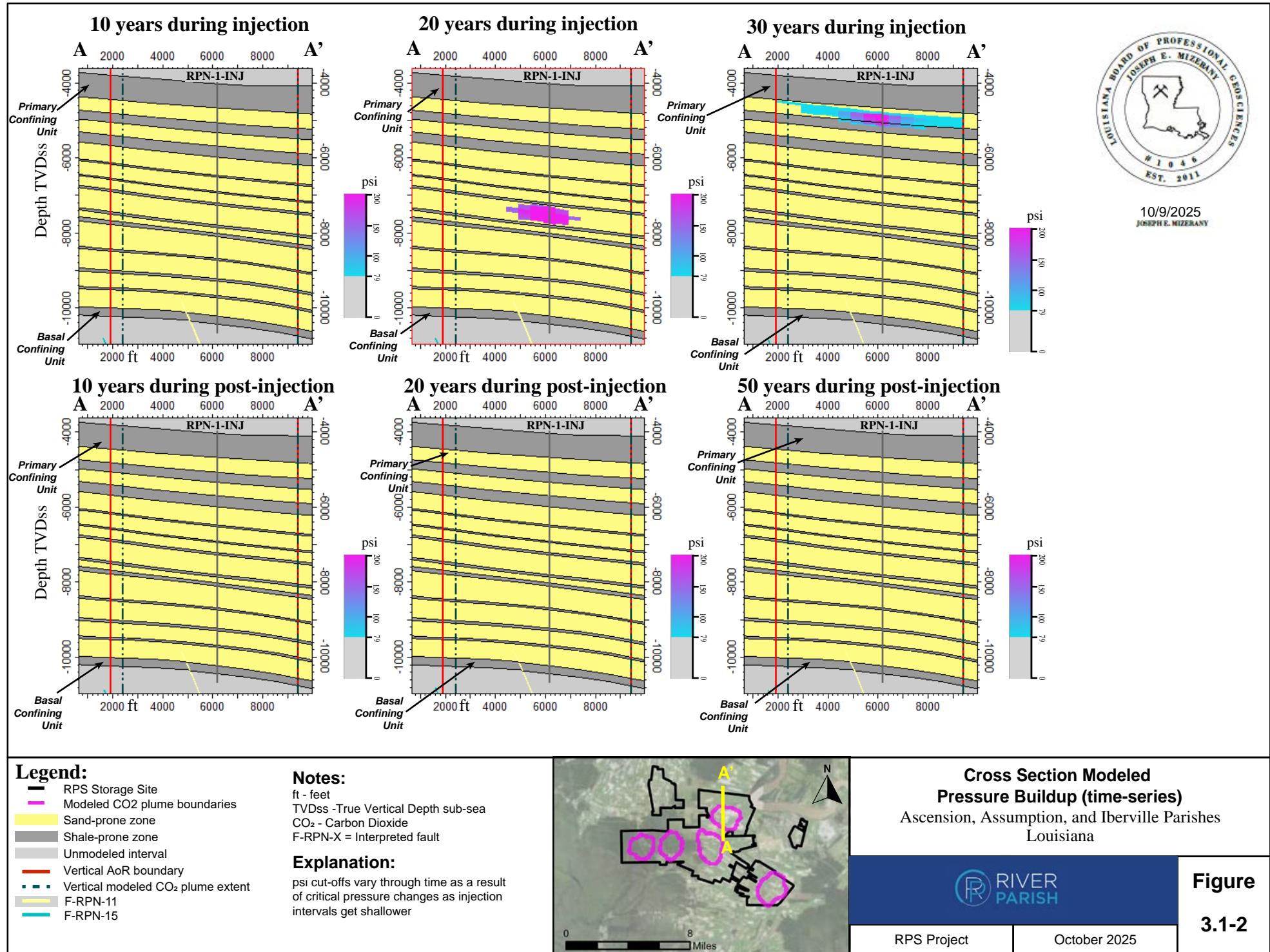
**Explanation:**

psi - pounds per square inch

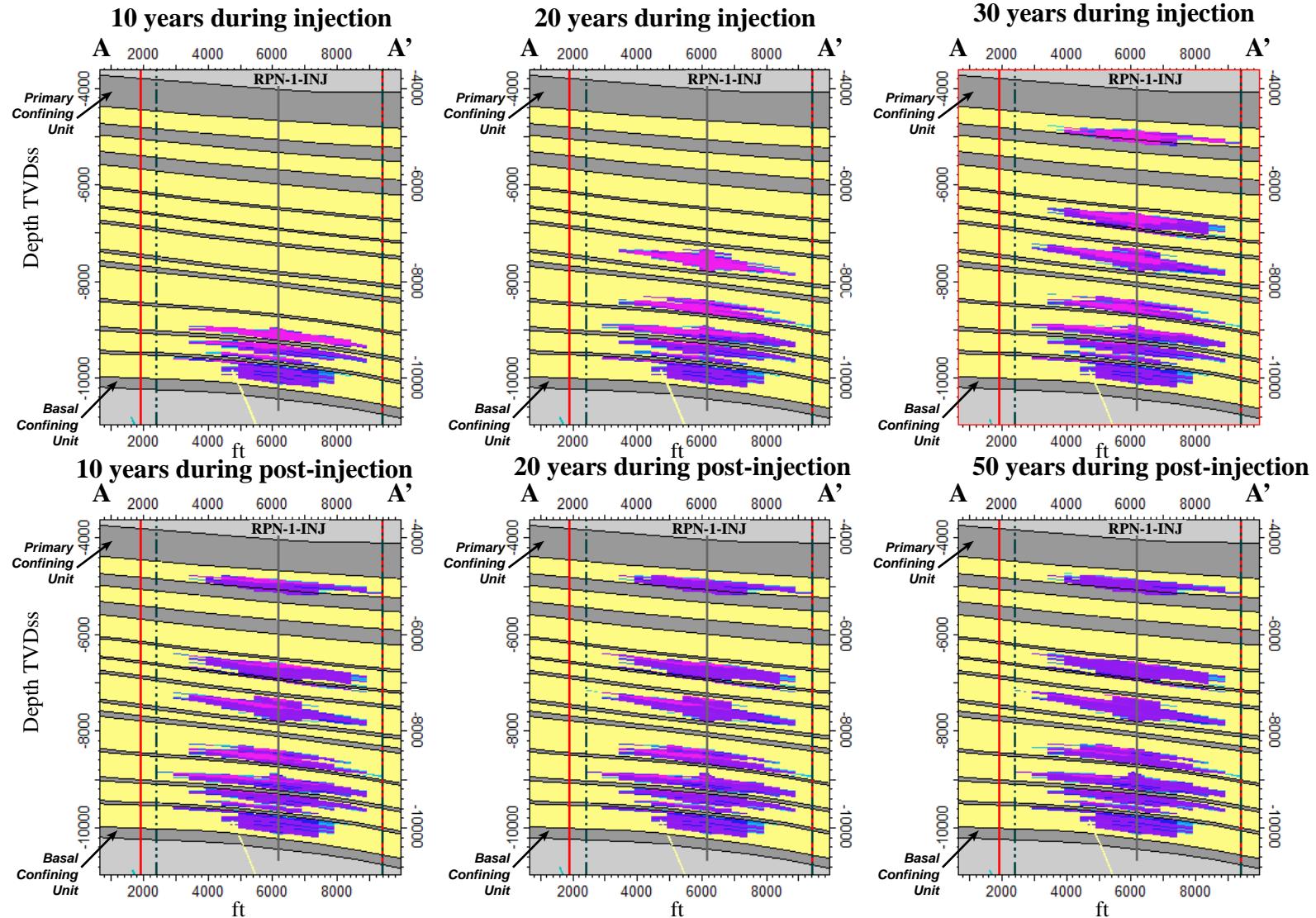
Pressure Differential Through Time at RPN-1-INJAscension, Assumption, and Iberville Parishes
Louisiana**Figure****3.1-1**

RPS Project

October 2025





**Legend:**

- RPS Storage Site
- Modeled AoR boundary
- Sand-prone zone
- Shale-prone zone
- Unmodeled interval
- Vertical AoR boundary
- Vertical modeled CO₂ plume extent
- F-RPN-11
- F-RPN-15

