

# Radar data ready for inversion

## Inversion routine

1. Begin while loop.
2. Compute update,
  - Begin for loop through experiments,
  - load source-receivers,  $d^o$ ,  $\text{std}(d^o)$  and source wavelet,
  - build  $M_w$ ,
  - forward run,
  - evaluate objective function,
  - compute gradient
  - compute step-size,
  - compute and store update,
  - estimate source wavelet and store,
  - end for loop.

Stack all updates into one update.

3. Update.
4. End while loop.

## Sources and receivers

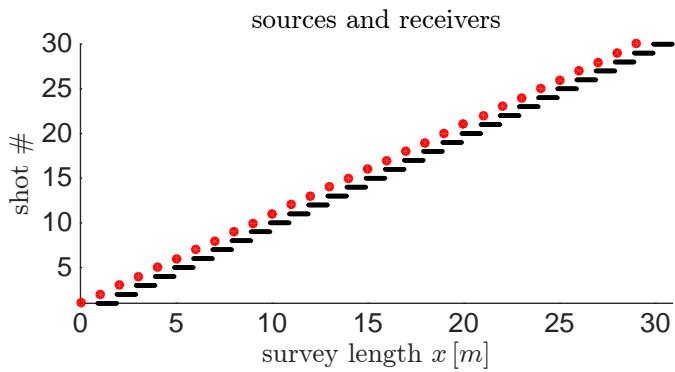
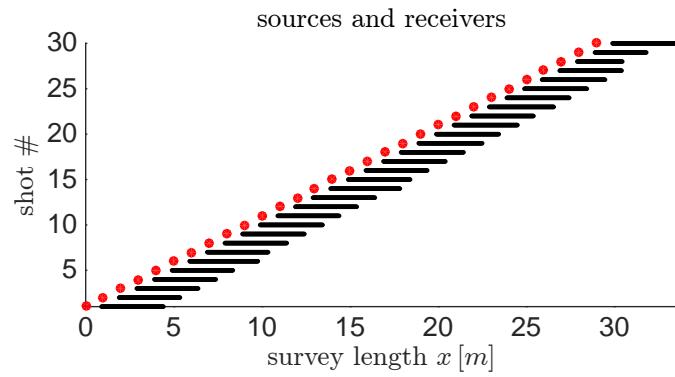


Figure 1: **Top:** shot gathers performed in the survey. **Bottom:** amputated shot gathers.

## “Observed” data

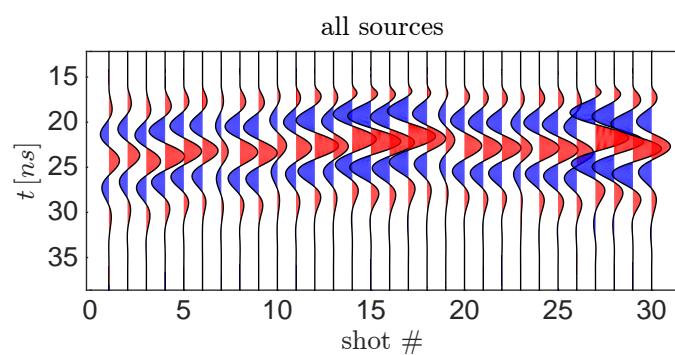
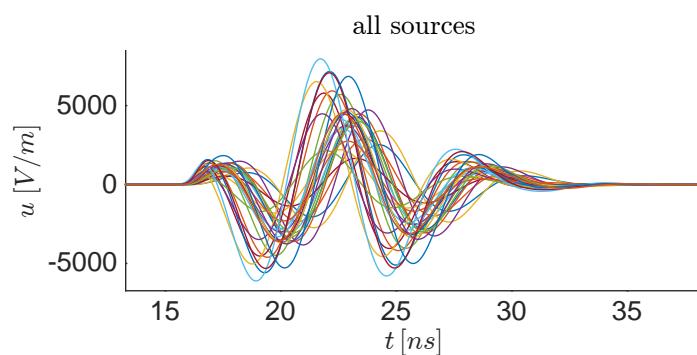


Figure 2: Source estimation with time and amplitude correction for all shot gathers.

