Addendum to CFES Report 2019
Activity between February 17, 2020 and June 15, 2020

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Note to Reader:
This report is available as an electronic document in PDF format at
https://github.com/aubreymoore/CFES2019-addendum/blob/master/CFES2019-addendum.pdf

If you are reading the PDF version of the report on a device connected to the internet, you will be able to follow hypertext links to documents I have referenced.

Contents

1 Grant Proposals Prepared and Submitted (n=3)

I prepared and submitted three grant proposals: one submitted to the Department of Defense Strategic Environmental Research and Development Program (SERDP) requesting $3.6M [1] and two submitted to the US Forest Service requesting $240K and $23K [3, 2].

[1] Aubrey Moore, Godshen R. Pallipparambil, and Kenneth Pulifiaco. *SERDP Grant Proposal: Biological Control of Coconut Rhinoceros Beetle in the American Pacific.* Mar. 6, 2020. URL: https : / / github . com / aubreymoore / answers - to - pitch - questions/blob/master/SERDP-Full-Proposal/SERDP-submitted.pdf.

[2] Aubrey Moore and Mattew S. Siderhurst. *Grant Proposal: Improving Coconut Rhinoceros Beetle Breeding Site Detection Using Harmonic Radar.* May 7, 2020. URL: https : //github.com/aubreymoore/Harmonic-Radar/blob/master/USFS-harmonic-radar-proposal.pdf (visited on 05/07/2020).

[3] Aubrey Moore. *Grant Proposal: Establishment of Self-Sustaining Biological Control of Coconut Rhinoceros Beetle Biotype G.* May 5, 2020. URL: https://github.com/aubreymoore/2020-FS-CRB-biocontrol-project/blob/master/proposal.pdf.

2 Grant Reports Prepared and Submitted (n=3)

[1] Aubrey Moore. *Progress Report 1 for USDA-APHIS-PPA19 Grant: Coconut Rhinoceros Beetle Biocontrol.* Mar. 20, 2020. URL: https://github.com/aubreymoore/FY19-PPA-Report-1/blob/master/PPA19-report-1.pdf.

[2] Aubrey Moore. *Progress Report 4 for DOI-OIA Project: Coconut Rhinoceros Beetle Biological Control.* Mar. 23, 2020. URL: https://github.com/aubreymoore/doi-CRB-biocontrol-project/blob/master/report4/report4.pdf.

[3] Aubrey Moore. *Progress Report 4 for USDA-APHIS-PPA18 Grant: Coconut Rhinoceros Beetle Biocontrol.* Apr. 28, 2020. URL: https://github.com/aubreymoore/FY19-PPA-Report-1/blob/master/PPA18-report-4.pdf.

3 Technical Reports (n=3)

[1] James J. Grasela and Aubrey Moore. *Technical Report: Polymerase Chain Reaction (PCR) Analysis of the Coconut Rhinoceros Beetle (CRB), Oryctes Rhinoceros. Part 1.* 2020. URL: https://github.com/aubreymoore/FY19-PPA-Report-1/blob/master/pcrdata/PCR-Summary-Part-1.pdf.

[2] James J. Grasela and Aubrey Moore. *Technical Report: Polymerase Chain Reaction (PCR) Analysis of the Coconut Rhinoceros Beetle (CRB), Oryctes Rhinoceros. Part 2.* 2020. URL: https://github.com/aubreymoore/FY19-PPA-Report-1/blob/master/pcrdata/PCR-Summary-Part-2.pdf.

[3] James J. Grasela and Aubrey Moore. *Technical Report: Polymerase Chain Reaction (PCR) Analysis of the Coconut Rhinoceros Beetle (CRB), Oryctes Rhinoceros. Part 3.* 2020. URL: https://github.com/aubreymoore/FY19-PPA-Report-1/blob/master/pcrdata/PCR-Summary-Part-3.pdf.

4 Journal Articles in Preparation (n=7)

[1] Aubrey Moore, N-Y Su, and Leonard Sigrah. "First Record of the Coconut Termite, *Neotermes Rainbowi* (Isoptera: Kalotermes) from Micronesia". In: (In Preparation). in preparation.

[2] Aubrey Moore. "The Mariana Eight Spot Butterfly, Hypolimnas Octocula Marianensis". 2013. URL: http://guaminsects.myspecies.info/sites/guaminsects.myspecies.info/files/review.pdf (visited on 07/19/2016).

[3] Aubrey Moore. "Three New Island Records for Bark Beetles (Curculionidae: Scolitinae) on Guam from a Single Coffee Berry Borer Trap". In: (In Preparation). in preparation.

[4] Aubrey Moore. *Change Analysis of Guam Forest Inventory Data.* in preparation. URL: https://github.com/aubreymoore/SQLite-database-for-Guam-Forest-Inventory.

[5] Aubrey Moore. *CRB Trap Improvement.* in preparation. URL: https://github.com/aubreymoore/CRB-trap-improvement.

[6] Sean D G Marshall et al. *Recent Challenges from Coconut Rhinoceros Beetle to Palm Production in the Pacific and Prospects for Microbial Control.* IN PREPARATION.

[7] Aubrey Moore. *Coconut Rhinoceros Beetle Invasion History.* IN PREPARATION.

5 Miscellaneous Activities

Head Start On 2020-02-28 I lead a mini-workshop for 3 groups of the Guam Head Start Program participants.

UOG Charter Day On 2020-03-10 I set up and manned a display about Guam's insects.

GISC On 2020-02-22 I represented the University at the Guam Invasive Species Council.

Journal Article Review I reviewed a draft journal article entitled *Coconut Rhinoceros Beetle unpredictably adds Guam cycads to its host range*.

Zoom conferences I set up weekly Zoom conferences for the Agriculture and Natural Resources Program.

Eight-spot Butterfly Conservation I partially installed a large field cage (20ft x 20ft x 10 ft) in the Center for Island Sustainability Center compound in Dean's Circle. Work on this project has been interrupted by COVID-19.

Selection Committees I served on 3 selection committees for RCUOG employees.

COVID-19 I was invited to participate in an *ad hoc* group interested in modeling the COVID-19 outbreak on Guam. I participated in an online Zoom session with the group, published a Medium article entitled *Fitting Curves to COVID-19 Data for Guam and Hawaii* [1], and published Jupyter Notebooks which facilitate access to and visualization of timelines for Guam COVID-19 data [2]. I also reviewed a draft article entitled *Proposal for Immediate Infection Mitigation and Long Term Suppression Measures Aimed at Economic Revitalization and Discontinuing Physical Distancing*.

[1] Aubrey Moore. *Fitting Curves to COVID-19 Data from Guam and Hawaii*. Apr. 1, 2020. URL: https://medium.com/@aubreymoore2013/fitting-curves-to-covid-19-data-from-guam-and-hawaii-4c6c116645c4 (visited on 05/07/2020).

[2] Aubrey Moore. *GitHub Repository: Guam Corona Virus Data*. Apr. 3, 2020. URL: https://github.com/aubreymoore/Guam-Corona-Virus-Data.