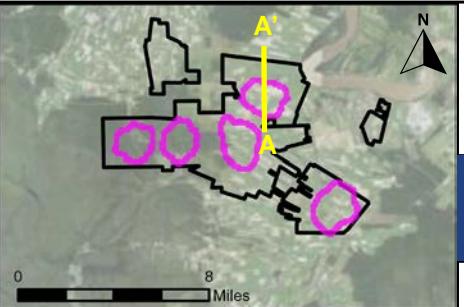
**Notes:**

ft - feet

TVDss - True Vertical Depth sub-sea

CO₂ - Carbon Dioxide

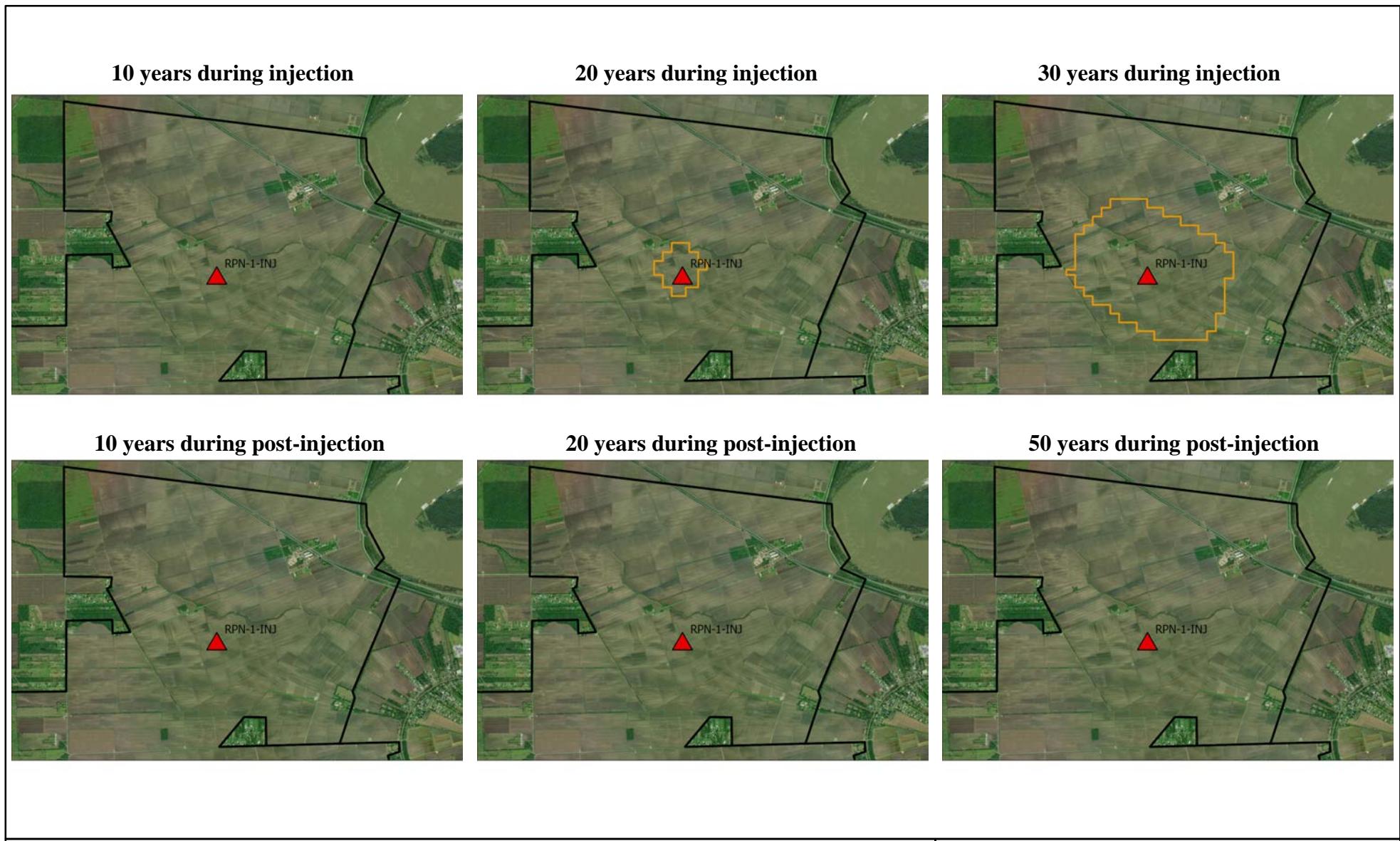
F-RPN-X = Interpreted fault



Cross Section Modeled CO₂ Saturation (time-series)
Ascension, Assumption, and Iberville Parishes
Louisiana



10/9/2025
JOSEPH E. MIZERANY

**Legend:**

- RPN Storage Site
- Pressure Front
- ▲ RPN-1-INJ

Notes:

Showing maximum pressure front at each X/Y cell for all depths.

