

DATA MANAGEMENT PLAN OF THE PROJECT "SOCIO-ECOLOGICAL APPROACH OF DOG-BORNE ZONOTIC DISEASES IN SOUTHEAST ASIA"

A Data Management Plan based on OPIDOR "CIRAD-TEMPLATE" template provided by CIRAD.

GENERAL INFORMATION ON THE MANAGEMENT PLAN

Title	PGD du projet "Socio-Ecological Approach of Dog-borne zoonotic diseases in Southeast Asia"
Livable	NA
Version	Final version
Objets/perimeter of the DMP	Data Management Plan for datasets produced during the course of ANR-SEAdogSEA project and associated research initiatives on dog-associated zoonotic diseases in SE Asia (FSPI-OHSEA/DogZooSEA, PhD Thibaut Langlois/U.Montpellier, PhD Eugenio Dias Ribeiro Santo/U.Montpellier), at the time of completion of SEAdogSEA project (31/12/2023)
Research Domains (OCDE classification)	1.6 Biological sciences
Language	eng
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Licence	Nom Creative Commons Attribution 4.0 International URL http://spdx.org/licenses/CC-BY-4.0.json
Documents, associated web sites	<ul style="list-style-type: none">• CIRAD dataverse: https://dataverse.cirad.fr• SiteWebImages_SEAdogSEA : https://seadogsea.lirmm.fr/• [Poster Presentation] One Health in practice: a socio-ecological approach for the study and management of zoonotic diseases associated with free-roaming dogs in Southeast Asia (SEAdogSEA): https://inria.hal.science/hal-04637825/

PROJECT INFORMATION

Titre du projet	Socio-Ecological Approach of Dog-borne zoonotic diseases in Southeast Asia
Acronym	SEA-dog-SEA
Summary	SEA-dog-SEA is a multi-disciplinary project associating ecology, epidemiology and social sciences in order to better understand and manage the transmission of dog-associated zoonotic pathogens in SE Asia. The project focuses on the ecological and anthropic drivers of dog movements and contacts patterns in rural landscapes in Indonesia, Cambodia and Thailand. Data collected will use several methods drawn from ecology (GPS tracking of dogs, Camera-traps), pathogen diagnostic (serology, PCR, NGS) and social sciences (Questionnaire, Interviews), analysed to provide an interdisciplinary understanding of the drivers of dog-borne zoonotic diseases in the region.
Funding	<ul style="list-style-type: none">• Agence Nationale de la Recherche : ANR-19-ASIE-0002• Co-funding: RISTEKDIKTI-Indonesia, FNRS-Belgium, TICA-Thailand, FSPI AUF (Cambodia), Université de Montpellier-France
Date start	2019-10-01
Date end	2023-12-31
Partenaires	<ul style="list-style-type: none">• University of Liège https://ror.org/00afp2z80• Universitas Gadjah Mada https://ror.org/03ke6d638• Centre de Coopération Internationale en Recherche Agronomique pour le Développement https://ror.org/05kpkpg04• Institut Pasteur du Cambodge https://ror.org/03ht2dx40• Kasetsart University https://ror.org/05gzceg21• Centre National de la Recherche Scientifique https://ror.org/02feahw73• Université de Montpellier https://ror.org/051escj72

Research Products :

DB1.	Main Questionnaire_SEAdogSEA	(Data set)
DB2.	Camera Traps Images_SEAdogSEA	(Images)
DB3.	Dog GPS tracking_SEAdogSEA	(Data set)
DB4.	Owner-Dog Arbovirus Screening_SEAdogSEA	(Data set)
DB5.	Owner-Dog Microbiome_SEAdogSEA	(Data set + Physical object/DNA)
DB6.	Dog and Owner samples collected in Nan (Thailand) during the course of SEAdogSEA and TICA/Innovative Animal Health projects	(Data set + Physical object/biological samples)
DB7.	Dog and Owner samples collected in Kandal and Stung Treng (Cambodia) during the course of SEAdogSEA and DogZooSEA projects	(Data set + Physical object/biological samples)
DB8.	Dog and Owner samples collected in Bali (Indonesia) during the course of SEAdogSEA and DogZooSEA projects	(Data set + Physical object/biological samples)

