Appendix D

Valhall Scholte-wave group-velocity maps

This appendix contains all Valhall Scholte wave group-velocity maps for two central frequency ranges, $0.75 - 0.95$ Hz and $1.35 - 1.55$ Hz, based on 6-, 12-, 24-, 60- and 120-hour non-overlapping stacks. I used 24 hours of recording from 2004, 6 hours of recording from 2005 and a little over 5 days of recording from 2010. For each central frequency range, I compute four Scholte wave maps based on 6-hour stacks can be computed for 2004, one for 2005 and twenty for 2010. Based on 12-hour stacks I compute two maps for 2004 and ten maps for 2010. Based on 12-hour stacks I compute two maps for 2004 and ten maps for 2010. Based on 24-hour stacks I compute one map for 2004 and five maps for 2010. Based on 60-hour stacks I compute two maps for 2010. Finally, based on a 120-hour stack I compute one map for 2010.

All Scholte wave group velocity maps from 2004 and 2005 data, for both central frequency ranges, are presented in Figure D.1. Scholte wave maps from 2010 based on 6-hour stacks are shown in Figures D.2 and D.3 for central-frequency ranges $0.75 - 0.95$ Hz and $1.35 - 1.55$ Hz, respectively. Scholte wave maps from 2010 based on 12-hour stacks are shown in Figure D.4. Scholte wave maps from 2010 based on 24-hour, 60-hour and 120-hour stacks are shown in Figure D.5.

