

## Start of user STASH requests for ATMOS ###

&STASHNUM NUM\_REQ= 140, NUM\_DOM=37, NUM\_TIM=20, NUM\_USE=12 /

&STREQ IMOD= 1, ISEC=0, ITEM=4, IDOM=2, ITIM=3, IUSE=2 /  
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&STREQ IMOD= 1, ISEC=33, ITEM=1, IDOM=2, ITIM=3, IUSE=2 /  
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INTV=1, UNT1="DA", IOFF=0, ISAM=1, UNT2="T ",  
IOPT=1,  
ISTR=1, IEND=-1, IFRE=1, UNT3="DA",  
/

&TIME NAME="TDAILY", ITYP=1  
IOPT=1,  
ISTR=1, IEND=-1, IFRE=1, UNT3="DA",  
/

&TIME NAME="TDMPMN", ITYP=3  
INTV=1, UNT1="DU", IOFF=0, ISAM=1, UNT2="T ",  
IOPT=1,  
ISTR=1, IEND=-1, IFRE=1, UNT3="DU",  
/

&TIME NAME="T6H", ITYP=1

IOPT=1,  
ISTR=6,IEND=-1,IFRE=6,UNT3="H ",  
/

&TIME NAME="T6HDM", ITYP=3  
INTV=1,UNT1="DU",IOFF=0,ISAM=6,UNT2="H ",  
IOPT=1,  
ISTR=1,IEND=-1,IFRE=1,UNT3="DU",  
/

&TIME NAME="TALLTS", ITYP=1  
IOPT=1,  
ISTR=1,IEND=-1,IFRE=1,UNT3="T ",  
/

&TIME NAME="T3H", ITYP=1  
IOPT=1,  
ISTR=3,IEND=-1,IFRE=3,UNT3="H ",  
/

&TIME NAME="T3HMN", ITYP=3  
INTV=3,UNT1="H ",IOFF=0,ISAM=1,UNT2="T ",  
IOPT=1,  
ISTR=3,IEND=-1,IFRE=3,UNT3="H ",  
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&TIME NAME="TCOUPMN", ITYP=3  
INTV=1,UNT1="DA",IOFF=0,ISAM=1,UNT2="T ",  
IOPT=1,  
ISTR=1,IEND=-1,IFRE=1,UNT3="DA",  
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&TIME NAME="TSW", ITYP=1  
IOPT=1,  
ISTR=1,IEND=-1,IFRE=6,UNT3="T ",  
/

&TIME NAME="TTRIFdyn", ITYP=1  
IOPT=1,  
ISTR=480,IEND=-1,IFRE=480,UNT3="T ",  
/

&TIME NAME="TDALYMIN", ITYP=6  
INTV=1,UNT1="DA",IOFF=0,ISAM=1,UNT2="T ",  
IOPT=1,  
ISTR=1,IEND=-1,IFRE=1,UNT3="DA",  
/

&TIME NAME="TDALYMAX", ITYP=5  
INTV=1,UNT1="DA",IOFF=0,ISAM=1,UNT2="T ",  
IOPT=1,  
ISTR=1,IEND=-1,IFRE=1,UNT3="DA",  
/

&TIME NAME="TTRIFphn", ITYP=3  
INTV=1,UNT1="DU",IOFF=48,ISAM=48,UNT2="T ",  
IOPT=1,  
ISTR=1,IEND=-1,IFRE=1,UNT3="DU",  
/

&TIME NAME="T24H0Z", ITYP=1  
IOPT=1,  
ISTR=24,IEND=-1,IFRE=24,UNT3="H ",  
/

&TIME NAME="T24HRMRV", ITYP=3  
INTV=1,UNT1="DU",IOFF=24,ISAM=24,UNT2="H ",  
IOPT=1,  
ISTR=1,IEND=-1,IFRE=1,UNT3="DU",  
/

&TIME NAME="T6HDMmon", ITYP=3  
INTV=1,UNT1="DU",IOFF=0,ISAM=6,UNT2="H ",  
IOPT=1,  
ISTR=30,IEND=-1,IFRE=30,UNT3="DA",  
/

&TIME NAME="TMONMN", ITYP=3  
INTV=30,UNT1="DA",IOFF=0,ISAM=1,UNT2="T ",  
IOPT=1,  
ISTR=30,IEND=-1,IFRE=30,UNT3="DA",  
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&TIME NAME="TSERIES", ITYP=4  
INTV=1,UNT1="DA",IOFF=0,ISAM=1,UNT2="T ",  
IOPT=1,  
ISTR=1,IEND=-1,IFRE=1,UNT3="DA",  
/