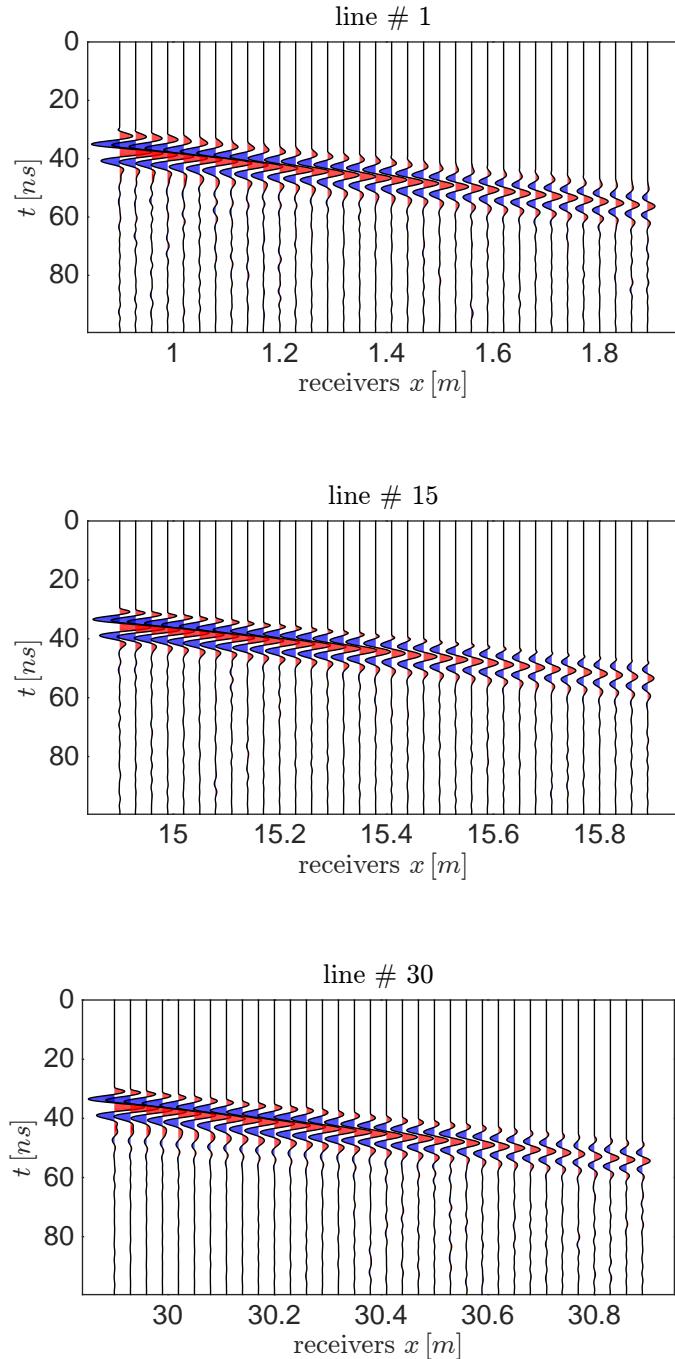


Figure 3: Observed data  $f$ -filtered, receiver amputated, 2d corrected, air-wave muted and time interpolated.

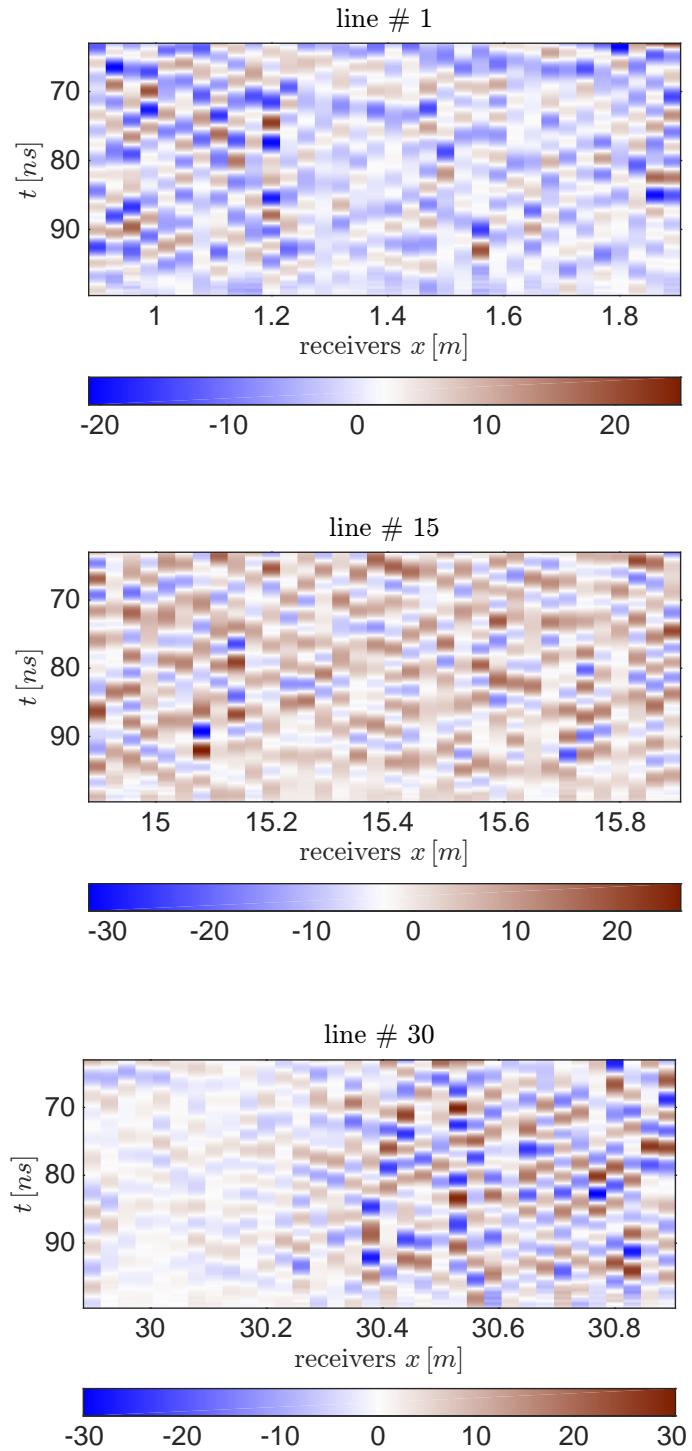


Figure 4: Time zoom of observed data  $f$ -filtered, receiver amputated, 2d corrected, air-wave muted and time interpolated.