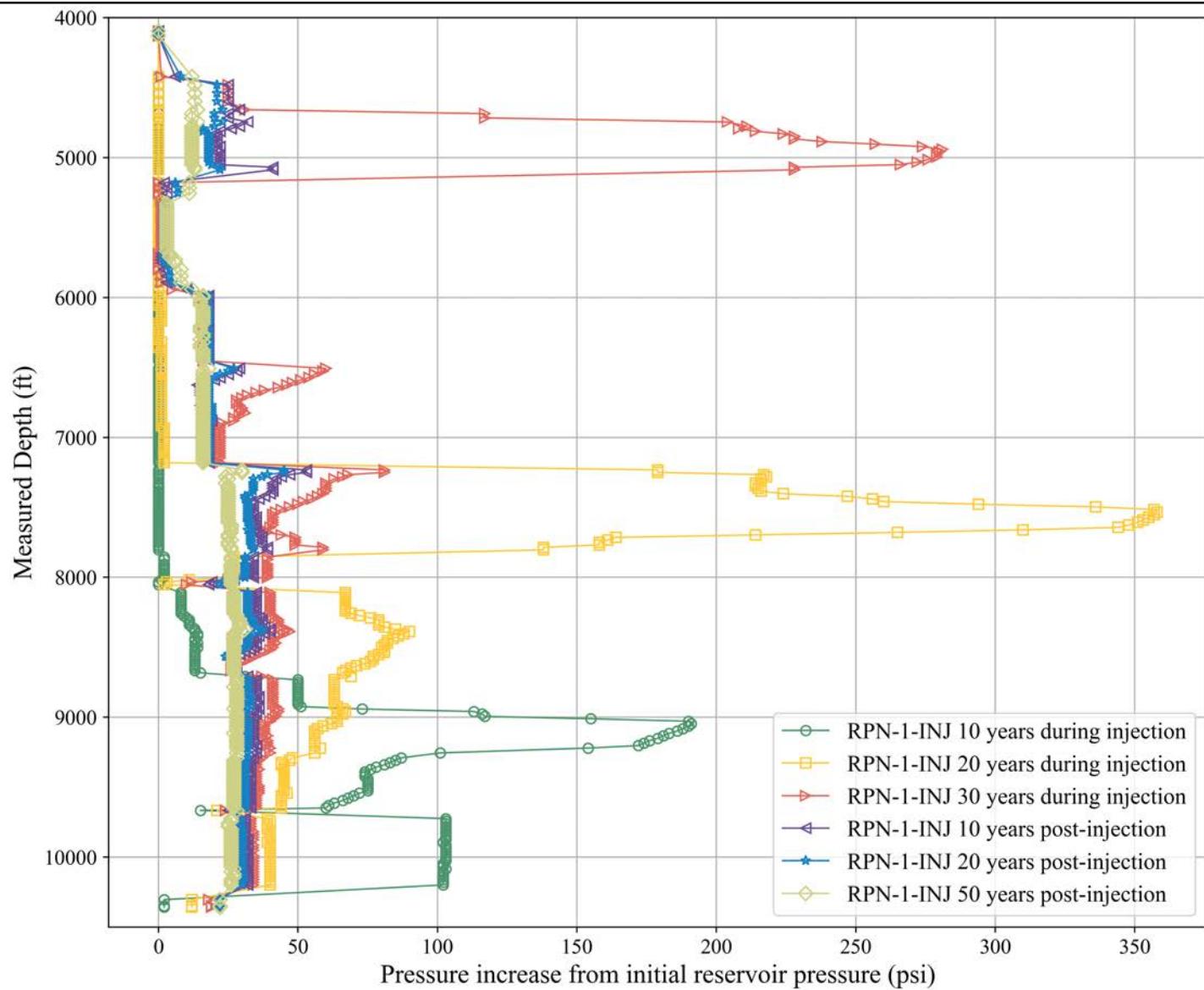
Top-View Map of Pressure Front from RPS Model

