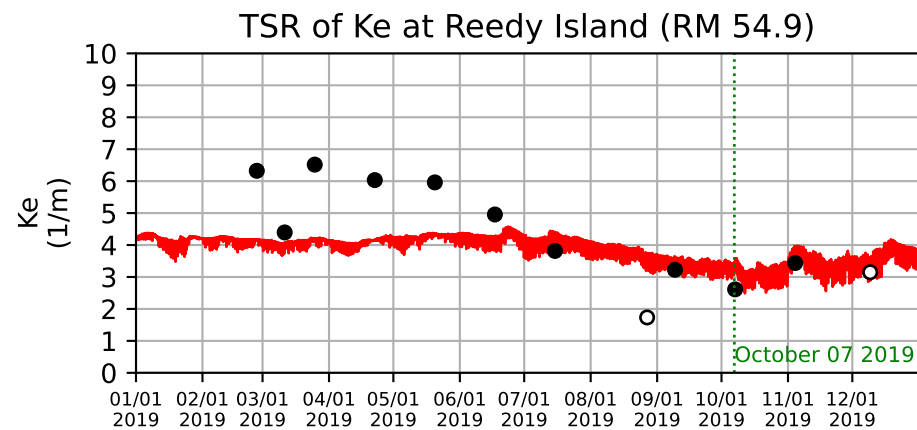
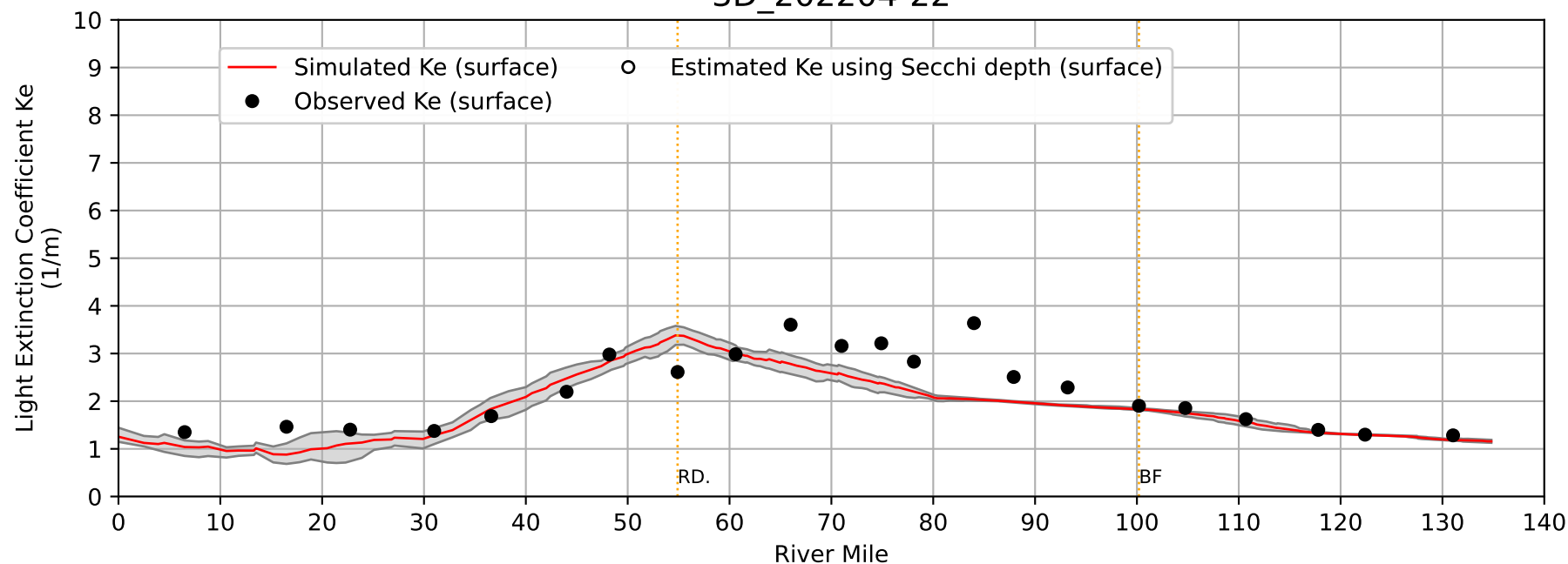


