Prediction Formats Study Group

R. Ricklefs, The University of Texas at Austin
For the ILRS Prediction Format Study Group
Introduction

• Consolidated Prediction Format provides method of ranging to disparate targets using one format
• Allows cross-technique ranging attempts
• Does not rely on on-site gravity model, tuning, or separate drag and time bias functions
• Tabular format contains un-tuned state vectors at appropriate intervals
• Typically in true body fixed system of date
Status

• Format is stable except for more obscure fields
• MLRS field tests have begun
  – Data has been acquired on 4 slr passes using the HTSI-derived predictions
  – NSGF predicts are being evaluated
  – LLR changes and predictions are in place awaiting tests
Status - 2

• Transponder predictions tested via simulations
• Additional field tests planned
  – NERC SGF
  – EOS/Mt. Stromlo
• New Format and sample code being worked