State of PROMISE

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Done to date

- **LSF parallelisation**
- **tested with FLINT on synthetic dataset**
- **Fourier application (uncertainty, full stack)**
- **help system**
- **reads VT files**
- **course (technology transfer)**
- **Goodwyn (Australian- NW shelf, structural uncertainty)**
- **background on AVF**
  - geology
  - RNG
  - Felix
  - UCSD

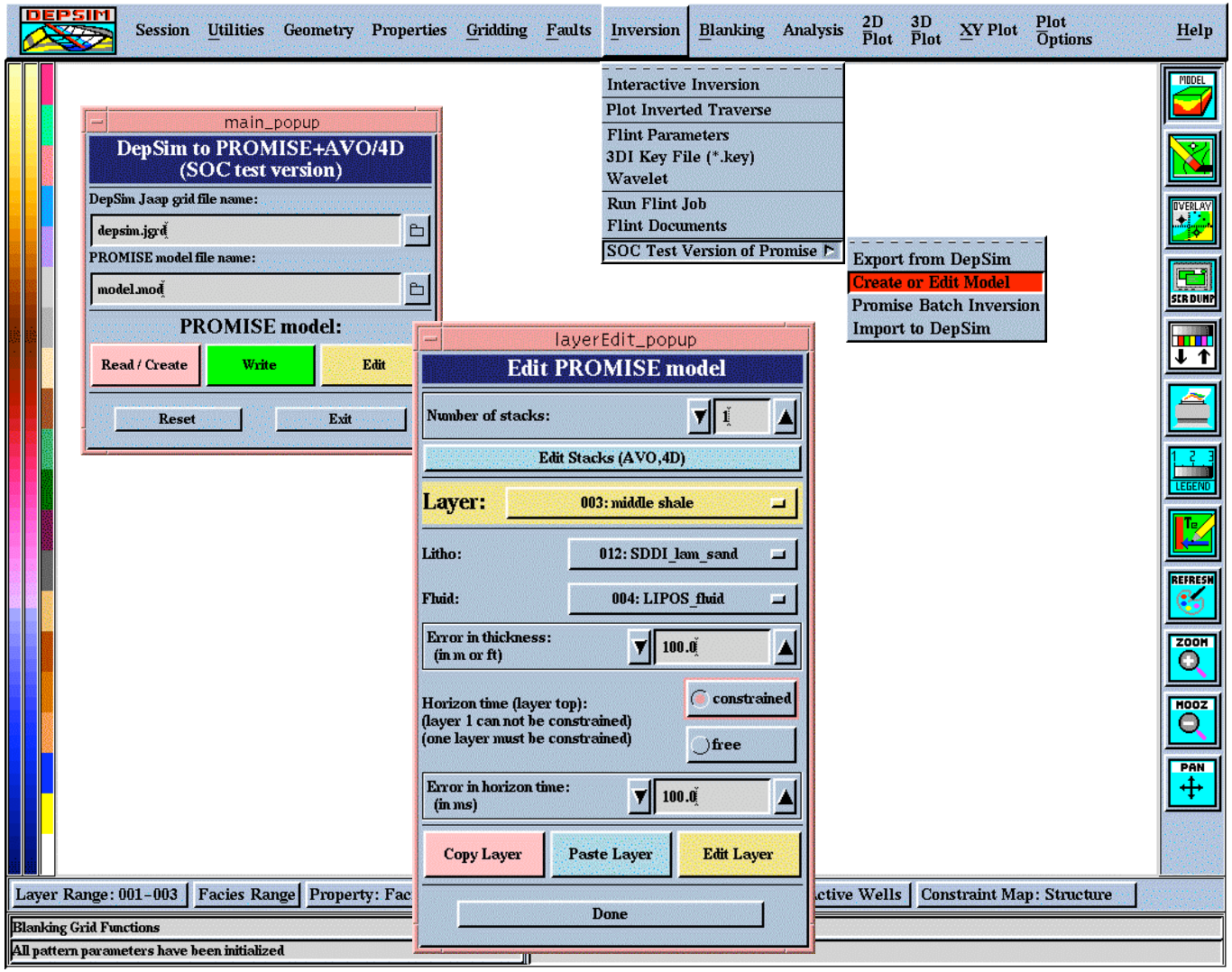
Things in progress

- **Ram-Powell (AVO + NN)**
- **Grover (4D)**
- **output VT files**
- **Fram (North Sea - Forties, cycle time)**

