3D inversion of The Bhima basin MT dataset

Xavier Garcia
Strike Analysis

- “strike” algorithm (McNeice and Jones, 2001)
- Based on Groom and Bailey decomposition (Groom and Bailey, 1989)
- Individual sites
- Individual frequencies
- Finally decades to estimate best strike angle
Line E

50 Hz

5 Hz

5 s

50 s

500 s
Line C
Line W
WSINV3D:
• Mesh: 70x37x29
• 11 frequencies: 10Hz to 1820s
• 1 single processor

MT3DINV:
• Mesh: 33x66x44
• 11 frequencies: 10Hz to 1820s
• Cluster: 8 processors
Final remarks

• Do it right:
  – Check mesh/air layers
  – Frequency selection
  – Data selection

• Patience
Acknowledgements

- Weerachai
- Colin
- C.K. Rao
- Anna Martí