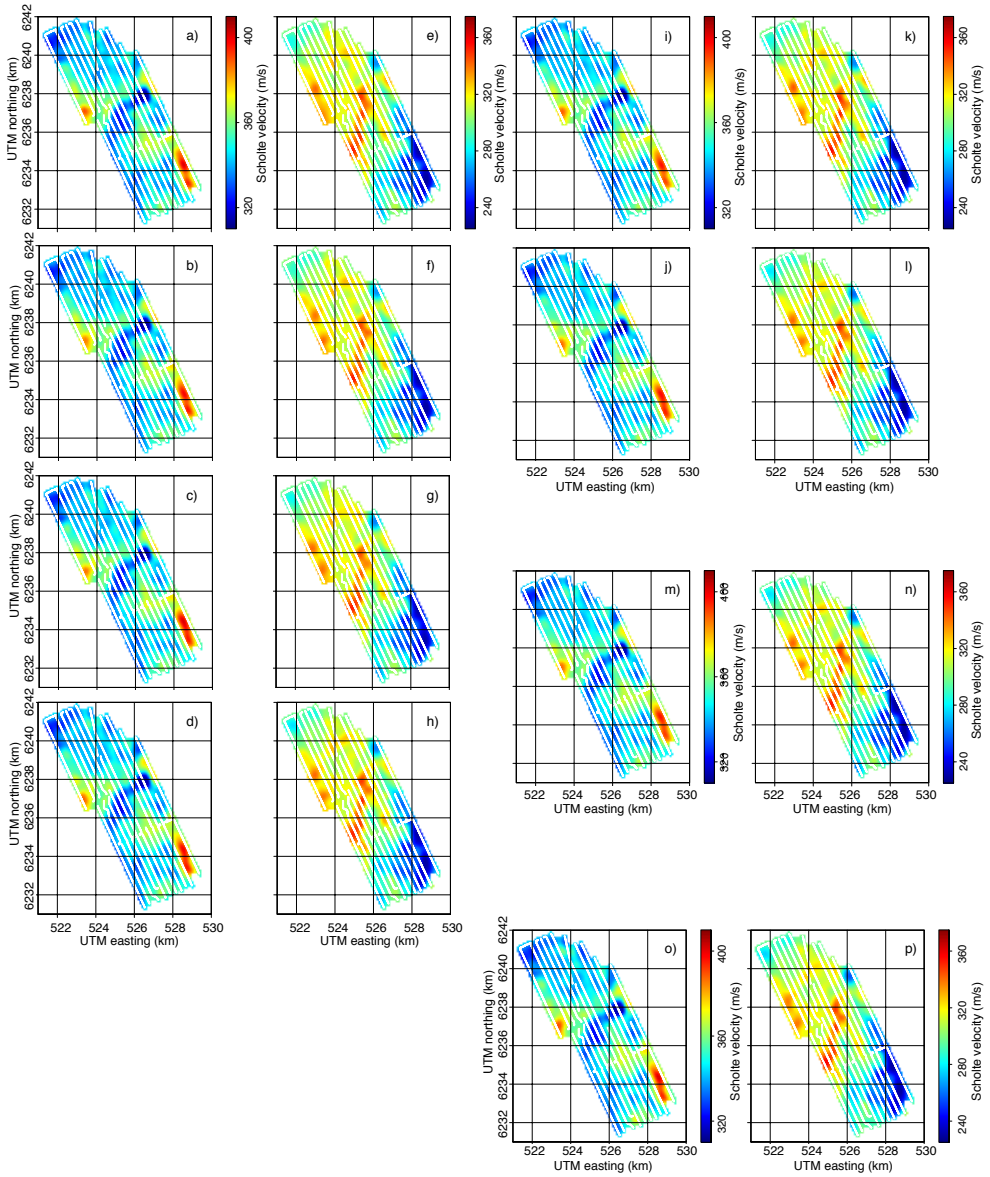

Figure D.1: Scholte-wave group-velocity maps for $0.75-0.95$ Hz from non-overlapping consecutive stacks of crosscorrelations of 2004 data: a) to d) from 6-hour long stacks, i) and j) from 12-hour long stacks, and m) from the stack of all crosscorrelations. Scholte-wave group-velocity maps for $1.35-1.55$ Hz from non-overlapping consecutive stacks of crosscorrelations of 2004 data: e) to h) from 6-hour long stacks, k) and l) from 12-hour long stacks, and n) from the stack of all crosscorrelations. Scholte-wave group-velocity maps from a 6-hour stacks of 2005 data: $0.75-0.95$ Hz in (o) and for $1.35-1.55$ Hz in (p). [**CR**] artjin-tomo-C3-C6

