Comparisons of the behavioral ecology of three delphinid and three baleen whale species:





aerial surveys **METHODS** 2008 - 2013 Southern Californi Sampling Methods Systematic line-transect 2 Modified "point sampling" (5-30 sec) Record "First-observed" Behavior state • Maximum nearest-neighbor distance ("cohesion index") Circle sighting ♦ Group size / calf presence Statistical tests: GLM, t-test, ANOVA

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*** p < 0.05

COMMON DOLPHIN

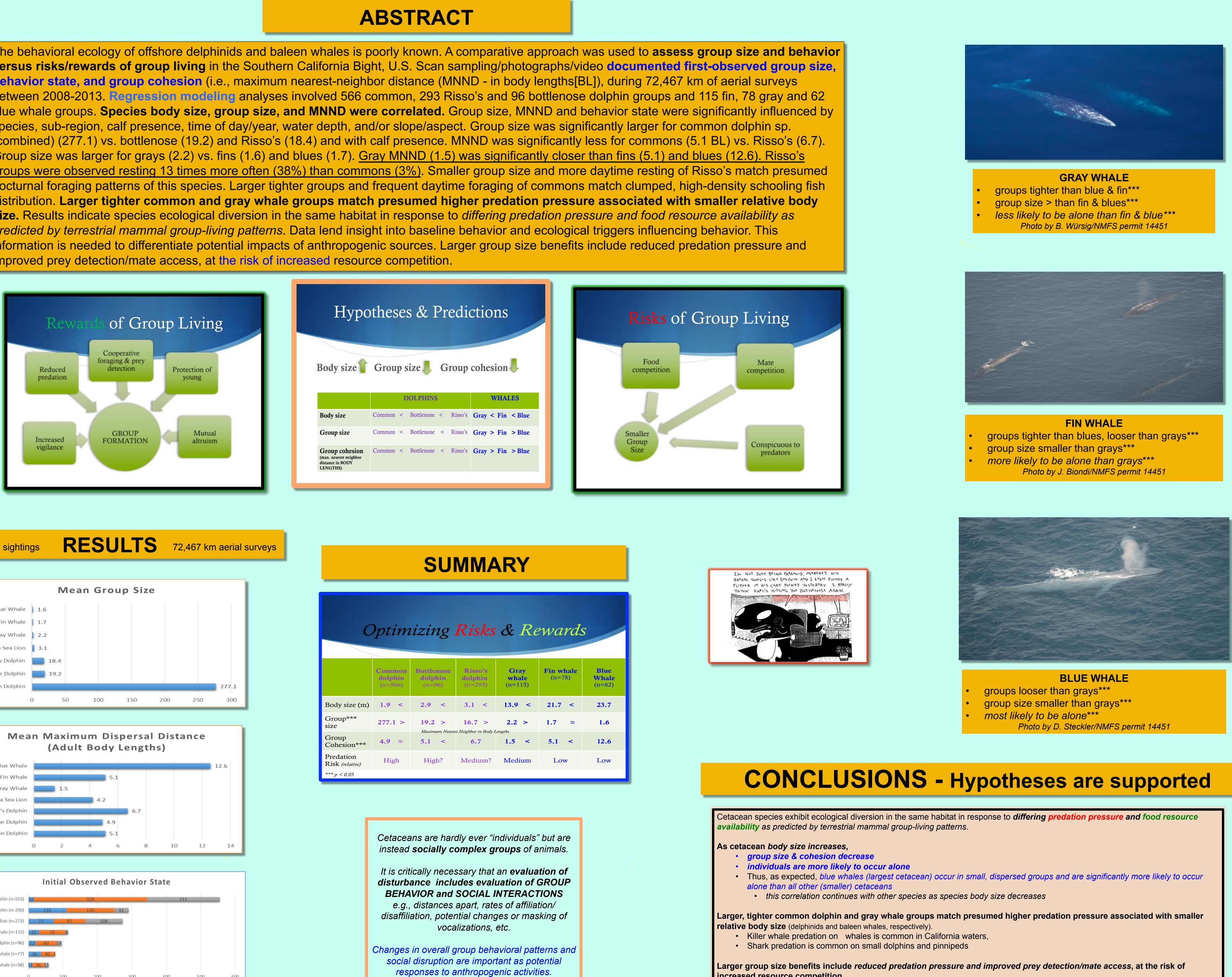
- groups tighter than Risso's & bottlenose***
- group size bigger than Risso's & bottlenose*** Never seen alone***
- Photo by B. Würsig/NMFS permit 14451