&TIME NAME="TMON", ITYP=1  
IOPT=1,  
ISTR=1,IEND=-1,IFRE=1,UNT3="DU",  
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&DOMAIN NAME="DIAG", IOPL=5  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
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&DOMAIN NAME="DALLTH", IOPL=2  
ILEVS=1,  
LEVB=1,  
LEVT=38,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,

TS="N",TSNUM=0,  
/

&DOMAIN NAME="DPBLTH", IOPL=2  
ILEVS=1,  
LEVB=1,  
LEVT=12,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
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&DOMAIN NAME="DP17", IOPL=3  
RLEVELST=1000.000,925.000,850.000,700.000,600.000,500.000,  
400.000,300.000,250.000,200.000,150.000,100.000,70.000,50.000,30.000  
,20.000,  
10.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
/

&DOMAIN NAME="DSOIL", IOPL=6  
ILEVS=1,  
LEVB=1,  
LEVT=6,  
PLT=0,  
IOPA=1,  
IMSK=2, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
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&DOMAIN NAME="DBOTTH", IOPL=2  
ILEVS=1,  
LEVB=1,  
LEVT=1,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
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&DOMAIN NAME="D500", IOPL=3  
RLEVELST=500.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
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&DOMAIN NAME="DALLRH", IOPL=1

ILEVS=1,  
LEVB=1,  
LEVT=38,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
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&DOMAIN NAME="DALLCL", IOPL=2  
ILEVS=1,  
LEVB=1,  
LEVT=38,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DTILE", IOPL=5  
PLT=9,  
PSLIST=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DPBLTH0", IOPL=2  
ILEVS=1,  
LEVB=0,  
LEVT=11,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DA7ISCCP", IOPL=3  
RLEVLST=900.000, 740.000, 620.000, 500.000, 375.000, 245.000,  
115.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DPSEUD", IOPL=5  
PLT=10,  
PSLIST=1,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DPFT", IOPL=5  
PLT=9,  
PSLIST=1,2,3,4,5,6,7,8,9,10,11,12,13,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
/

&DOMAIN NAME="DTILEURB", IOPL=5  
PLT=9,  
PSLIST=3,6,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
/

&DOMAIN NAME="DIAG\_AOT", IOPL=5  
PLT=1,  
PSLIST=1,2,3,4,5,6,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
/

&DOMAIN NAME="Dtype", IOPL=5  
PLT=9,  
PSLIST=1,2,3,4,5,6,7,8,9,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
/

&DOMAIN NAME="DP6", IOPL=3  
RLEVLST=1000.000,850.000,700.000,500.000,250.000,100.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
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&DOMAIN NAME="D8550252", IOPL=3  
RLEVLST=850.000,500.000,250.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
/

&DOMAIN NAME="DBOTRHO", IOPL=1  
ILEVS=1,  
LEVB=1,  
LEVT=1,  
PLT=0,  
IOPA=1,



IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="D200", IOPL=3  
RLEVELST=200.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DP31zm", IOPL=3  
RLEVELST=1000.000, 850.000, 700.000, 500.000, 400.000, 300.000,  
250.000, 200.000, 170.000, 150.000, 130.000, 115.000, 100.000, 90.000, 80.00  
0, 70.000,

50.000, 30.000, 20.000, 15.000, 10.000, 7.000, 5.000, 3.000, 2.000, 1.500, 1.0  
00, 0.500,  
0.300, 0.200, 0.100,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=2, IWT=0,  
TS="N", TSNUM=0,  
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&DOMAIN NAME="DP3", IOPL=3  
RLEVELST=1000.000, 100.000, 10.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DTHETA7", IOPL=7  
RLEVELST=315.000, 330.000, 350.000, 380.000, 405.000, 460.000,  
840.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DP10hPa", IOPL=3  
RLEVELST=10.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DP7", IOPL=3  
RLEVELST=1000.000, 850.000, 700.000, 500.000, 250.000, 100.000,