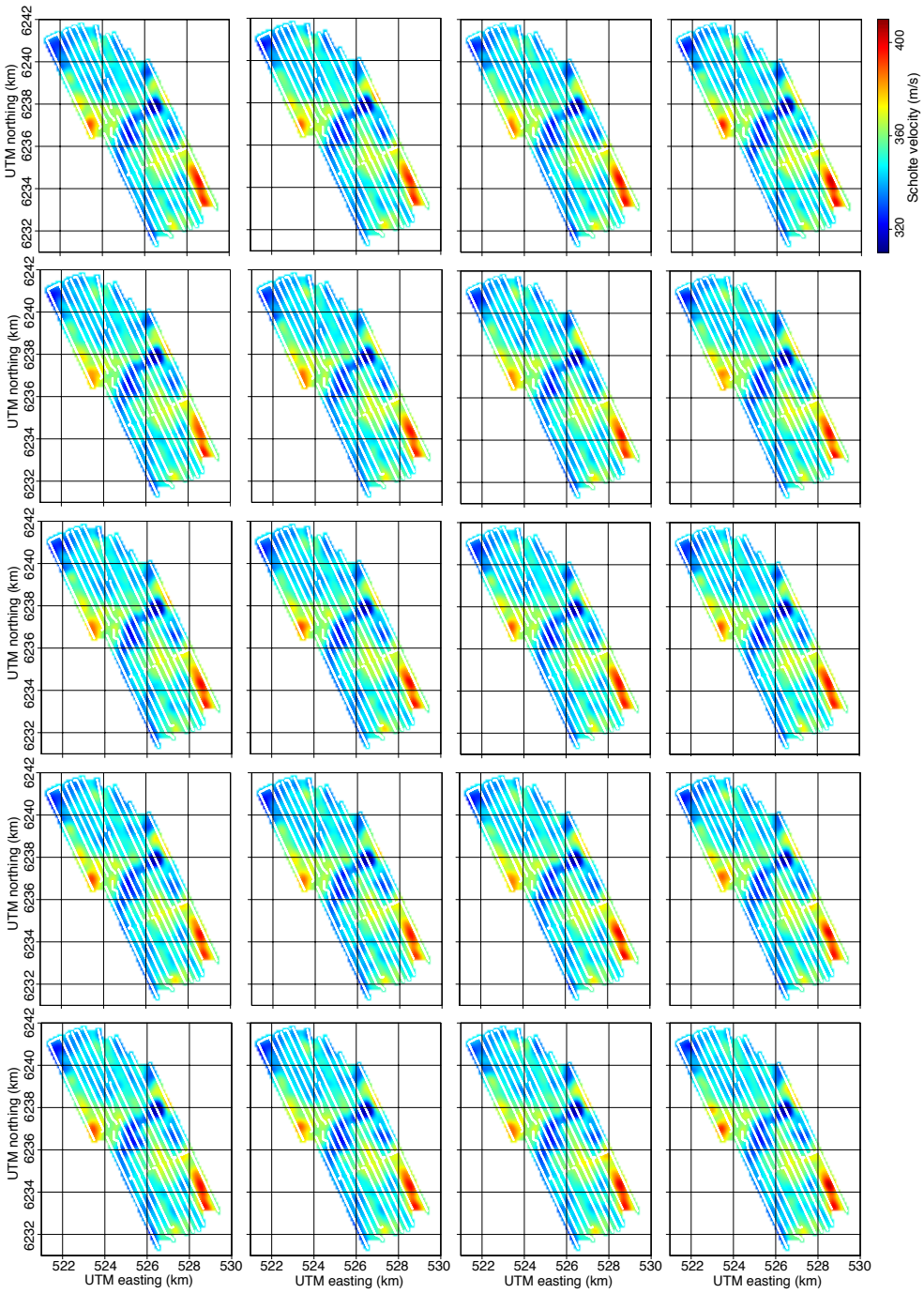

Figure D.2: Scholte-wave group-velocity maps for 0.75 − 0.95 Hz from twenty non-overlapping consecutive 6-hour stacks of crosscorrelations of 2010 data. [**CR**] joseph-tomo-sixes-C3

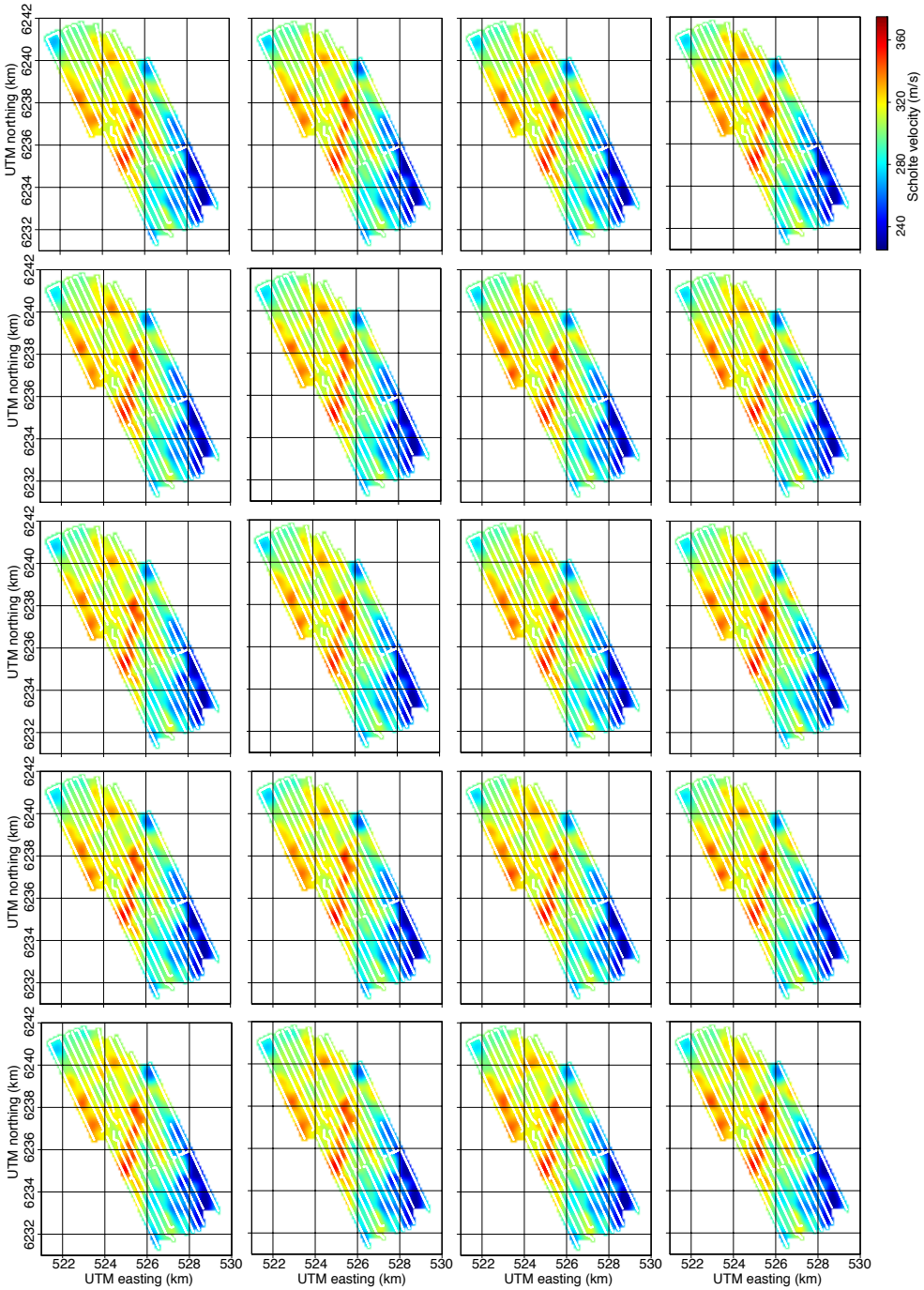

Figure D.3: Scholte-wave group-velocity maps for 1.35 − 1.55 Hz from twenty non-overlapping consecutive 6-hour stacks of crosscorrelations of 2010 data. [**CR**] joseph-tomo-sixes-C6

