"Philofluid" turbulent flow database

Original

Availability:
This version is available at: 11583/2500747 since:

Publisher:

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PHILOFLUID DATABASE
(in completion)

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1
3 Shearless mixing in presence of stable stratification

Direct numerical simulations of the interaction between two homogeneous and isotropic regions in presence of a stable density stratification

\( E_1/E_2 \): kinetic energy ratio

\( \ell_1/\ell_2 \): integral scale ratio

\( Re_\lambda \): Taylor microscale Reynolds number

\( Fr \): Froude number

3.1 Data \( Re_\lambda = 45, E_1/E_2 = 6, 7 \ell_1/\ell_2 = 1, Fr = 1 \) 

3.2 Data \( Re_\lambda = 45, E_1/E_2 = 6, 7 \ell_1/\ell_2 = 1, Fr = 5 \)

3.3 Data \( Re_\lambda = 45, E_1/E_2 = 6, 7 \ell_1/\ell_2 = 1, Fr = 10 \)

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5.2 \( Re = 250 \) 

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6 Channel flow

Large-Eddy simulations of a channel flow with approximate boundary conditions and non explicit approximation of the non commutation terms.

Legend:

\( Re_\tau \): friction Reynolds number

b.c.: approximate boundary conditions type (A or B, see Ph.Fluids 2004)

\( y^+ \): position of the computational boundary in wall units


6.1 \( Re_\tau = 180, \) Les b.c.A, \( y^+ = 2 \) and \( y^+ = 5 \) 

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1 2D Shearless mixing

1.1 Grid $1024^3$, $E_1/E_2 = 6, 6 \ell_1/\ell_2 = 1$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → root disk
- PoliTO - DIMEAS, Computer “dns3”, disco 2

Address:
130.192.25.60/2D_Mixing/Data/EE66/
130.192.25.49/DATA_SHARED/2D_Mixing/1024/LAURIS/EE66/
Size: 4 Gb

1.2 Grid $1024^2$, $E_1/E_2 = 12 \ell_1/\ell_2 = 1$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → root disk

Address:
130.192.25.60/2D_Mixing/Data/EE12/
Size: 4 Gb

1.3 Grid $1024^2$, $E_1/E_2 = 40 \ell_1/\ell_2 = 1$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → root disk
- PoliTO - DIMEAS, Computer “dns3”, disco 2

Address:
130.192.25.60/2D_Mixing/Data/EE40/
130.192.25.49/DATA_SHARED/2D_Mixing/1024/LAURIS/EE40/
Size: 80 Gb
1.4 Grid $1024^2$, $E_1/E_2 = 300 \, \ell_1/\ell_2 = 1$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → root disk

Address:
130.192.25.60/2D_Mixing/Data/EE300/
Size: 80 Gb

1.5 Grid $1024^2$, $E_1/E_2 = 10^6 \, \ell_1/\ell_2 = 1$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → root disk

Address:
130.192.25.60/2D_Mixing/Data/EE10_6/
Size: 80 Gb

1.6 Grid $1024^2$, $E_1/E_2 = 6, 6 \, \ell_1/\ell_2 = 1$, passive scalar $S_c = 1$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie B → usb disk B1

Address:
130.192.25.166/Lacie (usb)/scalare_passivo/2Dscalar/PASS/SCHMIDT_1_EE66/
Size: 80 Gb

1.7 Grid $1024^2$, $E_1/E_2 = 1 \, \ell_1/\ell_2 = 1$, passive scalar $S_c = 1$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie B → usb disk B1

Address:
130.192.25.166/Lacie (usb)/scalare_passivo/PASS/SCHMIDT_1_EE0/
Size: 80 Gb

1.8 Grid $1024^2$, $E_1/E_2 = 1$ and $10^4 \, \ell_1/\ell_2 = 1$, lagrangian particles

Physical collocation:
- PoliTO - DIMEAS, Computer “dns3”, disco 2

Address:
130.192.25.49/DATA_SHARED/2D_Mixing/1024/LAURIS/LAGRANGIAN/
Size: 80 Gb
2 3D Shearless mixing

2.1 Data \( Re_{\lambda} = 45, \, E_1/E_2 = 6.7 \, \ell_1/\ell_2 = 1 \)

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → usb disk A2
- CINECA, iCFD database
Address:
130.192.25.60/Disco2/Re45/E6_L1/
Size: 5 Gb

2.2 Data \( Re_{\lambda} = 45, \, E_1/E_2 = 40 \, \ell_1/\ell_2 = 1 \)

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → usb disk A2
- CINECA, iCFD database
Address:
130.192.25.60/Disco2/Re45/E6_L40/
Size: 5 Gb

