Extended Source Inversion: a potential alternative to LF FWI

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Inversion with extended source: access kinematic info in HF data w/o picking

- Surface extension source energy spreads over 2D surface – fit any data with any velocity!
- Data misfit + penalty for energy spread beyond acquisition footprint: forces velocity to match data kinematics
- Examples: 2D synthetic, 3D marine
- Sketch of theoretical justification
- Limitations, prospects







SSE