Contributors

Name, Surname (ORCID)	Affiliations (ROR)	Roles/Country (Database)
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Widiasih Ayu Dyah	Universitas Gadjah Mada https://ror.org/03ke6d638	Data acquisition, analysis (DB1, DB2, DB3, DB4, DB8_DogOwn_Sampl_Id)
Wijayanto Hery	Universitas Gadjah Mada https://ror.org/03ke6d638	Data acquisition and analysis Indonesia (DB1, DB2, DB8)

DATA MANAGEMENT PLAN FOR THE PROJECT "SOCIO-ECOLOGICAL APPROACH OF DOG-BORNE ZONOTIC DISEASES IN SOUTHEAST ASIA" AND ASSOCIATED PROJECTS

1. PROJECTS INFORMATIONS

Date and version of the DMP : VEn-04 Nov 2024

Acronyms and full names of associated projects

- SEA-dog-SEA (*Socio-Ecological Approach of dog-borne zoonotic diseases in SE Asia*)
- DogZooSEA (*Supporting research and laboratory capacities on dog-associated zoonotic diseases in Cambodia and collaborations with SE Asia countries*)
- TICA/Innovative Animal Health (*Thai International Cooperation Agency*)

List of main donors / responsible institutions

- ANR/CIRAD-ASTRE
- FNRS/University of Liège
- RISTEKDIKTI/Gadjah Mada University
- FSPI-AUF/Institut Pasteur du Cambodge
- TICA/Kasetsart University
- Université de Montpellier/IRD-MIVEGEC and CNRS-LIRMM

Calls for projects' proposals (if appropriate)

- Joint Funding Scheme EU-ASEAN 2019 (AAP ANR ASEAN 2019)
- Appel à projet OHSEA "One Health /Une santé en pratique en Asie du Sud-Est » (FSPI/AUF)

Thematics of the calls:

- Southeast Asia-Europe Joint Call Projects / Thematic areas of Infectious Diseases (including Antimicrobial Resistance)
- FSPI-AUF/One Health in practice in SouthEast Asia

Reference of conventions

- ANR-19-ASIE-0002
- AUF-DRAP 6951

Projects Start/End Dates

- SEAdogSEA: 01/10/2019 to 31/12/2023
- DogZooSEA: 01/08/2022 to 31/02/2023
- TICA-Innov.Health: 01/01/2020 to 31/12/2024
- UM PhD thesis T. Langlois 01/10/2023 to 30/09/2025
- UM PhD thesis E. Dias Ribeiro Neto 01/01/2024 to 30/09/2026

Institutions coordinating the projects and associated thesis

- SEAdogSEA: CIRAD UMR ASTRE pour SEAdogSEA ; PI: Michel Garine-Wichatitsky, CIRAD, UMR117-ASTRE, Kasetsart University, Bangkok, Thaïlande
- DogZooSEA: Institut Pasteur du Cambodge/Epidemiology unit for DogZooSEA ; PI: Sowath Ly, IPC, Epidemiology, Phnom Penh, Cambodia
- TICA-InnovHealth: CNRS IRL DEEP Health, Bangkok, Thaïlande; PI: Serge Morand
- Thesis T. Langlois: UM/MIVEGEC, Montpellier, France, PhD Supervisor Sylvie Hurtrez-Boussès
- Thesis E. Dias Ribeiro Neto: UMLIRMM, Montpellier, France, PhD Supervisor Marc Chaumont

Objectives of the project

SEA-dog-SEA is a multi-disciplinary project associating ecology, epidemiology and social sciences in order to better understand and manage the transmission of dog-associated zoonotic pathogens in SE Asia. The project focuses on the ecological and anthropic drivers of dog movements and contacts patterns in three rural landscapes in Indonesia, Cambodia and Thailand. Data collected use several methods drawn from ecology (GPS tracking of dogs, Camera-traps/Capture-Mark-Recapture), pathogen diagnostic (serology, PCR,...) and social sciences (Questionnaire, Interviews), analysed to provide an interdisciplinary understanding of the drivers of dog-borne zoonotic diseases in the region.