Simulated and Observed Light Extinction Coefficient  $K_e$   
 Model results from 09/09/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
 Run ID: 3D\_202204-22



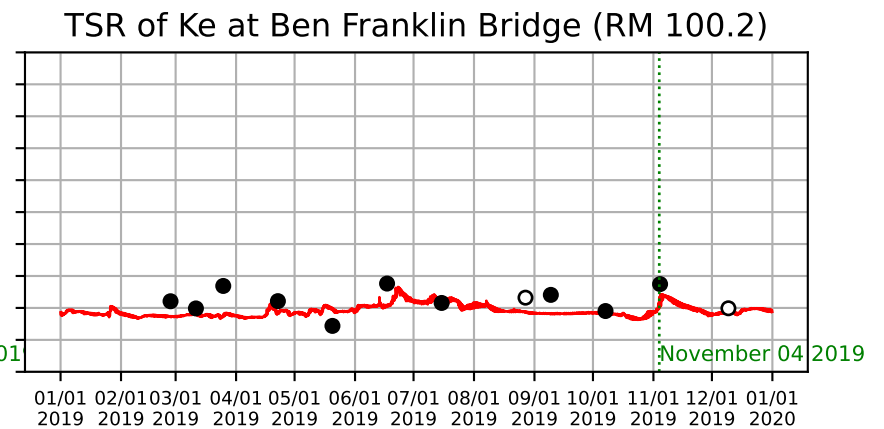
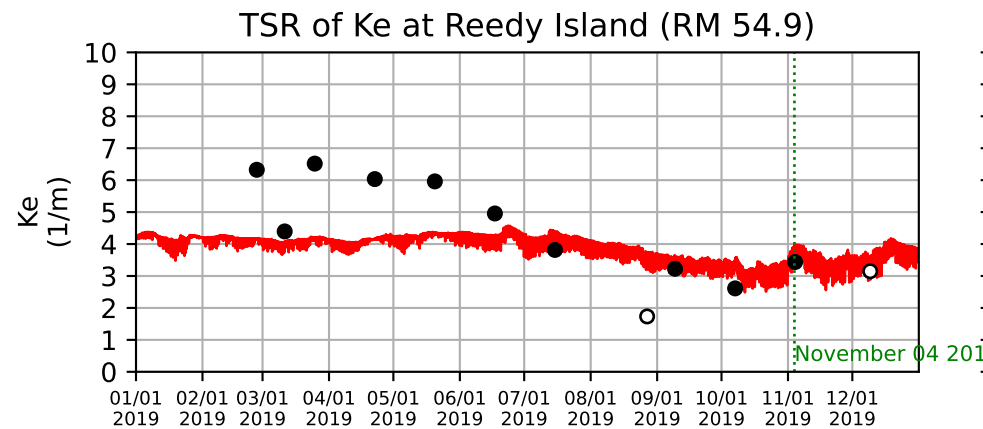
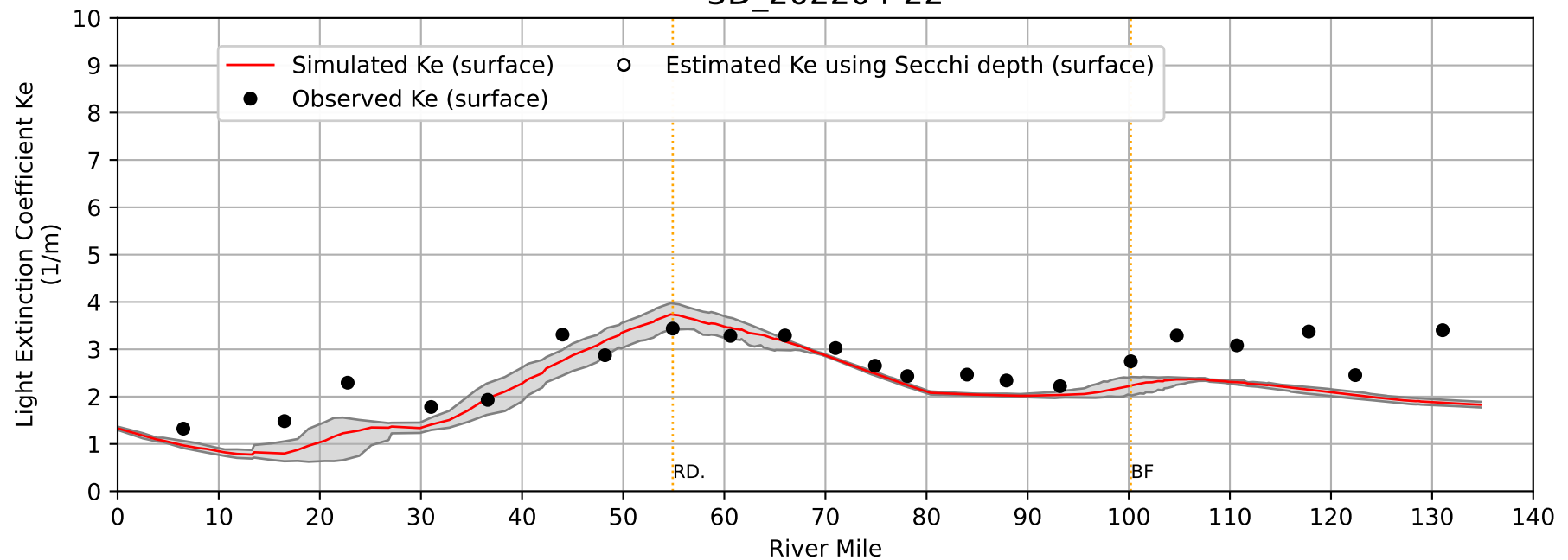
# Simulated and Observed Ke at Surface Layer. Sample Date: October 07 2019 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 10/07/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

