FIGURES

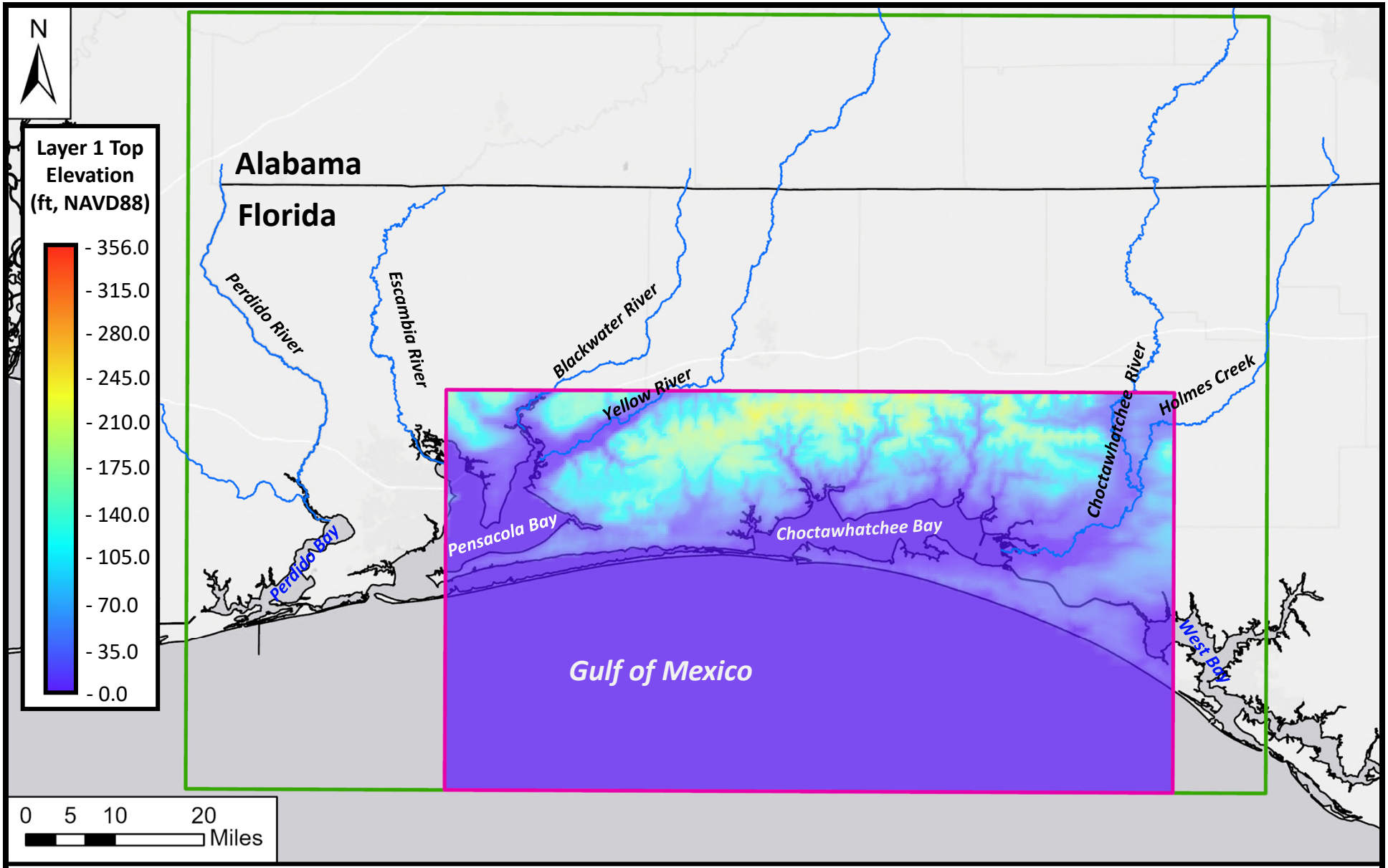

Figure 1 – Model domains, major rivers, Layer 1 topography, and coastal waterbodies.

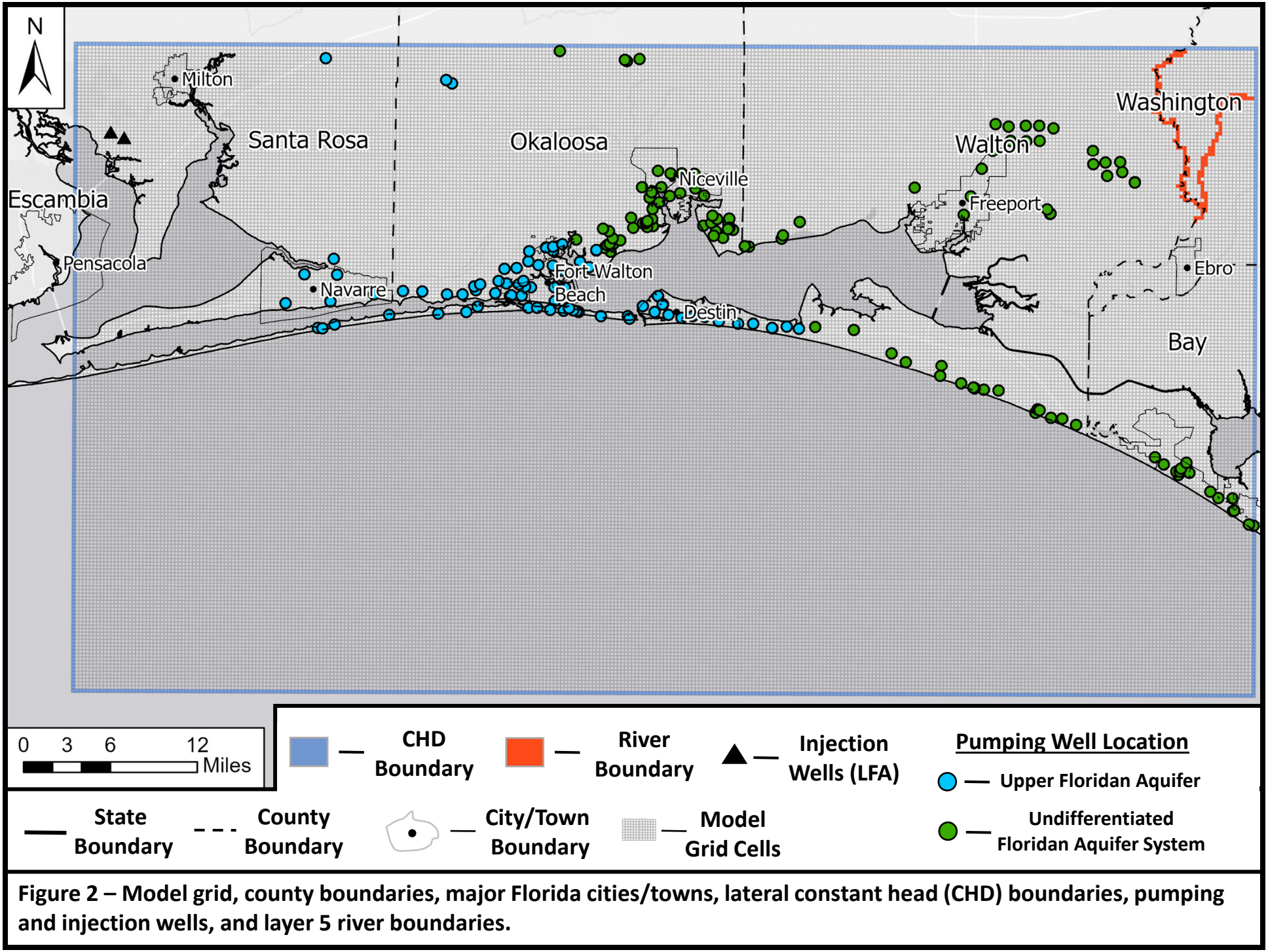

Figure 2 – Model grid, county boundaries, major Florida cities/towns, lateral constant head (CHD) boundaries, pumping and injection wells, and layer 5 river boundaries.

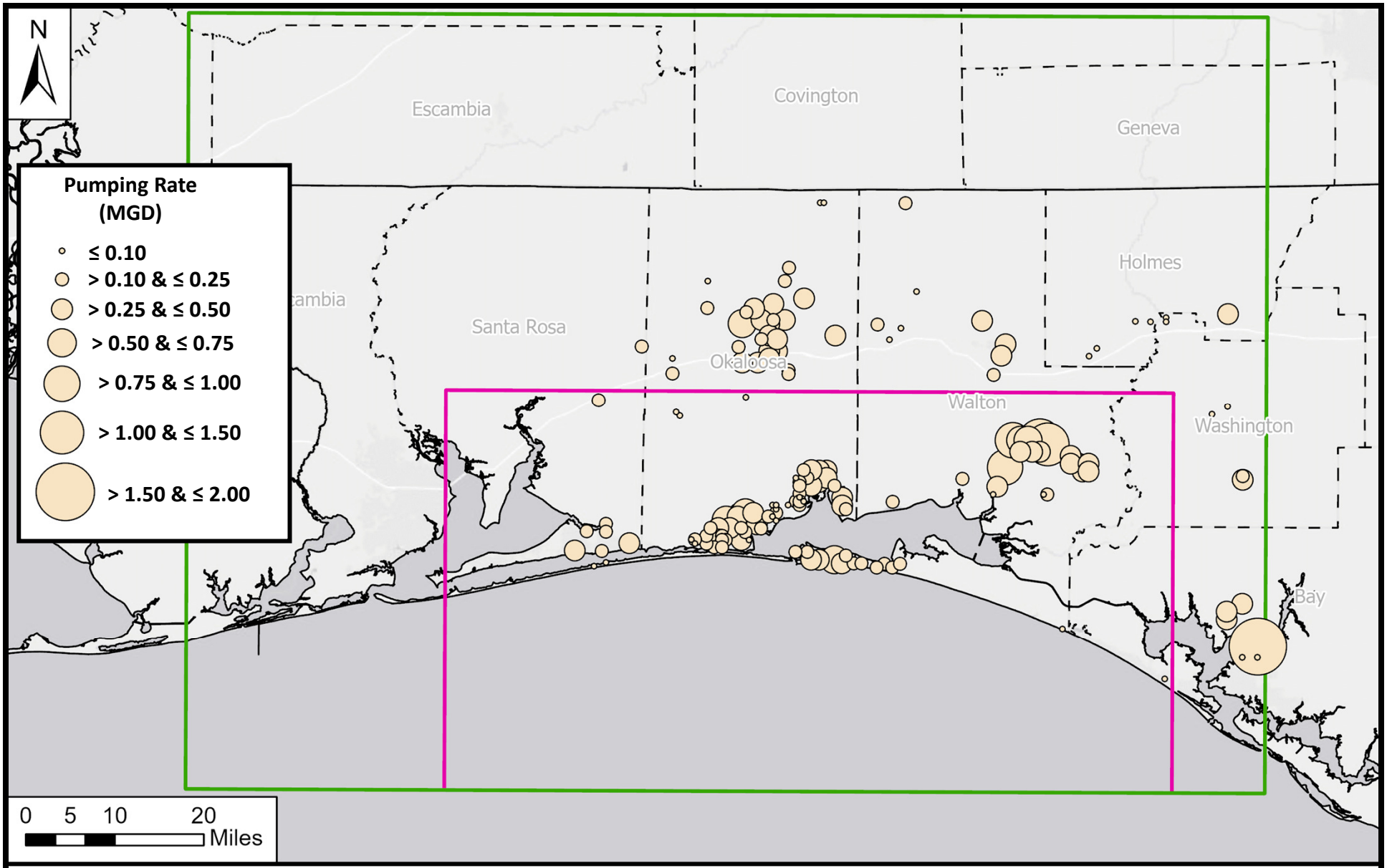

Figure 3 – Pumping rates in millions of gallon per day (MGD) at wells within the Upper Floridan Aquifer for year 2015.

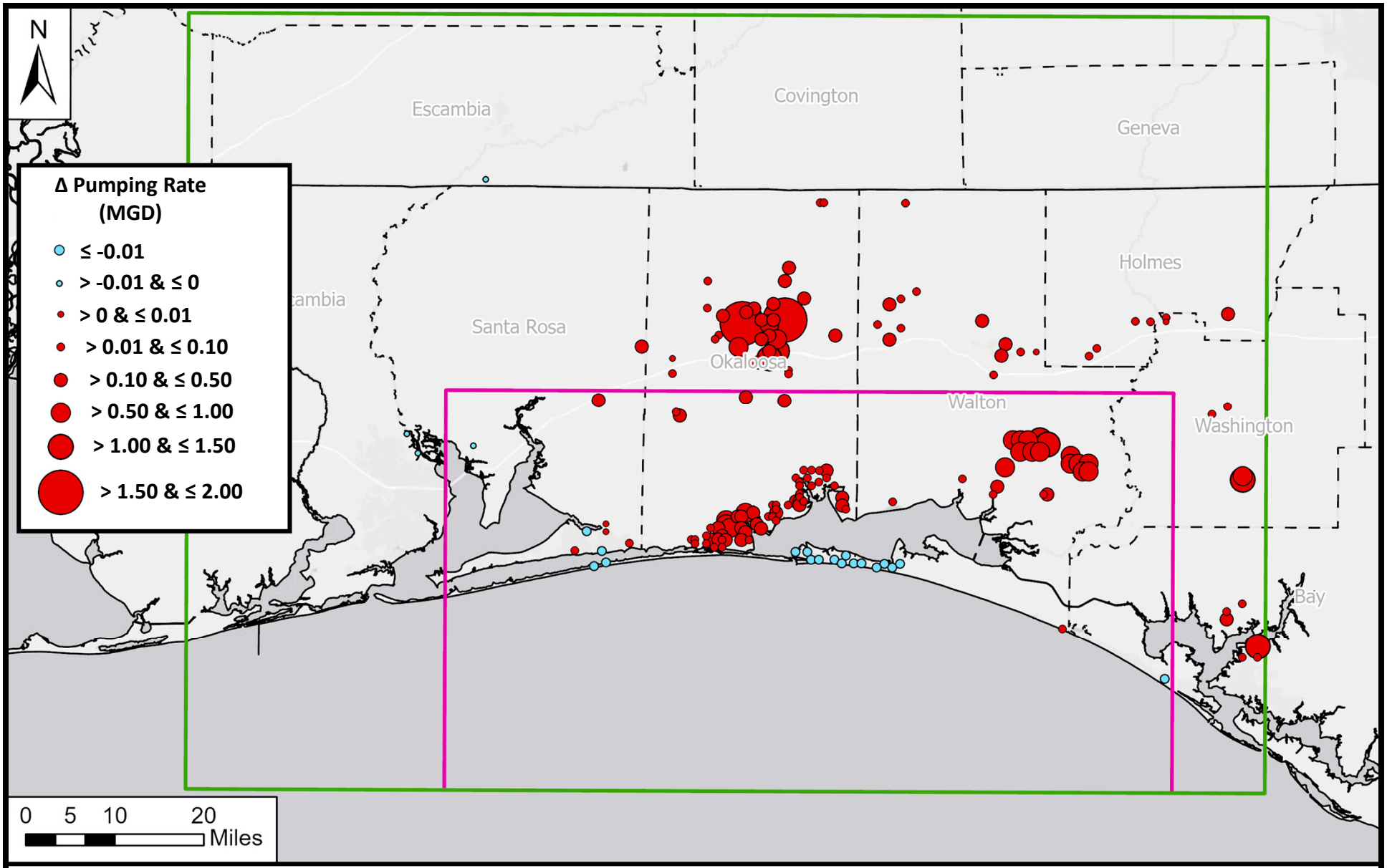

Figure 4 – Change in pumping rates in millions of gallons per day (MGD) at wells within the Upper Floridan Aquifer from year 2015 to 2040 under predictive scenario 1.

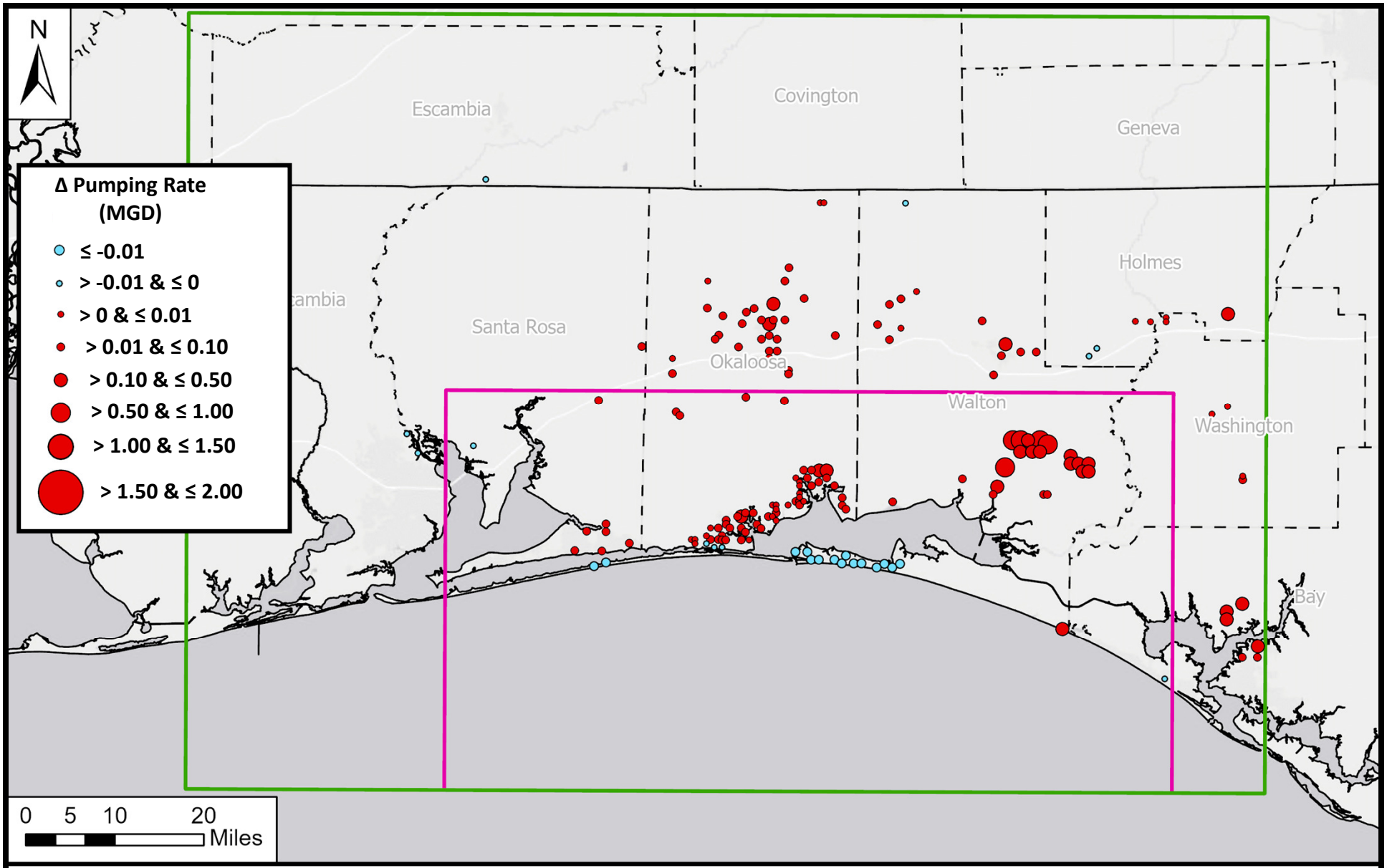

Figure 5 – Change in pumping rates in millions of gallons per day (MGD) at wells within the Upper Floridan Aquifer from year 2015 to 2040 under predictive scenario 2.

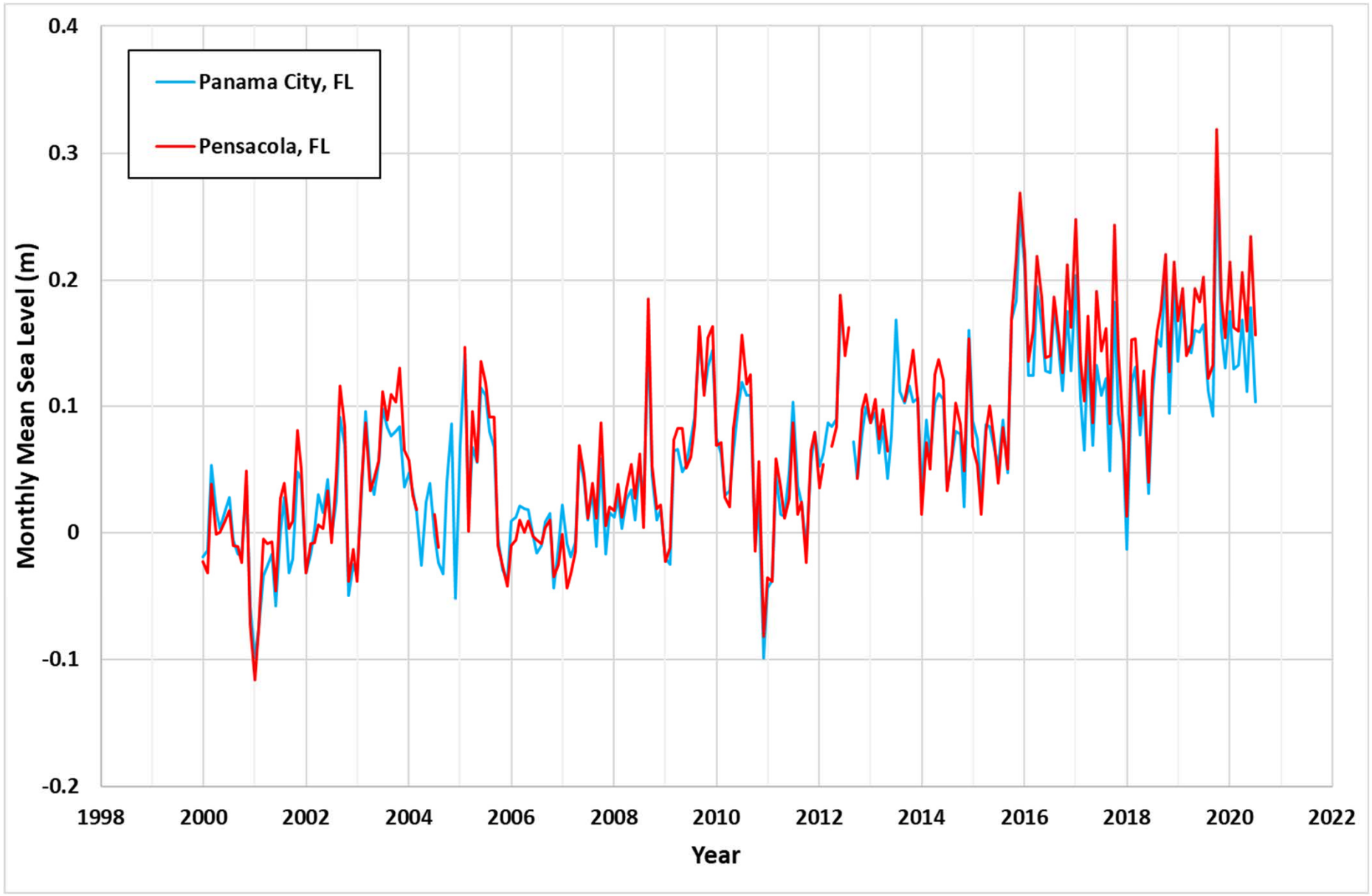

Figure 6 – Monthly mean sea level observations at two Region II measurement stations (2000-2020).