Key-words: dog zoonosis, socio-ecosystems, ecology, epidemiology, multidisciplinary, Indonesia, Cambodia, Thailand

Project partners

- CIRAD-ASTRE (France, Thailand)
- Gadjah Mada University (Indonesia)
- Institut Pasteur du Cambodge (Cambodia)
- Kasetsart University (Thailand)
- University of Liège (Belgium)
- Université de Montpellier (France)

2. DESCRIPTION OF DATA SETS

The datasets collected during SEAdogSEA project and associated projects consists in 8 main datasets/samples sets collected from dog owners and dogs in 4 sites in Thailand, Indonesia and Cambodia (2 sites):

- DB1_MainQuestionnaire_SEAdogSEA : Surveys of selected individual and households, qualitative and quantitative data related dog owner characteristics, perceptions and practices regarding dogs, and Individual dogs characteristics
- DB2_CameraTrapsImages_SEAdogSEA : Images and short videos of dogs collected by camera traps in 3 sites surveyed in Thailand, Indonesia and Cambodia
- DB3_DogGPStracking_SEAdogSEA : GPS positions of dogs recorded at regular intervals during tracking sessions with GPS collars in 3 sites surveyed in Thailand, Indonesia and Cambodia
- DB4_Owner-DogArbov_SEAdogSEA : Results of serological surveys of arboviruses (DENV-2/JEV/WNV) in Dog-Owners and Dogs from 4 sites in Thailand, Indonesia and Cambodia (2 sites); samples collected during two sessions between 2022-2023
- DB5_Owner-DogMicrobiome_SEAdogSEA : Results of microbiome analysis from samples collected from Dog-Owners and Dogs from 2 sites in Thailand and Indonesia
- DB6_DogOwn_Sampl_TH_SEAdogSEA: Dog and Owner samples collect in Nan (Thailand) during the course of SEAdogSEA project
- DB7_DogOwn_Sampl_Kh_SEAdogSEA : Dog and Owner samples collect in Kandal and Stung treng (Cambodia) during the course of SEAdogSEA project
- DB8_DogOwn_Sampl_Id_SEAdogSEA : Dog and Owner samples collect in Bali (Indonesia) during the course of SEAdogSEA project

Nature of the data

- DB1_MainQuestionnaire_SEAdogSEA : qualitative and quantitative data of dog owners and dog characteristics
- DB2_CameraTrapsImages_SEAdogSEA : Images and short videos captured by camera traps
- DB3_DogGPStracking_SEAdogSEA : GPS coordinates of dogs equipped with GPS collars
- DB4_Owner-DogArbov_SEAdogSEA : Results of FNRT test (DENV-2/JEV/WNV), blood serum samples

- DB5_ Owner-DogMicrobiome_SEAdogSEA : Results of microbiome analysis; DNA extracts (faecal samples)
- DB6_ DogOwn_Sampl_TH_SEAdogSEA : Dog and Owner samples collected in Nan (Thailand) (blood serum samples, faecal swab samples, ectoparasites)
- DB7_ DogOwn_Sampl_Kh_SEAdogSEA : Dog and Owner samples collect in Kandal and Stung treng (Cambodia) (blood serum samples)
- DB8_ DogOwn_Sampl_Id_SEAdogSEA : Dog and Owner samples collect in Bali (Indonesia) (blood serum samples, faecal samples)

Countries where data were collected

Indonesia (Bali province)

Cambodia (Kandal province, Stung Treng province)

Thailand (Nan Province)

Overall period for data collection

Between September 2019 and December 2023

Methods for data production

- DB1_MainQuestionnaire_SEAdogSEA : Questionnaire surveys/semi-quantitative data, Interviews/qualitative data ; Participatory mapping/dog movement analysis
- DB2_CameraTrapsImages_SEAdogSEA : Images and short videos captured by camera traps; raw data/images screened for images containing dogs/
- DB3_DogGPStracking_SEAdogSEA : GPS coordinates of dogs equipped with GPS collars designed and assembled at Kasetsart University, Thailand
- DB4_ Owner-DogArbov_SEAdogSEA : Blood samples collected by venipuncture, serum extracted, and FNRT tests performed for DENV-2/JEV/WNV using standard serology laboratory protocols
- DB5_ Owner-DogMicrobiome_SEAdogSEA : DNA extracted and microbiome analysis using standard laboratory protocols
- DB6_ DogOwn_Sampl_TH_SEAdogSEA : Processed and stored samples collected from dogs and owners in Nan (Thailand) including blood whole blood, packed-cell and serum; stored -20°C), faecal samples (rectal swabs, stored in 70% ethanol) and dog ectoparasites (stored in 70% ethanol)
- DB7_ DogOwn_Sampl_Kh_SEAdogSEA : Processed and stored samples collected from dogs and owners in Kandal and Stung Treng (Cambodia) including blood (serum; stored -20°C)
- DB8_ DogOwn_Sampl_Id_SEAdogSEA : Processed and stored samples collected from dogs and owners in Bali (Indonesia) including blood (whole blood and serum; stored -20°C) and rectal and tracheal samples (swabs, stored -20°C)