Ascension, Assumption, and Iberville Parishes
Louisiana

**Figure****3.2-3**

RPS Project

October 2025

**Explanation:**

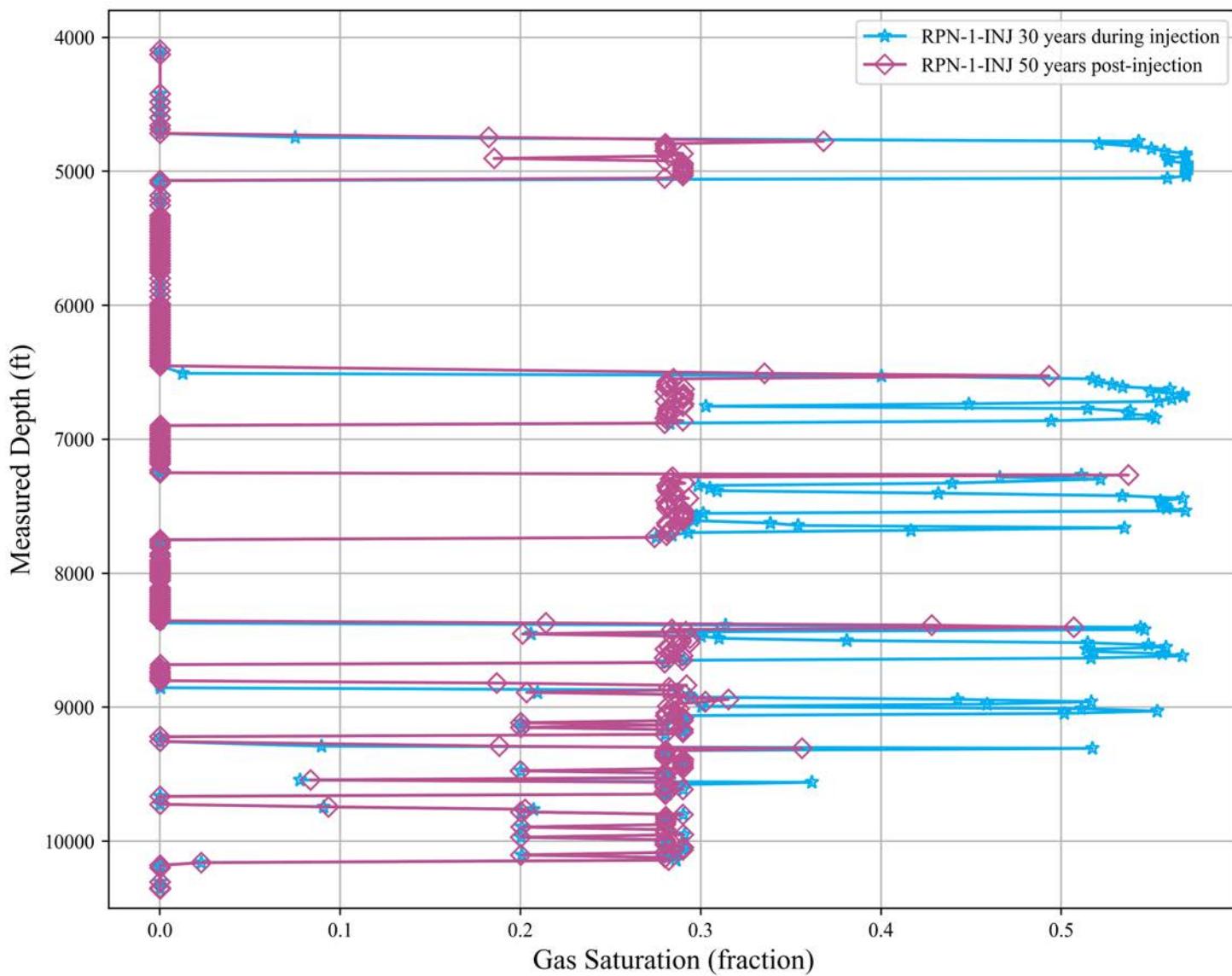
psi - pounds per square inch

ft - feet

**RPS Model Predictions of Pressure Buildup
Along the RPN-1-INJ Well Over Time**
Ascension, Assumption, and Iberville Parishes
Louisiana



