**Plan for tag testing experiment 1 – 13 Feb 2013**

**Preparation for experiments:**

- Only use tags with ID 39xxx for experiments (37xxx tags have a different ping rate)

- Only set up one channel to listen for pings (e.g. channel 1), is seems from pilot experiment that channels may interfere.

- Give test locations a name (e.g. Ho'okele, or red raft) and note GPS coordinates (can be done using the VR100).

- Make sure VR100 time is set correctly (to local time).

- Record background noise by putting hydrophone in water for a few minutes and note the range of the noise level (e.g 30-34 dB). Keep an eye on the background noise during experiments and note if significant changes occur.

**Plan:**

***-- A. Test of tag container cases***

**- 1.** Approx 1 m from hydrophone, 1 hour, four tags in mesh bag:

Tag 39193 no case

Tag 39194 small case no holes

Tag 39195 small case with holes

Tag 39196 large case

**- 2.** Shake the mesh bag so the tags are randomly shuffled around inside it and put back in water for 1 hour at same depth and location as above. (this is to check if tag orientation might play a role for signal strength etc.)

***-- B. Test of tag interference (collisions)***

**- 1.** Approx 1 m from hydrophone, 1 hour, four tags in mesh bag (no cases):

Tag 39193

Tag 39194

Tag 39195

Tag 39196

**- 2.** Approx 1 m from hydrophone, 1 hour, eight tags in mesh bag (no cases):

Tag 39189

Tag 39190

Tag 39191

Tag 39192

Tag 39193

Tag 39194

Tag 39195

Tag 39196