

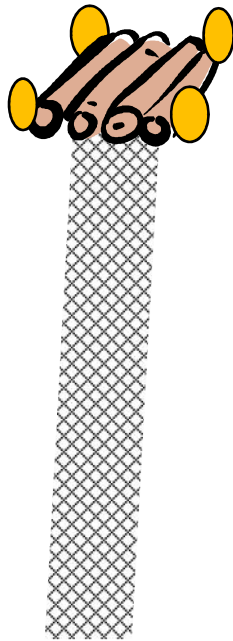


Evaluation of dFAD construction materials in the WCPO

Lauriane Escalle, Stephen Brouwer and Graham Pilling

- **Wide of Fish Aggregating Devices (FAD) in the WCPO**
- **Juvenile tuna catch and bycatch of SSI**
- **Potential ecosystem impacts:**
 - **Ghost fishing**
 - **Tuna school fragmentation**
 - **Marine pollution**
 - **Damage to coral reefs or coastal areas**
- **WCPFC encourages the use of biodegradable and non-entangling materials**

- Observer data 2011–2018
- Materials used in 2 different parts of dFADs



RAFT

**Main structure
+ buoyancy components
+ cover**

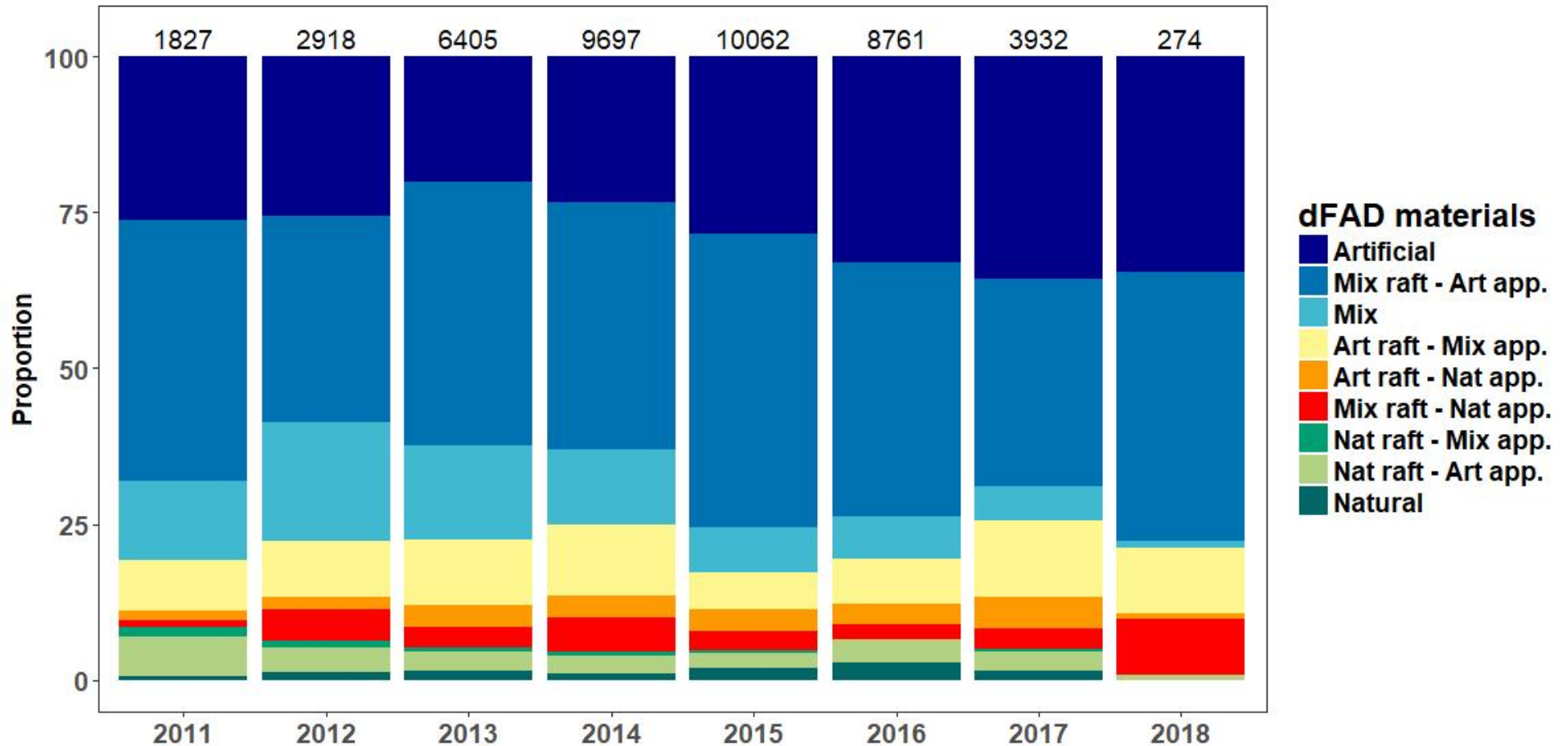
**Submerged
APPENDAGES**

**Increase drag, and
attractiveness**

General materials used by year



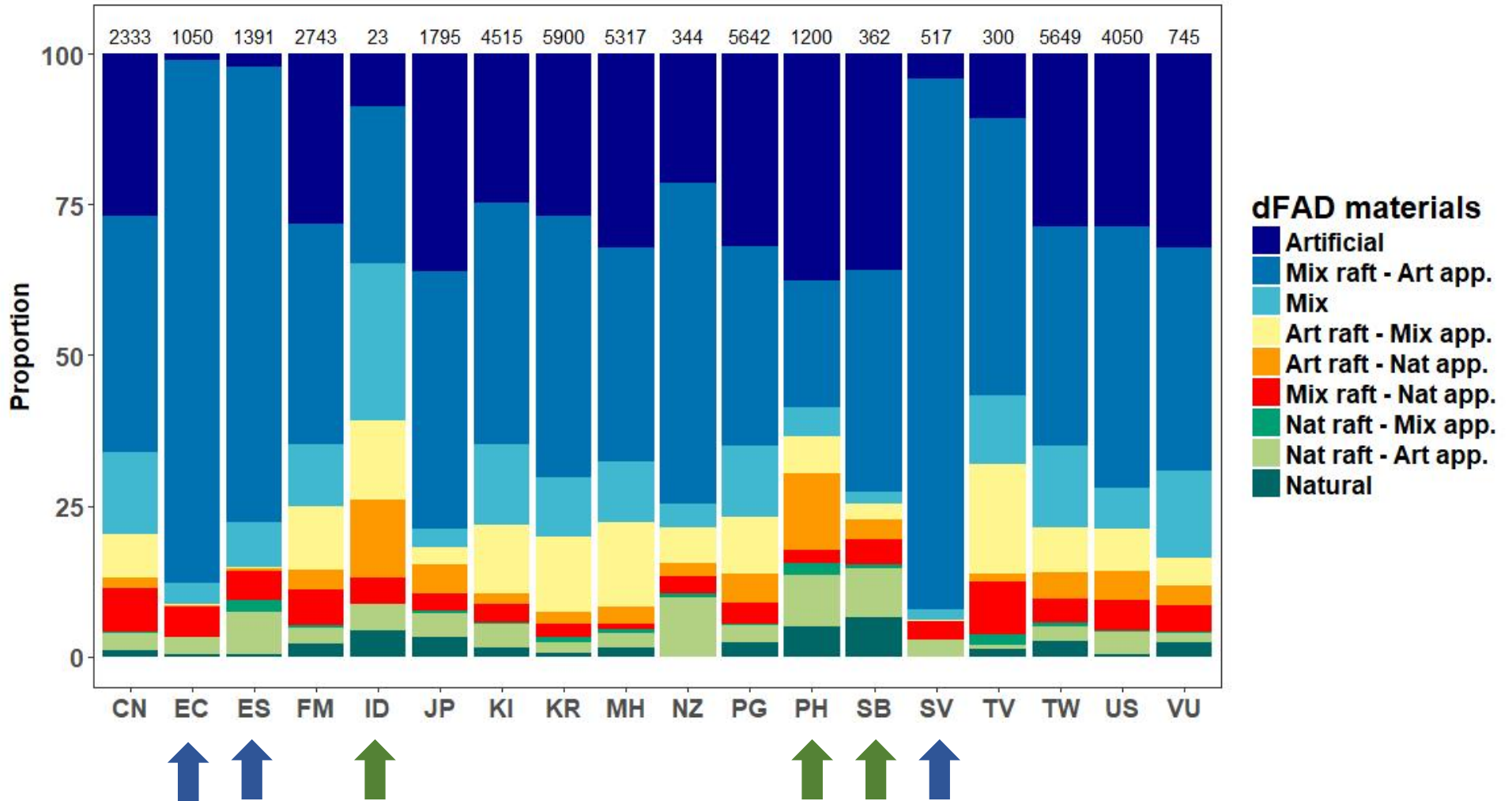
dFADs investigated : deployment, setting, servicing or visiting



