

This list of Errata will be updated as the corresponding author, Chjan Lim (limc@rpi.edu), find or is informed of major errors and typos in this book. We appreciate your correspondence on this matter and welcome constructive critical comments from readers.

1 page 32, paragraph 4, sentence 1 should read : " The Shallow Water Equations which are the Euler-Lagrange equations for the SWE- Lagrangian, $KE - PE$, conserve potential vorticity and a reduced energy, $H = KE_r + PE$, but not the total mechanical energy $L = KE_r + PE$ in equation (2.85) nor the SWE-Lagrangian itself.

2 page 35, eqn.. (2.87) L_N is the truncated lattice-spin model's total mechanical energy $KE_N + PE_N$; the Lagrangian of the Shallow Water Equations (SWE) mentioned in the same sentence as (2.87) refers to the functional $KE_N - PE_N$ which is the energy functional in a closely related statistical equilibrium model. The statistical equilibrium theory for the forced-damped Rotating Shallow Water Equations (RSWE), includes the one in this book based on the total mechanical energy (2.87) and another, based on the Lagrangian, in recent papers and preprints.

3. page 162 eqn (9.10) ds vector should be deleted and s_k vector in the dot product should read s_j vector; the sentence beginning with $D(s)$ in the same paragraph as (9.10) should read : " $D(s)$ is the usual symbol for function-integration over microstates s vector and"

4 page 163 eqn (9.11) and (9.12) ds vector should be deleted and s_k vector in the dot product replaced by s_j vector.