Supplement

**Fig. S1.** Wind speed obtained by sounding near the Ngoring Lake on July 29, 2012.

**Fig. S2.** The time series of the kinetic energy for all runs.
Fig. S3. Same as fig.10 but for runs with “balanced” surface heat flux.

Fig. S4. The y-z section of the instant vertical velocity for A1LW (a), A2LW (b), A1LW_C (c), A2LW_C (d), A1LNG (e), A2LNG (f), A1L (g) and A2L (h). Black lines on the y-axis represent the lake patches.