1st stage: Forward propagation of source wavefield

do in time steps (forward)
  Propagate the source wavefield one time step;
  Scale the source function;
  Inject the source function;
end do

2nd stage: Backward propagation of receiver wavefield+scattering
and cross-correlation with backward propagated source wavefield

do in time steps (backward)
  Inject the data;
  Propagate receiver wavefield and source wavefield one time step;
  Scale source function;
  Re-inject the source function;
  Scale the receiver wavefield;
  Scatter the receiver wavefield;
  Propagate scattered receiver wavefield;
  Damp scattered receiver wavefield at the boundaries;
  WEMVA_receiver_side += xcorr(source wavefield, scattered receiver wavefield)
end do

3rd stage: Forward propagation of source wavefield+scattering
and cross-correlation with forward propagated receiver wavefield

do in time steps (forward)
  Re-inject the data;
  Propagate source wavefield and receiver wavefield one time step;
  Scale the receiver wavefield;
  Scale source function;
  Inject the source function;
  Damp source wavefield at the boundaries;
  Scale the source wavefield;
  Scatter the source wavefield;
  Propagate the scattered source wavefield;
  Damp scattered source wavefield at the boundaries;
  WEMVA_source_side += xcorr(receiver wavefield, scattered source wavefield)
end do