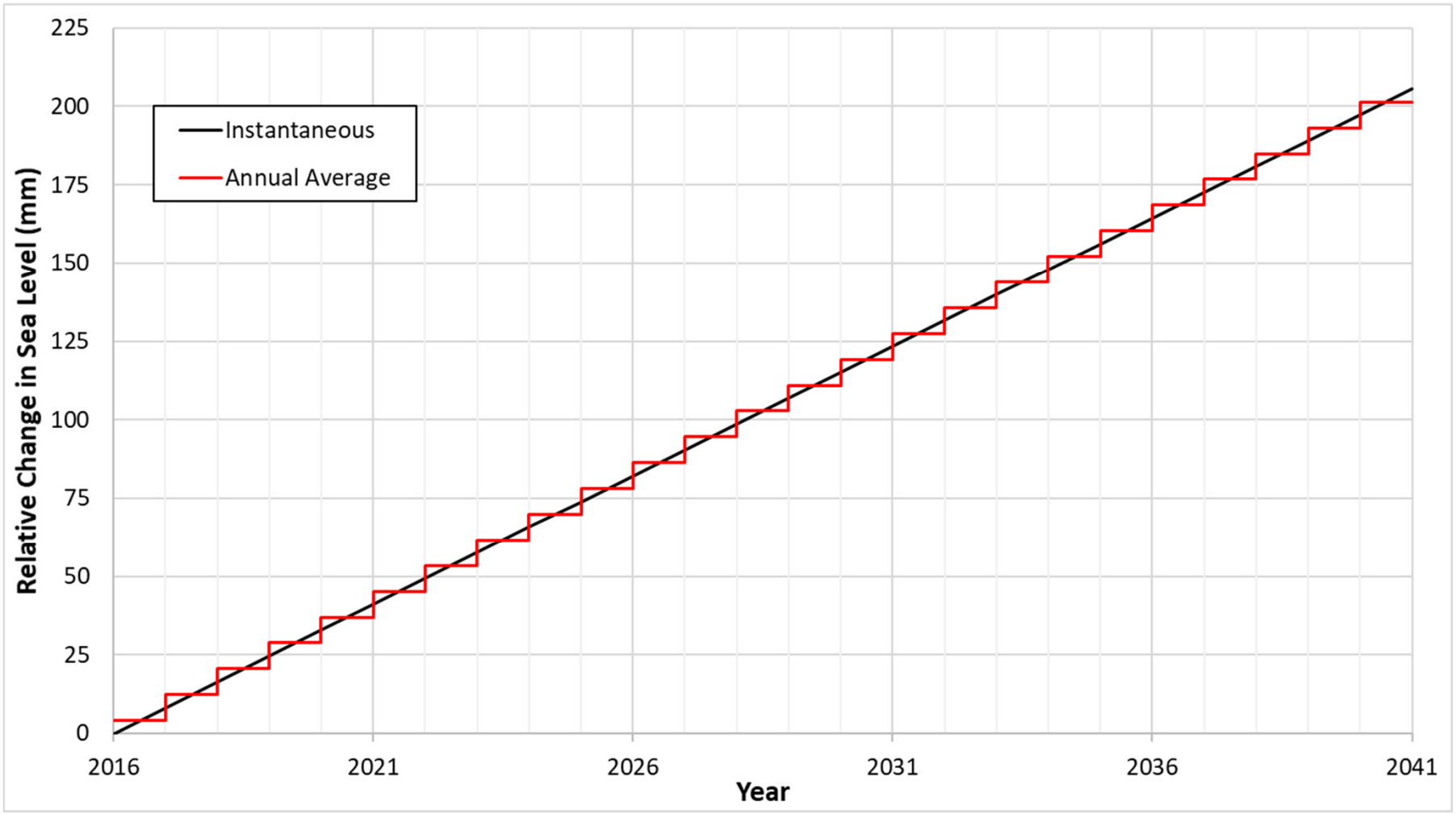

Figure 7 – Projected change in mean sea level in Scenario 3.

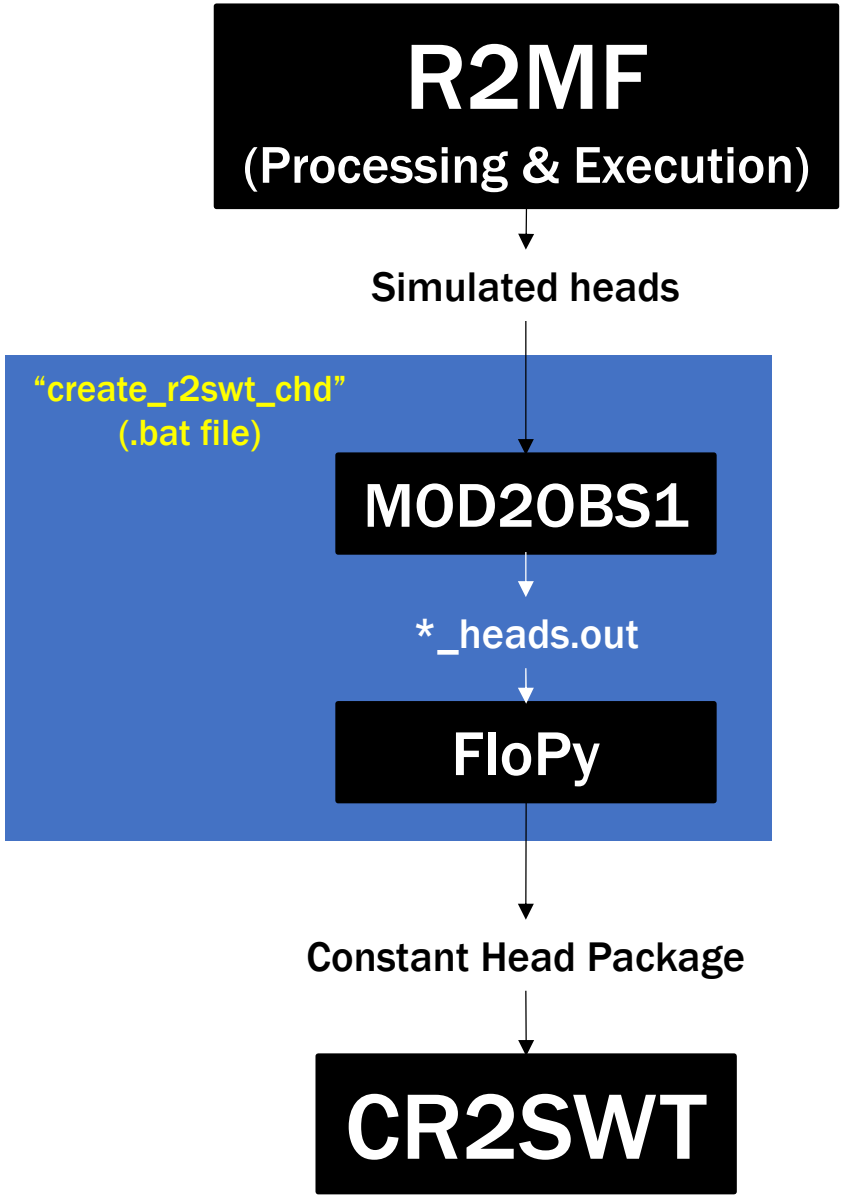

Figure 8 – Overview of information flow between FloPy and the predictive R2MF and CR2SWT models.

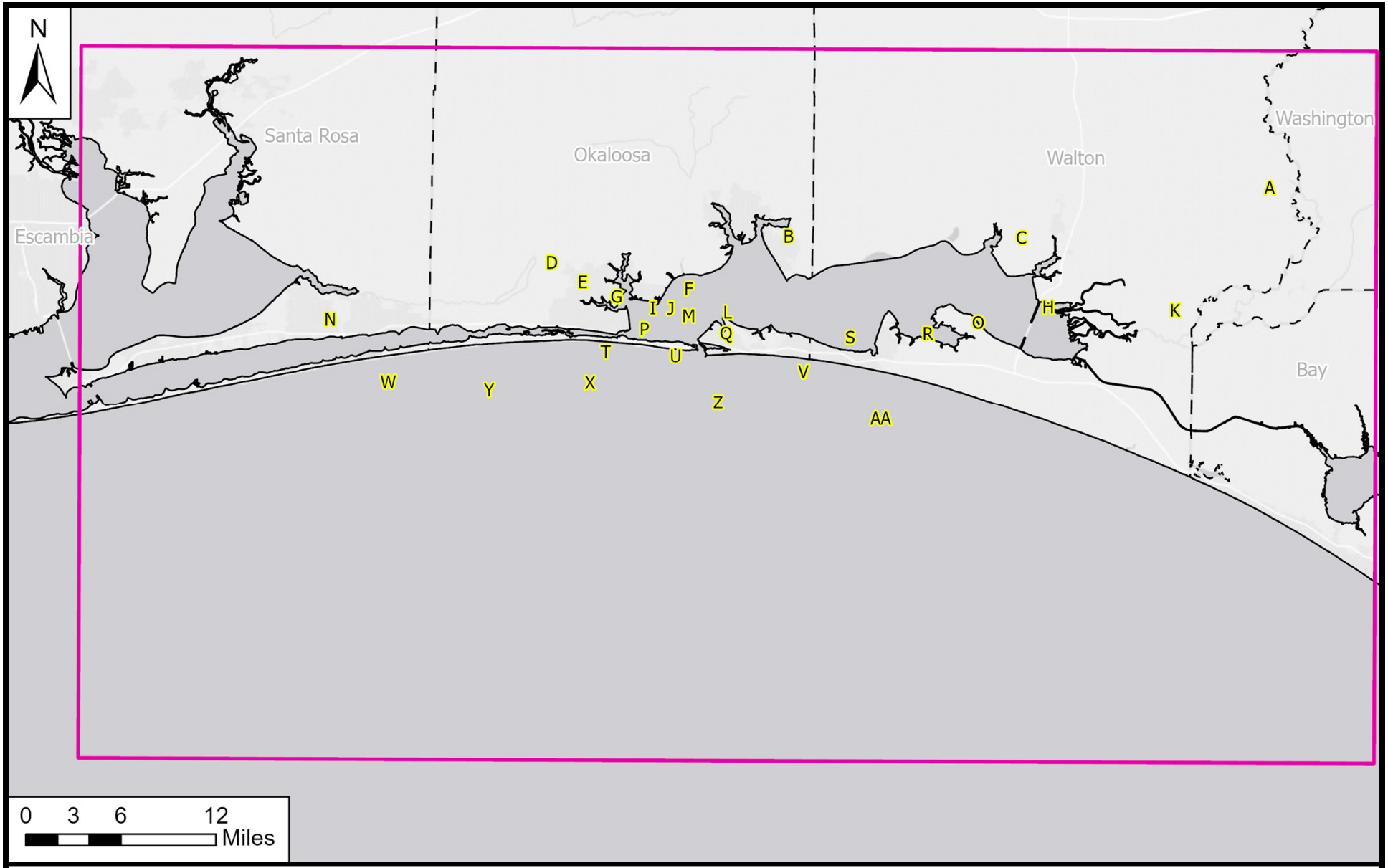

Figure 9 – Selected flow/seepage velocity locations and corresponding indices (A to AA).

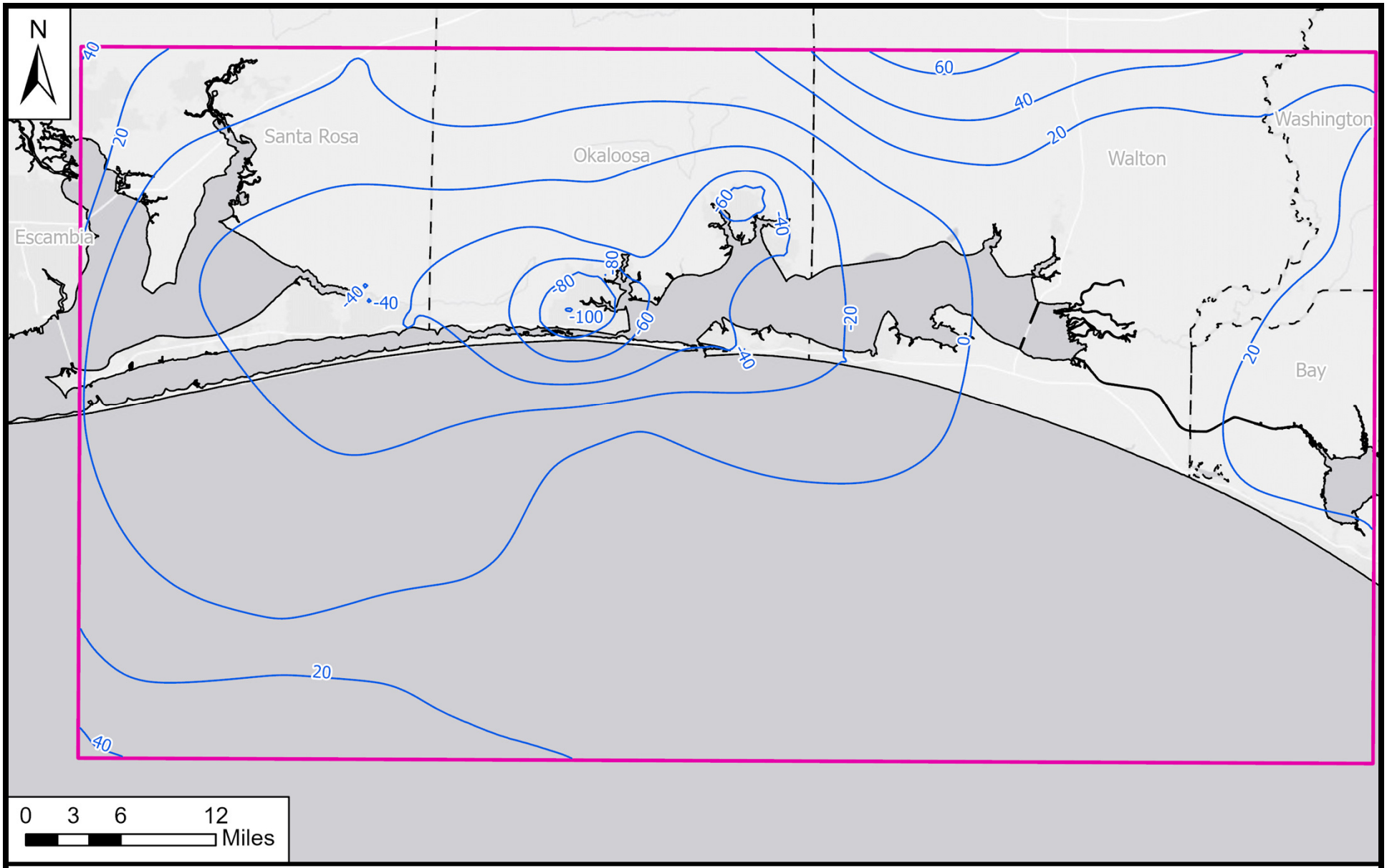

Figure 10 – Simulated equivalent freshwater head contours in the Upper Floridan Aquifer (layer 7) for year 2015.

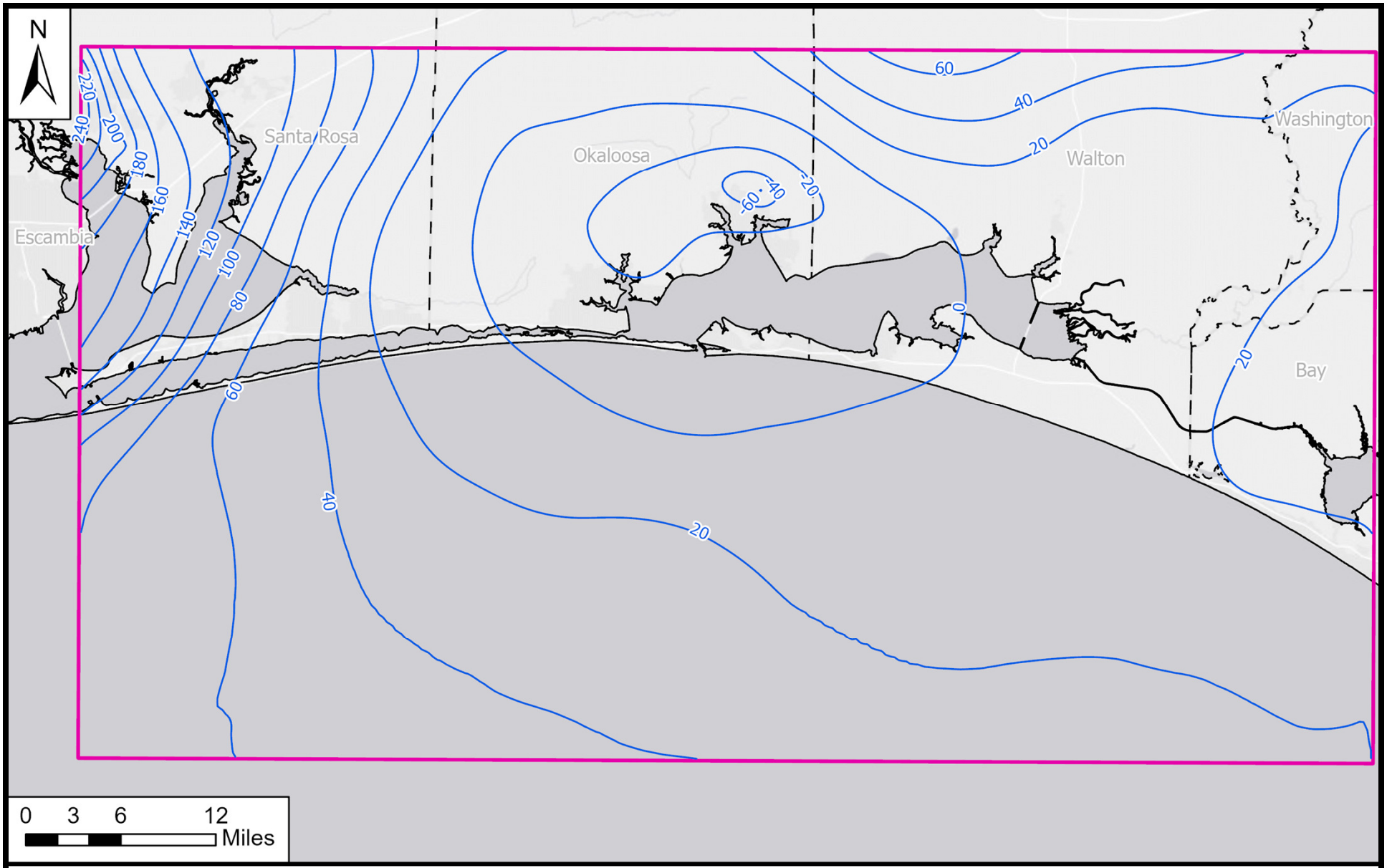

Figure 11 – Simulated equivalent freshwater head contours in the Lower Floridan Aquifer (layer 15) for year 2015.

