Vertical scalar profiles		
Mean		
rS	scalar (RA)	$\overline{s}$
rQ		
rS_y	y-derivative of scalar (RA)	$\overline{\partial_y s}$
fS	scalar (FA)	$\langle s\rangle$
fS_y	y-derivative of scalar (FA)	$\langle \partial_y s\rangle$
fQ		
Fluctuations		
Rsu	covariance R_{su} (of scalar s and velocity u)	$\overline{s'u'}$
Rsv	covariance R_{sv} (of scalar s and velocity v)	$\overline{s'v'}$
Rsw	covariance R_{sw} (of scalar s and velocity w)	$\overline{s'w'}$
rS2	scalar variance R_{ss} (RA)	$\overline{s's'}$
rS3		$\overline{s's's'}$
rS4		$\overline{s's's's'}$
fS2	scalar variance (FA)	$\langle s's'\rangle$
fS3		$\langle s's's'\rangle$
fS4		$\langle s's's's'\rangle$
DerivativeFluctuations		
S_x2		$\overline{(\partial_x s')^2}$
S_y2		$\overline{(\partial_y s')^2}$
S_z2		$\overline{(\partial_z s')^2}$
S_x3		$\overline{(\partial_x s')^3}$
S_y3		$\overline{(\partial_y s')^3}$
S_z3		$\overline{(\partial_z s')^3}$
S_x4		$\overline{(\partial_x s')^4}$
S_y4		$\overline{(\partial_y s')^4}$
S_z4		$\overline{(\partial_z s')^4}$
RssBudget		
Rss_t	Time-rate of change of R_{ss}	$\overline{\partial_t R_{ss}}$
Css	advection in y-direction	$-\langle v\rangle\ \partial_y\overline{s's'}$
Pss	gradient production	$-2\overline{s'v'}\partial_y\langle s\rangle$
Ess	molecular dissipation	
Tssy1	turbulent transport due to triple correlation	$\overline{s's'v'}$
Tssy2	transport	$-2\kappa_d\overline{s'\partial_y s'}$
Tssy_y	turbulent transport	$\partial_y(\mathrm{Tssy1}+\mathrm{Tssy2})$
Dss	diffusion variable-density term	
Qss	source	
RsuBudget		
Rsu_t	Time-rate of change of R_{su}	$\overline{\partial_t R_{su}}$
Csu	advection in y-direction	$-\langle v\rangle\ \partial_y\overline{s'u'}$
Psu	shear and gradient production	$-\overline{s'v'}\partial_y\langle u\rangle\ -\overline{u'v'}\partial_y\langle s\rangle$
Esu	molecular dissipation	
PIsu	pressure redistribution	$\overline{p'\partial_x s'}$
Tsuy1	turbulent transport due to triple correlation	$\overline{s'u'v'}$
Tsuy2	transport	
Tsuy_y	turbulent transport	$\partial_y(\mathrm{Tsuy1}+\mathrm{Tsuy2})$
Dsu	diffusion variable-density term	
Gsu	pressure-flux	0
Bsu	buoyant production	0
Fsu	Coriolis production	$f_y\overline{s'w'}$
Qsu	source	
RsvBudget		
Rsv_t	Time-rate of change of R_{sv}	$\overline{\partial_t R_{sv}}$
Csv	advection in y-direction	$-\langle v\rangle\ \partial_y\overline{s'v'}$
Psv	shear and gradient production	$-\overline{s'v'}\partial_y\langle v\rangle\ -\overline{v'v'}\partial_y\langle s\rangle$
Esv	molecular dissipation	
PIsv	pressure redistribution	$\overline{p'\partial_y s'}$
Tsvy1	turbulent transport due to triple correlation	$\overline{s'v'v'}$
Tsvy2	transport	
Tsvy3	transport	$\overline{p's'}$
Tsvy_y	turbulent transport	$\partial_y(\mathrm{Tsvy1}+\mathrm{Tsvy2}+\mathrm{Tsvy3})$
Dsv	diffusion variable-density term	
Gsv	pressure-flux	$\overline{s'\partial_y p'}$
Bsv	buoyant production	$\overline{\rho b's'}$
Fsv	Coriolis production	0
Qsv	source	
RswBudget		
Rsw_t	Time-rate of change of R_{sw}	$\overline{\partial_t R_{sw}}$
Csw	advection in y-direction	$-\langle v\rangle\ \partial_y\overline{s'w'}$
Psw	shear and gradient production	$-\overline{s'v'}\partial_y\langle w\rangle\ -\overline{v'w'}\partial_y\langle s\rangle$
Esw	molecular dissipation	
PIsw	pressure redistribution	$\overline{p'\partial_z s'}$
Tswy1	turbulent transport due to triple correlation	$\overline{s'v'w'}$
Tswy2	transport	
Tswy_y	turbulent transport	$\partial_y(\mathrm{Tswy1}+\mathrm{Tswy2})$
Dsw	diffusion variable-density term	
Gsw	pressure-flux	0
Bsw	buoyant production	0
Fsw	Coriolis production	$-f_y\overline{s'u'}$
Qsw	source	
CrossScalars		
Cs1		
Css1		
Roughness		
Sbcs	Scalar boundary values applied on solids	
eps_0	Fluid fraction (grid-based approach)	
eps_1	Solid fraction (grid-based approach)	
eps_f	Fluid fraction (volume-based approach)	
eps_s	Solid fraction (volume-based approach)	