

ON AGRICULTURAL GREENHOUSE GASES

6 February 2019

Overview of GRA and its activities



GLOBAL RESEARCH

AT A GLANCE

ON AGRICULTURAL GREENHOUSE GASES













Science Networks



Over 3000 scientists involved in activities of the GRA



fellowships awarded to recipients from 33 countries





technical training workshops held



technical guidelines, resource materials and databases produced

















globalresearchalliance.org



January 2019

GLOBAL RESEARCH ALLIANCE

Partner Organisations ALLIANCE ON AGRICULTURAL GREENHOUSE GASES







































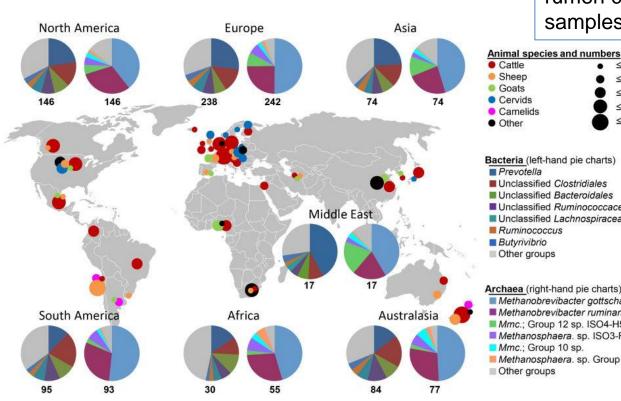




Global Rumen Census

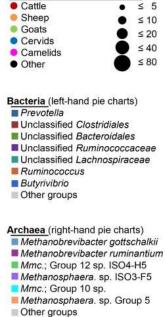
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Global solutions to reduce methane emissions from ruminant animals are feasible because the microbes causing the emissions are similar around the world.





140 scientists from 73 organisations in 3 countries contributed to the rumen census, with microbial samples collected over two years.



MRV and GHG measurement

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Handbook of M for a Greenhou Manage Nitrous Oxide Chamber Methodology Guidelines Guidelines for Mea Emissions from Rice I Operated Closed



Guidelines for use of sulphur hexafluoride (SF₆) tracer technique to measure enteric methane emissions from ruminants





Edited by Cecile de Klein and Mike Harvey

July 2015

Version 1.1















Modelling and meta-analysis

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MAGGnet

Managing Agricultural Greenhouse Gas Network



Since 2012, MAGGnet has compiled metadata from over 337 experimental studies from 23 countries.



- > DNDC
 - > BE-DNDC
 - > China-DNDC
 - > Crop-DNDC
 - > DNDC-CSW
 - > DNDC-CAN
 - > DNDC-Europe
 - > FFFM-DNDC
 - > Forest-DNDC
 - > Landscape-DNDC
 - > Manure-DNDC
 - > Mobile-DNDC
 - > NEST-DNDC
 - > NZ-DNDC
 - > PnET-N-DNDC
 - Forest-DNDC-Tropica
 - > Wetland DNDC
 - > Rice-DNDC
 - > UK-DNDC
 - > US Cropland Greenhouse Gas Calculator
- > ECOSSE
 - > RothC
 - > Sundial

Best practice and emerging options

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Enfermedades comunes

Las enfermedades relevantes pueden incluir enfermedades infecciosas, parasitarias y de la producción o relacionados a la explotación (por ejemplo, la mastitis o las cojeras). Algunas enfermedades de los animales son muy específicas de las regiones y los sistemas de producción. La distribución

> regional de algunas enfermedades puede de la enfermedad.

Prevención, control y erradicación

de las enfermedades

La prevención, así como la detección y tratamiento precoz de enfermedades de los animales es clave para mejorar la salud animal y la productividad, reducir la



MRV Platform for Agriculture

Measuring, reporting and verifying greenhouse gas emissions and mitigation









MRV in Practice

Summaries of MRV concepts and methods for agriculture, with details for the livestock sector

Understand the international MRV framework under the UNFCCC



Case Studies

Lessons learned for improving MRV through advanced livestock GHG inventories



Country inventory: Austria

Leam More >



Country inventory: Colombia

CLIFF-GRADS Phd Scholarships









First call – December 2017

- 18 opportunities advertised.
- 9 scholarships awarded to recipients from Nigeria, Tunisia, Ethiopia, Colombia, and Argentina.
- Hosted at CGIAR centres (CIAT, CYMMIT) and GRA member country research institutes (Netherlands, Chile, UK).

Second call – September 2018

- 50 opportunities advertised (including 10x FLW).
- 243 applications from students from > 50 developing countries.
- 33 scholarships awarded to recipients from 18 countries.
- Hosted at following institutions:
- Planned 3rd call for August 2019
 - Awards announced at COP25

2019 #CLIFF-GRADS fellows go to
@inra_france @USDA_ARS @ISRICorg
@Thuenen_aktuell @unimelb @intaargentina
@irri @ilri @iniachile @queensu @BangorUni
@CIAT_ @CATIEOficial @CIFOR @_SLU
@SyddanskUniv @ICRISAT @mustmw
@HokkaidoUni @GRA GHG



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FOR MORE INFORMATION

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