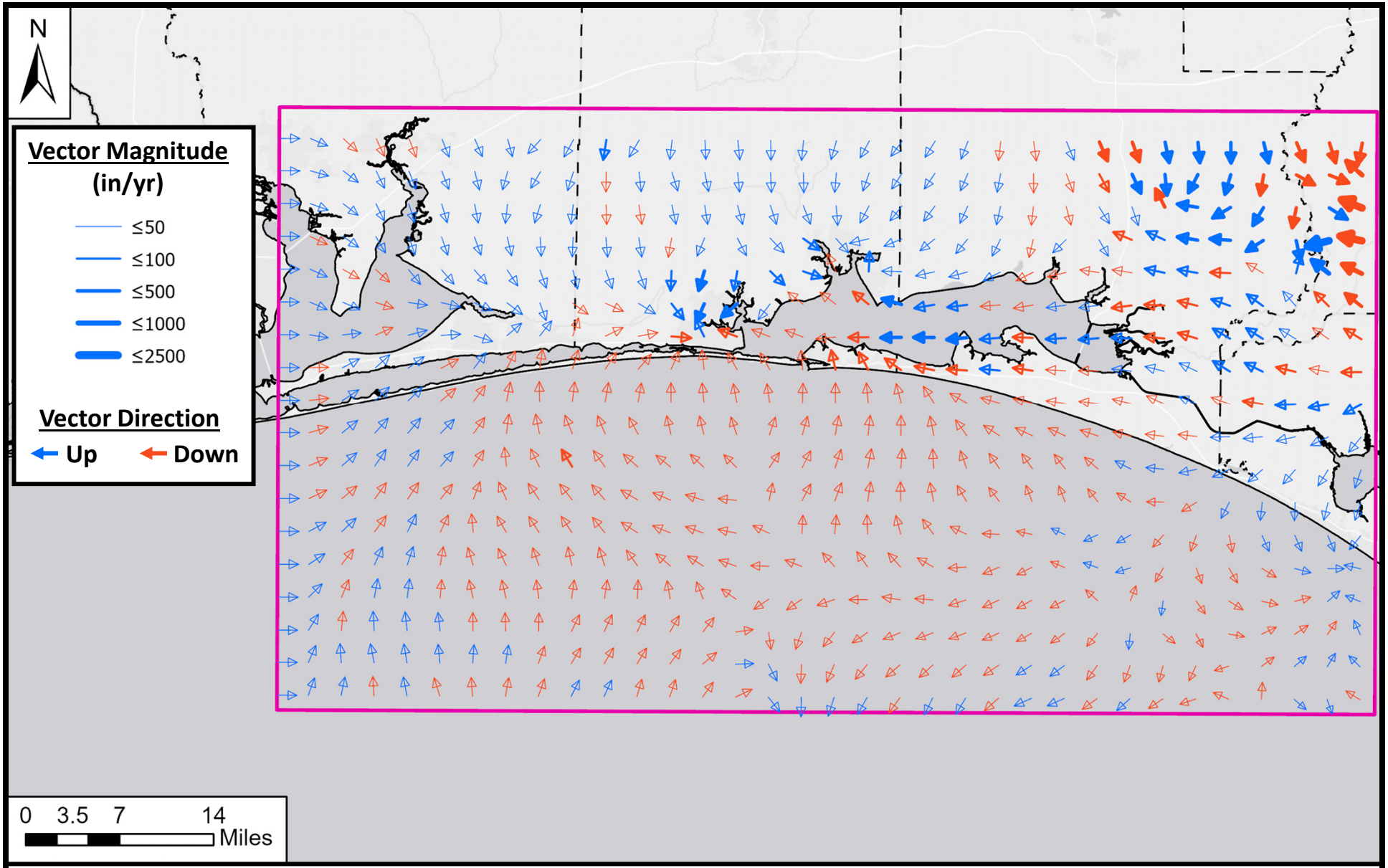

Figure 12 – Flow velocity vectors in the Upper Floridan Aquifer (layer 7) for year 2015. Blue arrows indicate the vertical component of the vector is upward, and red arrows indicate the vertical component is downward.

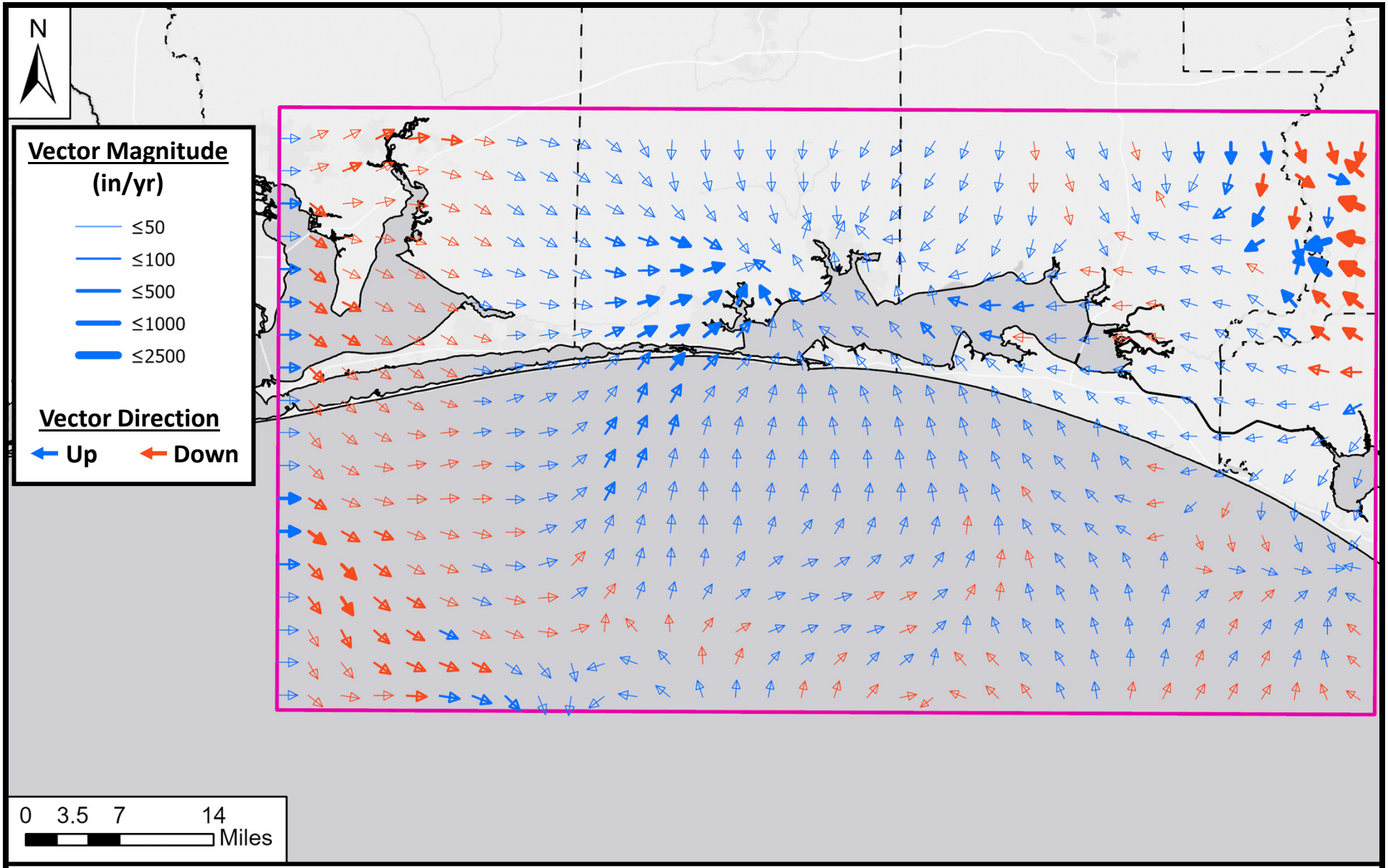

Figure 13 – Flow velocity vectors in the Lower Floridan Aquifer (layer 15) for year 2015. Blue arrows indicate the vertical component of the vector is upward, and red arrows indicate the vertical component is downward.

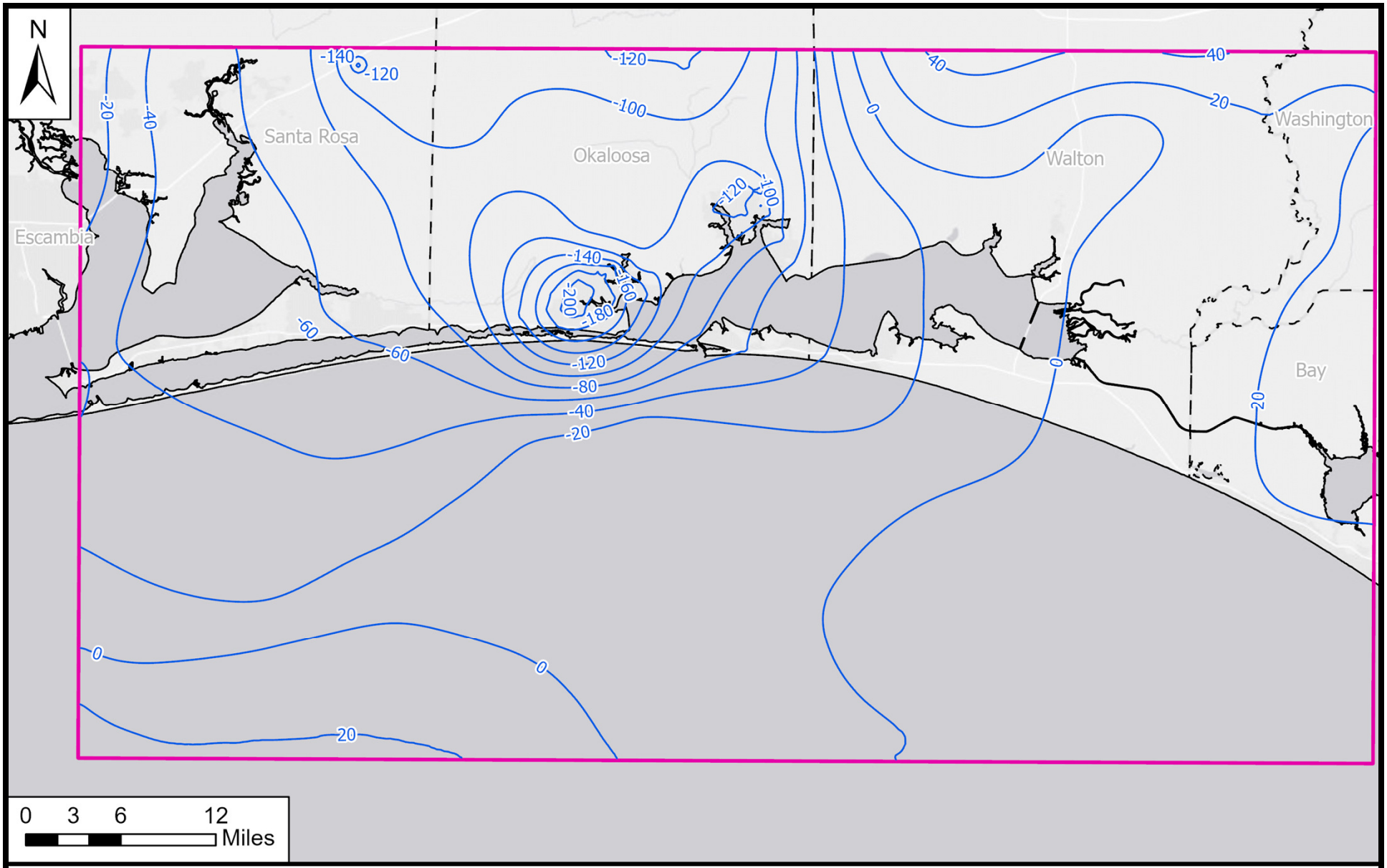

Figure 14 – Predictive scenario 1 simulated equivalent freshwater head contours in the Upper Floridan Aquifer (layer 7) for year 2040.

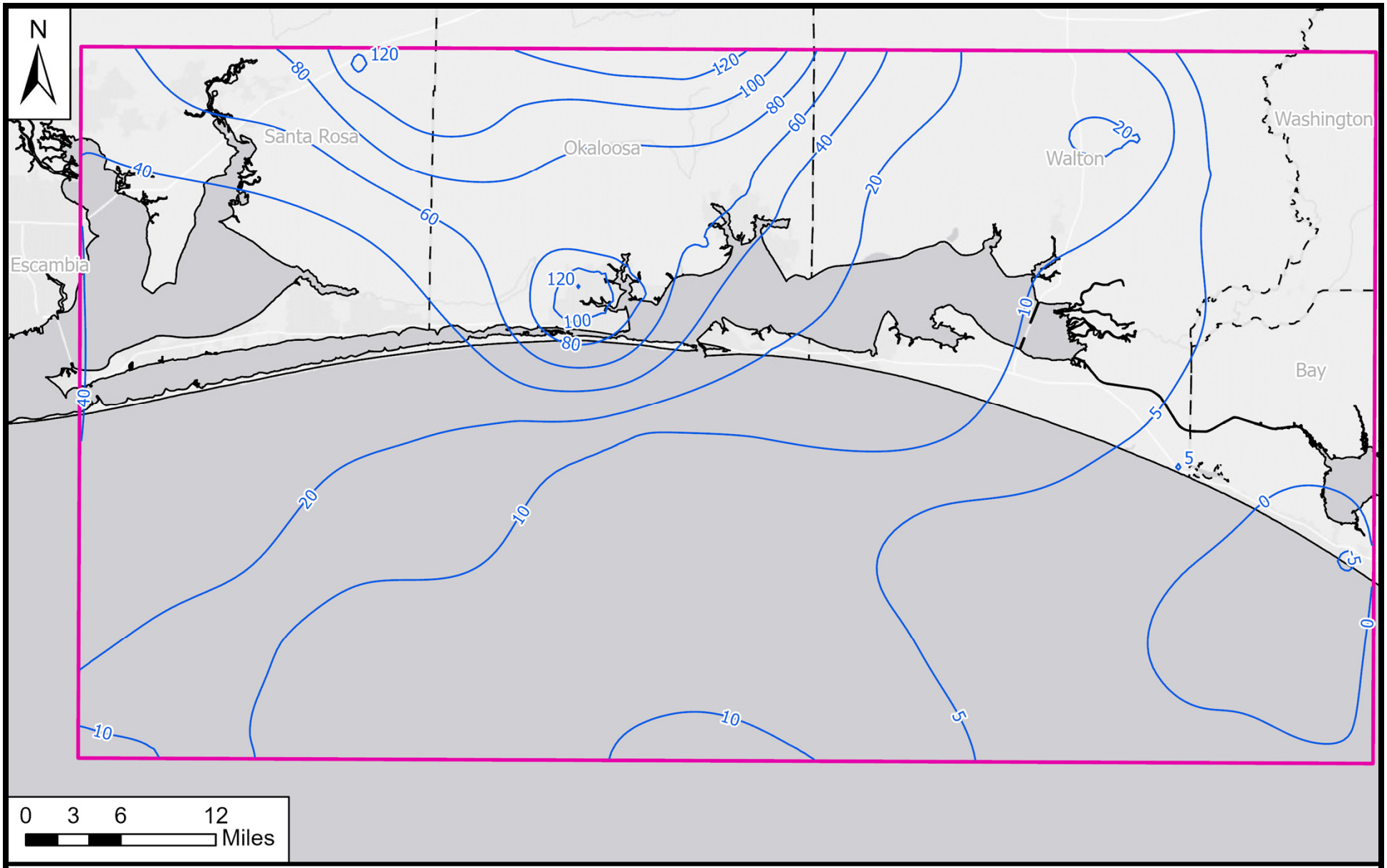

Figure 15 – Predictive scenario 1 equivalent freshwater head drawdown contours in the Upper Floridan Aquifer (layer 7) from year 2015 to 2040.

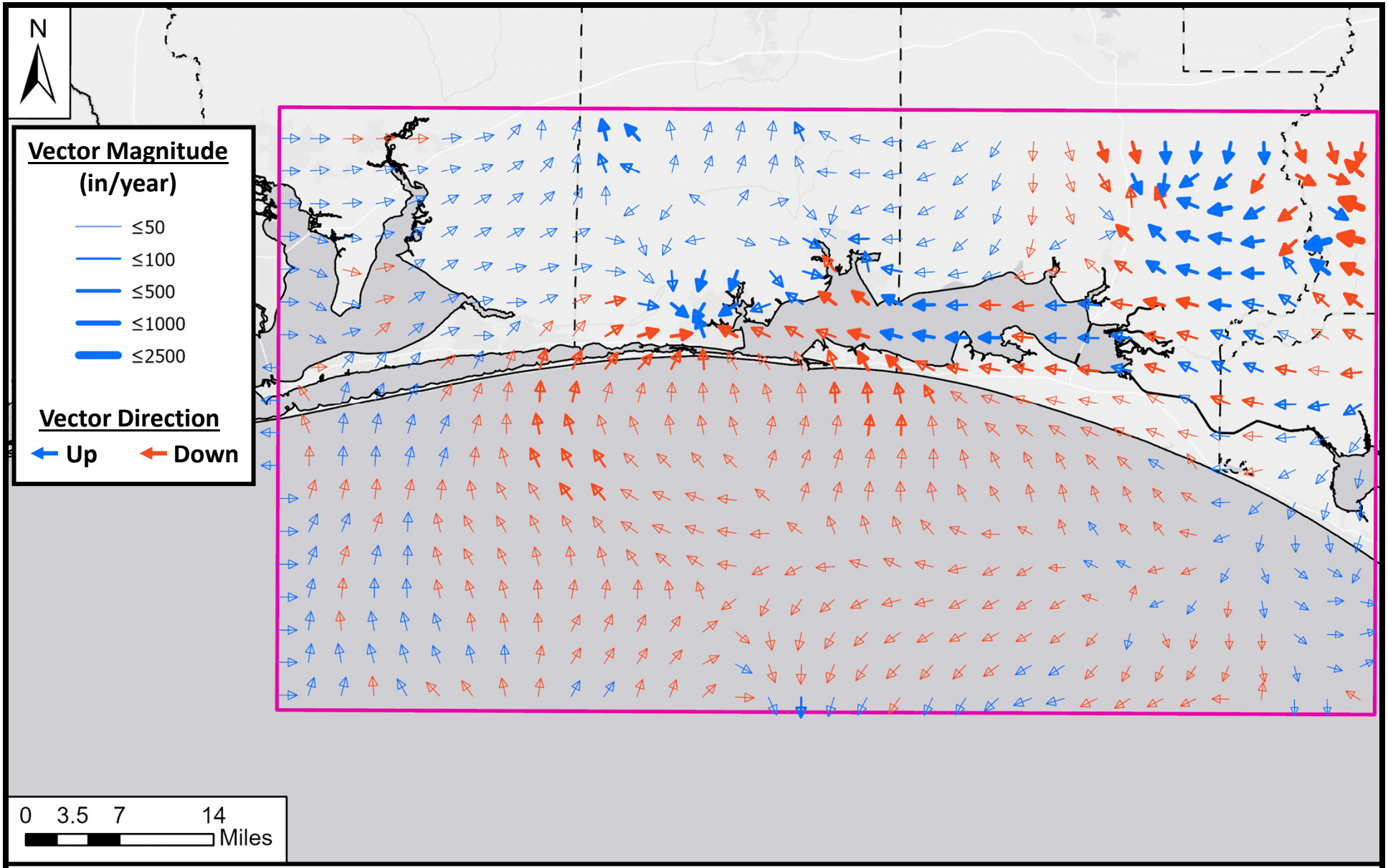

Figure 16 – Flow velocity vectors for predictive scenario 1 in the Upper Floridan Aquifer (layer 7) for year 2040. Blue arrows indicate the vertical component is upward, and red arrows indicate the vertical component is downward.

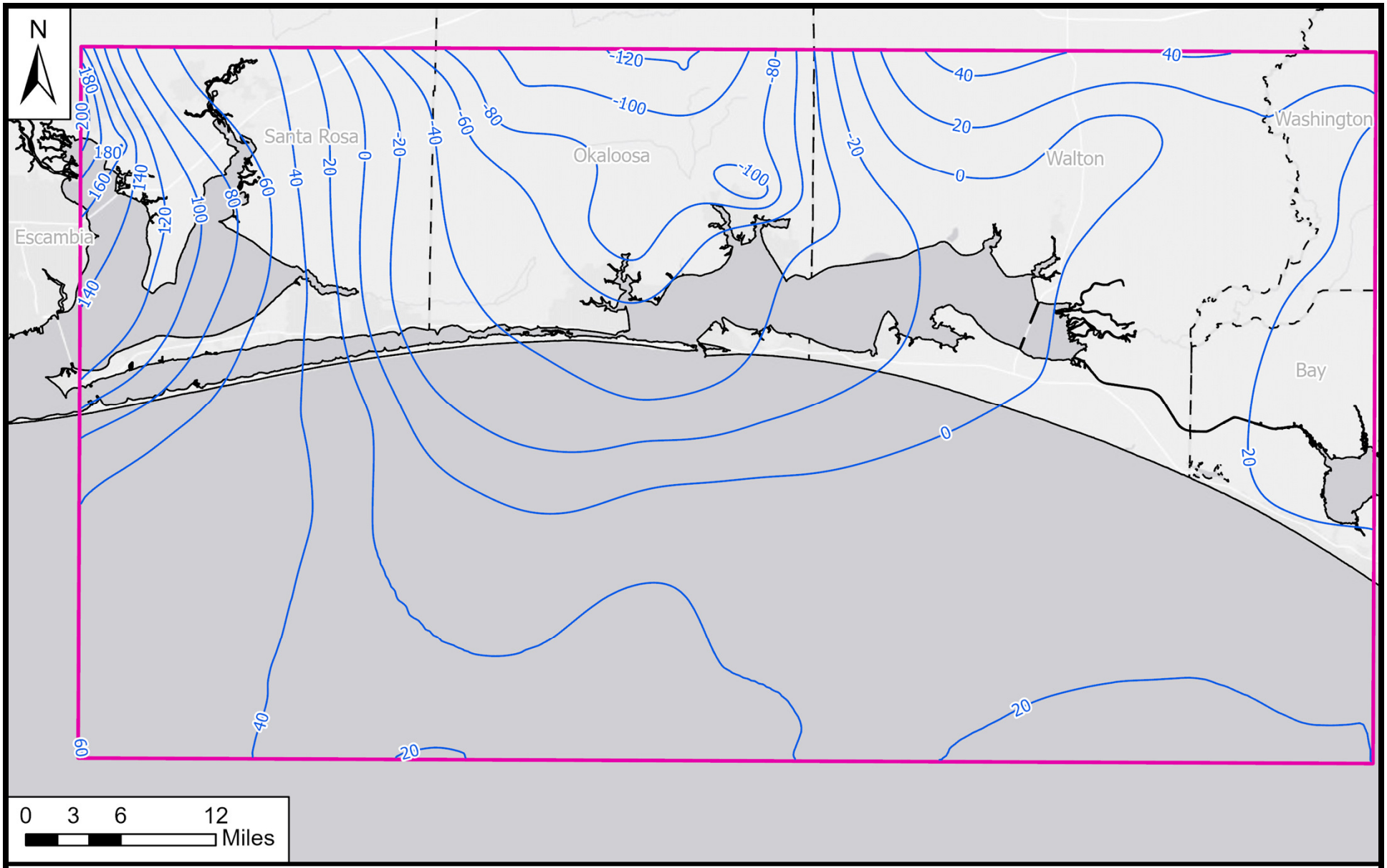

Figure 17 – Predictive scenario 1 simulated equivalent freshwater head contours in the Lower Floridan Aquifer (layer 15) for year 2040.