General materials used by fleet



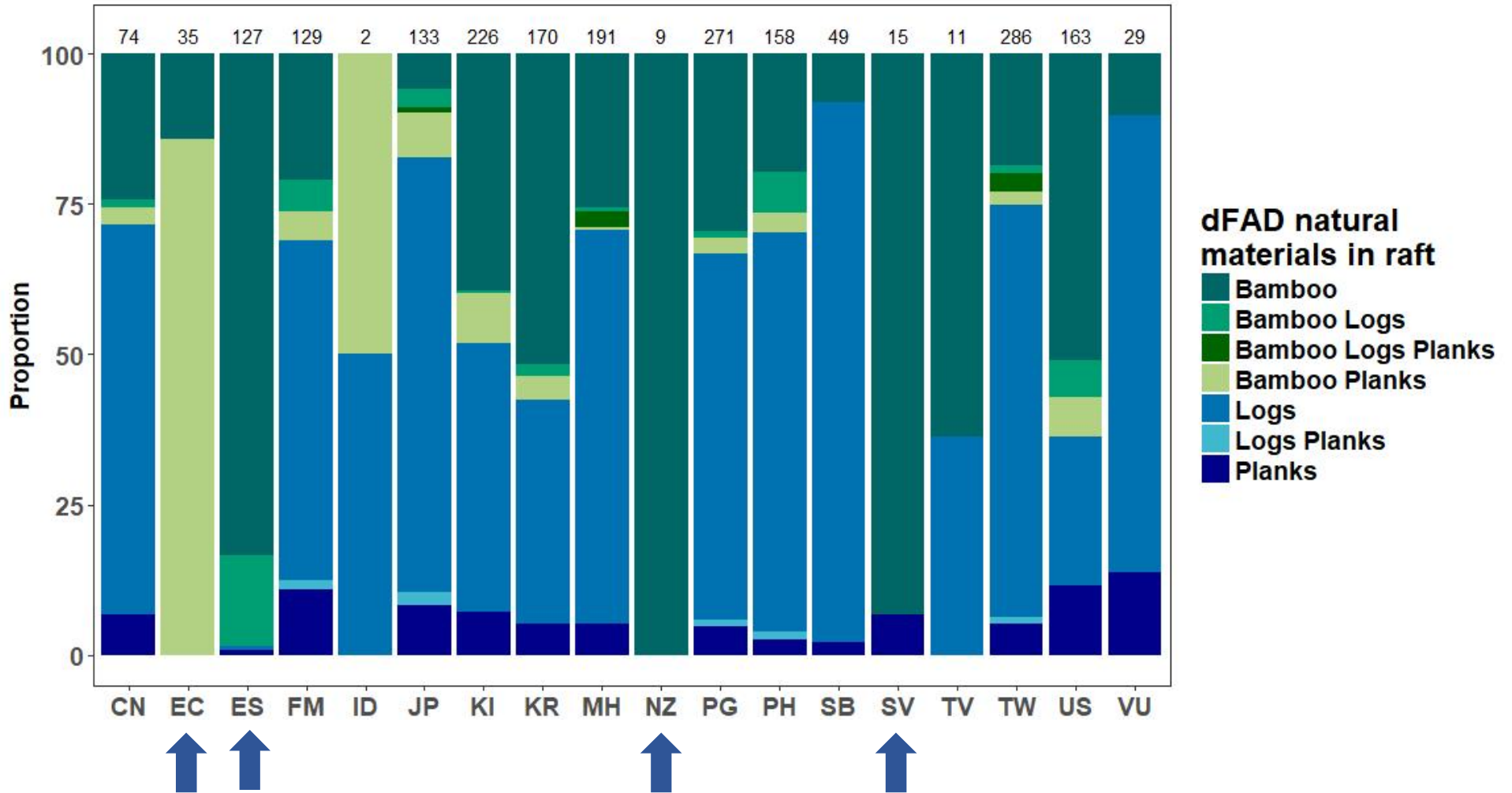
dFADs investigated : deployment, setting, servicing or visiting



