# Surat (SRT) - Class: 4



**Top-left panel (Magnitude vs Date):**
- Y-axis: Magnitude (MW), range 2.5 to 7.0
- X-axis: Date, 1900 to 2020
- Legend: 62 Failed (blue), 15 Passed (red)

**Bottom-left panel (Cumulative count):**
- Y-axis: Count | MW >= 3.0, range 0 to 16
- X-axis: Event Year, 1900 to 2020

**Center panel (Cumulative Rate vs Magnitude):**
- Y-axis: Cumulative Rate (/yr), $10^{-7}$ to $10^2$
- X-axis: Magnitude (MW), 2 to 7+
- Legend:
  - Zone Rates (red filled circles)
  - Class Rates (blue open circles)
  - Class Fit (black dashed)
  - Area Norm (red dashed)

N Earthquakes: 15
Regression Mmin: 2.5

|  | N0 | Beta | bval | Mx |
|---|---|---|---|---|
| Upper 1.73x | 229.8 | 2.07 | 0.900 | 7.7 |
| Upper 1.00x | 322.2 | 2.19 | 0.950 | 7.7 |
| Best Estimate | 406.9 | 2.34 | 1.018 | 7.5 |
| Lower 1.00x | 479.6 | 2.50 | 1.086 | 7.3 |
| Lower 1.73x | 672.4 | 2.61 | 1.136 | 7.3 |

**Top-right panel (Depth histogram):**
- Y-axis: Count, 0 to 9
- X-axis: Hypocentral Depth (km), 0 to 80
- Legend: Fixed Depths (white), Free Depths (green)

**Bottom-right panel (Map of Australia):**
- Latitude 10°S to 40°S, Longitude 110°E to 160°E
- Magnitude scale legend: 3.0, 5.0, 7.0