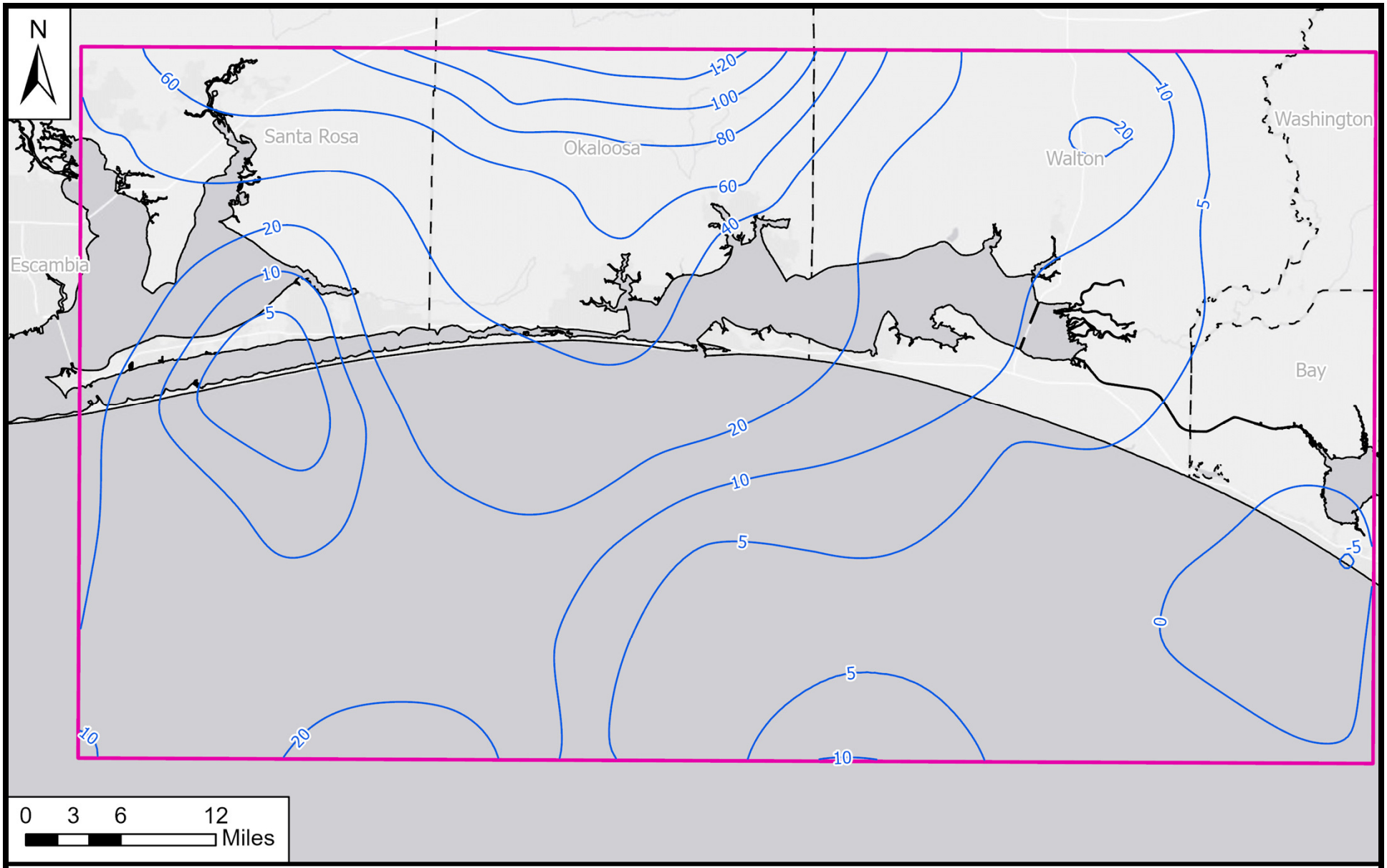

Figure 18 – Predictive scenario 1 equivalent freshwater head drawdown contours in the Lower Floridan Aquifer (layer 15) from year 2015 to 2040.

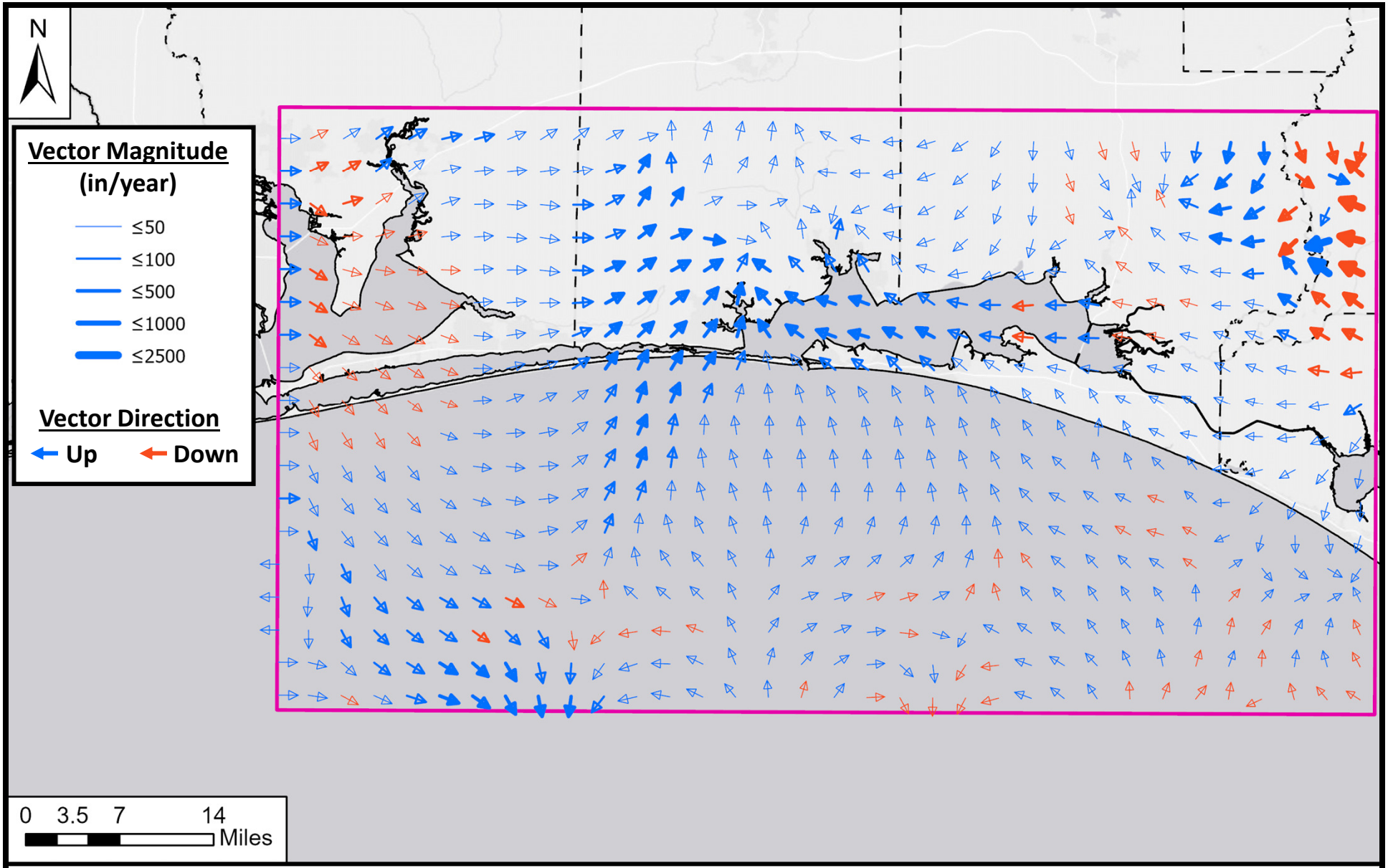

Figure 19 – Flow velocity vectors for predictive scenario 1 in the Lower Floridan Aquifer (layer 15) for year 2040. Blue arrows indicate the vertical component is upward, and red arrows indicate the vertical component is downward.

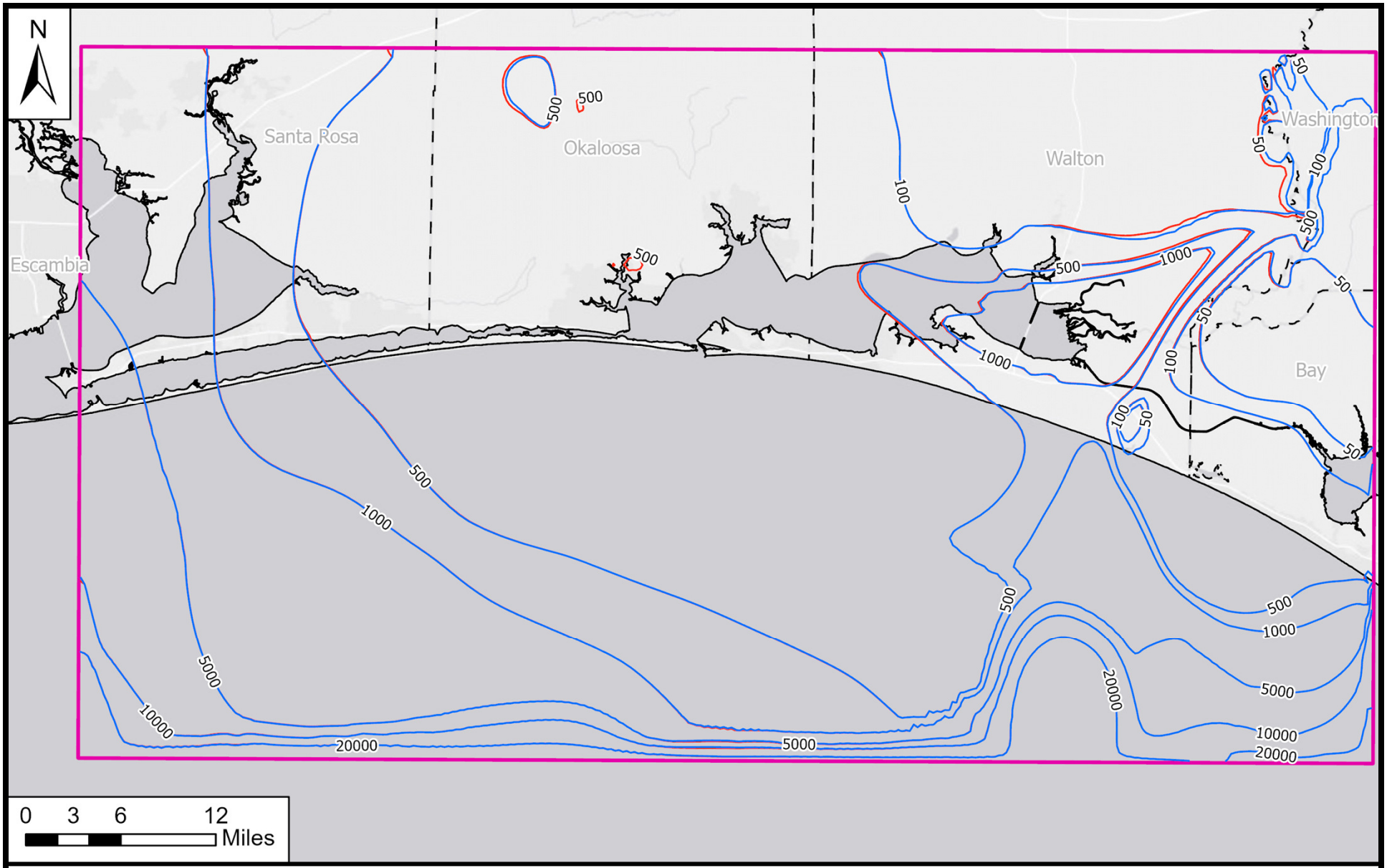

Figure 20 – Predictive scenario 1 simulated groundwater concentration contours (mg/L TDS) in the Upper Floridan Aquifer (layer 7) for years 2015 and 2040.

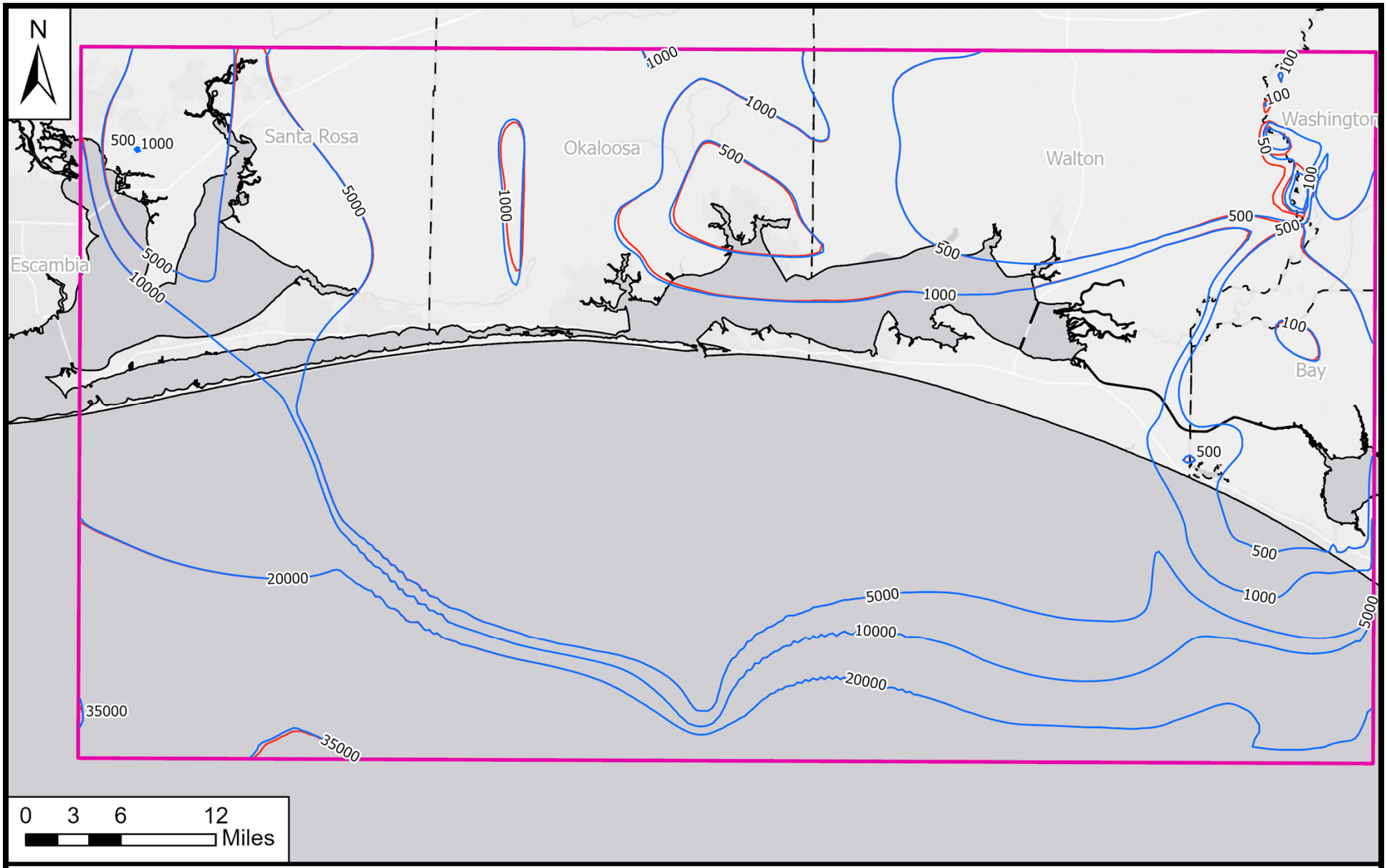

Figure 21 – Predictive scenario 1 simulated groundwater concentration contours (mg/L TDS) in the Lower Floridan Aquifer (layer 15) for years 2015 and 2040.

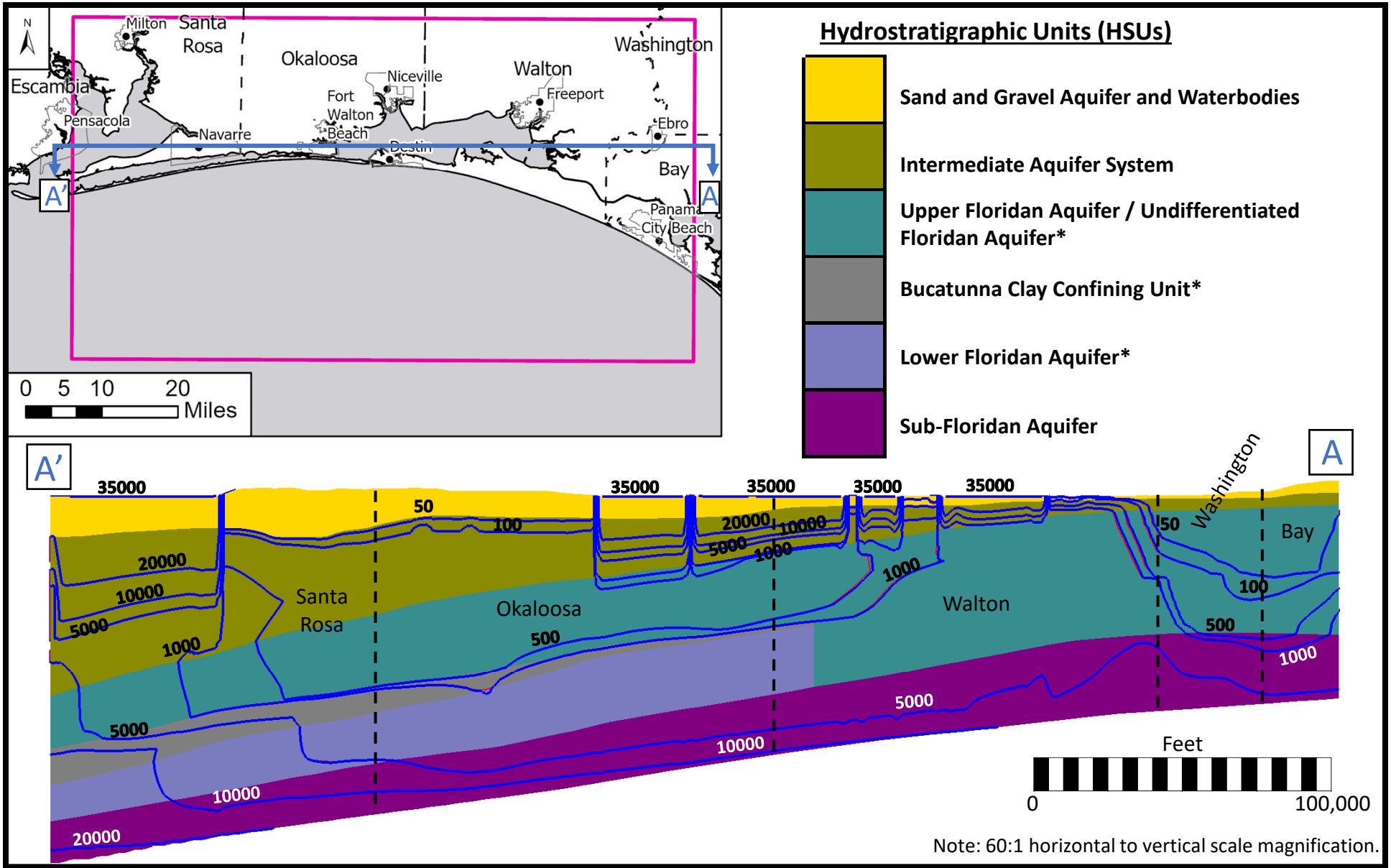

Figure 22 – Vertical cross-section (A-A') of predictive scenario 1 simulated groundwater concentrations (mg/L TDS) along row 70 for years 2015 and 2040. ***note: Location of transition from differentiated to undifferentiated Floridan Aquifer is approximate.**

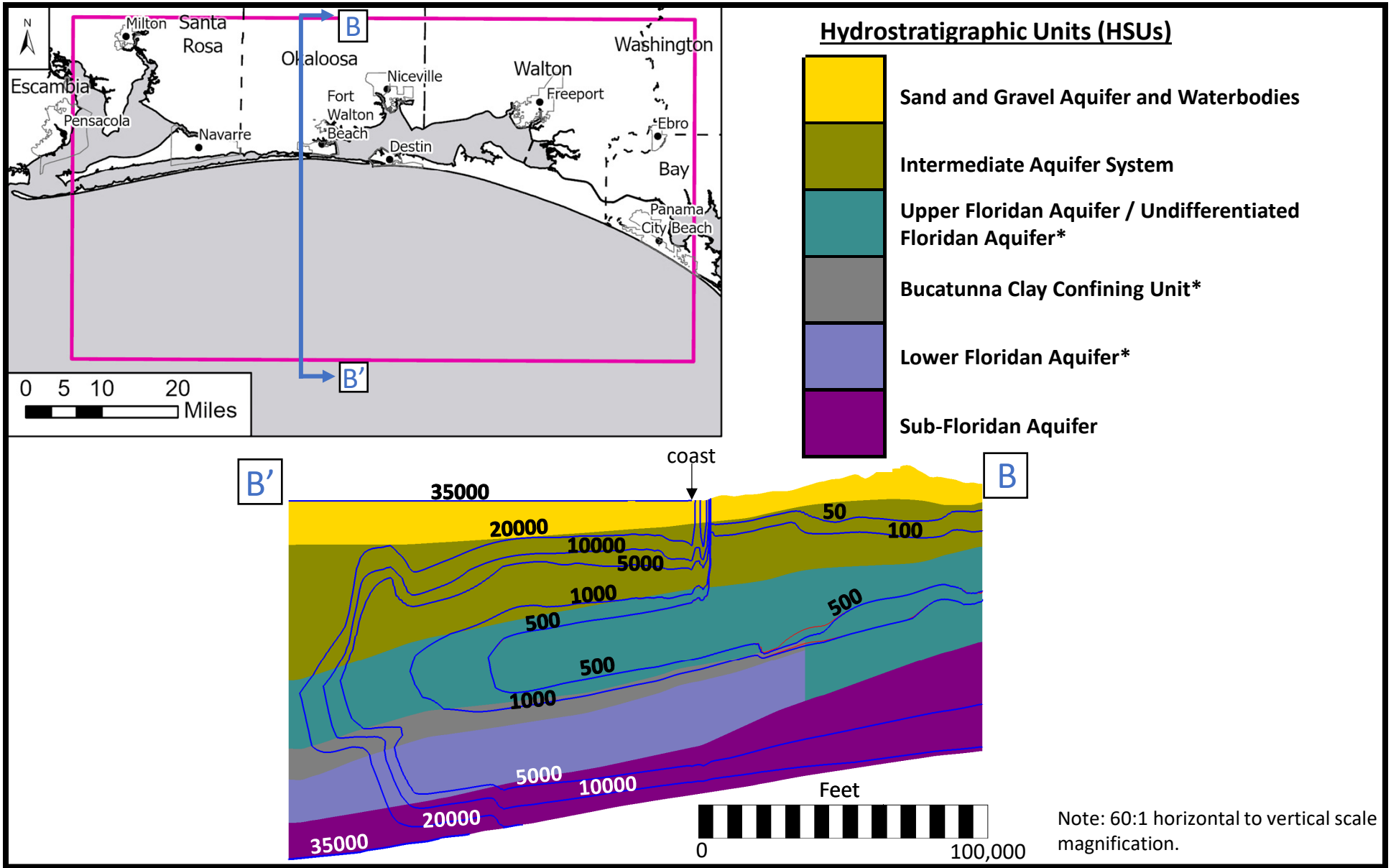

Figure 23 – Vertical cross-section (B-B') of predictive scenario 1 simulated groundwater concentrations (mg/L TDS) along column 125 for years 2015 and 2040. ***note: Location of transition from differentiated to undifferentiated Floridan Aquifer is approximate.**