Provisional size/volume estimates

- DB1_MainQuestionnaire: 3 files .xls < 10 Mo
- DB2_CameraTrapsImages_SEAdogSEA : Raw global datasets include 430293 files representing approx. 3.238 To; subsets Thailand (approx. 32000 files/400Mo), Indonesia (approx 162000/400Mo) and Cambodia (approx. 237000 files/2.5To)
- DB3_DogGPStracking_SEAdogSEA : Raw data in GPS coordinates of 270 dog-collar sessions (151 Thailand, 91 Bali, 28 Cambodia) csv, xls files < 50 Mo
- DB4_Owner-DogArbov_SEAdogSEA : Results of 318 dog-owners and dogs DENV-2/JEV/WNV-FNRT tests xls file < 100Ko; 316 frozen serum samples
- DB5_Owner-DogMicrobiome_SEAdogSEA : Results of microbiome analysis, 104 DNA extracts, csv, xls files
- DB6_DogOwn_Sampl_TH_SEAdogSEA : Dog and Owner samples collected in Nan (Thailand) (74 blood samples, 58 faecal samples, 77 dog/ectoparasites samples)
- DB7_DogOwn_Sampl_Kh_SEAdogSEA : Dog and Owner samples collect in Kandal and Stung treng (Cambodia) (200 blood serum samples frozen)
- DB8_DogOwn_Sampl_Id_SEAdogSEA : Dog and Owner samples collect in Bali (Indonesia) (478 blood samples, 52 Dog DNA isolates; 30 Dog faecal and 30 Dog tracheal swabs)

No previous publication (original data)

Previous related publications (methods, data subset)

Barrelet, C., Neto, E. D. R., Chaumont, M., Subsol, G., Loire, E., & De Garine-Wichatitsky, M. (2023). Ré-identification de chiens à partir de vidéos en environnement non-contrôlé. GRETSI 2023. Com orale. https://www.lirmm.fr/~chaumont/publications/GRETSI2023_BARRELET_DIAS-RIBERO-NETO_SUBSOL_LOIRE_DE-GARINE-WITTCCHATITSKY_ReId_Chien.pdf

https://www.lirmm.fr/~chaumont/YT-BB-Dog_SEAdogSEA.html

de Garine-Wichatitsky, Michel, Animika Kritiyakan, Wayan Tunas Artama, Sowath Ly, Johan Michaux, Areeya Kriengudom, Ketsarin Kamyinkird, Chuanphot Thinphovong, Kittipong Chaisiri, Barandi Sapta Widarton, Hery Wijayanto, Dyah Ayu Widiasih, Pande Made Kutaneegara, Putu Cri Devischa Gallantiswara, Mia Nur Farida, Khesara Sastrin Prasita Negara, Muhammad Nur Faiz MAHFUDZ, Muhammd Najib Arung Petana Raja Bone, Woro Laras, Ni Nyoman Ayu Dewi, Hélène Guis, Heidi Auerswald, Sopheak Sorn, Anan Phonphoem, Chaiporn JAIKAE0, Suchaisri Li-On, Aphirak Jansang, Withawat Tangtrongpairoj, Marc Chaumont, Eugenio Dias Ribeiro Neto, Cyril Barrelet, Gérard Subsol, Pauline Van Leeuwen, Thibaut Langlois, Serge Morand. 2024. One Health in practice: a socio-ecological approach for the study and management of zoonotic diseases associated with free-roaming dogs in Southeast Asia (SEAdogSEA). 3rd Joint AITVM–STVM International Conference, May 2024, Montpellier, France., TROPICAL VETERINARY MEDICINE IN CHALLENGING TIMES: how should academic and research programs adapt?. Poster. (hal-04637825)

Jaikaeo, C., Jansang, A., Li-On, S., Kitisriworapan, S., Tangtrongpairoj, W., Phonphoem, A. *et al.* (2022). Design and field test of a low-cost device for real-time livestock tracking using GPS/LoRa communication. *Applied Engineering in Agriculture*, 38, 885-901.