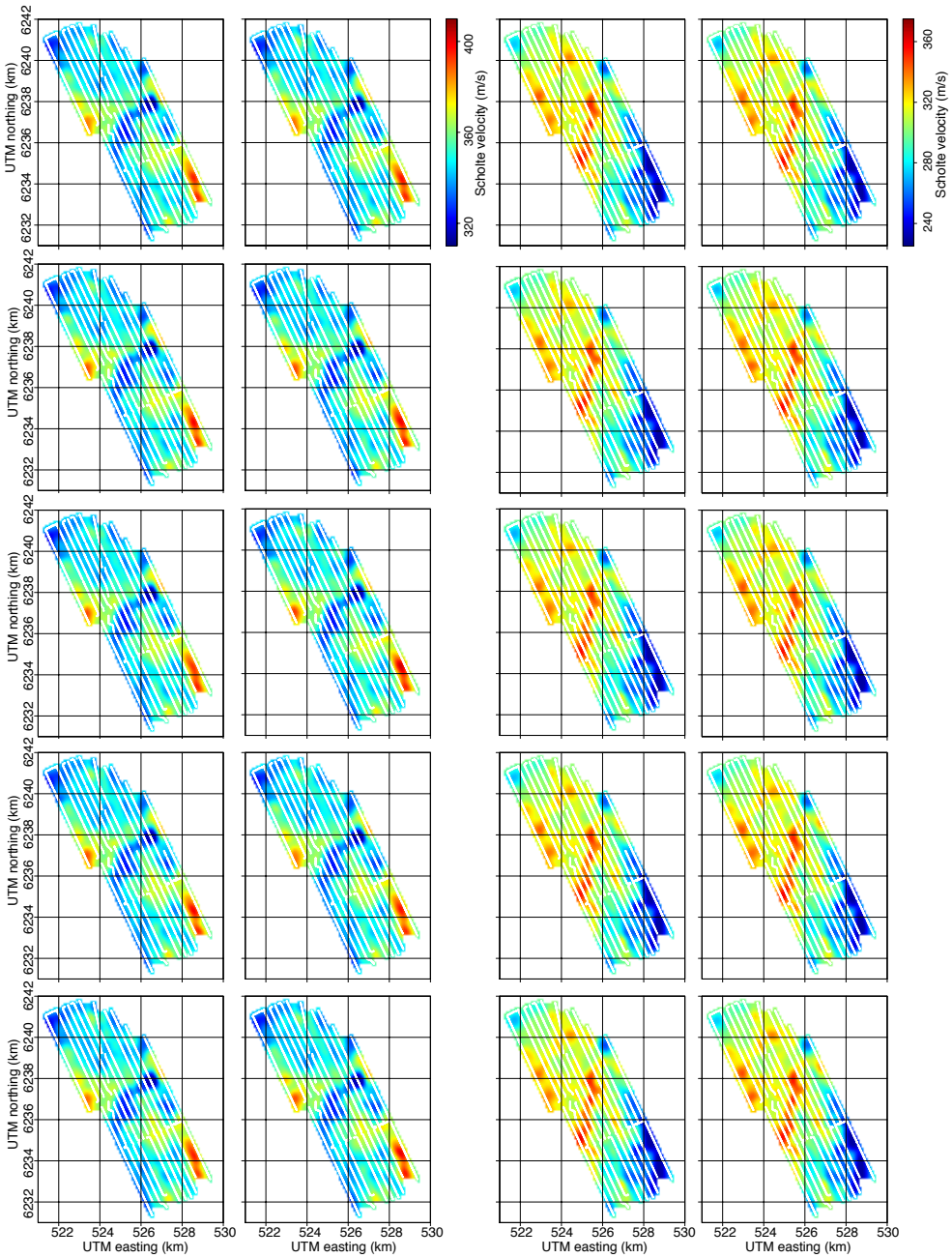

Figure D.4: The left two columns contain Scholte-wave group-velocity maps for 0.75−0.95 Hz from twenty non-overlapping consecutive 12-hour stacks of crosscorrelations of 2010 data. The right two columns contain Scholte-wave group-velocity maps for 1.35−1.55 Hz from twenty non-overlapping consecutive 12-hour stacks of crosscorrelations of 2010 data. [**CR**] joseph-tomo-twelves-C3-C6