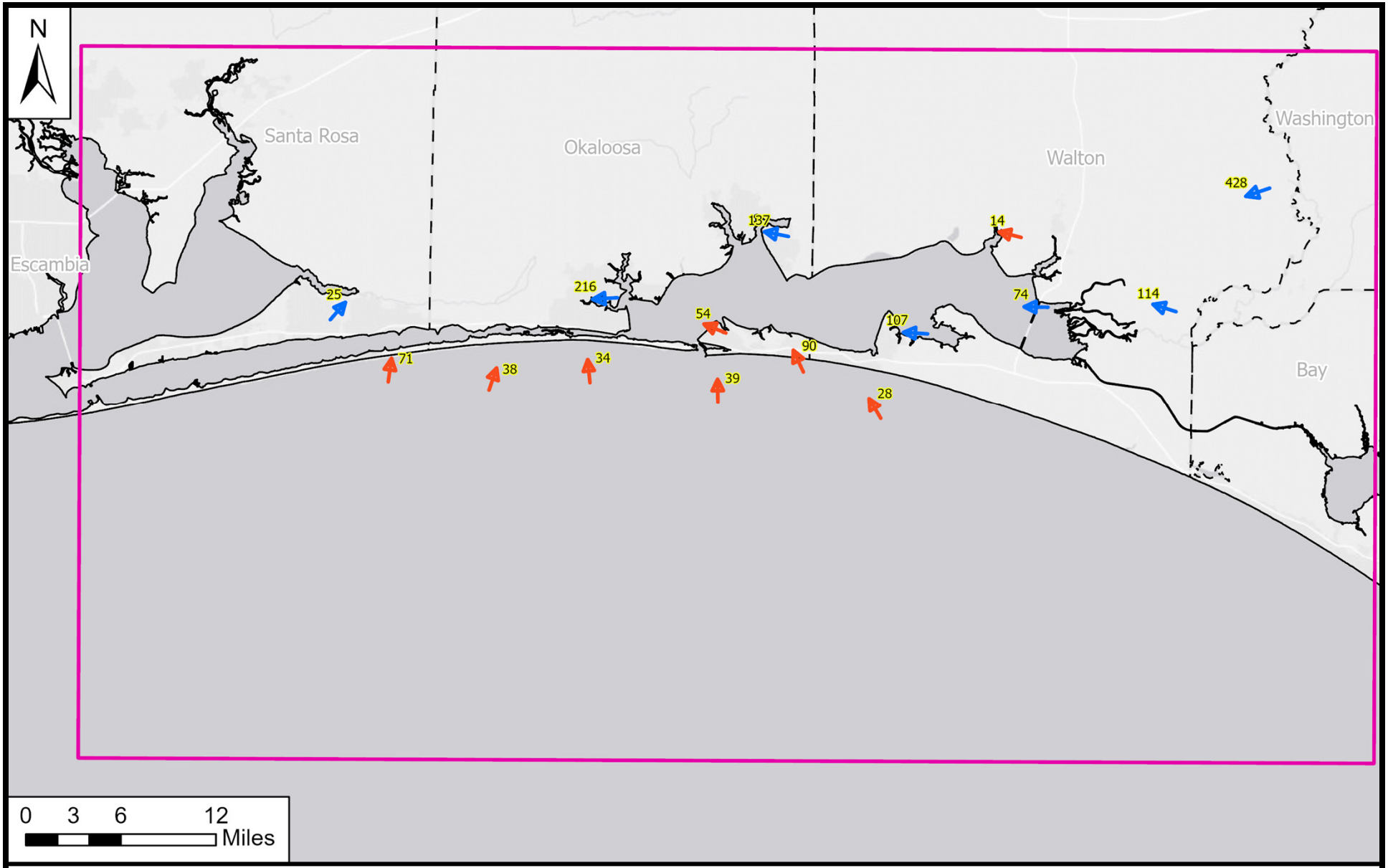

Figure 24 – Seepage velocity vectors (in/yr) for predictive scenario 1 at selected locations in the Upper Floridan Aquifer (layer 7) for year 2040.

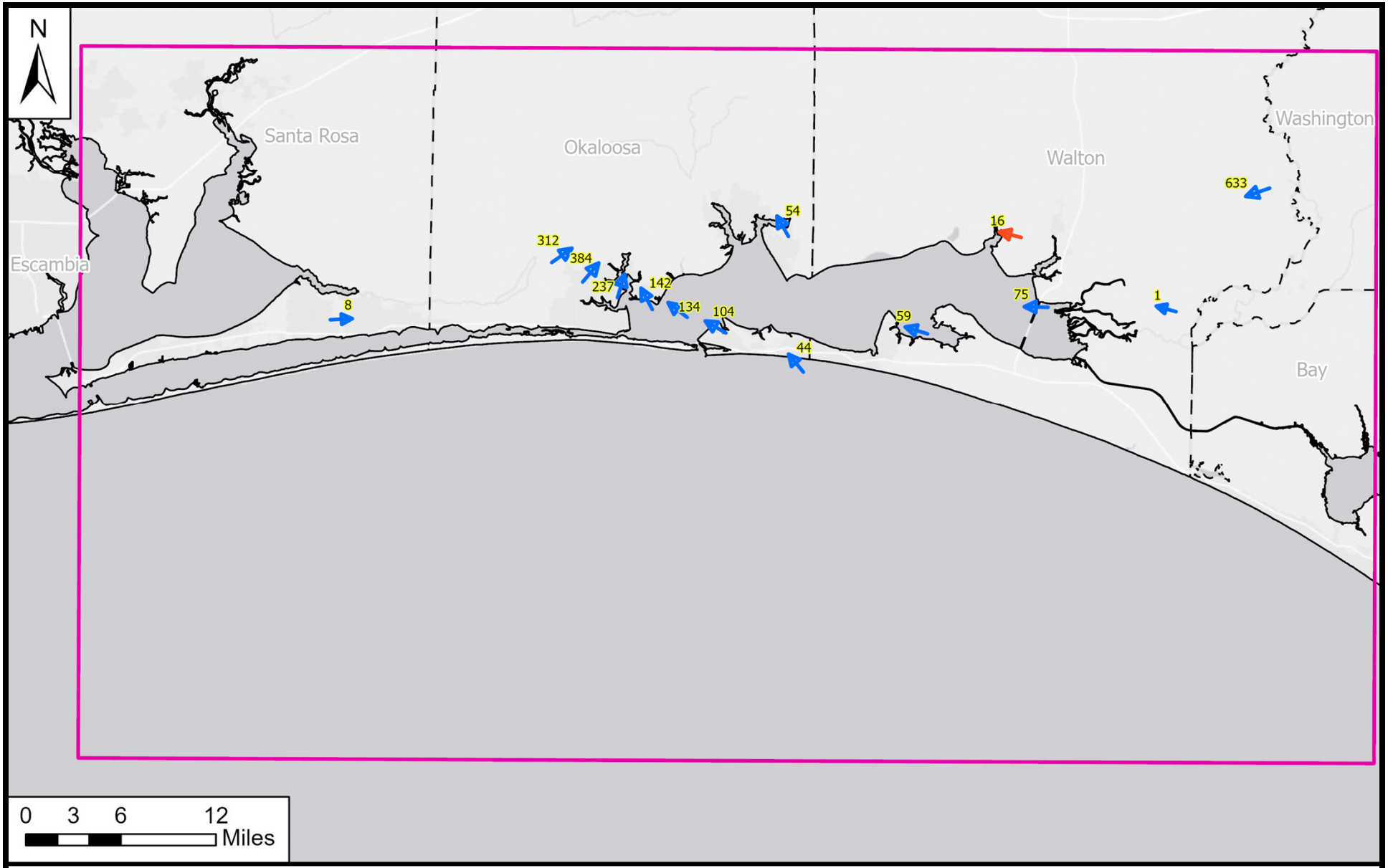

Figure 25 – Seepage velocity vectors (in/yr) for predictive scenario 1 at selected locations in the Lower Floridan Aquifer (layer 15) for year 2040.

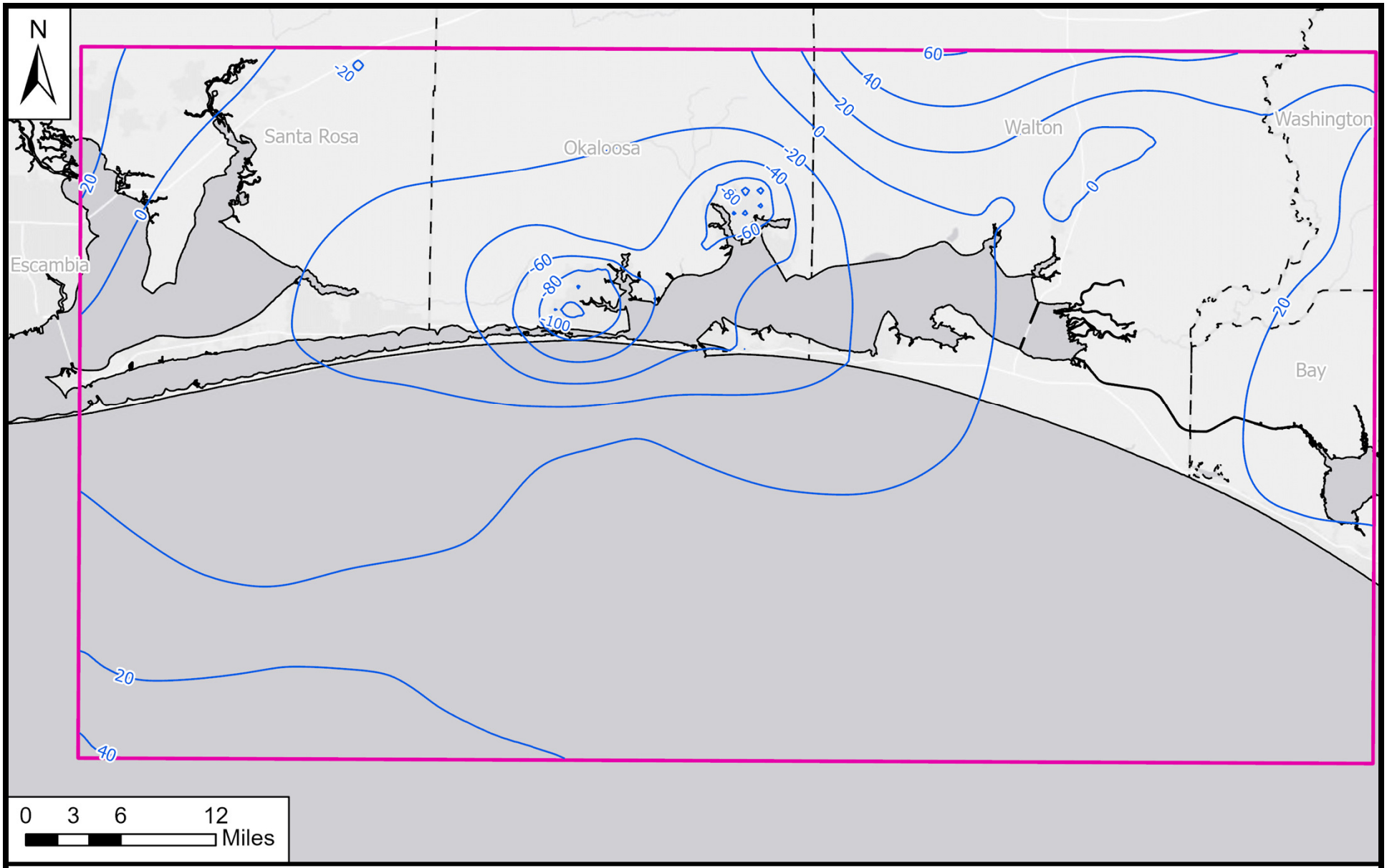

Figure 26 – Predictive scenario 2 simulated equivalent freshwater head contours in the Upper Floridan Aquifer (layer 7) for year 2040.

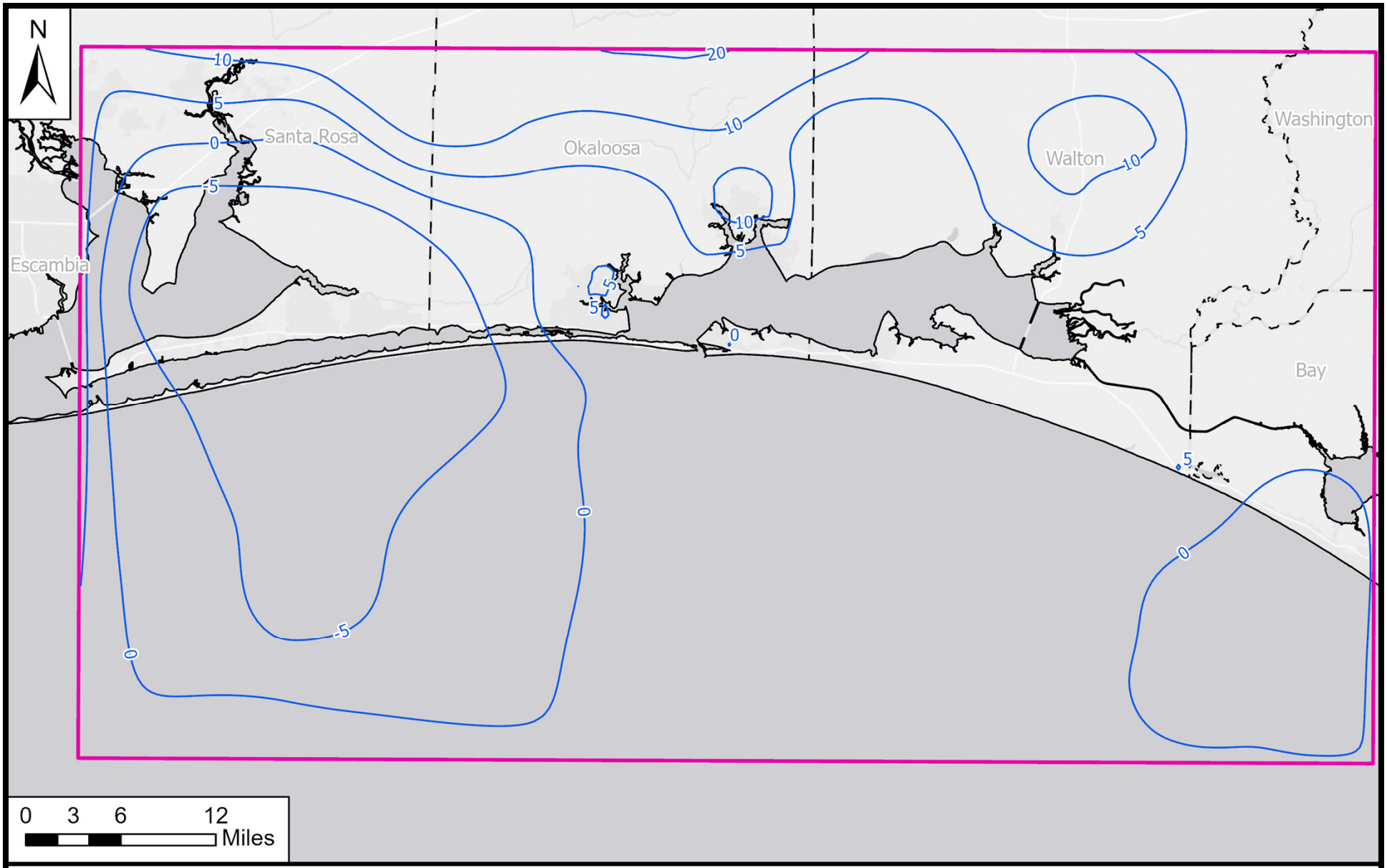

Figure 27 – Predictive scenario 2 equivalent freshwater head drawdown contours in the Upper Floridan Aquifer (layer 7) from year 2015 to 2040.

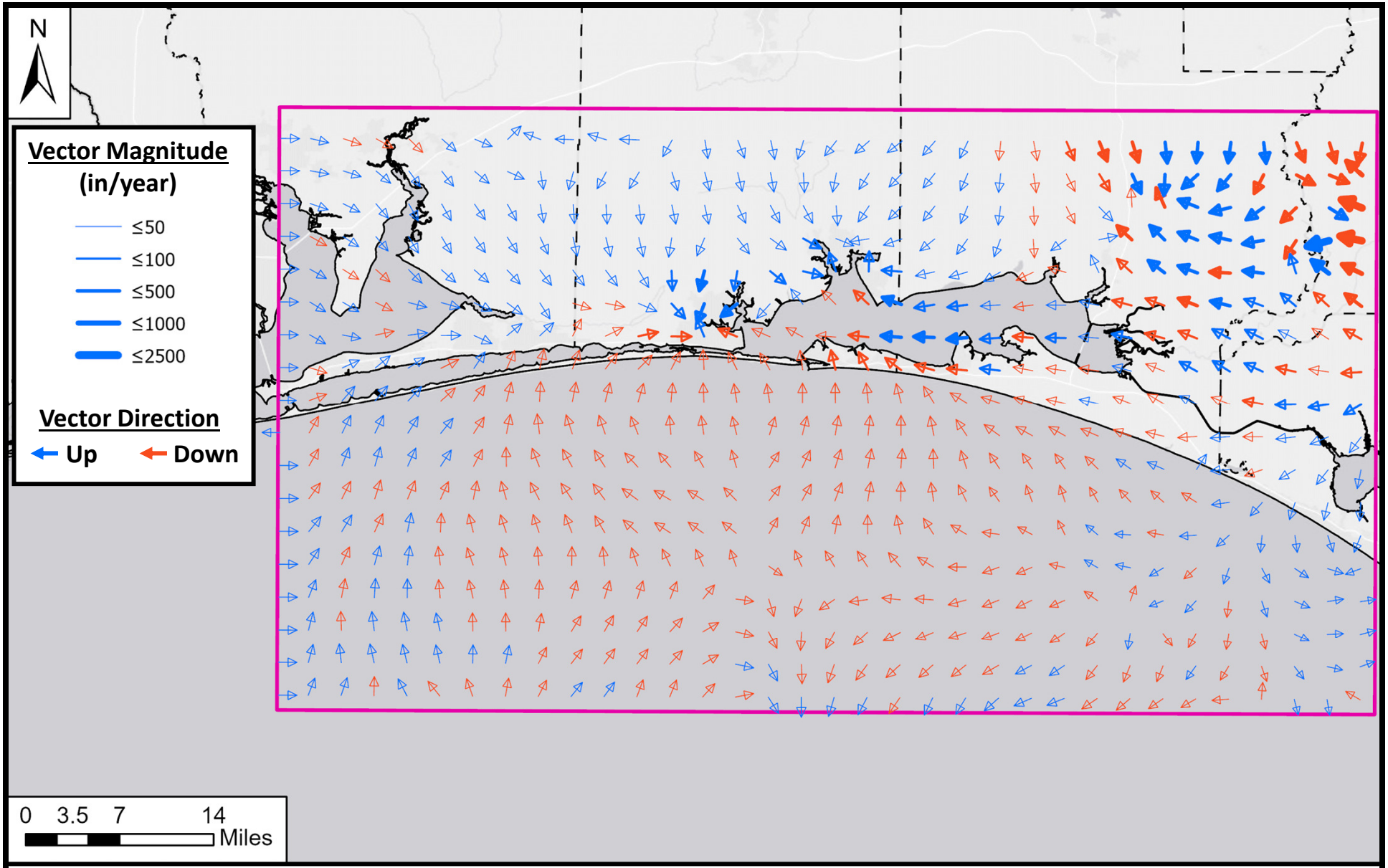

Figure 28 – Flow velocity vectors for predictive scenario 2 in the Upper Floridan Aquifer (layer 7) for year 2040. Blue arrows indicate the vertical component is upward, and red arrows indicate the vertical component is downward.

