Science of Sea Level Changes

Low-frequency LSL Variations are the result of local, regional and global processes including:

- Changes in ocean temperature, salinity (density of sea water, including melting of sea ice);
- Changes in ocean circulation;
- Changes in atmospheric circulation;
- Concurrent mass exchange with ice sheets, glaciers, and land water storage/mass redistribution in the water cycle;
- Past mass redistribution (postglacial rebound)
- Vertical land motion and geoid changes
- Changes in the shape and extent of the ocean basins

The processes involving mass redistribution in the water cycle need a special comment ...