Details on materials used by fleet

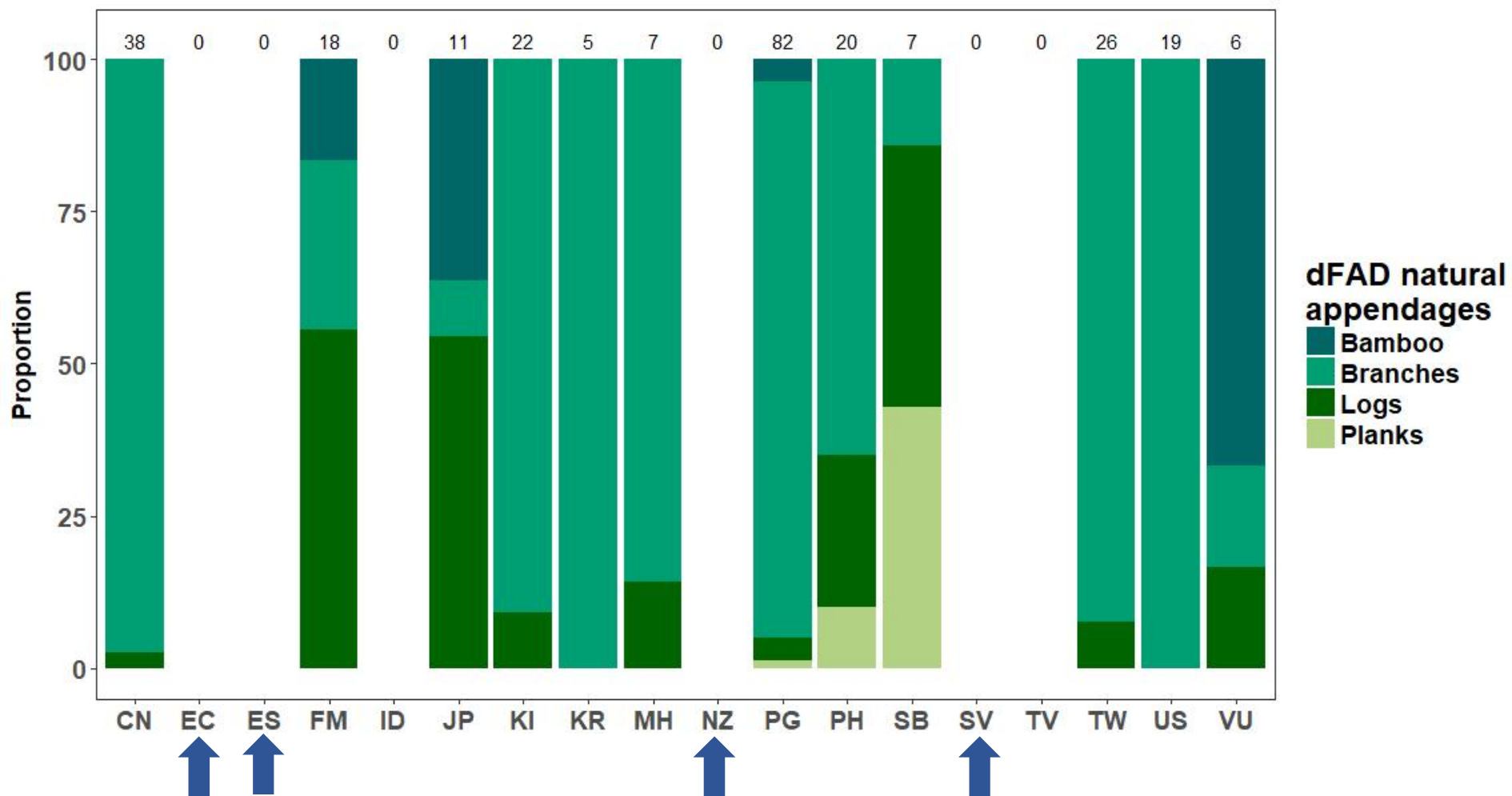


Natural materials, when used, in raft



