



TCE Model Pedigree

TCE is a TSTAR legacy product

TCE has been used by SPY-1 Community since 2001

- Accepted as valid for ET&E by TechRep and NSWC-Dahlgren
- Predecessor (ADAM) used since 1993 for SPY-1 analysis
- PEO IWS 1.0 endorsed AEGIS representation for CS Element use
- Accredited by IWS1 for Baseline 9 DT Runs for the Record

Models

- Framework since 2001, developed by TSC
- Environment Model since 2001, developed by TSC
 - imports **ONI model data** for threat trajectories
 - verified jammer model with CSSQT EA events
 - utilize **DIDP model** for BMD targets (Aegis standard)
 - propagation model uses **TEMPER** (Aegis standard)
 - clutter model compared to recent at-sea test data
- SPY-1 Model since 1993, developed by TSC
 - verified with at-sea data from numerous at-sea events
- SPQ-9B Model since 2005, developed by TSC
 - used as part of LPD-17 PRA (official validated tool suite)
- Missile Model since 2005, based on SPY SDM model
 - registered with APL's SM2 6DoF accredited model for SM2