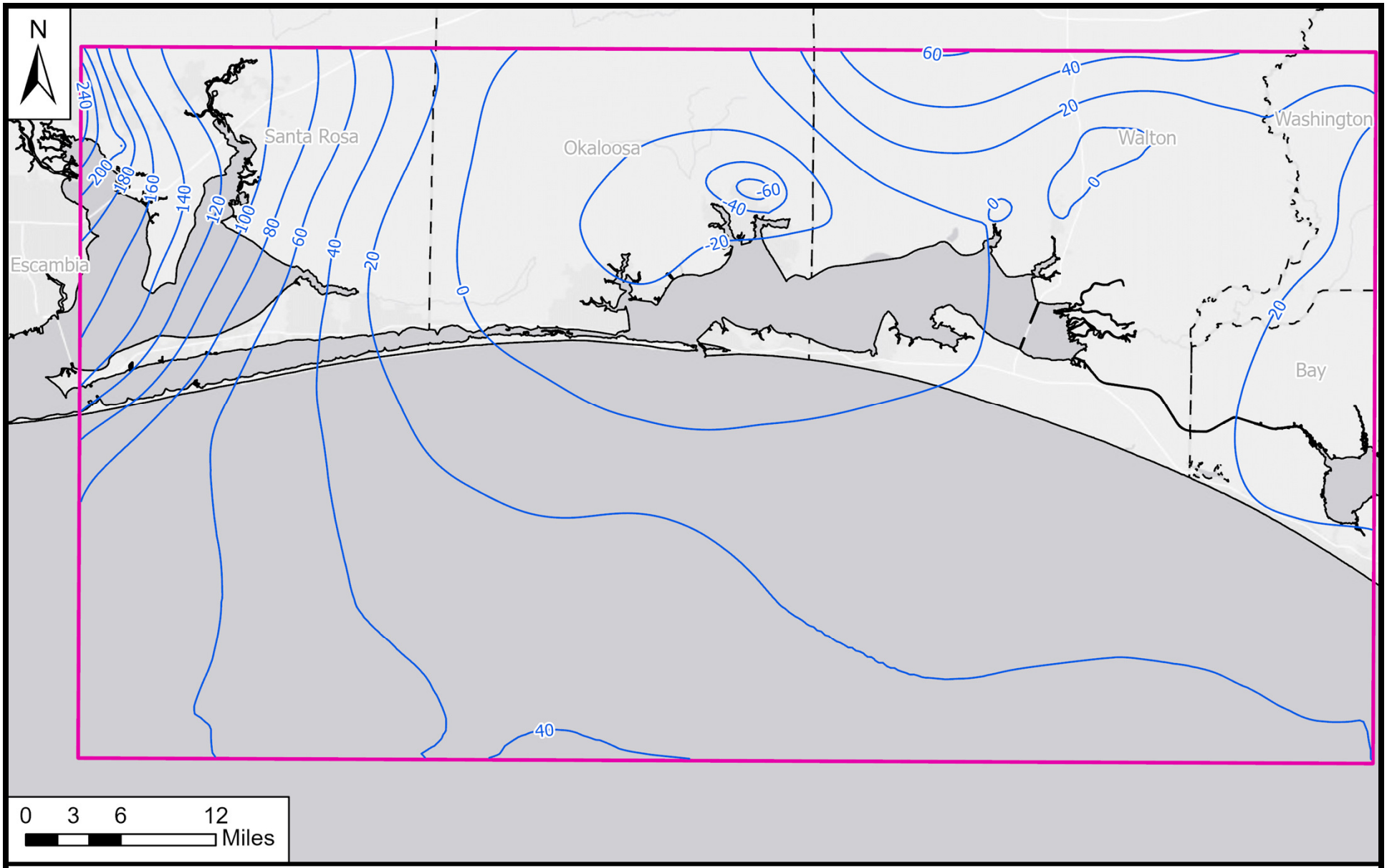

Figure 29 – Predictive scenario 2 simulated equivalent freshwater head contours in the Lower Floridan Aquifer (layer 15) for year 2040.

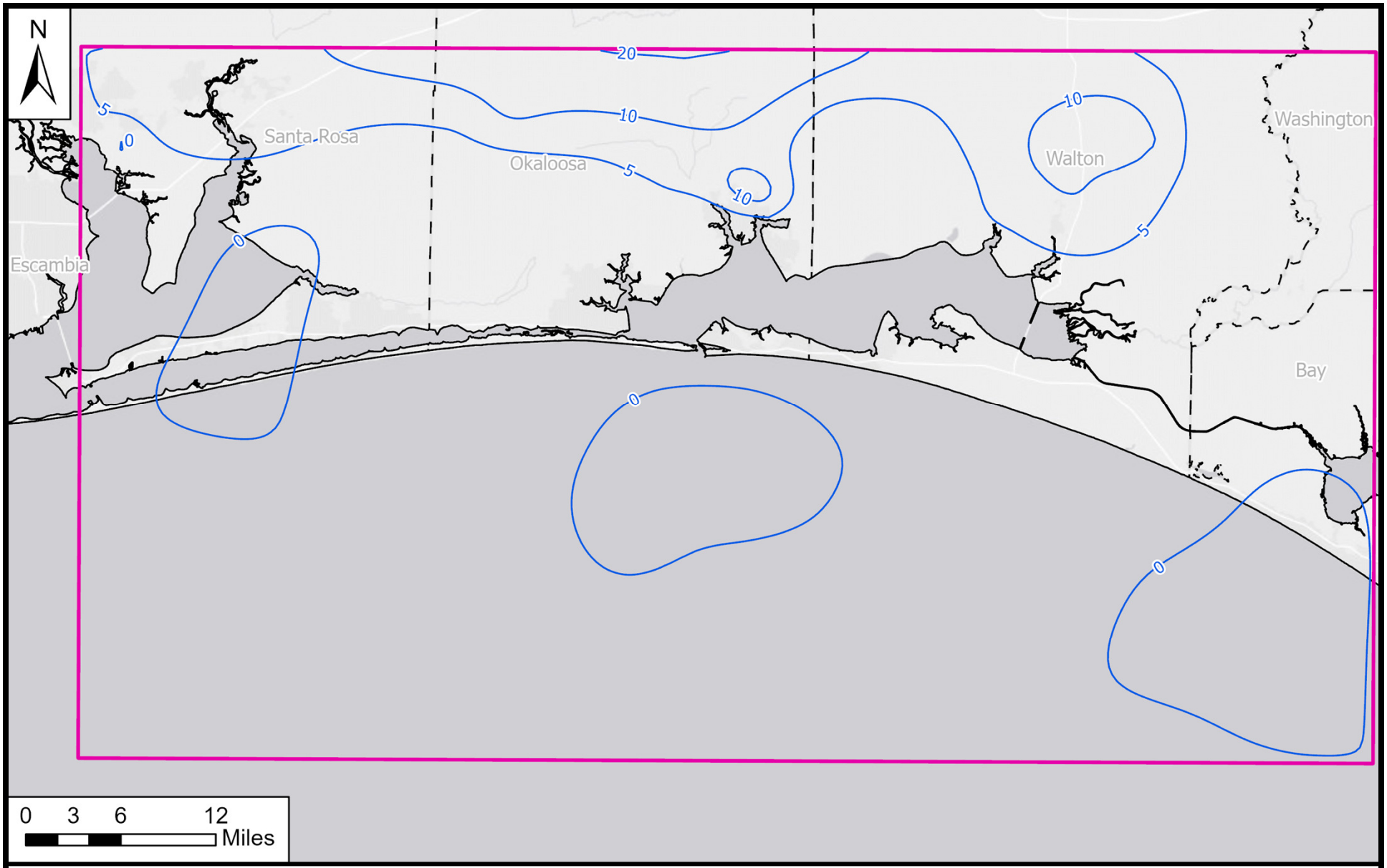

Figure 30 – Predictive scenario 2 equivalent freshwater head drawdown contours in the Lower Floridan Aquifer (layer 15) from year 2015 to 2040.

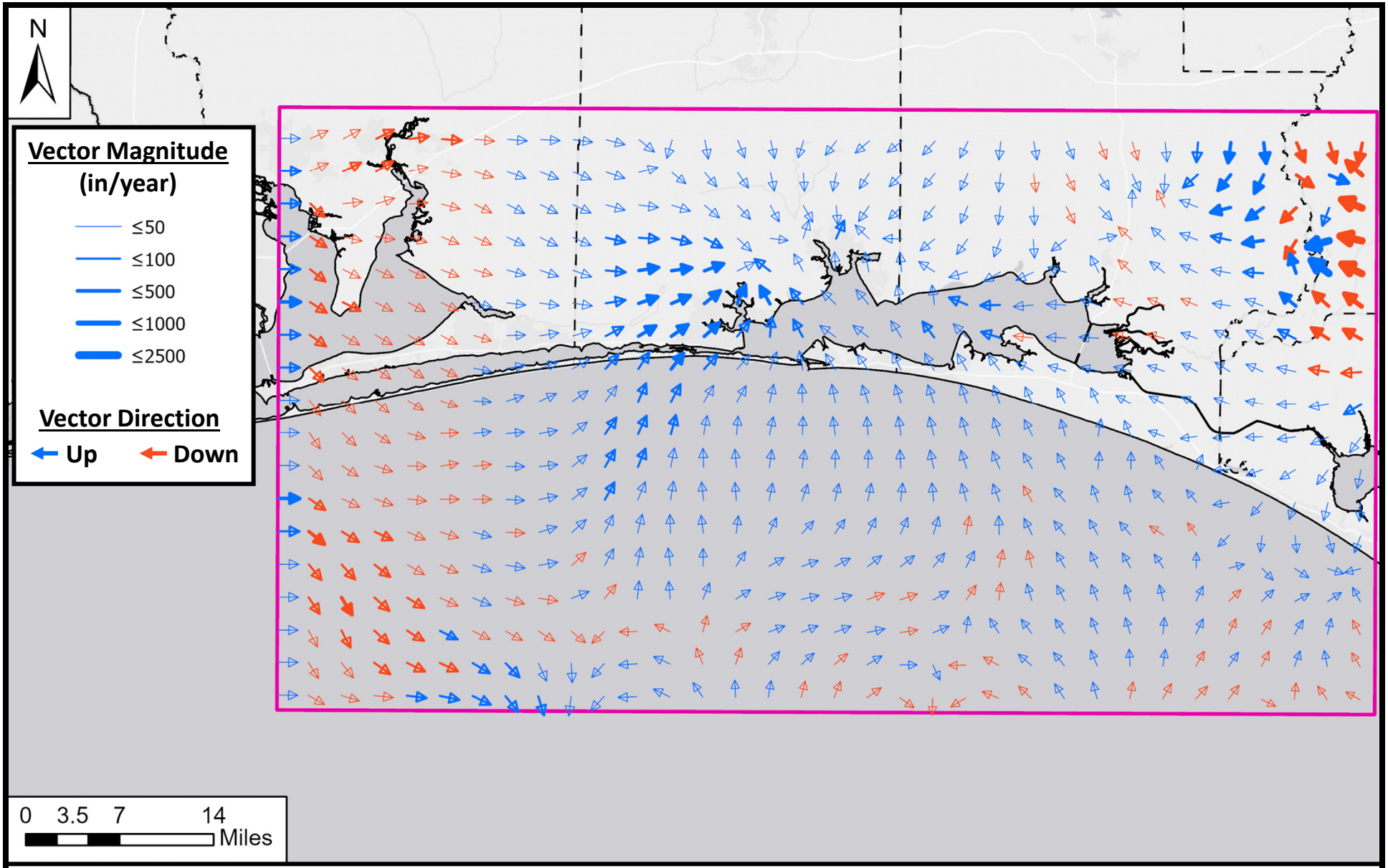

Figure 31 – Flow velocity vectors for predictive scenario 2 in the Lower Floridan Aquifer (layer 15) for year 2040. Blue arrows indicate the vertical component is upward, and red arrows indicate the vertical component is downward.

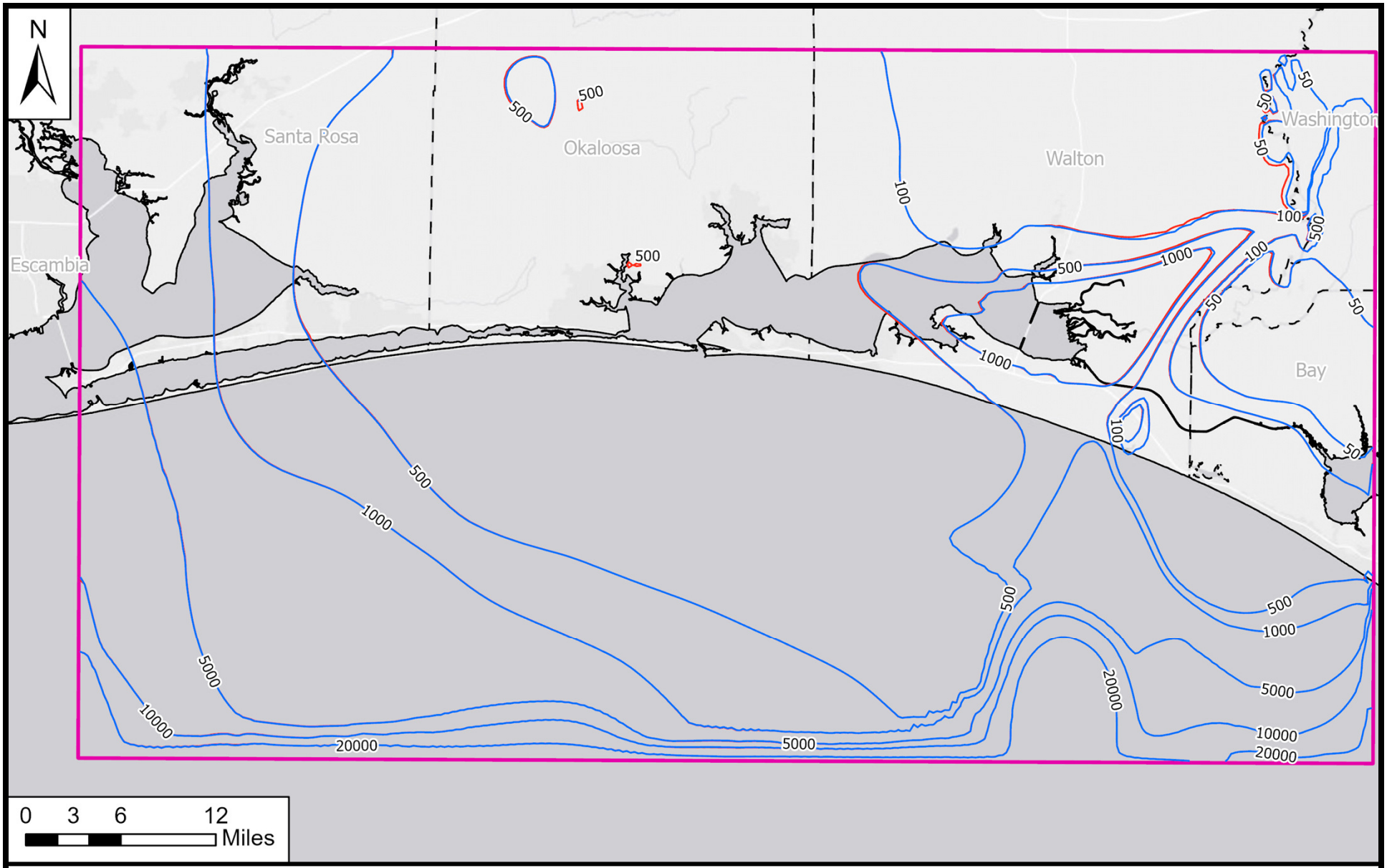

Figure 32 – Predictive scenario 2 simulated groundwater concentration contours (mg/L TDS) in the Upper Floridan Aquifer (layer 7) for years 2015 and 2040.

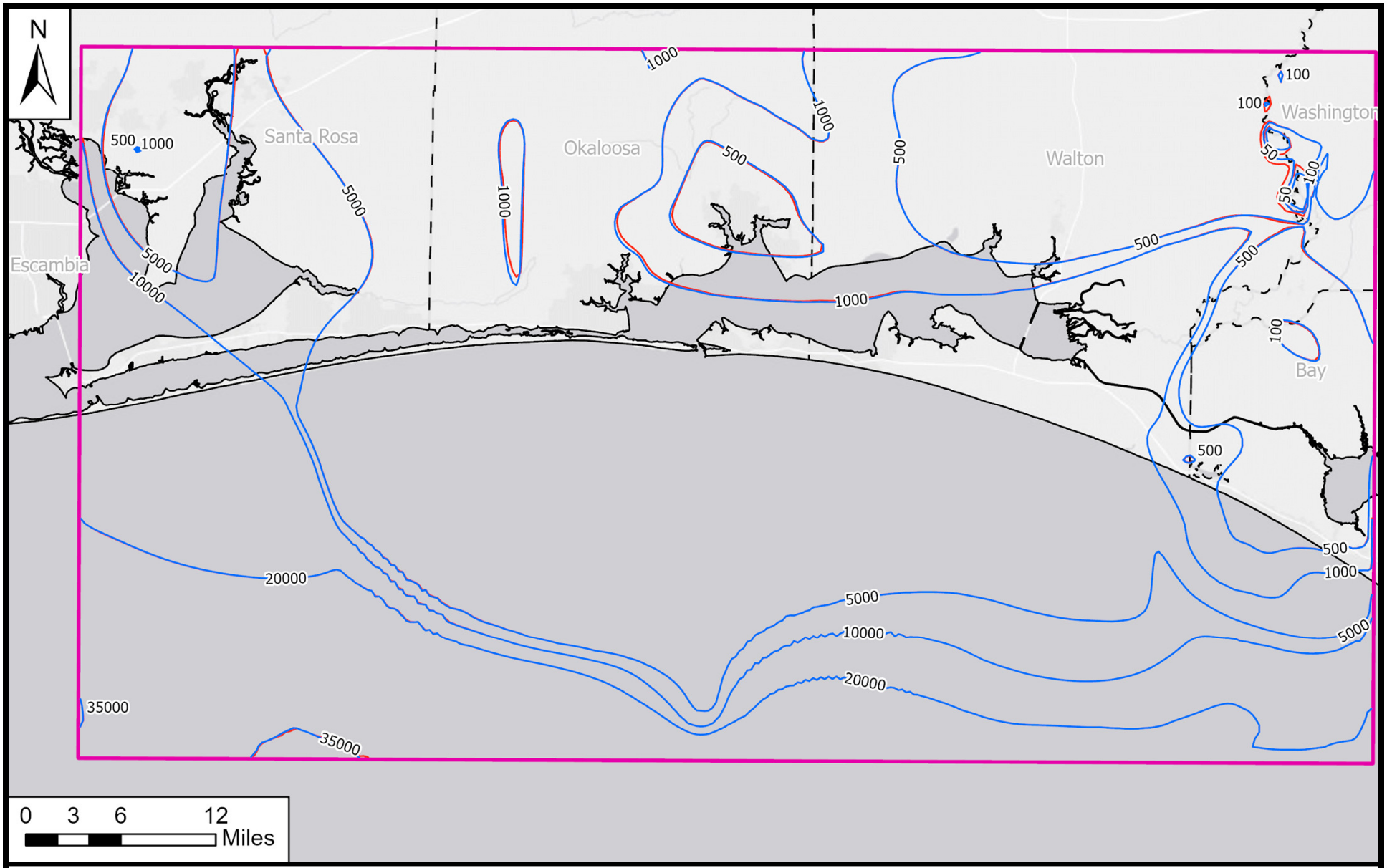

Figure 33 – Predictive scenario 2 simulated groundwater concentration contours (mg/L TDS) in the Lower Floridan Aquifer (layer 15) for years 2015 and 2040.

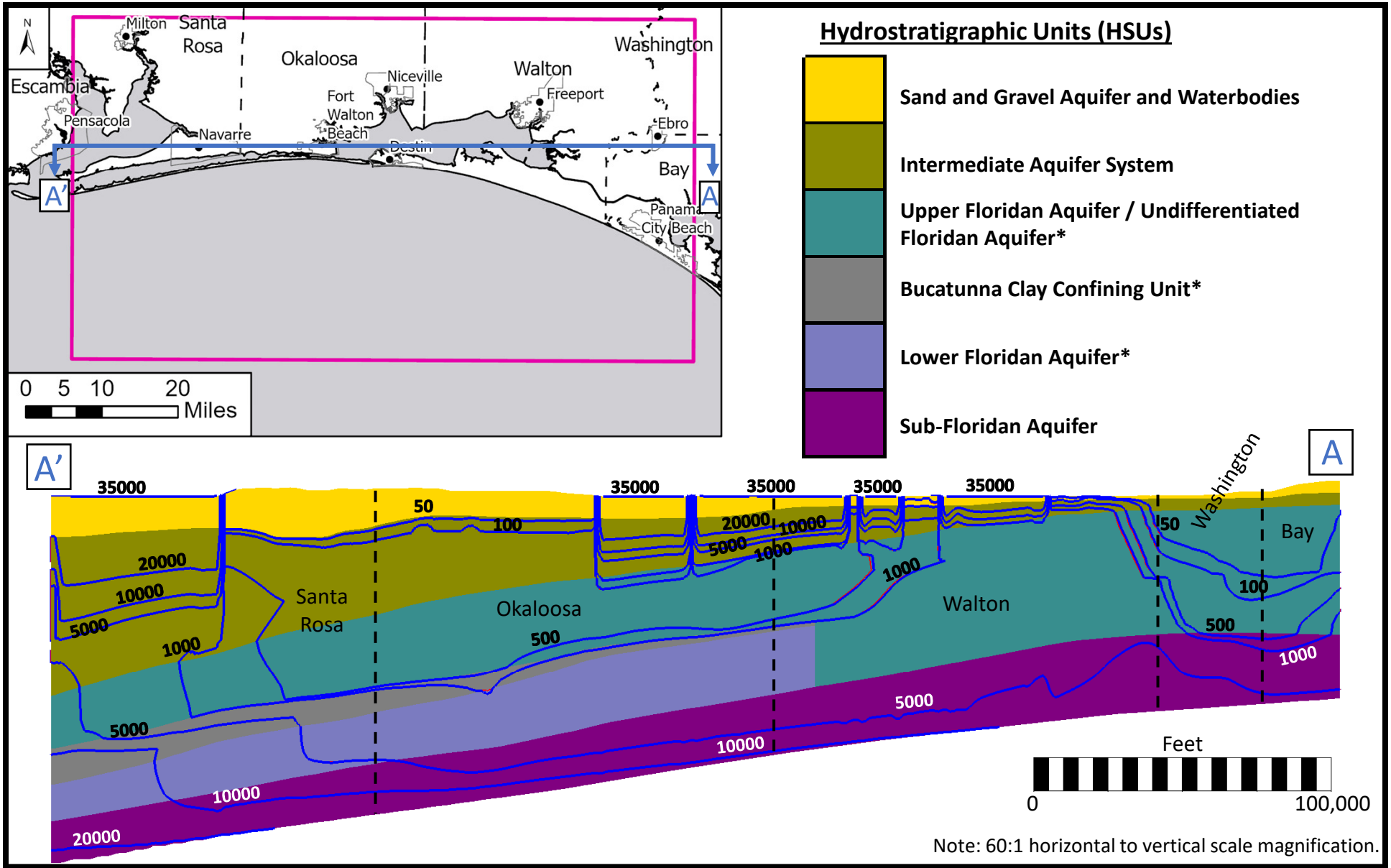

Figure 34 – Vertical cross-section (A-A') of predictive scenario 2 simulated groundwater concentrations (mg/L TDS) along row 70 for years 2015 and 2040. ***note: Location of transition from differentiated to undifferentiated Floridan Aquifer is approximate.**