Figure
3.2-4

**Explanation:**

psi - pounds per square inch

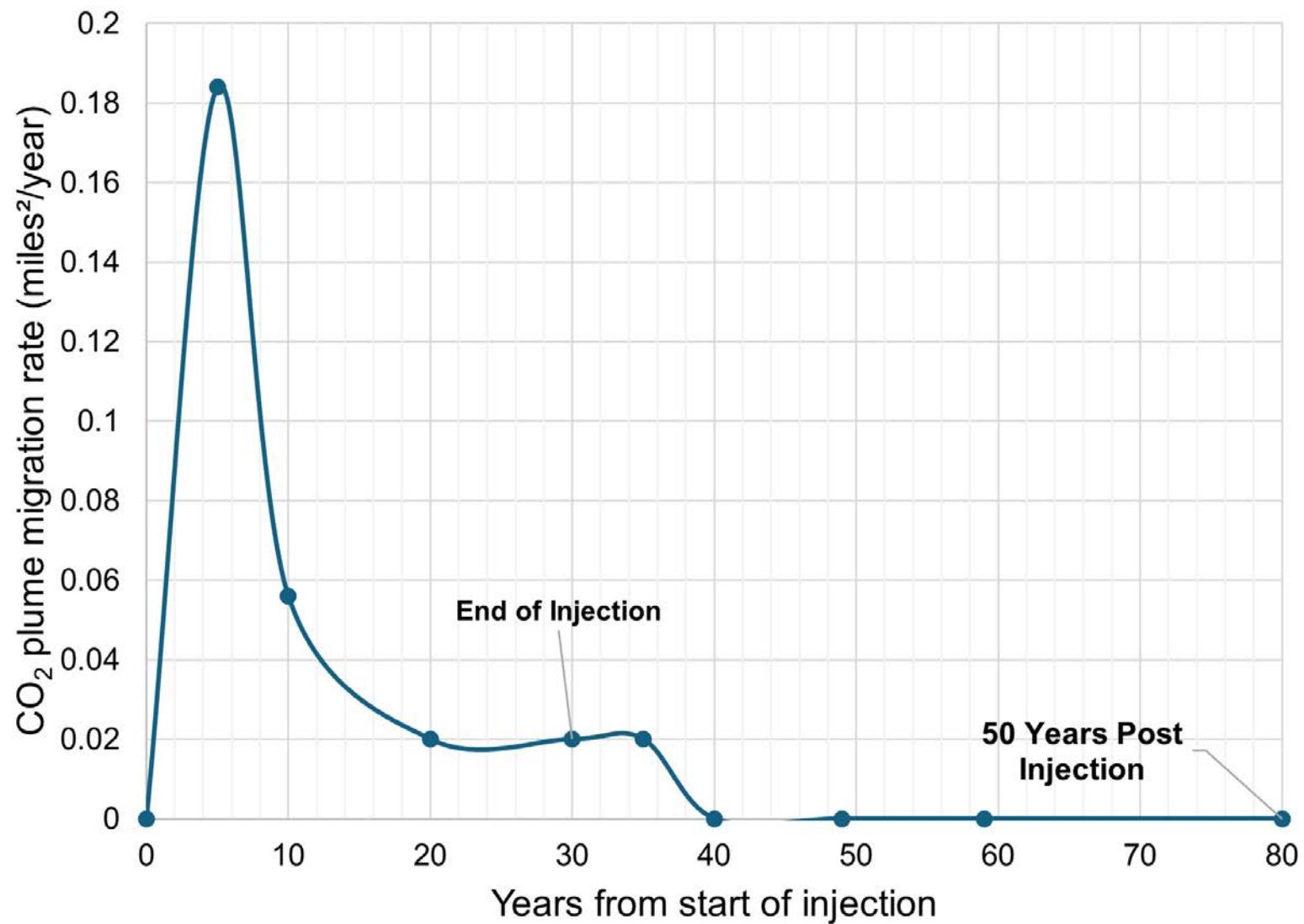
ft - feet

**Modeled CO₂ Saturation Along
the RPN-1-INJ
at 30 Years Injection and 50 Years Post Injection**
Ascension, Assumption, and Iberville Parishes
Louisiana

**Figure****3.2-5**

RPS Project

October 2025



Explanation:
CO₂ - carbon dioxide

Notes:
The CO₂ plume boundary is cutoff with gas saturation above 3%.