2.3 Data \( Re_{\lambda} = 45, \, E_1/E_2 = 40 \, \ell_1/\ell_2 = 0.6 \)

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → usb disk A2
Address:
130.192.25.60/Disco2/Re45/E40_06/
Size: 5 Gb

2.4 Data \( Re_{\lambda} = 45, \, E_1/E_2 = 100 \, \ell_1/\ell_2 = 1 \)

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → usb disk A2
- CINECA, iCFD database
Address:
130.192.25.60/Disco2/Re45/E100_L1/
Size: 5 Gb

2.5 Data \( Re_{\lambda} = 45, \, E_1/E_2 = 300 \, \ell_1/\ell_2 = 1 \)

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → usb disk A2
- CINECA, iCFD database
Address:
130.192.25.60/Disco2/Re45/E300_L1/
Size: 5 Gb
2.6 Data \( Re_\lambda = 45, \, E_1/E_2 = 10^6 \, \ell_1/\ell_2 = 1 \), domain \( 4\pi \) and \( 8\pi \)

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A \( \rightarrow \) usb disk A2
- CINECA, iCFD database

Address:
130.192.25.60/Disco2/Re45/E10_6_L1/

Size: 10 Gb

2.7 Data \( Re_\lambda = 45, \, E_1/E_2 = 6.7 \, \ell_1/\ell_2 = 0.6 \)

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A \( \rightarrow \) usb disk A2
- PoliTO - DIMEAS, Computer “avdotia2”
- PoliTO - DIMEAS, CD “B128”

Address:
130.192.25.60/Disco2/Re45/E6_L06/
130.192.25.141/home/michele/cubo/B/
CD: B128

Size: 5 Gb

2.8 Data \( Re_\lambda = 45, \, E_1/E_2 = 6.7 \, \ell_1/\ell_2 = 1.5 \)

Physical collocation:
- PoliTO - DIMEAS, Computer “avdotia2”
- PoliTO - DIMEAS, CD “S128”

Address:
130.192.25.141/home/michele/cubo/S/
CD: S128

Size: 5 Gb

2.9 Data \( Re_\lambda = 45, \, E_1/E_2 = 6.7 \, \ell_1/\ell_2 = 2.1 \)

Physical collocation:
- PoliTO - DIMEAS, Computer “avdotia2”
- PoliTO - DIMEAS, CD “C128”

Address:
130.192.25.141/home/michele/cubo/C2/
CD: C128

Size: 5 Gb
2.10 Data $Re_\lambda = 71$, $E_1/E_2 = 6.7 \ell_1/\ell_2 = 1$

Physical collocation:
- PoliTO - DIMEAS, Computer “avdotia2”

Address:
130.192.25.141/home/disk4/cubo/prova256_omp_sp/omp170_340/
Size: 25 Gb

2.11 Data $Re_\lambda = 150$, $E_1/E_2 = 6.7 \ell_1/\ell_2 = 1$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → usb disk A2
- CINECA, “cart” tape archive, user “miovieno”, dir. “scal150”

Address:
130.192.25.60/Disco2/Re150/E6_L1_R150/
Cineca: miovieno//cart//scal150/ file: s150_u*.tar
Size: 400 Gb

2.12 Data $Re_\lambda = 150$, $E_1/E_2 = 1 \ell_1/\ell_2 = 1.5$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → usb disk A2

Address:
130.192.25.60/Disco2/Re150/E1_L15_R150/
Size: 350 Gb

2.13 Data $Re_\lambda = 150$, $E_1/E_2 = 1 \ell_1/\ell_2 = 2.1$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → usb disk A2
- CINECA, “cart” tape archive, user “miovieno”, dir. “elle21/”.

Address:
130.192.25.60/Disco2/Re150/E1_L21_R150/
Cineca: miovieno//cart//elle21/
Size: 350 Gb

2.14 Data $Re_\lambda = 150$, $E_1/E_2 = 1 \ell_1/\ell_2 = 2.8$

Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A → usb disk A2
- CINECA, “cart” tape archive, user “miovieno”, dir. “elle28/”.