Potential for data and sample re-use

Upon legitimate reasonable request to SEAdogSEA project coordinator and country PIs, the data and samples collected may be shared to be re-used for further epidemiological, social and ecological analysis and pathogen screening

Target users

Scientists, managers and policy makers in public and veterinary public health, environment and biodiversity conservation

3. NORMS AND METADATA

Description of metadata

Database/Research product	Type of data	Units/Data format	Data manager
DB1_MainQuestionnaire	<p>Personal data of dog owners (sensitive), activities, dog management</p> <p>Characteristics of dogs</p>	<p>Metric system</p> <p>.xls, .csv</p>	<p>M. de Garine-Wichatitsky</p> <p>T. Langlois</p> <p>A. Kriengudom</p> <p>S. Sorn</p>
DB2_CameraTrapsImages_SEAdogSEA	<p>Videos and images collected by camera-traps in Indonesia, Cambodia and Thailand</p> <p>Data analysed are anonymized</p>	<p>.jpeg</p> <p>.mov</p>	<p>M. Chaumont</p> <p>E. Dias Ribeiro Neto</p>
DB3_DogGPStracking_SEAdogSEA	<p>GPS positions of radio-collared dogs, date/time</p>	<p>GPS/UTM</p> <p>xls, .csv</p>	<p>M. de Garine-Wichatitsky</p> <p>A. Phonphoem</p> <p>T. Langlois</p>
DB4_Owner-DogArbov_SEAdogSEA	<p>Results of laboratory screening of dog owners and dogs for arbovirus DENV2/JE/WN</p> <p>No sensitive dog owners' personal data (dataset anonymised)</p>	<p>xls, .csv</p> <p>Serum/-20°C</p>	<p>M. de Garine-Wichatitsky</p> <p>H. Auerswald</p>
DB5_Owner-DogMicrobiome_SEAdogSEA	<p>Results of faecal DNA microbiome analysis of dog/dog owners sampled in Thailand and Indonesia</p> <p>No sensitive dog owners' personal data (dataset anonymised)</p>	<p>Microbiome DNA sequences</p> <p>.txt</p> <p>DNA/-20°C</p>	<p>J. Michaux</p> <p>P. Van Leeuwen</p>
DB6_DogOwn_Sampl_TH_SEAdogSEA	<p>Blood samples of dog/dog owners</p> <p>Faecal samples of dog/dog owners</p> <p>Dog ectoparasites</p>	<p>Serum/-20°C</p> <p>Swab/70° Ethanol</p> <p>70° Ethanol</p>	<p>A. Kritiyakan</p> <p>A. Kriengudom</p> <p>K. Kamyinkird</p> <p>S. Morand</p>
DB7_DogOwn_Sampl_Kh_SEAdogSEA :	<p>Blood samples of dog/dog owners</p>	<p>Serum/-20°C</p>	<p>S. Ly</p> <p>S. Sorn</p>
DB8_DogOwn_Sampl_Id_SEAdogSEA	<p>Blood samples of dog/dog owners</p> <p>Faecal and tracheal samples of dog</p>	<p>Serum/-20°C</p> <p>Swabs/DNA-RNA shiled, -20°C</p>	<p>W. Artama</p> <p>H. Wijayanto</p> <p>F. Mahfudz</p>

4. RESPONSABILITIES, PERMITS AND INTELLECTUAL PROPERTIES

Field data collection supervision:

- Indonesia: Prof W. Artama, Dr B. Widartono, Dr H. Wijayanto, UGM, Yogyakarta
- Cambodia: Dr Sowath Ly, Dr H. Guis, Mr S. Sorn, IPC-CIRAD, Phnom Penh
- Thailand: Prof A. Kritiyakan, Prof .K. Kamyngkird, Prof S. Morand, Mrs A. Kriengudom, Kasetsart U., Bangkok

