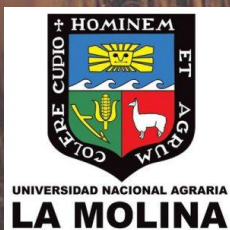


GLOBAL RESEARCH ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

Peru's Work in Climate Change and GHG Emissions

Claudia Arndt, PhD
CLIMATE CHANGE AND LIVESTOCK GROUP
National Agrarian University La Molina (UNALM)



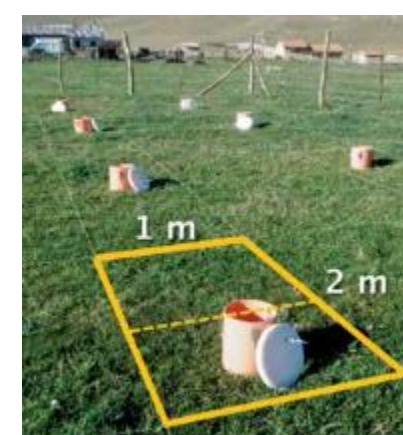
Presentation to IRG Annual Meeting
Wageningen, 03rd March 2020

Projects, initiatives and contributions to IRG's topics

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- Improvement of animal production systems with emphasis on dairy cattle in the Andean Region within the context of climate change.
UNALM, AGROSAVIA, INIAF-Bolivia, INIA-Peru, NZAGRC, and IICA.
FONTAGRO: 420,000 USD. 2014 - 2018.
- Establishment of the technical capacity in measure enteric CH_4 and N_2O
- Development of the ability to formulate strategies to mitigate emissions of milk production systems in the Andes (Bolivia, Colombia, Ecuador and Peru)



Projects, initiatives and contributions to IRG's topics

- Modeling SPS in the Peruvian Amazon region: economic and environmental component.
UNALM, INIA and North Caroline State University.
IADB-WB 320,000 USD. 2017 - 2019.
- Enteric CH₄ emission of dairy cattle and alpaca in the Andean region.
INIA and UNALM. IADB-WB 280,000 USD. 2017 - 2019.



Projects, initiatives and contributions to IRG's topics

- Estimation of enteric CH₄ emission and carbon sequestration in SPS of the Peruvian Amazon to improve the productivity of small producers.
UNALM and U. Wisconsin. USDA-FAS: 50,000 USD. 2019 - 2021.
- Climate change and livestock: Andean and Amazonian livestock systems.
UNALM and University of Hohenheim.
CONCYTEC: 28,000 USD. 2020 - 2022.



Projects, initiatives and contributions to IRG's topics

- Family and multipurpose silvopastoral systems in Peru and Colombia. UNALM, INIA, AGROSAVIA, CIAT and University of Hohenheim. FONTAGRO: 200,000 USD. 2020 – 2023
- Improving sustainability and resilience of Peruvian Amazon systems through silvopastoralism. UNALM. Submitted to Partnership of Enhancement Engagement in Research (PEER, USA). 130,000 USD. 2021 – 2022.

Characterization of SPS in the Peruvian Amazon



Projects, initiatives and contributions to IRG's topics

- **Climate change and livestock: Mitigation and adaptation.** UNALM, INIA, Hohenheim, and Autonomous University of Yucatán. FONDECYT: 470,000 USD. Feb 2020 – Feb 2022
- **GEF Project: Capacity Building for Peru's transparency system for climate change mitigation and adaptation.** The Ministry of Environment of Peru and UNALM. CBIT: 1,199,000 USD. Feb 2020 – Feb 2023
 - **Define the emission factors of dairy cattle by obtaining information to develop a Tier II methodology.** UNALM. CBIT: 200,000 USD

Associate Professional Livestock Emissions	International Emission Expert Livestock Emissions
<ul style="list-style-type: none">• Duration: 30 month• Payment: USD 69,000 total• Date Required: June 2020• Location: Ministry of Environment of Peru	<ul style="list-style-type: none">• Duration: 10h/month• Payment: USD 11,700 total• Date Required: June 2020• Location: Home based

Opportunities and Future actions for Peru

- Carbon sequestration of pastoral systems
- Transition from Tier 1 to 2 approach to estimate for livestock inventories
- Effect of BMP on productivity, emissions, and deforestation
- Development of financial mechanisms to support implementation of BMP
- Development of MRVs to access carbon finance
- Possibility to implement circular economy in livestock production
- Effect of pastoral and SPS on biodiversity

Current and Future Funding Opportunities

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Funding opportunities from Latin America and the Caribbean



Call for Proposals 2020: Innovations for the sustainable increase of agricultural productivity in Latin America and the Caribbean in the context of climate change



CLIMAT AmSud

Call for forming research collaborations between South America and France

Funding Opportunities for Latin America

NAMA Facility



INTERNATIONAL
CLIMATE INITIATIVE (IKI)

Thank you very much

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Uta Dickhoefer, PhD. U. Hohenheim. Nutrition and Physiology