

croco.in file

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title: Tropical Atlantic Configuration
time_stepping: NTIMES dt[sec] NDTFAST NINFO
              2976      900     60      1
time_stepping_nbq: NDTNBQ CSOUND_NBQ VISC2_NBQ
                   1          1000      0.01
S-coord: THETA_S, THETA_B, Hc (m)
          6.0d0      0.0d0    10.0d0

run_start_date:
XXXXXXXXX
run_end_date:
XXXXXXXXX
run_start_date:
xx/xx/xx xx:xx:xx
run_end_date:
xx/xx/xxxx xx:xx:xx
start_date:
xx/xx/xxxx xx:xx:xx
origin_date:
xx/xx/xxxx xx:xx:xx
output_time_steps: DT_HIS(H), DT_AVG(H), DT_RST(H)
                  XX        XX        XX

grid: filename           croco_grd.nc
forcing: filename        croco_frc.nc
bulk_forcing: filename   croco_blk.nc
climatology: filename    croco_clm.nc
boundary: filename       croco_bry.nc
initial: NRREC / filename
          1           croco_ini.nc
restart:      NRST, NRPFNST / filename
              2976      -1           croco_RST.nc
history: LDEFHIS, NWRT, NRPFHIS / filename
          T      12      0           croco_his.nc
averages: NTSAVG, NAVG, NRPAVG / filename
          1      288      0           croco_avg.nc

primary_history_fields: zeta UBAR VBAR U V wrtT(1:NT)
                        F   F   F   F   F   40*T
auxiliary_history_fields: rho Omega W Akv Akt Aks Bvf Visc3d Diff3d HBL HBBL Bostr
Bustr Bvstr Ustr Vstr Shfl Swfl rsw rlw lat sen HEL
                        F   F   F   F   F   F   F   F   F   F   F   F   F   F   F
glsl_history_fields: TKE GLS Lscale
                      F   F   F

primary_averages: zeta UBAR VBAR U V wrtT(1:NT)
                  T   F   F   T   T   40*T
auxiliary_averages: rho Omega W Akv Akt Aks Bvf Visc3d Diff3d HBL HBBL Bostr Bustr
Wstr Ustr Vstr Shfl Swfl rsw rlw lat sen HEL
                  F   F   T   F   F   F   F   F   T   F   F   F   F
glsl_averages: TKE GLS Lscale
                  F   F   F

rho0: 1025.d0

lateral_visc: VISC2, VISC4 [m^2/sec for all]
               0.      0.

tracer_diff2: TNU2(1:NT) [m^2/sec for all]
               30*0.d0
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tracer_diff4: TNU4(1:NT)           [m^4/sec for all]
            30*0.d11

vertical_mixing: Akv_bak, Akt_bak [m^2/sec]
            0.d0      30*0.d0

bottom_drag:     RDRG [m/s], RDRG2, Zob [m], Cdb_min, Cdb_max
            0.0d-04    0.d-3   10.d-3   1d-4   2.d-2

gamma2:
            1.d0

sponge:        X_SPONGE [m]
            XXX

nudg_cof:     TauT_in, TauT_out, TauM_in, TauM_out [days for all]
            1.          360.         3.          360.

diagnostics:   ldefdia   nwrtdia   nrpfdia /filename
            F          12          0
            croco_dia.nc

diag_avg:     ldefdia_avg  ntsdia_avg  nwrtdia_avg  nrpfdia_avg /filename
            F          1          288          0
            croco_dia_avg.nc

diag3D_history_fields: diag_tracers3D(1:NT)
            30*F

diag2D_history_fields: diag_tracers2D(1:NT)
            30*F

diag3D_average_fields: diag_tracers3D_avg(1:NT)
            30*F

diag2D_average_fields: diag_tracers2D_avg(1:NT)
            30*F

diagnosticsM: ldefdiaM   nwrtdiaM   nrpfdiaM /filename
            F          12          0
            croco_diaM.nc

diagM_avg:    ldefdiaM_avg  ntsdiaM_avg  nwrtdiaM_avg  nrpfdiaM_avg /filename
            F          1          288          0
            croco_diaM_avg.nc

diagM_history_fields: diag_momentum(1:2)
            T T

diagM_average_fields: diag_momentum_avg(1:2)
            T T

diags_vrt:    ldefdiags_vrt, nwrtdiags_vrt, nrpfdiags_vrt /filename
            F          12          0
            croco_diags_vrt.nc

diags_vrt_avg: ldefdiags_vrt_avg  ntsdiags_vrt_avg  nwrtdiags_vrt_avg  nrpfdiags_vrt_avg
/filename
            F          1          288          0
            croco_diags_vrt_avg.nc

diags_vrt_history_fields: diags_vrt
            F

diags_vrt_average_fields: diags_vrt_avg
            F

diags_ek:     ldefdiags_ek, nwrtdiags_ek, nrpfdiags_ek /filename
            F          12          0
            croco_diags_ek.nc

diags_ek_avg: ldefdiags_ek_avg  ntsdiags_ek_avg  nwrtdiags_ek_avg  nrpfdiags_ek_avg /filename
            F          1          288          0
            croco_diags_ek_avg.nc

diags_ek_history_fields: diags_ek
            F

diags_ek_average_fields: diags_ek_avg
            F

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surf: ldefsurf, nwrtsurf, nrpfsurf /filename
      F          12          0
      croco_surf.nc