# Simulated and Observed Ke at Surface Layer. Sample Date: November 04 2019 3D\_202204-22

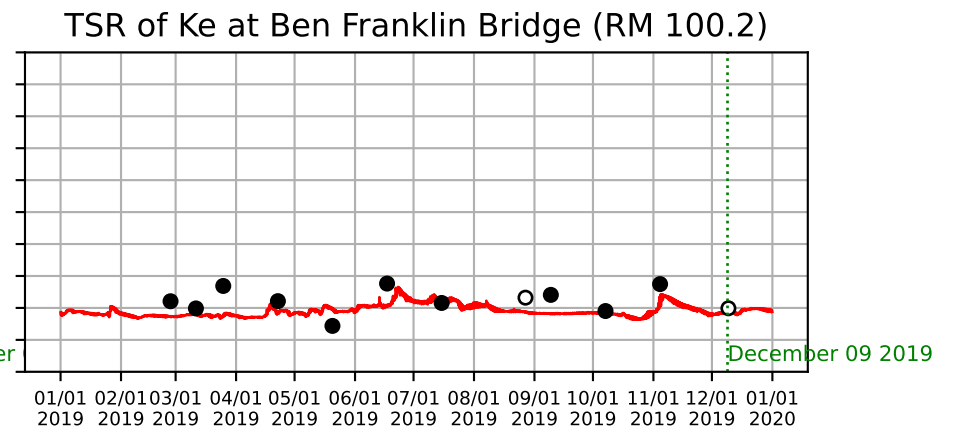
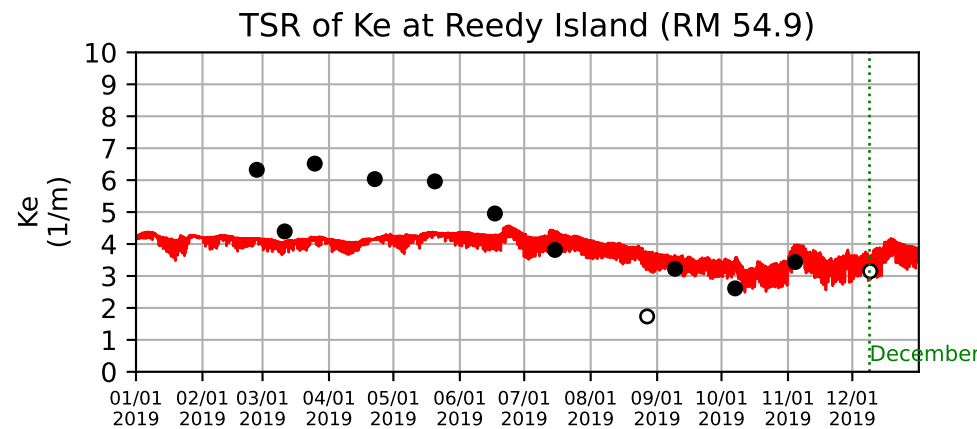
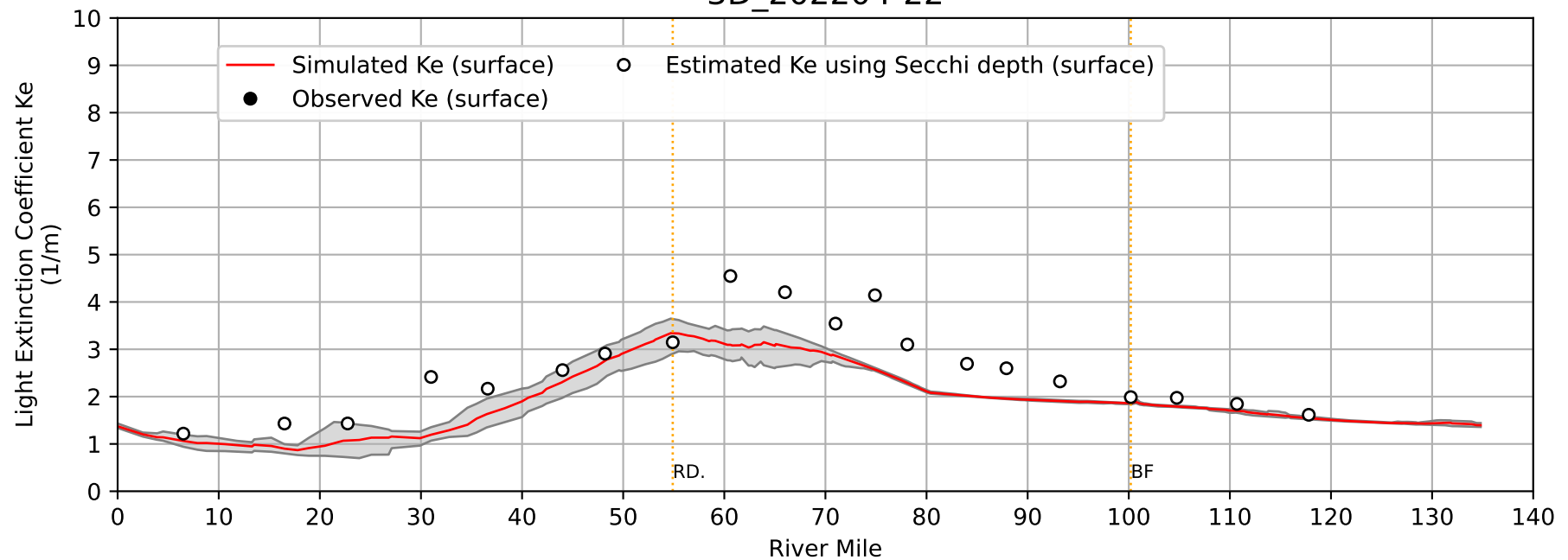


Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 11/04/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22



# Simulated and Observed Ke at Surface Layer. Sample Date: December 09 2019 3D\_202204-22



Simulated and Observed Light Extinction Coefficient  $K_e$   
Model results from 12/09/2019 were used in this analysis.

Note: gray-shaded area represent the range of the simulated  $K_e$ .  
Run ID: 3D\_202204-22

