

Block A: Surface state

- 1) $T_M(t)$ driver
- 2) $\langle Q_{pr} \rangle \rightarrow \beta \rightarrow s_{blow}$
- 3) PSD $\rightarrow \kappa_{surf}, \tau_{los}$
- 4) phase / gates
- 5) sublimation ds/dt
- 6) sink timescale t_{sink}

Block B: Supply

- 7) $\Phi(\tau_{los}) \rightarrow \kappa_{eff}$
 $\rightarrow \sum_{\{\tau \perp=1\}}$ (diagnostic)
- 8) supply feedback
 $\rightarrow prod_rate, F_k$

Block C: Evolution

- 9) IMEX-BDF(1):
Smol / Surface step
- 10) diagnostics:
 $\varepsilon_{mass}, M_{loss}$
stop + outputs