10.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DALLTHzm", IOPL=2  
ILEVS=1,  
LEVB=1,  
LEVT=38,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=2, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DALLRHzm", IOPL=1  
ILEVS=1,  
LEVB=1,  
LEVT=38,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=2, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DTOPSOIL", IOPL=6  
ILEVS=1,  
LEVB=1,  
LEVT=1,  
PLT=0,  
IOPA=1,  
IMSK=2, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DP17zm", IOPL=3  
RLEVLST=1000.000,925.000,850.000,700.000,600.000,500.000,  
400.000,300.000,250.000,200.000,150.000,100.000,70.000,50.000,30.000  
,20.000,  
10.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=2, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DP8", IOPL=3  
RLEVLST=1000.000,850.000,700.000,500.000,250.000,100.000,  
50.000,10.000,  
PLT=0,  
IOPA=1,

IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DP17th", IOPL=2  
ILEVS=1,  
LEVB=1,  
LEVT=38,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="DGTS\_PT", IOPL=5  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TNLIM=71,45,60,108,91,122,77,69,44,114,105,92,101,102,  
115,107,118,113,9,9,9,  
TSLIM=71,45,60,108,91,122,77,69,44,114,105,92,101,102,  
115,107,118,113,9,9,9,  
TWLIM=161,78,72,192,45,14,12,12,80,8,146,61,141,148,4,  
155,140,4,14,73,137,  
TELIM=161,78,72,192,45,14,12,12,80,8,146,61,141,148,4,  
155,140,4,14,73,137,  
TS="Y", TSNUM=21,  
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&DOMAIN NAME="DC02TS", IOPL=2  
ILEVS=1,  
LEVB=1,  
LEVT=38,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="Y", TSNUM=57,  
TBLIM=1,1,1,1,1,1,9,1,1,1,2,1,1,2,3,4,10,1,1,2,3,4,1,

13,1,10,1,2,3,12,1,6,1,1,1,1,5,3,1,2,3,4,1,1,1,1,1,1,1,1,1,1,1,1,2,3  
,1,  
TTLIM=1,1,1,1,1,1,9,1,1,1,2,1,1,2,3,4,10,1,1,2,3,4,1,

13,1,10,1,2,3,12,1,6,1,1,1,1,5,3,1,2,3,4,1,1,1,1,1,1,1,1,1,1,1,1,2,3  
,1,  
TNLIM=137,43,40,129,40,39,108,108,46,113,113,92,111,

111,111,111,96,10,110,110,110,110,116,89,92,105,127,127,127,110,104,  
111,62,1,

18,117,102,136,115,115,115,115,122,102,113,101,116,42,43,54,63,63,45  
,71,71,71,  
118,  
TSLIM=137,43,40,129,40,39,108,108,46,113,113,92,111,

111,111,111,96,10,110,110,110,110,116,89,92,105,127,127,127,110,104,  
111,62,1,

18,117,102,136,115,115,115,115,122,102,113,101,116,42,43,54,63,63,45  
,71,71,71,

118,

TWLIM=160,42,94,109,78,77,7,77,11,149,149,67,10,10,10,

10,184,162,145,145,145,145,188,111,83,137,14,14,14,5,76,5,102,180,23  
,6,55,8,4,

4,4,4,49,69,5,74,8,77,77,80,70,72,78,164,164,164,140,

TELIM=160,42,94,109,78,77,7,77,11,149,149,67,10,10,10,

10,184,162,145,145,145,145,188,111,83,137,14,14,14,5,76,5,102,180,23  
,6,55,8,4,

4,4,4,49,69,5,74,8,77,77,80,70,72,78,164,164,164,140,

/

&DOMAIN NAME="DC02TSL", IOPL=5

PLT=0,

IOPA=1,

IMSK=1, IMN=0, IWT=0,

TNLIM=137,43,40,129,40,39,108,108,46,113,92,111,96,10,

110,116,89,92,105,127,110,104,111,62,1,18,117,102,136,115,122,102,11  
3,101,116,

42,43,54,63,63,45,71,118,

TSLIM=137,43,40,129,40,39,108,108,46,113,92,111,96,10,

110,116,89,92,105,127,110,104,111,62,1,18,117,102,136,115,122,102,11  
3,101,116,

