Proposal for Drone Survey in Waimea Valley

The department of Mathematics and the Applied Research Laboratory at the University of Hawaii-Manoa are requesting authorization for the use of Unmanned Aerial Systems to survey parts of the watershed and land in Waimea Valley. This

We plan to get video images at three of the sampling sites at Waimea valley. They are sampling sites 2, 3, and 5. The tree cover at site 3 is too dense to fly a drove over; the view is obscured by the thick tree canopy. We will take photos and video of this site by hand. The tree cover at site 2 is not as dense as at site 3, but there are still a lot of trees of varying heights obscuring a drone’s view of the site. We will likely try to get some aerial images of this site to do a 3-D reconstruction, but we may end up simply getting images of this site using a hand-held camera. Site 5 is nearest the bay and is quite open, so we will be able to survey a larger area using the drone and do a 3-D reconstruction.