HINESADM (@ \${MIROC_DIR}/src/physics/padmn.F)

· Call **HINESADM**

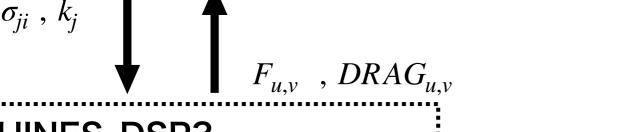
Input: U, V, p, T

 $Output: DRAG_{u,v}$

\${MIROC_DIR}/src/physics/phgwd.F

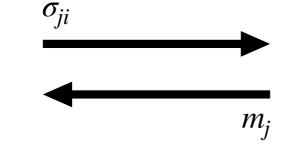
HINESADM

- Read (F_{ji}, σ_{ji}) from external files (@ \${MIROC_DIR}/data/hines/)
- Calculate basic state variables (e.g., ρ , N, η)
- · Call **HINES_KSTAR_INIT**
- · Call HINES_DSP3



HINES_DSP3

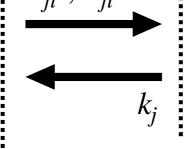
- · Call **HINES_WAVNUM2**
- Smooth m_i profiles
- · Call HINES_DRAG2



σ_{ji} , k_j , m_j $F_{u,v}$, $DRAG_{u,v}$

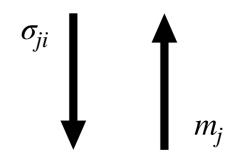
HINES_DRAG2

· Calculate $(F_{u,v}, DRAG_{u,v})$ by Eqs. (540–541)



HINES_KSTAR_INIT

- · Call **HINES_WAVNUM2**
- Calculate k_i by Eq. (540)



HINES_WAVNUM2

- · Call HINES_SIGMA
- Calculate (m_{ii}, m_M) by Eqs. (532, 534)
- · Call **HINES_WIND**
- Compute (m_i, σ_i^2) profiles using Eqs. (533 and 535–538)

