

$\mathbf{H}_{GN}^{\bullet}$:	Gauss-Newton Hessian
\mathbf{H}_W^{\bullet} :	WEMVA Hessian
\mathbf{S} :	Source wavefield
\mathbf{R} :	Receiver wavefield
$\delta\mathbf{S}_f$:	Source scattered wavefield (resid.)
$\delta\mathbf{R}_f$:	Receiver scattered wavefield (resid.)
$\delta\mathbf{S}_{gAb}$:	Source scattered wavefield (grad.)
$\delta\mathbf{R}_{gAb}$:	Receiver scattered wavefield (grad.)
$\Delta\mathbf{r}_k$:	Perturb. in reflectivity (refl. image)
$\delta\Delta\mathbf{r}_k$:	Perturb. in reflectivity update
$\Delta\mathbf{b}_k$:	Perturb. in background
$\delta\Delta\mathbf{b}_k$:	Perturb. in background update
\mathbf{f}_k :	Residual
$\delta\mathbf{f}_k$:	Residual update
\mathbf{g}_k :	Gradient
\mathbf{G}_k :	Gradient projection onto data space
α & β :	Scalar steps
<ul style="list-style-type: none"> • <u>Initialization</u>: One \mathbf{S} fwd-prop. • <u>Each iteration</u>: One \mathbf{S} bwd-prop.; one \mathbf{R} bwd-prop. One \mathbf{S} fwd-prop.; one \mathbf{R} fwd-prop. One $\delta\mathbf{S}$ fwd-prop.; one $\delta\mathbf{R}$ fwd-prop. One $\delta\mathbf{S}$ bwd-prop.; one $\delta\mathbf{R}$ bwd-prop. 	
TOTAL No. PROPAGATIONS: $8n_{iter}+1$	

