**Key numbers from Ocean-acidification seminar**

Today’s ocean and present-day trends:

***Parameter Value Today Trend Today***

Aragonite saturation state (Ω) 3-4 in coral areas -0.3/yr in Pacific

pH (surface) 8.1-8.2 -0.0017/yr

pH (deep) 7.8-7.9 na

- we’re currently releasing 25 PgCyr into atmosphere

Observations and Model projections

- pH has decreased by 0.1 since Industrial Revolution

- pH will decrease by 0.5 by 2100, decrease by 0.8 by 2300

- a -0.4pH change in pH will reduce CO32- ion by 50%

Paleo findings:

- 55My Paleocene/Eocene Thermal Maximum: evidence for release of 4500GtC into atmosphere over ~10,000 years, rate estimated at 1.7 PgC/yr