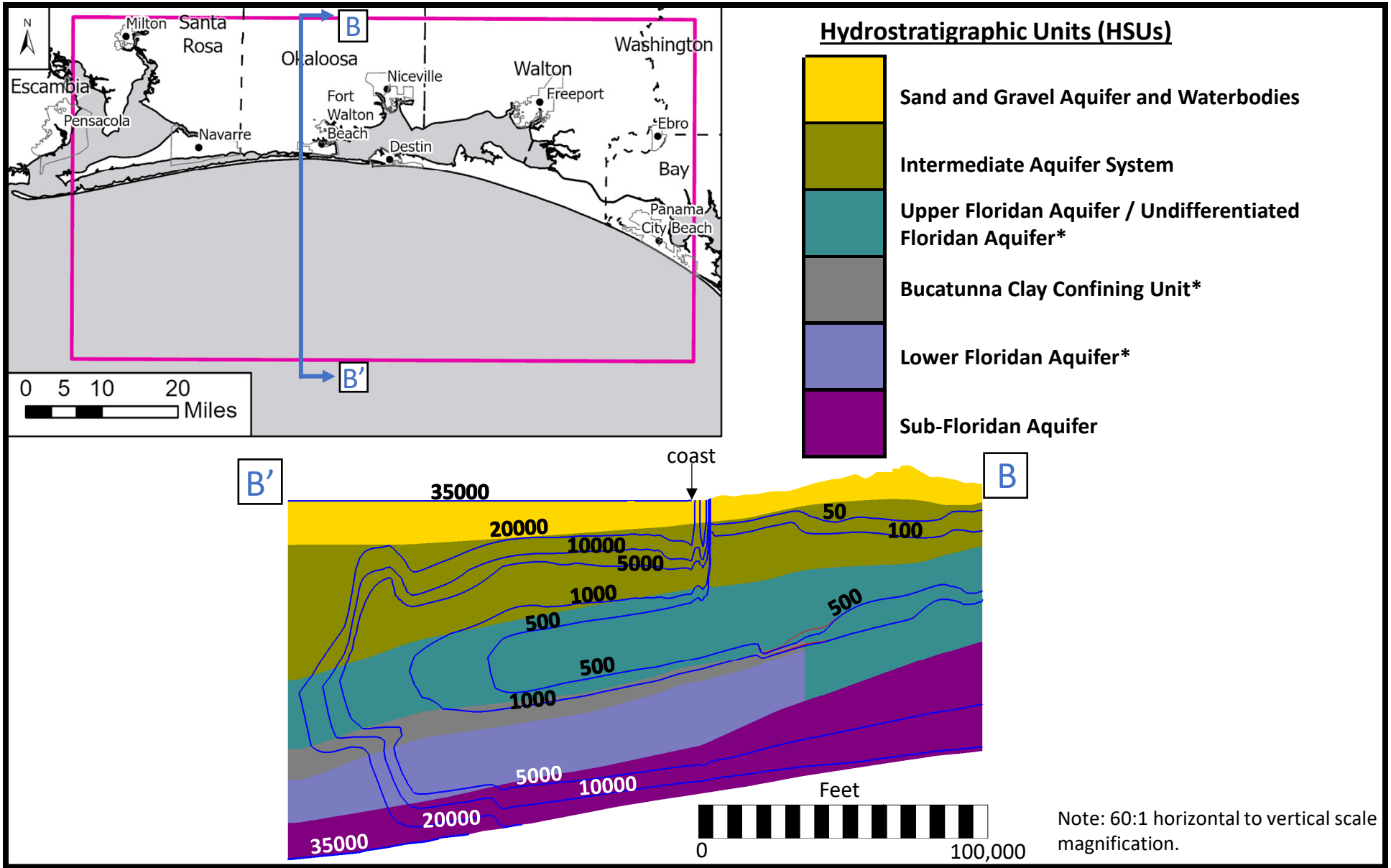

Figure 35 – Vertical cross-section (B-B') of predictive scenario 2 simulated groundwater concentrations (mg/L TDS) along column 125 for years 2015 and 2040. ***note: Location of transition from differentiated to undifferentiated Floridan Aquifer is approximate.**

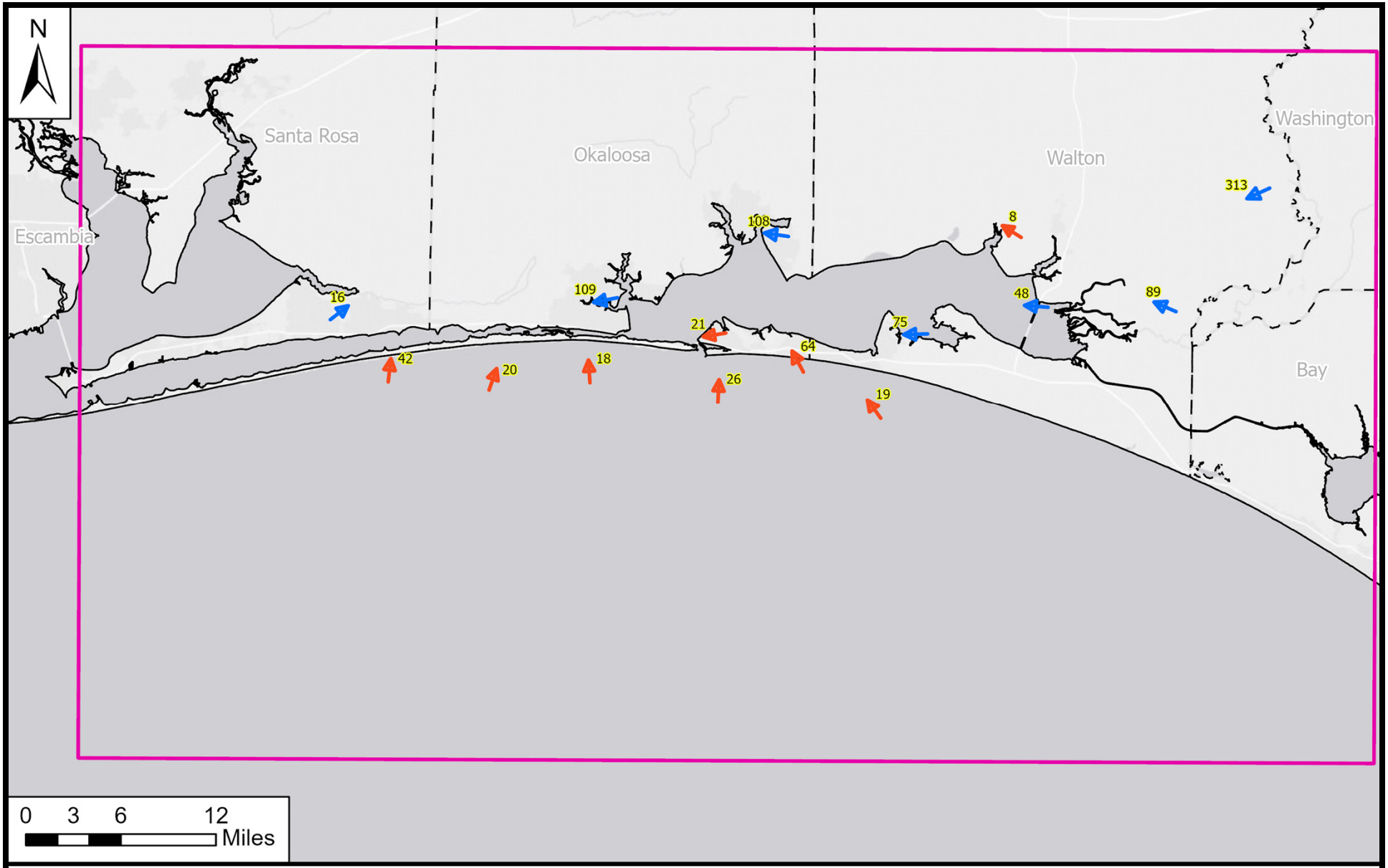

Figure 36 – Seepage velocity vectors (in/yr) for predictive scenario 2 at selected locations in the Upper Floridan Aquifer (layer 7) for year 2040.

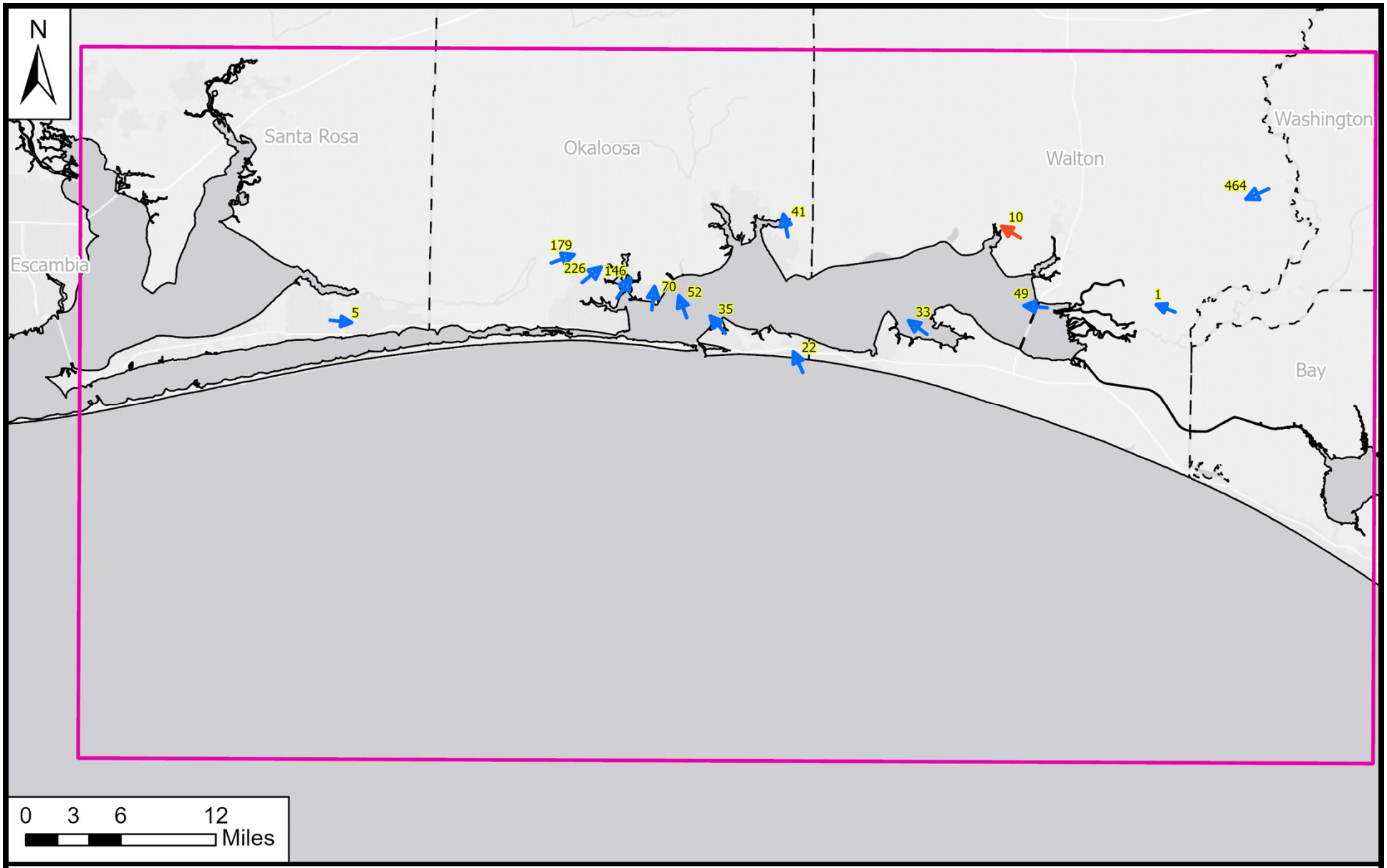

Figure 37 – Seepage velocity vectors (in/yr) for predictive scenario 2 at selected locations in the Lower Floridan Aquifer (layer 15) for year 2040.

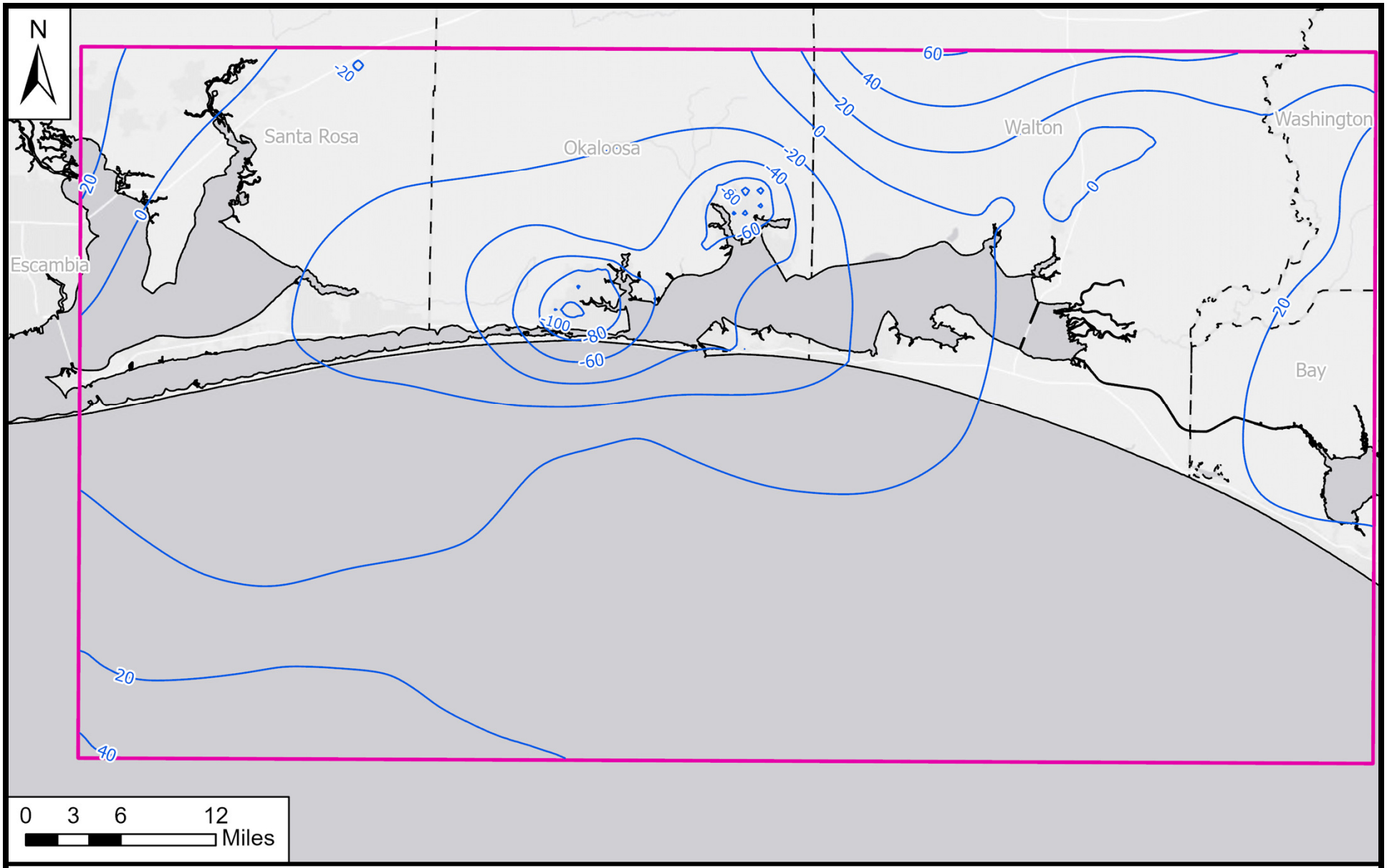

Figure 38 – Predictive scenario 3 simulated equivalent freshwater head contours in the Upper Floridan Aquifer (layer 7) for year 2040.

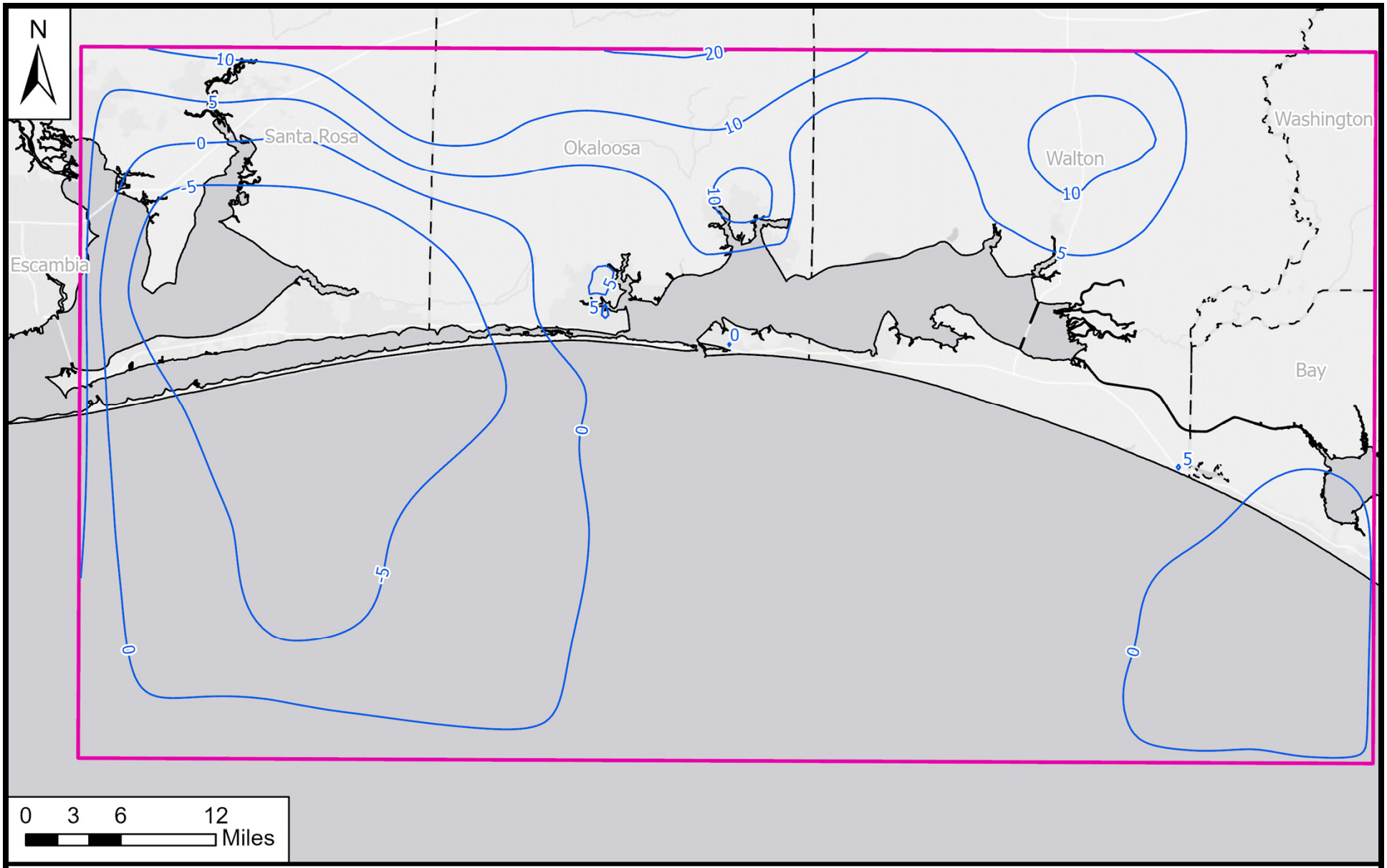

Figure 39 – Predictive scenario 3 equivalent freshwater head drawdown contours in the Upper Floridan Aquifer (layer 7) from year 2015 to 2040.

