

Uncoupled Model

- Radiation
- Surface Layer (Two-iteration loop)
 - Exchange coeff (sfc_diff)
 - Energy balance over ocean (sfc_nst or sfc_ocean)
 - Energy balance over land (sfc_drv, noahmpdrv)
 - Energy balance over sea-ice (sfc_sice)
 - Energy balance for CICE (sfc_cice)
 - Surface diagnostics (sfc_diag)
- **PBL schemes** (satmedmfvdifq, ysupbl, etc)
Sequential downward and upward sweeps
- Ocean updates (update_ocean)
- Gravity wave drag (gwdps)
- Ozone and stratosphere physics (ozphys, h2ophys)
- Deep conv (sascnv, mfdeepcnv, samfdeepcnv)
- Shallow conv (shalcnv, mfshalcnv, samshalcnv)
- Cloud Microphysics (m_micro_driver, cld_sat_adj, gfdl_cld_mp_driver)
- Precipitation (calpreciptype)
- Diagnostics



Coupled Model

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- **PBL schemes - Downward sweep**

• **PBL schemes - Upward Sweep**

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