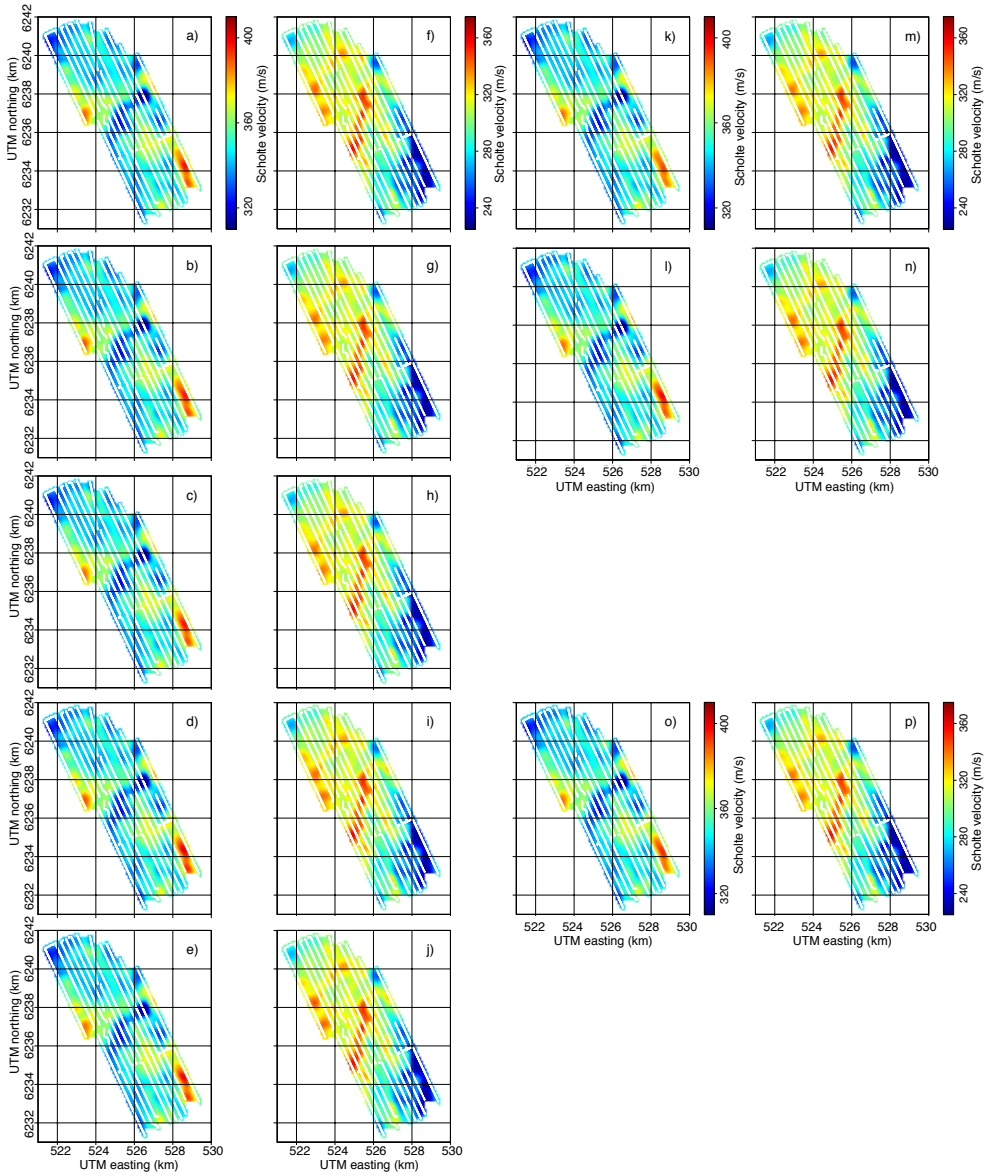

Figure D.5: Scholte-wave group-velocity maps for 0.75−0.95 Hz from non-overlapping consecutive stacks of crosscorrelations of 2010 data: a) to e) from five 24-hour stacks, k) and l) from two 60-hour stacks, and o) from the stack of all crosscorrelations (120 hour). Scholte-wave group-velocity maps for 1.35 − 1.55 Hz from non-overlapping consecutive stacks of crosscorrelations of 2010 data: f) to j) from five 24-hour stacks, m) and n) from two 60-hour stacks, and p) from the stack of all crosscorrelations (120 hour). [**CR**] joseph-tomo-daysandmore-C3-C6