Address:
130.192.25.60/Disco2/Re150/E1_L28_R150/
Cineca: miovieno//cart//elle28/
Size: 350 Gb
1300 time instans in 1.5 eddy turnover times for Lagrangian analysis:
Physical collocation:
- **CINECA**, SP6 scratch disk, user “igallana”.
Size: 6 Tb

### 2.15 Data \( Re_\lambda = 250, \ E_1/E_2 = 1 \ \ell_1/\ell_2 = 2.4 \)

Physical collocation:
- **Polito - DIMEAS**, Network disk system Lacie A → usb disks A2 and A1
- **CINECA**, “cart” tape archive, user “miovieno”, dir. “m250”.
Address:
130.192.25.60/Disco2/Re250/L24/
130.192.25.60/Disco1/Mescolamenti_3D/Re250/
Cineca: miovieno//cart//m250/
Size: 500 Gb

### 2.16 Data \( Re_\lambda = 150, \ E_1/E_2 = 6, 7 \ \ell_1/\ell_2 = 1 \), passive scalar \( Sc = 1 \)

Physical collocation:
- **CINECA**, “cart” tape archive, user “miovieno”, dir. “scal150”
- **Polito - DIMEAS**, Network disk system Lacie B → usb disk B1
Address:
Cineca: miovieno//cart//scal150/
130.192.25.166/Lacie (usb)/scalare_passivo/3Dscalar/
Size: 130 Gb

### 2.17 Data \( Re_\lambda = 150, \ E_1/E_2 = 1 \ \ell_1/\ell_2 = 1 \), passive scalar \( Sc = 1 \)

Physical collocation:
- **CINECA**, “cart” tape archive, user “miovieno”, dir. “scalunif”
Address:
Cineca: miovieno//cart//scalunif/
Size: 500 Gb (velocity fields included)
3 Shearless mixing in presence of stable stratification

3.1 Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7 \ell_1/\ell_2 = 1$, $Fr = 1$

Physical collocation:
- PoliTO - Labinf, user “snft4”

Address:
cclix7.polito.it flussi_stratificati/re45/Fr1
Size: 60 Gb

3.2 Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7 \ell_1/\ell_2 = 1$, $Fr = 5$

Physical collocation:
- PoliTO - Labinf, user “snft4”

Address:
cclix7.polito.it flussi_stratificati/re45/Fr5
Size: 60 Gb

3.3 Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7 \ell_1/\ell_2 = 1$, $Fr = 10$

Physical collocation:
- PoliTO - Labinf, user “snft4”

Address:
cclix7.polito.it flussi_stratificati/re45/Fr10
Size: 60 Gb

4 Hydrodynamic Stability of Shear Flows

Address: 130.192.25.166/Lacie(usb)#2 and 130.192.25.166/disco_madre

Physical Collocation: PoliTO - DIMEAS, Network disk system Lacie B

Total size: 4 Tb (included data at PoliTO - Labinf, currently under reorganizazion)

4.1 Poiseuille Channel Flow ($\phi$: angle of obliquity, $k$: polar wavenumber)

- $Re = 500$, $\phi = 0, \pi/4, \pi/2$, symmetric and antisymmetric initial conditions, $k \in [0.05, 1000]$.
- $Re = 10000$, $\phi = 0, \pi/4, \pi/2$, symmetric and antisymmetric initial conditions, $k \in [0.05, 1000]$. 
4.2 Wake Flow ($\phi$: angle of obliquity, $x_0$: longitudinal wake section, $k$: polar wavenumber)

- $Re = 30$, $x_0 = 10, 50$, $\phi = 0, \pi/4, \pi/2$, symmetric and antisymmetric initial conditions, $k \in [0.1, 500]$.
- $Re = 50$, $x_0 = 10$, $\phi = 0, \pi/4, \pi/2$, symmetric and antisymmetric initial conditions, $k \in [0.1, 500]$.
- $Re = 100$, $x_0 = 10, 50$, $\phi = 0, \pi/4, \pi/2$, symmetric and antisymmetric initial conditions, $k \in [0.1, 500]$.

4.3 Blasius Boundary Layer Flow ($\phi$: angle of obliquity, $\beta$: pressure gradient, $k$: polar wavenumber)

- $Re_\delta^* = 100$, $\phi = 0, \pi/4, \pi/2$, $k \in [0.02, 2]$.
- $Re_\delta^* = 5000$, $\phi = 0, \pi/4, \pi/2$, $k \in [0.02, 2]$.

4.4 Cross-Flow Boundary Layer ($\phi$: angle of obliquity, $\beta$: pressure gradient, $\theta$: cross-flow angle $k$: polar wavenumber)

- $Re_\delta^* = 100$, $\beta = 1, -0.1988$, $\phi = 0, \pi/4, \pi/2$, $\theta = \pi/6, \pi/4, \pi/3$, $k \in [0.02, 2]$.
- $Re_\delta^* = 5000$, $\beta = 1, -0.1988$, $\phi = 0, \pi/4, \pi/2$, $\theta = \pi/6, \pi/4, \pi/3$, $k \in [0.02, 2]$.