Ethical permits and research authorisations were obtained from the relevant authorities:

- Indonesia: Ethical Clearance permits (Mada0035/EC-FKH/Int./2020; KE/FK/0262/EC/2021; 034/EC-FKH/Int./2022) issued by Research Ethics Committee of Faculty of Veterinary Medicine Universitas Gadjah; Research Recommendation Letter (070/08543/DPMPTSP-B/2019, 070/11597/IZIN-C/DISPMPPT, 070/1437/IZIN-C/DISPMPPT, 070/1543/IZIN-C/DISPMPPT, 070/1262/IZIN-C/DISPMPPT, 070/1259/IZIN-C/DISPMPPT) by Bali Provincial Agency, and Karangasem Service Regional Agency (120/DPMPTSP/2022)
- Cambodia: permit n°116 issued National Ethics Committee for Health Research of Cambodia, support letter from CDC/Ministry of Health (n°220 CDC); from GDAH Ministry of Agriculture and from Strung Treng Province
- Thailand: permit n°ACKU65-VTN-001 issued by Institutional Animal Care and Use, Faculty of Veterinary Technology ; Permit from Royal Forest Department Management, Nan province ; permit n°0401/2503 by the National Research Council of Thailand (Serge Morand)

All sample collections from voluntary dog owners and dogs was performed by experienced medical and veterinary staff, certified by relevant public health or veterinary services in Indonesia, Cambodia and Thailand

All field activities (questionnaire, sample collection, dog gps-tracking, camera-trap survey) were approved by local authorities and with participation/supervision by local representatives (Chey Touch village, Kandal province, Cambodia; Seam Pang, Stung Treng province, Cambodia; Saenthong villages, Nan Province, Thailand ; Sibetan village, Karangasem, Indonesia)

Informed consent was obtained from respondents before any data collection, interview or group discussion. GPS collars were fitted on dogs with the active participation of the owners after informed consent of voluntary dog owners before each session.

Laboratory analysis supervision:

Arbovirus screening/IPC (DB4): Dr H. Auerswald/IPC-Virology

Artificial Intelligence/Image processing: Dr M. Chaumont/UM-LIRMM

Microbiome analysis: Prof J. Michaux/U.Liège

Ectoparasite identification : Prof K. Kamyngkird/Kasetsart U-Vet.Med

Data analysis will be coordinated by the PI/Dr Michel Garine-Wichatitsky, with inputs from the relevant researchers and PhD students for each paper/DB

Authorship will be shared between the contributors of the consortium of partners based on their inputs (conception, design, analysis and/or interpretation of data)

5. ARCHIVING AND CONSERVATION

During the project:

All datasets are anonymized for sharing and analysis among project partners. One copy with names of respondents and personal data is kept by the country PIs and the project Coordinator (all countries merged).

All stored and shared images and videos datasets are anonymized, containing only dogs. One copy of raw data is kept protected by the country PIs and LIRMM contact person (all countries merged).

Cirad Alfresco share SEA-dog-SEA

External Hard Disk back-up copy of the data, 1 external HD/Country PI, 1 full back-up/coordinator

Subset of dog images analysed by AI and validated by partners: https://www.lirmm.fr/~chaumont/YT-BB-Dog_SEAdogSEA.html

Storage site/life

Databases of published papers: Cirad Dataverse TBA (unlimited conservation)

Raw data: CNRS-LIRMM Dataverse (20 years); CIRAD Alfresco share (5 years)

Samples stored at Kasetsart U, Gadjah Mada U., IPC, U. Liège (5 years)

Estimated volume of data that will be made available

Volume of data: TBA, will depend on the papers produced in epidemiology, ecology and social sciences (~ 10 Go)

Volume of images: TBA, datasets of dog images/videos analysed by AI will be shared for each article published (500Go)

Numeric Identification

<https://doi.org/10.18167/agritrop/00824>

Archiving and conservation

CIRAD Dataverse, UMR-ASTRE (contact Facundo Muñoz, facundo.munoz@cirad.fr, dataverse@cirad.fr): <https://dataverse.cirad.fr/dataverse/seadogsea>

LIRMM Dataverse (contact M. Chaumont marc.chaumont@lirmm.fr) : https://www.lirmm.fr/~chaumont/YT-BB-Dog_SEAdogSEA.html