42,43,54,63,63,45,71,118,

TWLIM=160,42,94,109,78,77,7,77,11,149,67,10,184,162,

145,188,111,83,137,14,5,76,5,102,180,23,6,55,8,4,49,69,5,74,8,77,77,  
80,70,72,

78,164,140,

TELIM=160,42,94,109,78,77,7,77,11,149,67,10,184,162,

145,188,111,83,137,14,5,76,5,102,180,23,6,55,8,4,49,69,5,74,8,77,77,  
80,70,72,

78,164,140,

TS="Y", TSNUM=43,

/

&DOMAIN NAME="PLEV19", IOPL=3

RLEVLST=1000.000,925.000,850.000,700.000,600.000,500.000,

400.000,300.000,250.000,200.000,150.000,100.000,70.000,50.000,30.000  
,20.000,

10.000,5.000,1.000,

PLT=0,

IOPA=1,

IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&DOMAIN NAME="PLEV3", IOPL=3  
RLEVLST=850.000,500.000,250.000,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N", TSNUM=0,  
/

&USE NAME="Upedaily", LOCN=3  
IUNT=64,  
/

&USE NAME="Upamonth", LOCN=3  
IUNT=60,  
/

&USE NAME="UPUKCA", LOCN=1  
IUNT=98,  
/

&USE NAME="UPI3hrly", LOCN=3  
IUNT=68,  
/

&USE NAME="UPJuser", LOCN=3  
IUNT=69,  
/

&USE NAME="UPA20", LOCN=1  
IUNT=10,  
/

&USE NAME="UPCuser", LOCN=3  
IUNT=62,  
/

&USE NAME="UPEuser", LOCN=3  
IUNT=64,  
/

&USE NAME="UPFuser", LOCN=3  
IUNT=65,  
/

&USE NAME="Upi3hr", LOCN=3  
IUNT=68,  
/

&USE NAME="Upi6hrly", LOCN=3  
IUNT=69,

/

&USE NAME="UPGuser", LOCN=3  
IUNT=66,

/

### End of user STASH requests for ATMOS ###

### Start of Atmos-Ocean Coupling Macro. ###

&STASHNUM NUM\_REQ=23, NUM\_DOM=4, NUM\_TIM=2, NUM\_USE=1 /

&STREQ IMOD= 1, ISEC=0, ITEM=252, ITIM=1, IDOM=4, IUSE=1 /  
&STREQ IMOD= 1, ISEC=0, ITEM=409, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=1, ITEM=201, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=1, ITEM=203, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=1, ITEM=260, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=2, ITEM=201, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=2, ITEM=203, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=225, IDOM=1, ITIM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=210, IDOM=1, ITIM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=217, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=228, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=392, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=394, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=224, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=232, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=256, ITIM=1, IDOM=2, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=257, ITIM=1, IDOM=2, IUSE=1 /  
&STREQ IMOD= 1, ISEC=3, ITEM=353, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=4, ITEM=203, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=4, ITEM=204, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=5, ITEM=205, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=5, ITEM=206, ITIM=1, IDOM=1, IUSE=1 /  
&STREQ IMOD= 1, ISEC=26, ITEM=4, ITIM=2, IDOM=1, IUSE=1 /

&TIME NAME="T3HRMN", ITYP=3  
INTV=6, UNT1="T ", IOFF=0, ISAM=1, UNT2="T ",  
IOPT=1,

ISTR=6, IEND=-1, IFRE=6, UNT3="T "

/

&TIME NAME="T3HR", ITYP=1

IOPT=1,

ISTR=6, IEND=-1, IFRE=6, UNT3="T "

/

&DOMAIN NAME="DIAG", IOPL=5

PLT=0,

IOPA=1,

IMSK=1, IMN=0, IWT=0,

TS="N", TSNUM=0

/

&DOMAIN NAME="DPSEUD", IOPL=5,

PLT=10,

```
PSLIST=1,2,3,4,5,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0  
/
```

```
&DOMAIN NAME="mthl", IOPL=2,  
ILEVS=1,  
LEVB=1,  
LEVT=12,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
/
```

```
&DOMAIN NAME="DALLTH", IOPL=2  
ILEVS=1,  
LEVB=1,  
LEVT=38,  
PLT=0,  
IOPA=1,  
IMSK=1, IMN=0, IWT=0,  
TS="N",TSNUM=0,  
/
```

```
&USE NAME="UPCOUP", LOCN=1,  
IUNT=10  
/
```

### End of Atmos-Ocean Coupling Macro. ###

```
&STASHNUM NUM_REQ=-1, NUM_DOM=0, NUM_TIM=0, NUM_USE=0 /
```

```
&USTSNUM  
N_USTASH= 1 , NRECS_USTASH= 234 ,  
USTSFILS= "PRESM_A" /
```