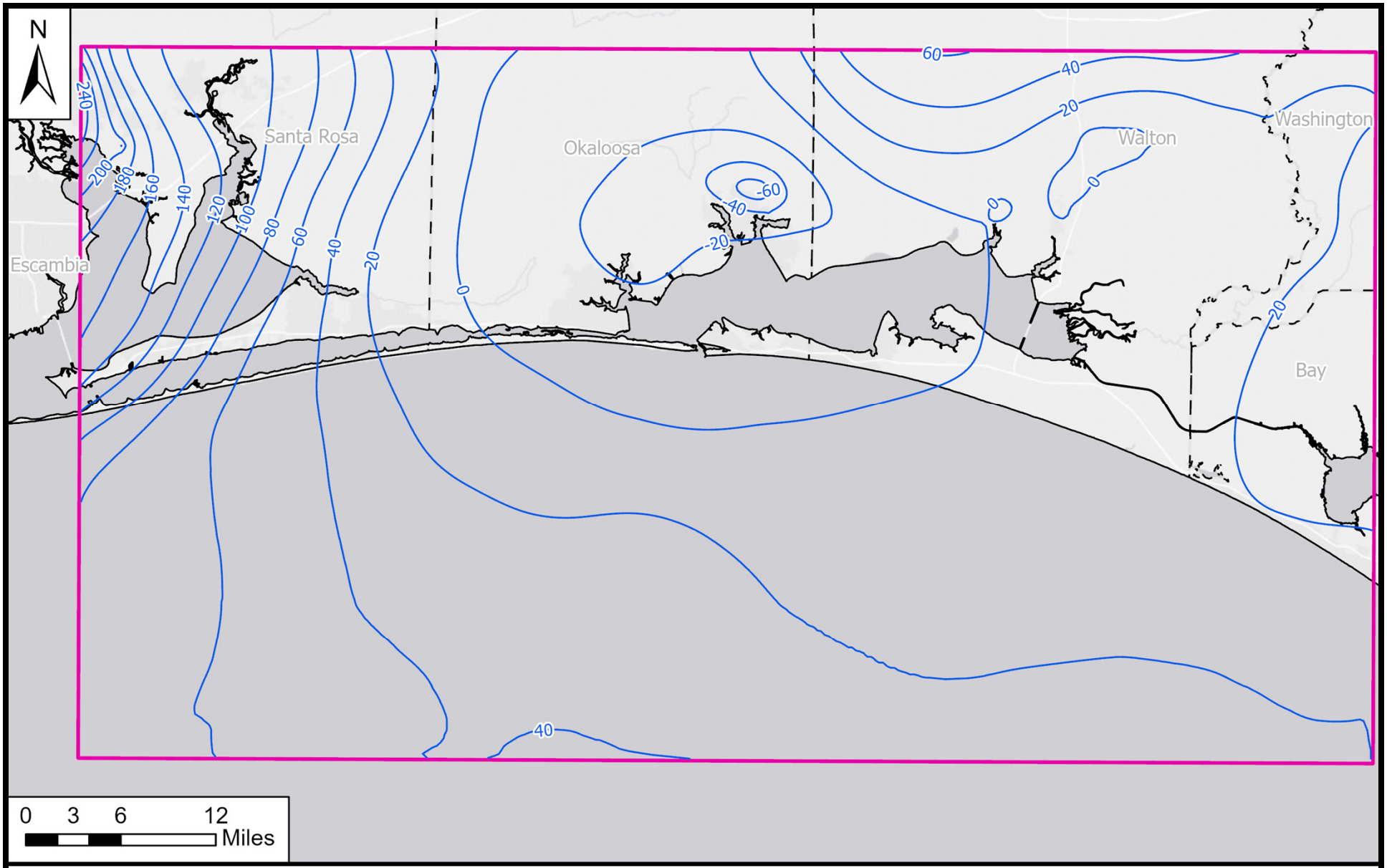

Figure 40 – Predictive scenario 3 simulated equivalent freshwater head contours in the Lower Floridan Aquifer (layer 15) for year 2040.

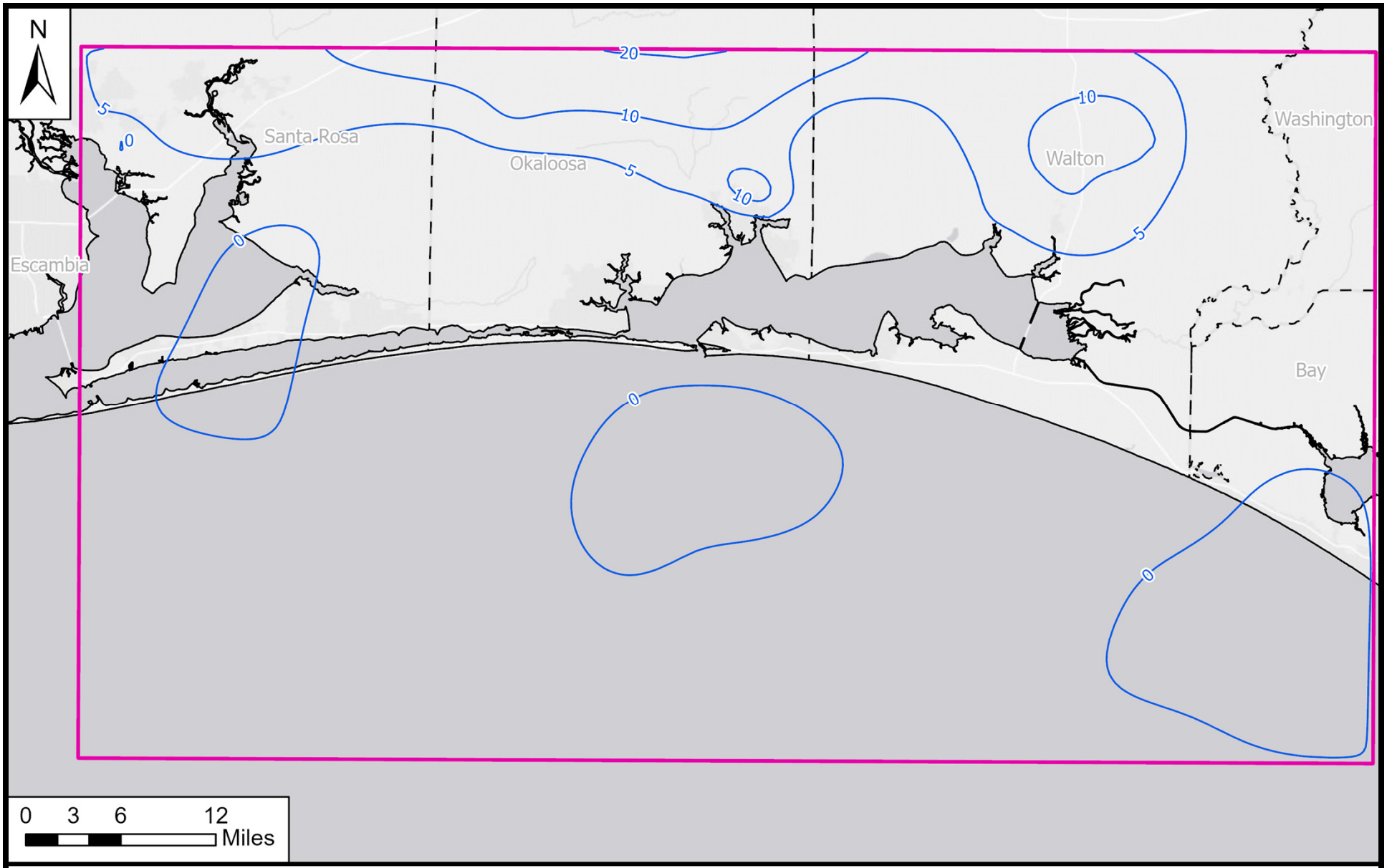

Figure 41 – Predictive scenario 3 equivalent freshwater head drawdown contours in the Lower Floridan Aquifer (layer 15) from year 2015 to 2040.

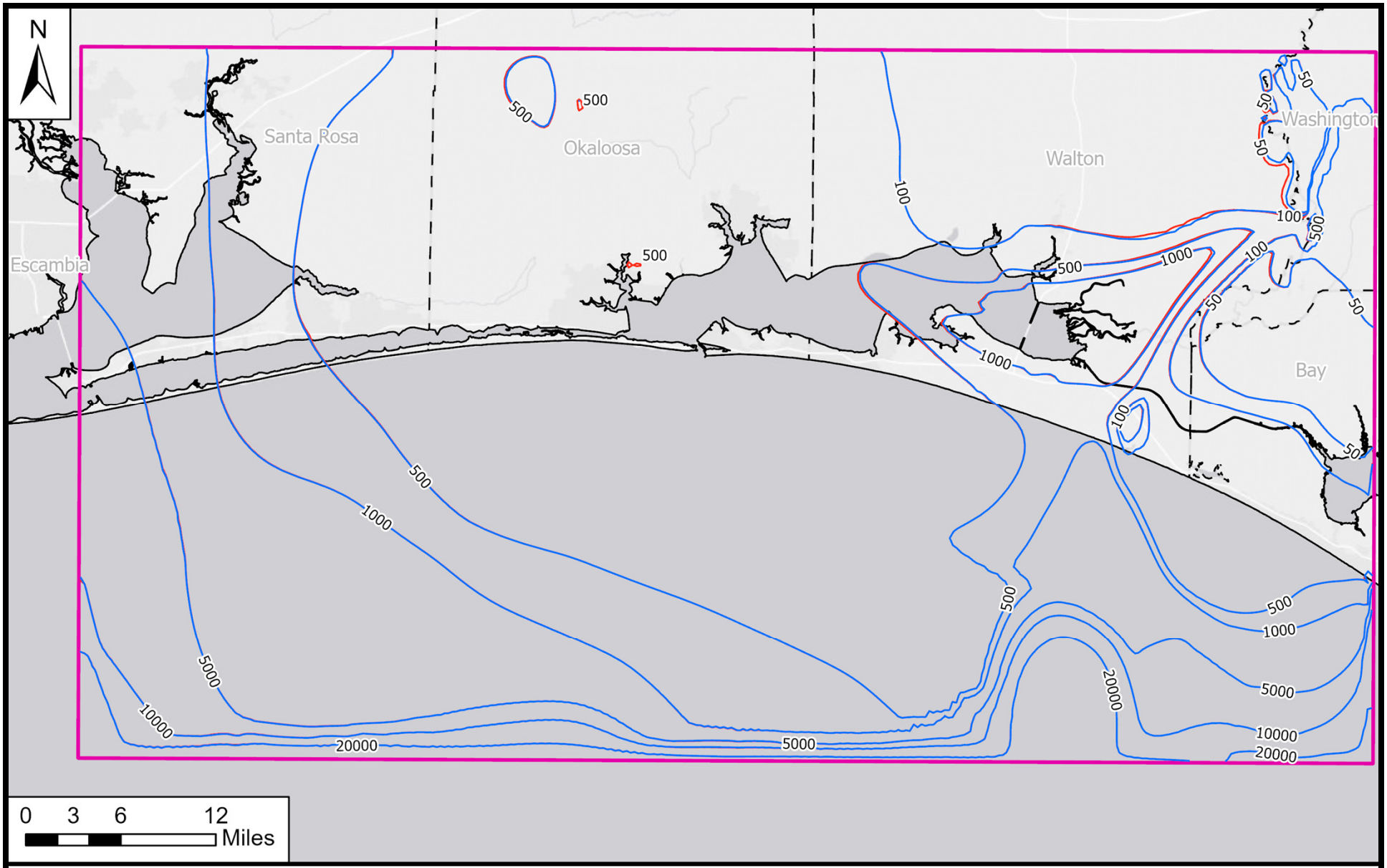

Figure 42 – Predictive scenario 3 simulated groundwater concentration contours (mg/L TDS) in the Upper Floridan Aquifer (layer 7) for years 2015 and 2040.

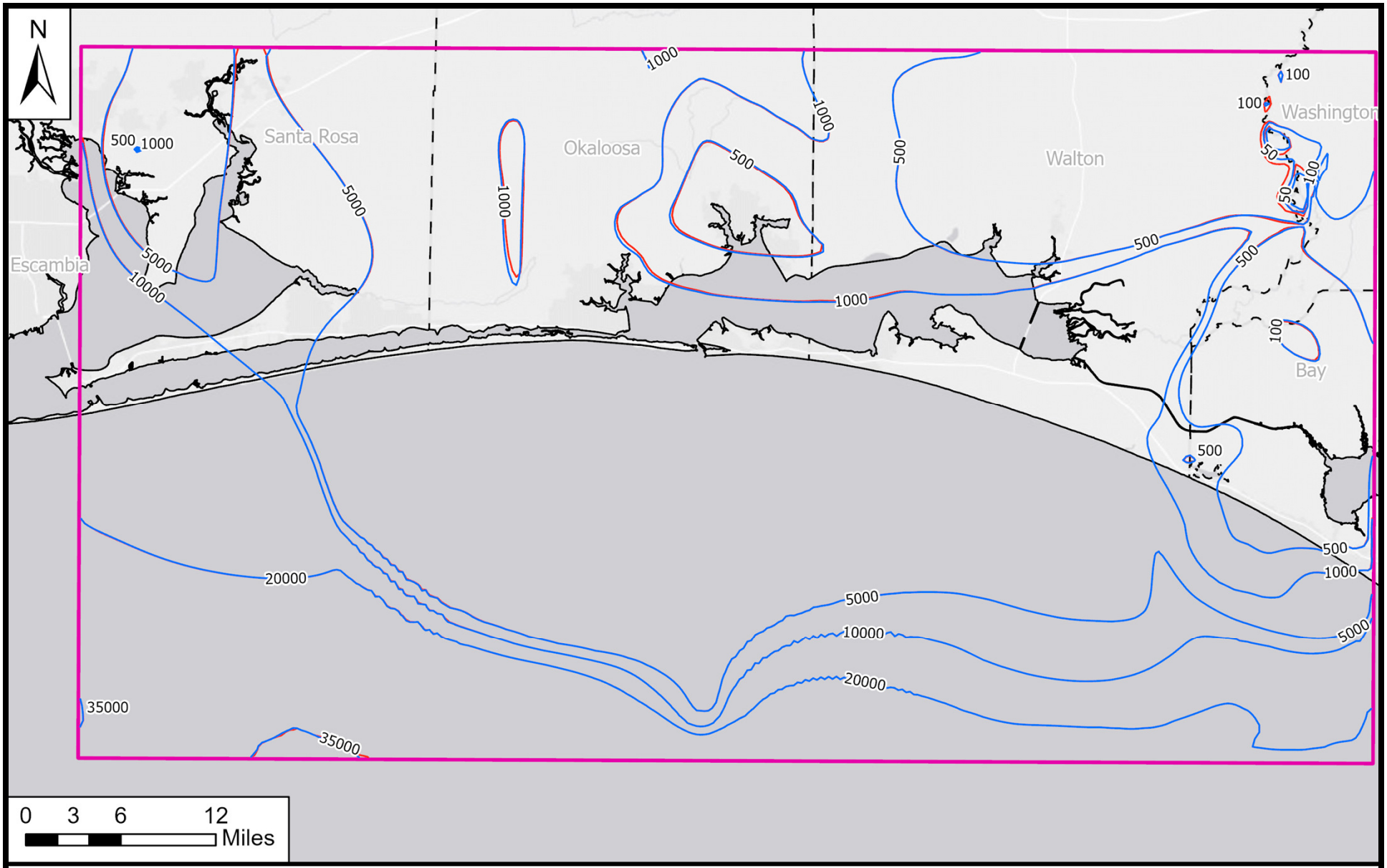

Figure 43 – Predictive scenario 3 simulated groundwater concentration contours (mg/L TDS) in the Lower Floridan Aquifer (layer 15) for years 2015 and 2040.

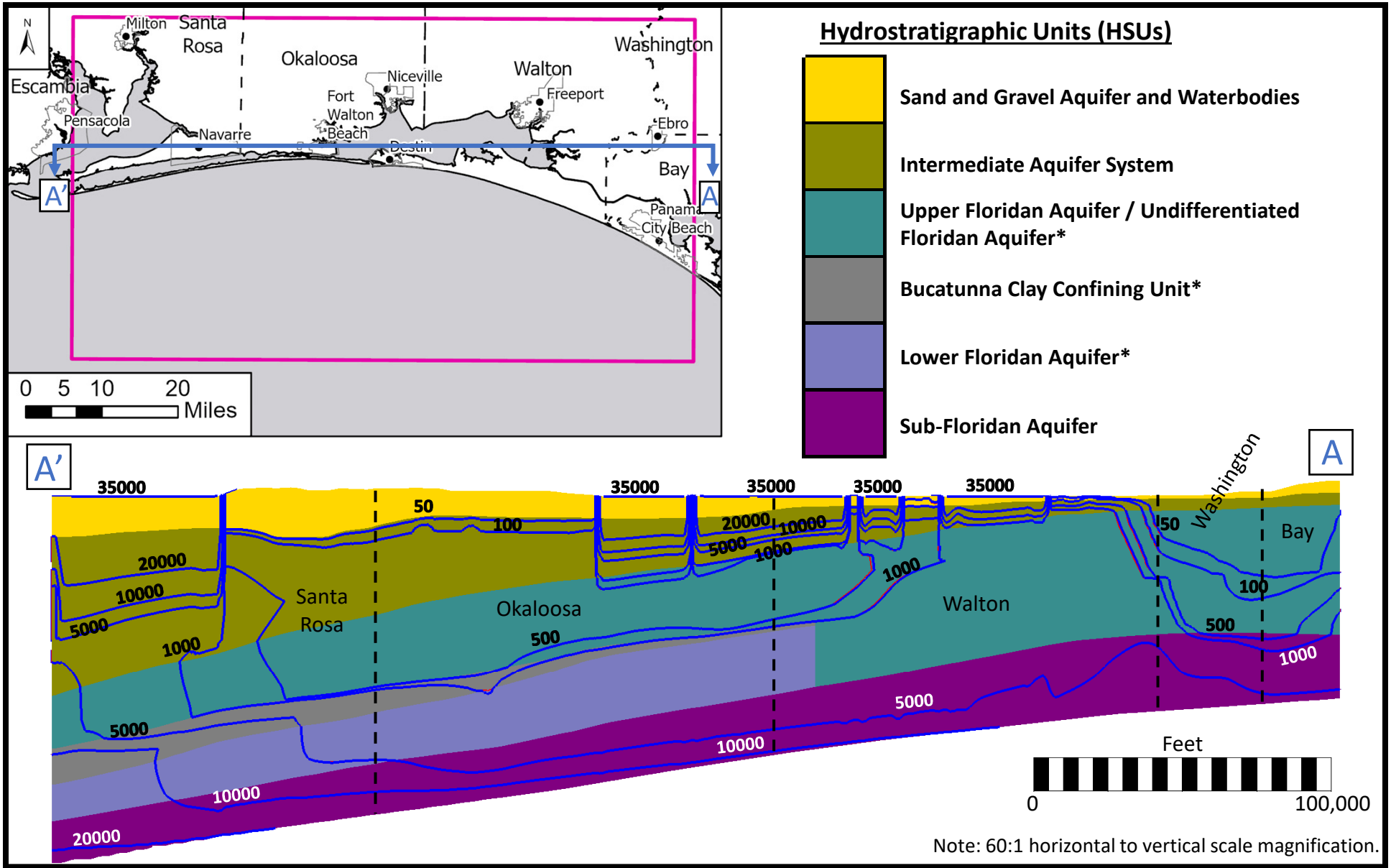

Figure 44 – Vertical cross-section (A-A') of predictive scenario 2 simulated groundwater concentrations (mg/L TDS) along row 70 for years 2015 and 2040. ***note: Location of transition from differentiated to undifferentiated Floridan Aquifer is approximate.**

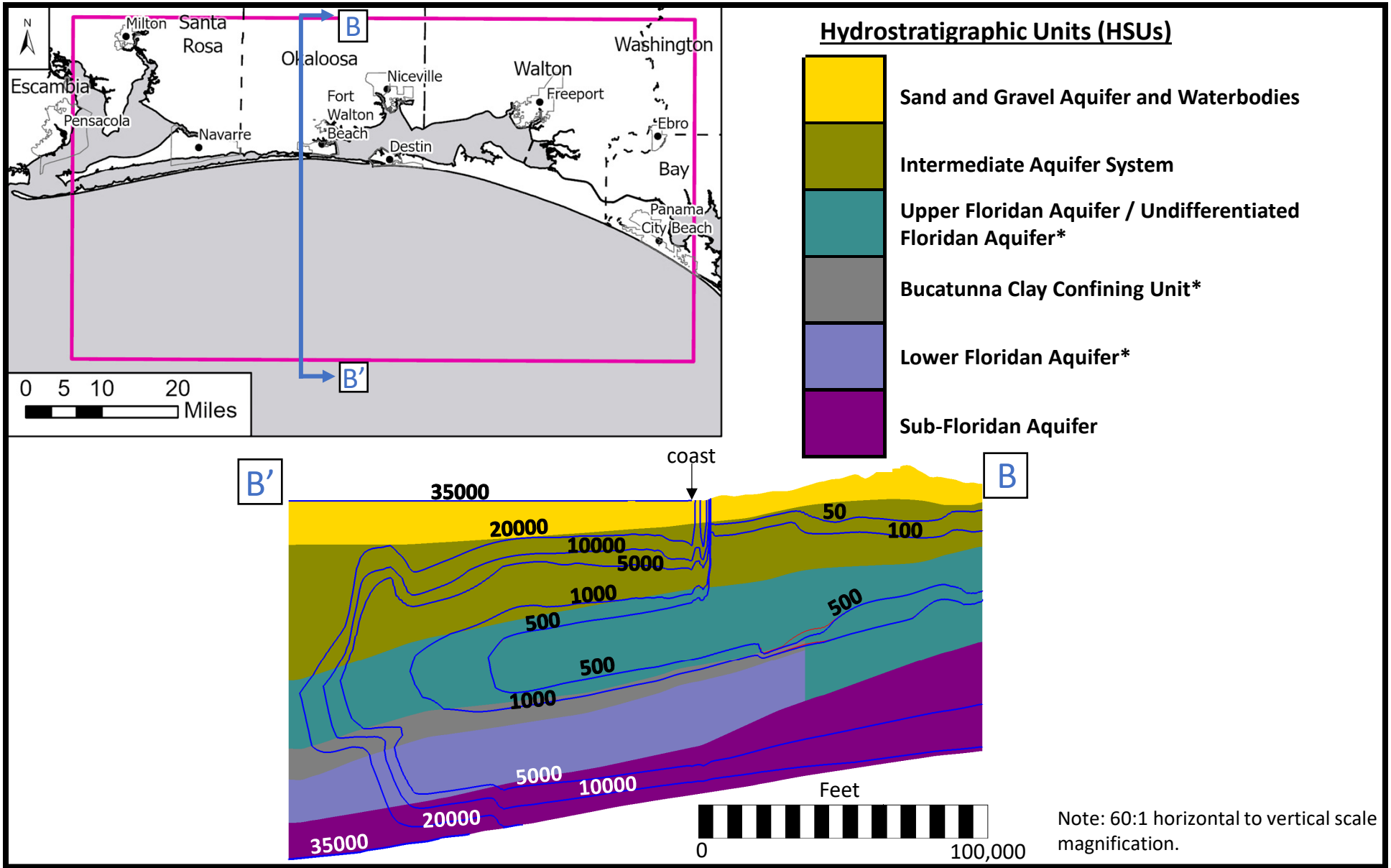

Figure 45 – Vertical cross-section (B-B') of predictive scenario 3 simulated groundwater concentrations (mg/L TDS) along column 125 for years 2015 and 2040. ***note: Location of transition from differentiated to undifferentiated Floridan Aquifer is approximate.**