5 Cavity flow (cavity in a channel)

5.1 $Re = 150$

Physical collocation:
- PoliTO - DIMEAS, Computer “dns2”

Address:
130.192.25.86/home/michele/cavita2011/laminar/re_150_prb/

5.2 $Re = 250$

Physical collocation:
- PoliTO - DIMEAS, Computer “dns2”

Address:
130.192.25.86/home/michele/cavita2011/laminar/re_250_prb/
5.3 \( Re = 2900 \)
Physical collocation:
- PoliTO - DIMEAS, Computer “dns2”

Address:
130.192.25.86/home/michele/cavita2011/laminar/turbulent/
Size: 40 Gb

6 Channel flow
Total size: 10 Gb

6.1 \( Re_\tau = 180, \) Les b.c.A, \( y^+=2 \) and \( y^+=5 \)
Physical collocation:
- PoliTO - DIMEAS, CD “Les A - Re180 - uvw y+=2, no comm.”
- PoliTO - DIMEAS, CD “Les A - Re180 - uvw y+=5, no comm.”

6.2 \( Re_\tau = 180, \) Les b.c.B, \( y^+=2 \) and \( y^+=5 \)
Physical collocation:
- PoliTO - DIMEAS, CD “Les B - Re180 - uvw y+=2, no comm.”
- PoliTO - DIMEAS, CD “Les B - Re180 - uvw y+=5, no comm.”

6.3 \( Re_\tau = 180, \) Les b.c.A, \( y^+=2 \) and \( y^+=5, \) noncommutation correction
Physical collocation:
- PoliTO - DIMEAS, CD “Les A - Re180 - uvw y+=2, comm.”
- PoliTO - DIMEAS, CD “Les A - Re180 - uvw y+=5, comm.”

6.4 \( Re_\tau = 180, \) Les b.c.B, \( y^+=2 \) and \( y^+=5, \) noncommutation correction
Physical collocation:
- PoliTO - DIMEAS, CD “Les B - Re180 - uvw y+=2, comm.”
- PoliTO - DIMEAS, CD “Les B - Re180 - uvw y+=5, comm.”

6.5 \( Re_\tau = 590, \) Les b.c.A, \( y^+=2 \) and \( y^+=5 \)
Physical collocation:
- PoliTO - DIMEAS, CD “Les A - Re590 - uvw y+=2, no comm.”
- PoliTO - DIMEAS, CD “Les A - Re590 - uvw y+=5, no comm.”
6.6 \( Re_\tau = 590, \) Les b.c.B, \( y^+ = 2 \) and \( y^+ = 5 \)
Physical collocation:
- PoliTO - DIMEAS, CD “Les B - Re590 - uvw \( y^+=2 \), no comm.”
- PoliTO - DIMEAS, CD “Les B - Re590 - uvw \( y^+=5 \), no comm.”

6.7 \( Re_\tau = 590, \) Les b.c.A, \( y^+ = 2 \) and \( y^+ = 5 \), noncommutation correction
Physical collocation:
- PoliTO - DIMEAS, CD “Les A - Re590 - uvw \( y^+=2 \), comm.”
- PoliTO - DIMEAS, CD “Les A - Re590 - uvw \( y^+=5 \), comm.”

6.8 \( Re_\tau = 590, \) Les b.c.B, \( y^+ = 2 \) and \( y^+ = 5 \), noncommutation correction
Physical collocation:
- PoliTO - DIMEAS, CD “Les B - Re590 - uvw \( y^+=2 \), comm.”
- PoliTO - DIMEAS, CD “Les B - Re590 - uvw \( y^+=5 \), comm.”

7 Filtered turbulent fields
Total size: 1.3 Tb

7.1 Original data (F.Toschi)
Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A \( \rightarrow \) usb disk A1

Address:
130.192.25.60/Disco1/Fabrizio/Toschi/

7.2 Filter class: “cross”
Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A \( \rightarrow \) usb disk A1

Address:
130.192.25.60/Disco1/Fabrizio/croce/

7.3 Filter class: “sphere”
Physical collocation:
- PoliTO - DIMEAS, Network disk system Lacie A \( \rightarrow \) usb disk A1

Address:
130.192.25.60/Disco1/Fabrizio/sfera/
7.4 Filter class: “filament”

Physical collocation:
- Polito - DIMEAS, Network disk system Lacie A → usb disk A1

Address:
130.192.25.60/Disco1/Fabrizio/filamento/

7.5 Filter class: “sheet”

Physical collocation:
- Polito - DIMEAS, Network disk system Lacie A → usb disk A1

Address:
130.192.25.60/Disco1/Fabrizio/sheet/