

**HCRI-RP / DAR**

**Data Analyst position**

**New hire:**

Ivor Williams PhD

June 2<sup>nd</sup> DAR Kona office & UH Manoa



**Objectives: Increase DAR's capacity to:**

**(1) Manage and analyze data**

Existing (some decades+) time-series under-utilized

**(2) Conduct and initiate reef monitoring**

Improve statistical power, scientific-validity & **cost-effectiveness**

**(3) Initiate practical research**

Bring-in local expertise & better integrate DAR with scientific community

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## some ideas ...

### Data management & analysis

#### Existing data sets

- D-J MPA monitoring (~30 to 50 years)
- NWHI + Big Island ('70s-'80s & recent)
- Impact of artificial reefs
- others?

**MS Access databases**- data more widely and easily accessible

### Monitoring

**Increase statistical-rigor** => appropriate, powerful & **cost-effective**

- Planning                      analytical approach integrated into survey design
- New techniques              power analysis, multivariate approaches, meta-analysis
- Workshops?                  design and analysis of ecological surveys

#### Increased in-house capacity

### Research

**Factors driving broad-scale change:** fishing; reserves; habitat degradation