Details on materials used by fleet

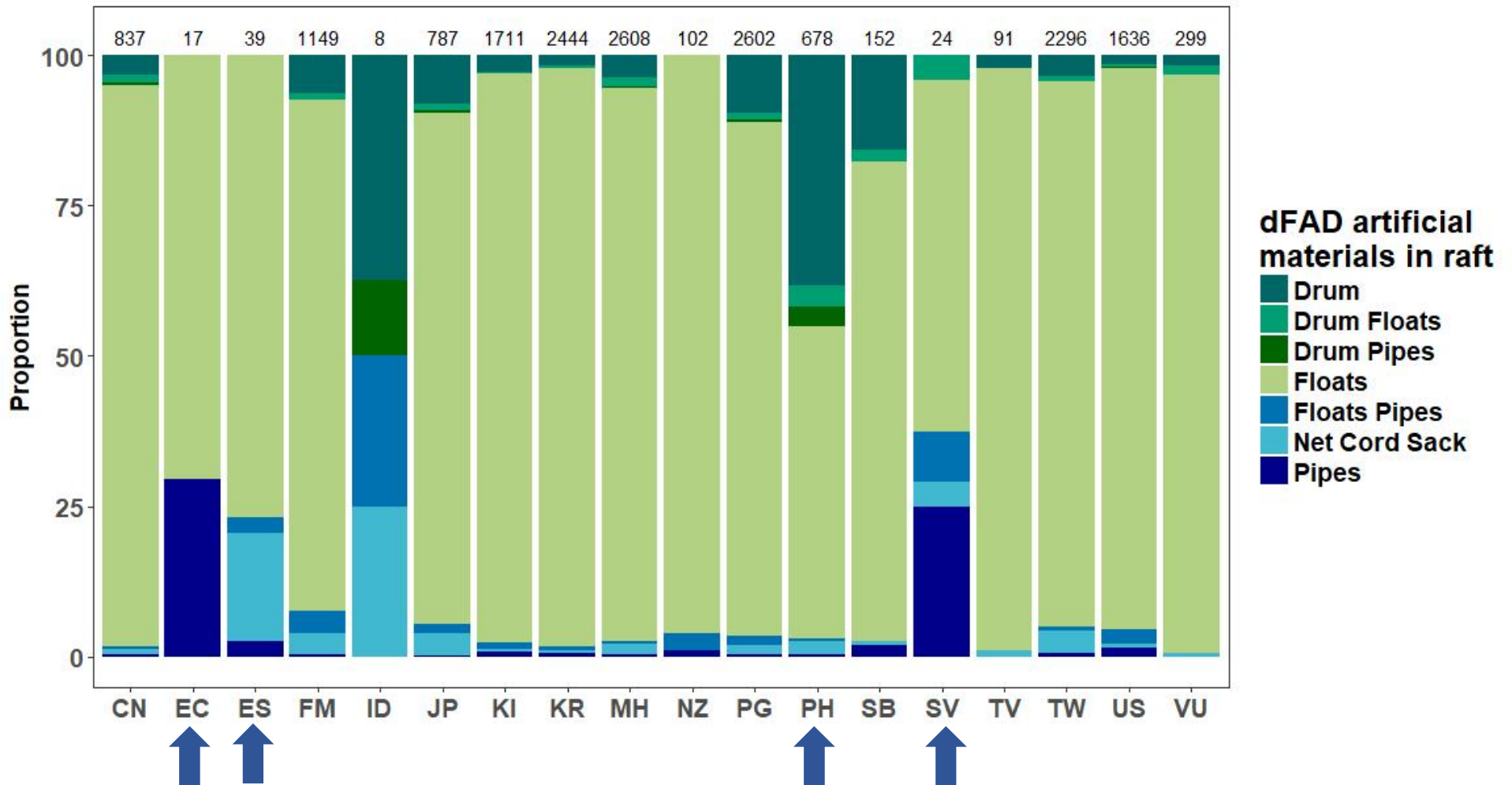
Natural materials, when used, as appendages



