

	center (i-1,j)	face x (i-1,j)	center (i,j)	face x (i,j)	center (i+1,j)	face x (i+1,j)	center (i+2,j)
sigma	h		hx,hy wx,wy		h		
advecn			u v w s T	dux dvx dwx dsx dTx	u v w s T		
advecn	u v w s T (ultim)	dux(R) dvx(R) dwx(R) dsx(R) dTx(R)	u v w s T	dux(R) dvx(R) dwx(R) dsx(R) dTx(R)	u v w s T	dux(R) dvx(R) dwx(R) dsx(R) dTx(R)	u v w s T (ultim)
				uf  uflx vflx wflx sflx Tflx			
advecn		uflx(R) vflx(R) wflx(R) sflx(R) Tflx(R)	uux uvx uwx usx uTx  cx,cy,cz,s,T	uflx(R) vflx(R) wflx(R) sflx(R) Tflx(R)			
viscous			ux u v w s T	duxfc dvdxfc dwdxfc dsdxfc dTdxfc	ux u v w s T		
viscous		dudxfc(R) dvdxfc(R) dwdxfc(R) dsdxfc(R) dTdxfc(R)	udif vdif wdif sdif Tdif	dudxfc(R) dvdxfc(R) dwdxfc(R) dsdxfc(R) dTdxfc(R)			
intpol	ux cx(R)		ux cx(R)	Jifc  cxf	ux cx(R)		ux cx(R)

	center (i-1,j)	face x (i-1,j)	center (i,j)	face x (i,j)	center (i+1,j)	face x (i+1,j)	center (i+2,j)
rpeval			rho, zc, zf P-Sche, Hz				
rpeval	zc, rho		zc, rho	FC, rx			
rpeval			dZx,dRx	FC(R) rx(R)	rx(R)	FC(R)	
rpeval	Hz zc, rho P-Sche(R) dRx(R) dZx(R)		Hz zc, rho P-Sche(R) dRx(R) dZx(R)				
rpeval				ru-Sche grpifc		ru-Sche(R)	
rpeval		grpifc(R) gi(:, :, :, 1)	ru3-Sche drpx	grpifc(R) gi(:, :, :, 1)			
coriolis							
srcface	u,v,w p (for sjfc)		u,v,w p	uxi, Jifc  px grpifc(R) sifc	u,v,w p		u,v,w
chfine				sifc cxf uf hxn gi(:, :, :, 1:2) sumsifc sumcxf sumuf sumhxn sumgi			
chfine		sumsifc(R) sumcxf(R) sumuf(R) sumhxn(R) sumgi(R)	fn(:, :) chf(1:9, :, :)	sumsifc(R) sumcxf(R) sumuf(R) sumhxn(R) sumgi(R)			
hsolve	h(R)		h(R) ch,rhs h		h(R)		
hsolve	h(R)		h(R) ch,rhs res		h(R)		
mprove	h(R)		h(R) ch,rhs rhs		h(R)		
mprove	he		he ch,rhs(R) h he		he		
mprove	he		he ch,rhs res		he		

	center (i-1,j)	face x (i-1,j)	center (i,j)	face x (i,j)	center (i+1,j)	face x (i+1,j)	center (i+2,j)
calcskfc	h		gradhn(:, :, 1:2) skfc		h		
vhydro	h (for cyf)		h	gi, sifc cxf, hxn cxf, hxn	h		
vhydro	p		p skfc czf		p		
uvchy	h,p		p si gradhn(:, :, 1) cx gradhn(:, :, 1)		h,p		
cfdiv		cxf	div	cxf			
mgrid	-	-	-	-	-	-	-
vface	pf		pf	cxf uf	pf		
vcenter	pf		cx u		pf		
facediv		uf	div	uf			
cdiv	u		u div		u		