surf_avg: ldefsurf_avg  ntssurf_avg  nwrtsurf_avg  nprfsurf_avg /filename
      T          1          96          0
      croco_surf_avg.nc

surf_history_fields: surf
      F

surf_average_fields: surf_avg
      T

diags_pv: ldefdiags_pv, nwrtdiags_pv, nrpfdiags_pv /filename
      F          12          0
      croco_diags_pv.nc

diags_pv_avg: ldefdiags_pv_avg  ntsdiags_pv_avg  nwrtdiags_pv_avg  nprfdiags_pv_avg /filename
      F          1          72          0
      croco_diags_pv_avg.nc

diags_pv_history_fields: diags_pv(1:NT)
      30*F

diags_pv_average_fields: diags_pv_avg(1:NT)
      30*F

diags_eddy: ldefdiags_eddy, nwrtdiags_eddy, nrpfdiags_eddy /filename
      F          12          0
      croco_diags_eddy.nc

diags_eddy_avg: ldefdiags_eddy_avg  ntsdiags_eddy_avg  nwrtdiags_eddy_avg  nprfdiags_eddy_avg /filename
      T          1          288          0
      croco_diags_eddy_avg.nc

diags_eddy_history_fields: diags_eddy
      F

diags_eddy_average_fields: diags_eddy_avg
      F

diagnostics_bio: ldefdiabio  nwrtdiabio  nrpfdiabio /filename
      F          12          0
      croco_diabio.nc

diagbio_avg: ldefdiabio_avg  ntsdiabio_avg  nwrtdiabio_avg  nprfdiabio_avg /filename
      F          1          288          0
      croco_diabio_avg.nc

diagbioFlux_history_fields: wrtdiabioFlux
      50*F

diagbioVSink_history_fields: wrtdiabioVSink
      50*F

diagbioGasExc_history_fields: wrtdiabioGasExc
      50*F

diagbioFlux_average_fields: wrtdiabioFlux_avg
      50*F

diagbioVSink_average_fields: wrtdiabioVSink_avg
      50*F

diagbioGasExc_average_fields: wrtdiabioGasExc_avg
      50*F

biology: forcing file
      croco_frcbio.nc

wkb_boundary: filename
      croco_wkb.nc

wkb_wwave: amp [m], ang [deg], prd [s], tide [m], B_tg, gamma_tg
      0.25    190.     8.     -2.     1.3     0.38
wkb_roller: roller_sinb  roller_fraction
      0.1      0.5

wave_history_fields: hrm  freq  action  k_xi  k_eta  eps_b  eps_d  Erol  eps_r
      20*F

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wave_average_fields: hrm frq action k_xi k_eta eps_b eps_d Erol eps_r
                     20*F
wci_history_fields: SUP UST2D VST2D UST VST WST AKB AKW KVF CALP KAPS
                     20*F
wci_average_fields: SUP UST2D VST2D UST VST WST AKB AKW KVF CALP KAPS
                     20*F

sediments: input file
            sediment.in
sediment_history_fields: bed_thick bed_poros bed_fra(sand,silt)
                         20*F

bbl_history_fields: Abed Hripple Lripple Zbnot Zbapp Bostrw
                     T      F      F      T      F      T

floats: LDEFFLT, NFLT, NRPFFLT / inpname, hisname
        T       6       0
                    floats.in
                    floats.nc
float_fields: Grdvar Temp Salt Rho Vel
               T       T       T       T       T

stations: LDEFSTA, NSTA, NRPFSTA / inpname, hisname
          T       400      0
                    stations.in
                    stations.nc
station_fields: Grdvar Temp Salt Rho Vel
                 T       T       T       T       T

psource:   Nsrc   Isrc   Jsrc   Dsrc   Qbar [m3/s]   Lsrc   Tssrc
           2
           3      54      1     200.           T T     20.    15.
           3      40      0     200.           T T     20.    15.

psource_ncfile: Nsrc   Isrc   Jsrc   Dsrc   qbardir   Lsrc   Tssrc   runoff file name
                  croco_runoff.nc
           20
           248   344   1   1   30*T   28.1508 2.0001
           255   110   0   1   30*T   22.2438 2.0001
           885   327   0  -1   30*T   24.7786 2.0001
           148   393   0   1   30*T   28.0227 2.0001
           270   142   0   1   30*T   24.289 2.0001
           750   447   1  -1   30*T   26.1956 2.0001
           128   431   1   1   30*T   27.7451 2.0001
           64    448   1   1   30*T   27.3802 2.0001
           96    449   1   1   30*T   27.1182 2.0001
           312   254   0   1   30*T   26.9277 2.0001
           863   423   0  -1   30*T   27.7701 2.0001
           46    462   0   1   30*T   28.0196 2.0001
           853   369   0  -1   30*T   26.5341 2.0001
           822   429   1  -1   30*T   28.1091 2.0001
           169   368   1   1   30*T   27.8865 2.0001
           20    484   0   1   30*T   27.2658 2.0001
           894   309   0  -1   30*T   24.6921 2.0001
           894   310   0  -1   30*T   24.7008 2.0001
           155   378   0   1   30*T   27.9471 0.0001
           155   379   0   1   30*T   27.9508 0.0001

online:   byear bmonth recordsperday byearend bmonthend / data path
          2005   1     8       2021    12
/tmpdir/serena/atlcpl/INPUTS/CROCO_BLKFILES_ERA5mskCORR_DFS/

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