Details on materials used by fleet



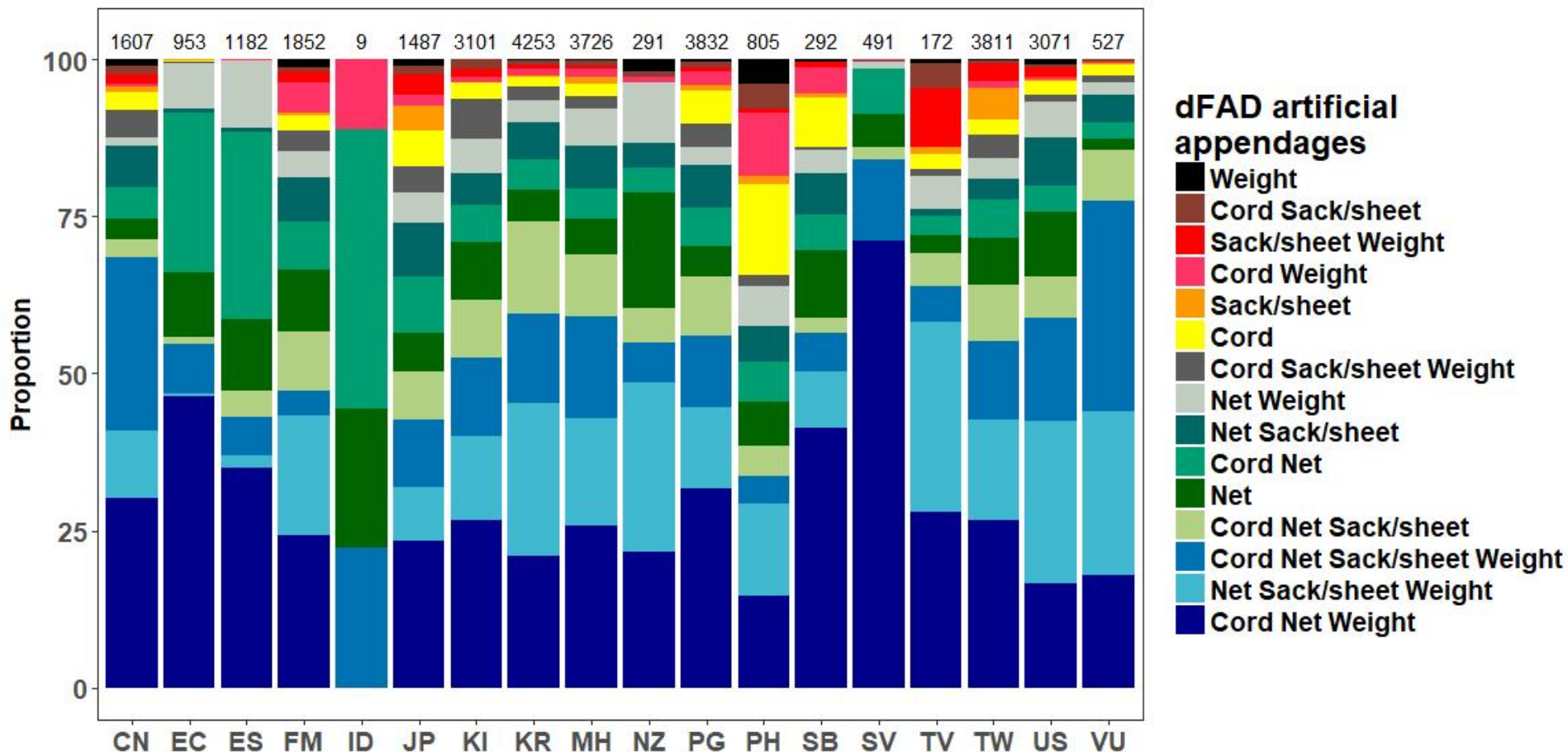
Artificial materials, when used, in raft



