Supplement 1. Call types of various seal species (for audio files of each call type, see Supplement 2 at www.int-res.com/articles/suppl/m414p267_supp/)

Fig. S1. Weddell seal call types W1–W14. All call types except call type W4 have been described previously (Thomas & Kuechle 1982, Thomas & Stirling 1983, Terhune et al. 1994, Pahl et al. 1997, Moors & Terhune 2004, Terhune & Dell’Apa 2006).
Fig. S2. Leopard seal call types L1–L7. All leopard seal call types recorded by the PALAOA station have been described in previous studies (Stirling & Siniff 1979, Rogers et al. 1995, 1996).
Fig. S3. Ross seal call types R1–R5. Call types R1, R2, R3 and R5 have been described previously (Watkins & Schevill 1968, Stacey 2006). Call type R4 has so far only been found to be present in the PALAOA recordings (Seibert et al. 2007).
Fig. S4. Crabeater call type C1 (comprises low and high moan). Both C1 call types (low and high moan) have been described previously (Stirling & Siniff 1979, Thomas & DeMaster 1982, Klinck et al. 2010).

**C1: low moan**

![Frequency vs Time plot for C1 low moan call]

**C1: high moan**

![Frequency vs Time plot for C1 high moan call]

**LITERATURE CITED**


Stirling I, Siniff DB (1979) Underwater vocalizations of leopard seals (Hydrurga leptonyx) and crabeater seals (Lobodon carcinophagus) near the South Shetland Islands, Antarctica. Can J Zool 57:1244–1248