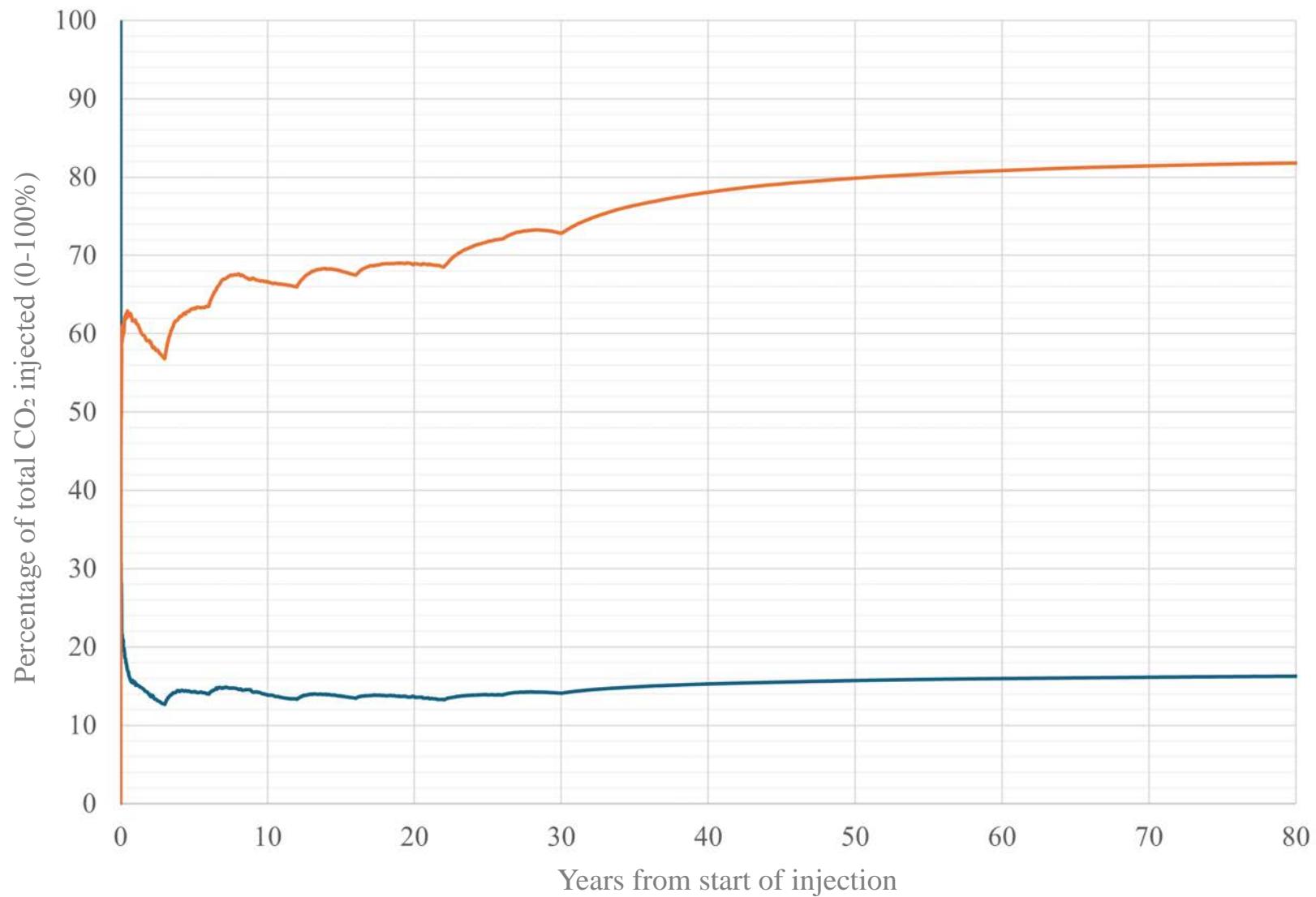
RPS Base Model Predictions for CO₂ Plume Migration Rate at RPN-1-INJ
Ascension, Assumption, and Iberville Parishes
Louisiana



RPS Project

October 2025

Figure
3.2-6

**Legend:**

— Dissolved CO₂
— Capillary Trapped CO₂

Explanation:

CO₂ - Carbon Dioxide
 % - percent

CO₂ Trapping Versus Time

Ascension, Assumption, and Iberville Parishes
Louisiana



Figure

3.2-7

RPS Project

October 2025