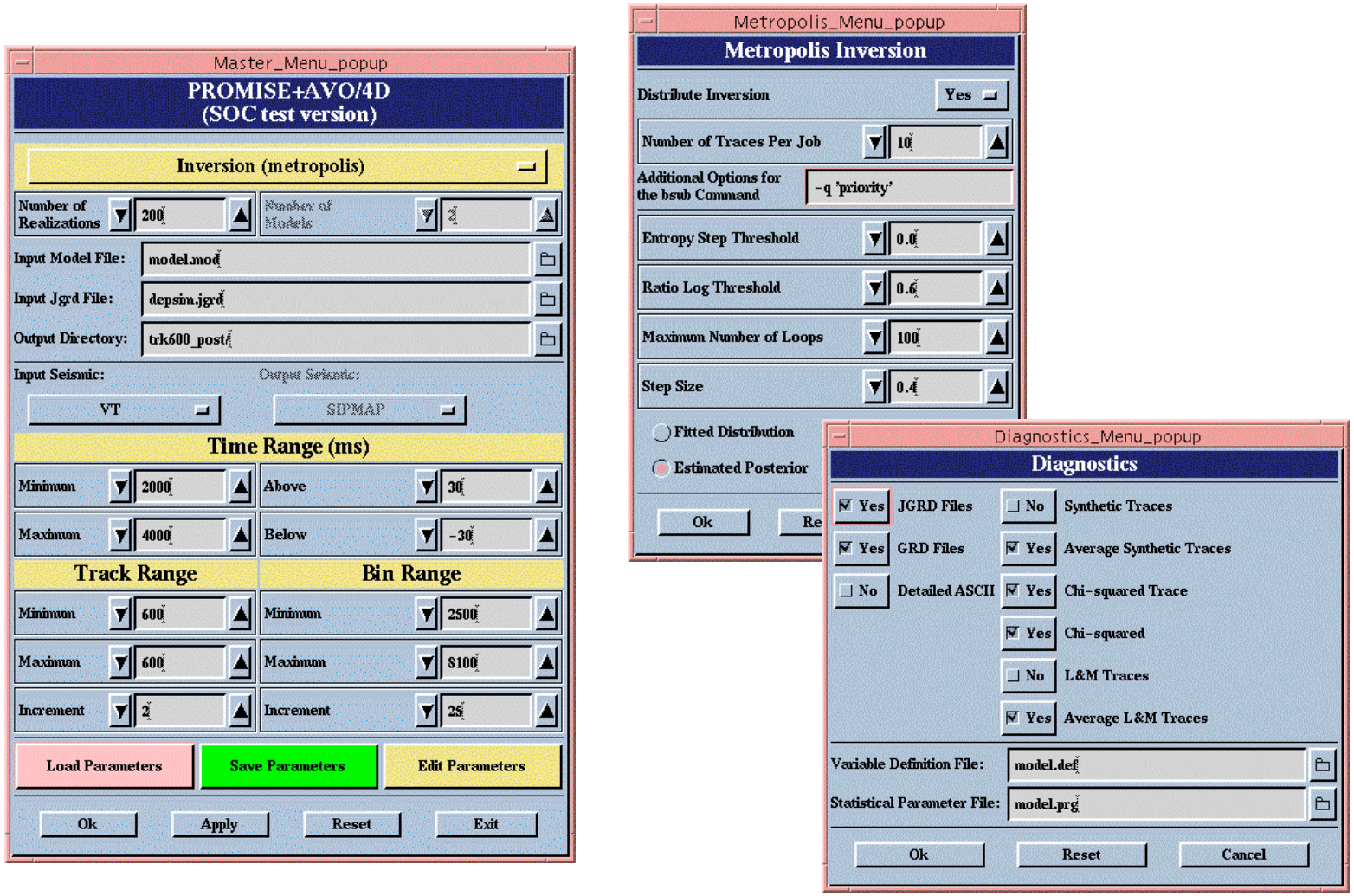
The future

- **sensitivity analysis**
- **spatial correlation**
- **display enhancement (multiple models)**
- **optimization**
  - matrix
  - annealing
  - time constraints
- **4D pressure changes**
- **RNMO**
- **AVF**
  - analytic theory
  - Bell and Brushy model
  - REX model of model

Number of steps reduced and menus made more DepSim like



New interface for doing PROMISE inversion

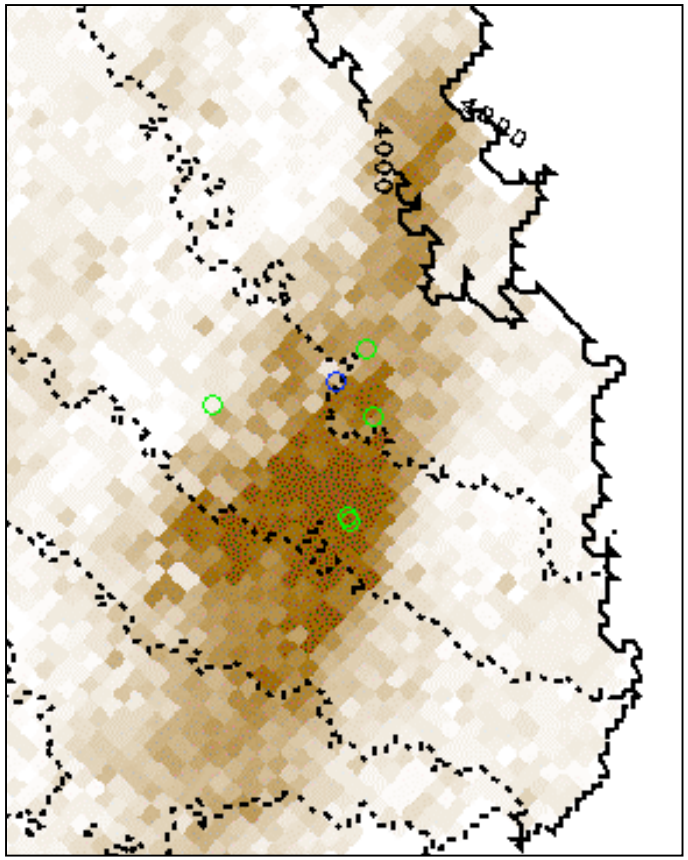


PROMISE inversion done on business relevant time scale

- **cycle time reduced to 8 calendar days (FRAM North Sea - Forties)**
  - DepSim model build
  - petrophysical analysis
  - wavelet derivation
  - PROMISE and FLINT inversion
- **1 day to invert 150x150 model with 7 layers (with LSF and 60 nodes)**

Preliminary Ram/Powell N-sand results

net sand (ft, P50)



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