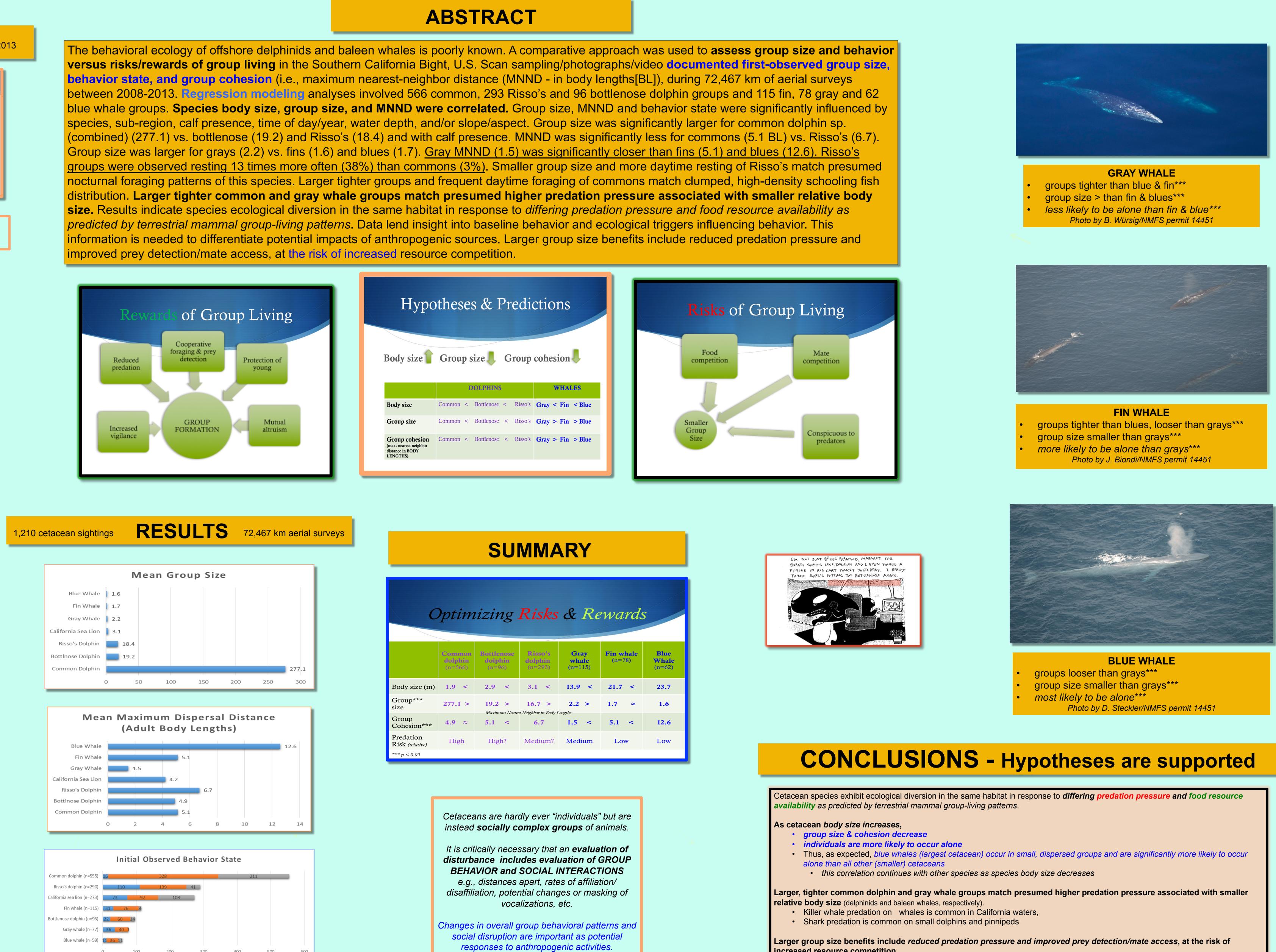


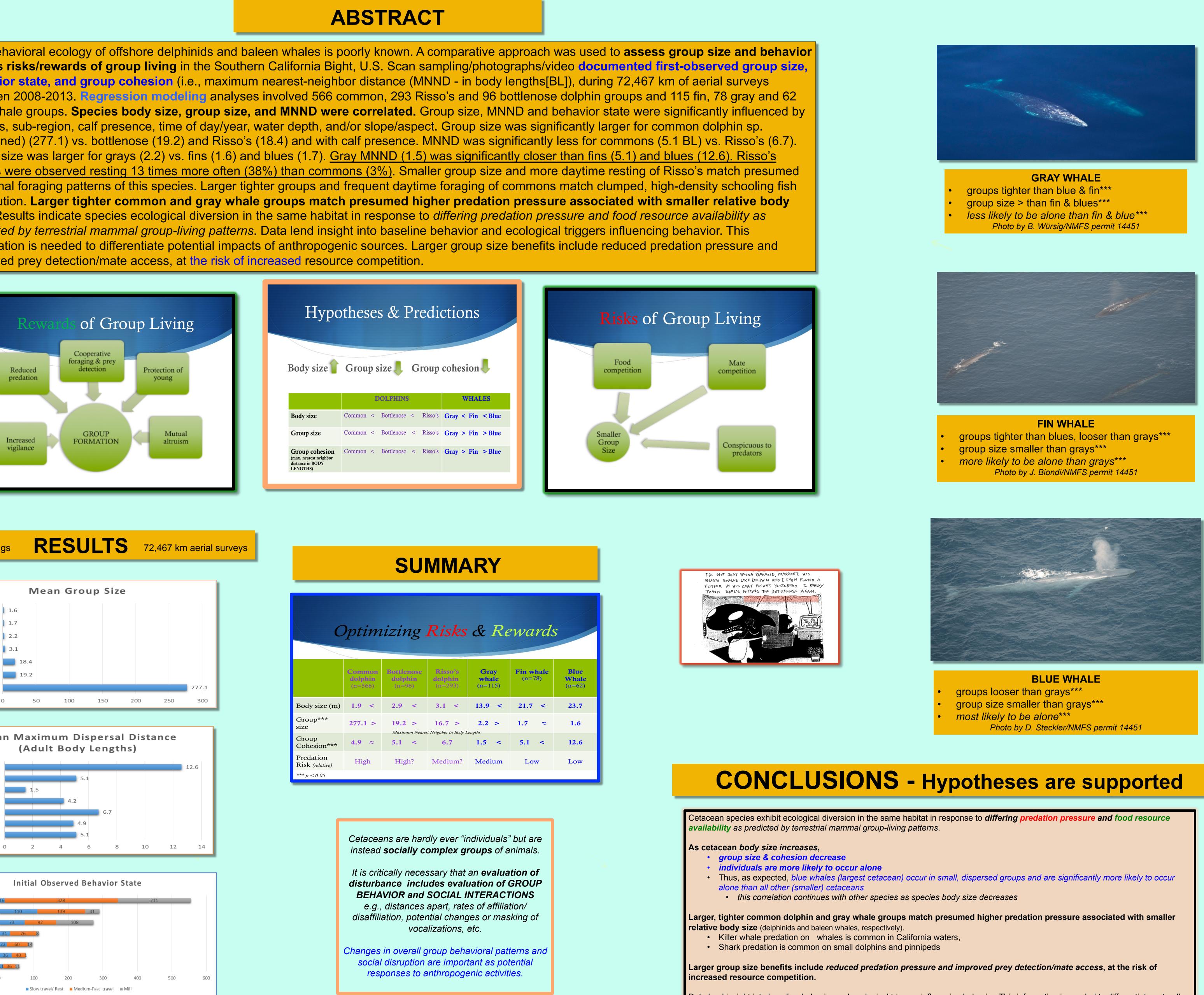
RISSO'S DOLPHIN

- groups looser than common dolphins***
- group size smaller than commons***
- rarely seen alone
- (no significant differences bottlenose & Risso's)
 - Photo by B. Würsig/NMFS permit 14451

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RISKS and **REWARDS** of group living

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occurring behavior vs. potential impacts of anthropogenic sources.

Data lend insight into baseline behavior and ecological triggers influencing behavior. This information is needed to differentiate naturally-