Details on materials used by fleet

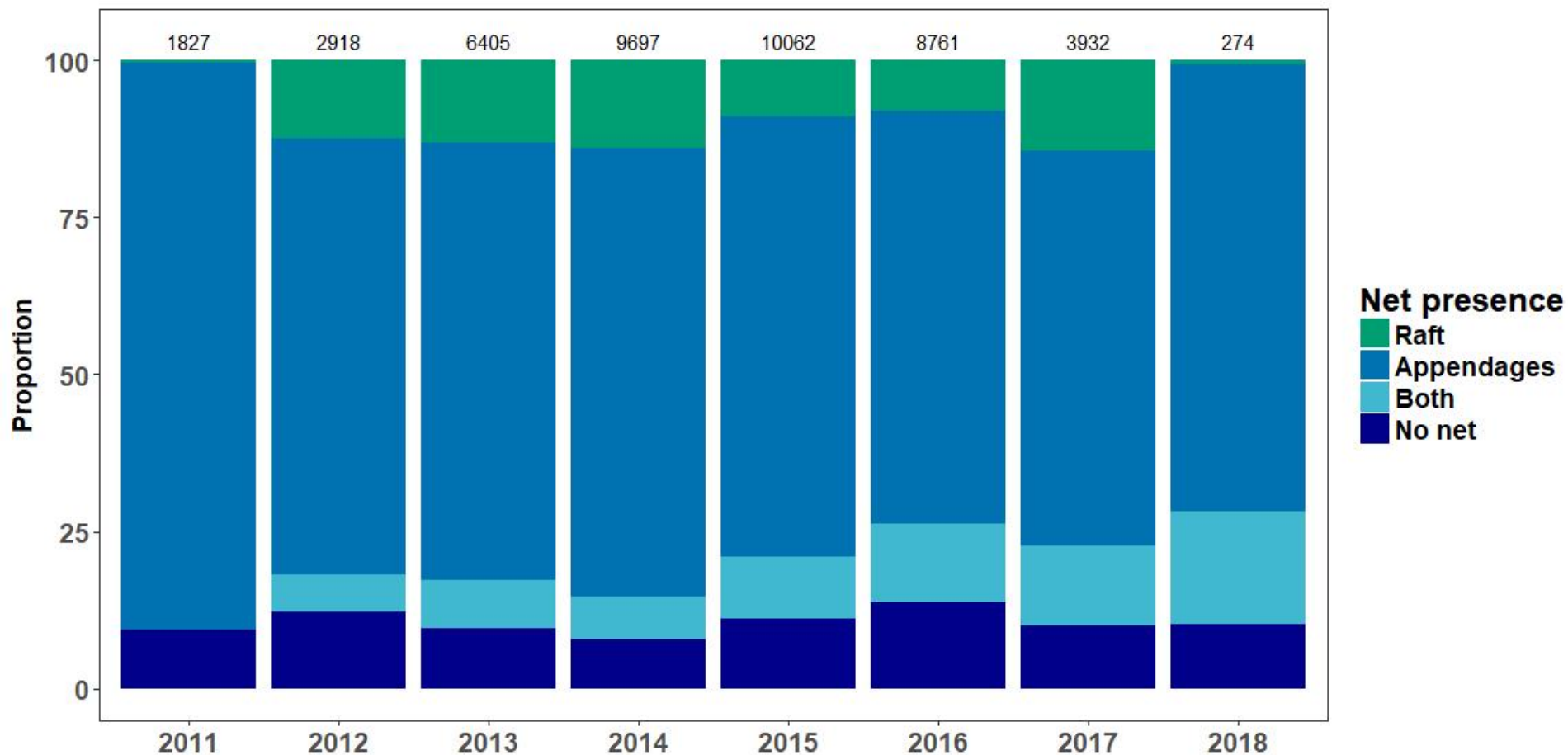


Artificial materials, when used, as appendages



Non-entangling FADs used by year

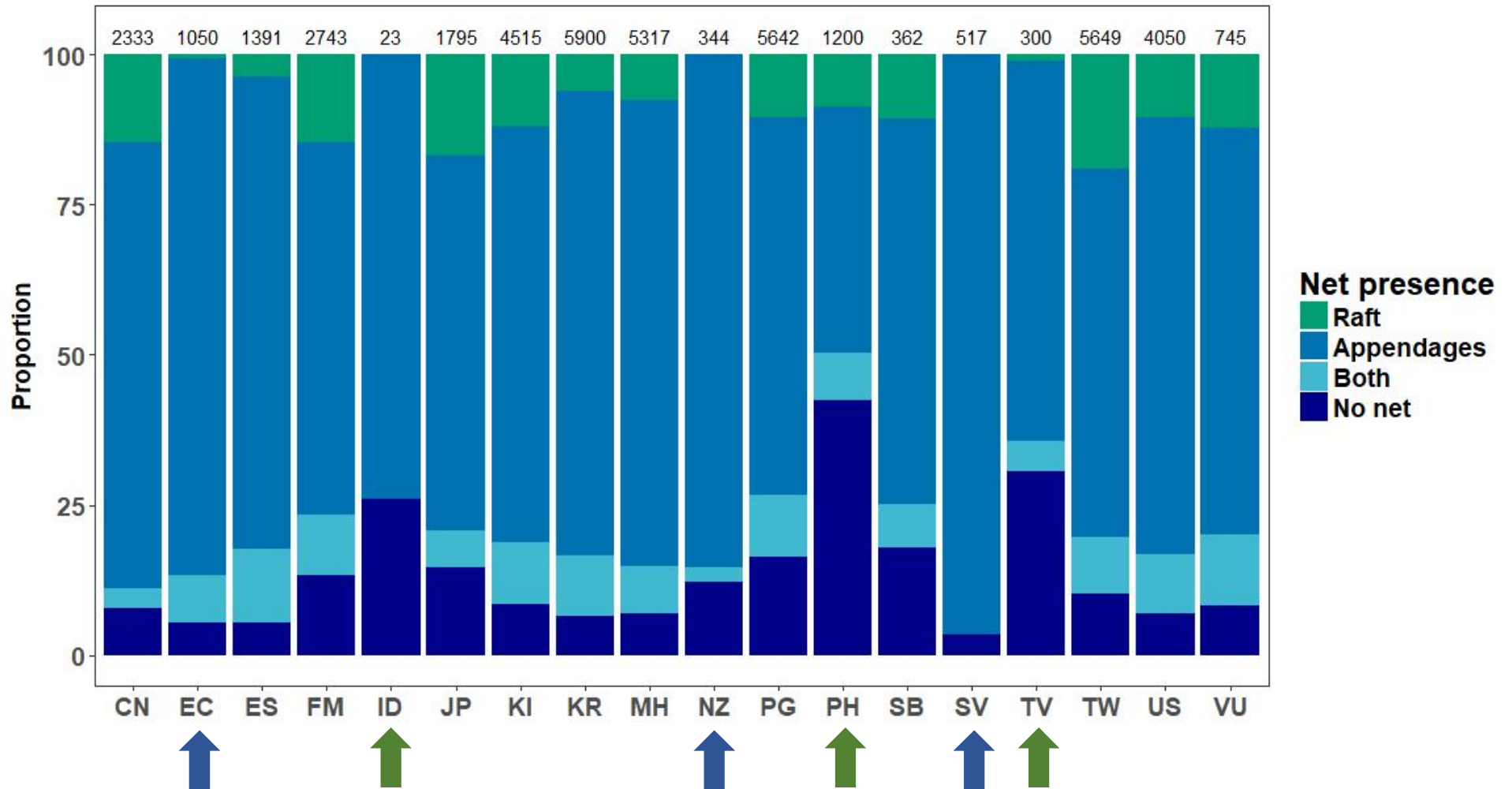
Net presence



Non-entangling FADs used by fleet



Net presence



- **Note the materials currently used in dFADs in the region. In particular, the low use of non-entangling and biodegradable materials, as well as the variability among fleets.**
- **Note the review of biodegradable materials and non-entangling dFAD designs from research projects in other oceans.**
- **Consider potential research activities and at-sea trials of biodegradable and non-entangling design options in the WCPO and provide corresponding advice to the FAD Management Options Intersessional Working Group.**



Thanks for your attention