

2023 EAAFP Small Grant Fund Application Form

Part A.

A. Personal Details of Applicant

Title: Mr Putra Chairunas Adha
(Mr, Ms etc) Family name Given Name/s

Institution: Wild Heritage of Sumatra (WHIS) Foundation
Institutional address: Jl. Tempuling No. 169, Kelurahan Sidorejo Hilir, Kecamatan Medan Tembung, Medan City, North Sumatra Province, Indonesia
Street address or GPO Box

Degree type: M. Sc Medan Indonesia 20222
Suburb or town State or country Postcode

±62 813 1934 2597 ±62 81319342597
Primary contact number Mobile phone number

Email address: Chairunasadha@gmail.com

B. Relevant Working Group or Task Force Chair/Coordinator - DETAILS

Please contact the EAAFP Programme Officer if additional guidance is needed in relation to this section (programme@eaaflyway.net)

Name of Working Group or Task Force: Monitoring Coordinator of Shorebirds Working Group.

Title of Chair/Coordinator: Mr. Li Zuowei David
(Mr, Ms etc) Family name Given Name/s

Email address: davidlizuowei@gmail.com

C. Eligibility of Projects

Please select "Yes" or "No" for each of the following questions:

- The focus of the project is migratory waterbirds and their habitats? Yes No
- The project will improve the understanding of factors important for the conservation of migratory waterbirds and their habitats in the EAAF? Yes No
- The applicant agrees to provide a final report within 3 months of the completion of the project? Yes No
- The applicant agrees to submit 1-2-page article and photographs for inclusion on EAAFP's website and/or write a brief article for the EAAFP's newsletter. Photographers will be acknowledged? Yes No

- The applicant will acknowledge the support of the EAAFP in any publications, presentations and reports arising from this work? Yes No

D. Project Details

Project Title: Please provide a concise and informative title of your entire project (not just the component for which funds are sought)

Sumatran Shorebird Research and Conservation Project

Sub-title: Monitoring and habitat assessment for migratory shorebirds in important intertidal landscapes on the eastern coast of North Sumatra Province (Sujono Intertidal Landscape), Indonesia.

Project Proposal:

Details of your entire project (not just the component for which EAAFP funds are sought) (2.5 page maximum)

1. Objectives:	<p>The main goal of the Sumatran Shorebird Research and Conservation Project is to support the management and conservation of the important sites for migratory shorebirds on the eastern coast of northern Sumatra (Aceh and North Sumatra Provinces), and with sustained engagement from the community and government. Therefore, the project will focus on the following objectives across three distinct phases:</p> <p>Phase-I (2018-2020) Objective 1: To survey and identify all the potential important sites for migratory shorebirds especially globally threatened shorebirds (Nordmann's Greenshank, Great Knot, Far Eastern Curlew and Asian Dowitcher) in Northern Sumatra (Aceh and North Sumatra Province). (Done) Objective 2: To identify key shorebird areas for potential protected areas/FNS, Ramsar Site, or another national/provincial level protection, such as 'Essential Ecosystem Areas' and 'Biodiversity Park'. (Done) Objective 3: To determine the scale of shorebird hunting in northern Sumatra. (Done)</p> <p>Phase-II (2021-2023) Objective 4: To initiate and establish village protection regulation, self-reliance community patrol for illegal killing and hunting of shorebirds and shorebird monitoring groups at Ulee Matang Village and Sujono Coastline Landscape. (on going) Objective 5: To raise conservation awareness towards the migratory shorebirds and their habitat through the involvement of local youth and wider community. (on Going) Objective 6: In-depth research on population trends of migratory shorebird and foraging ecology in identified important sites (focus on two sites, Sujono Intertidal Landscape and Ulee Matang Village). The data will be used to develop proposals for future Flyway Site Network (Site Information Sheet-FSN) status, Ramsar or another conservation scheme, in coordination with Government Agencies. (support needed under this project)</p> <p>Phase-III (2023-2024) Objective 7: Propose Sujono Intertidal Landscape and Ulee Matang Site as aa Flyway Site Network or Ramsar Site.</p>
2. Background:	<p>From 2018 until 2020 under the Sumatran Shorebird Research and Conservation Phase-1 Project, We successfully completed field work to determine the most important sites for shorebirds conservation across the entire eastern coast of North Sumatra and Aceh Provinces (Survey in Aceh supported by EAAFP Small Grant 2019). We also collected information on illegal killing/hunting, the social-economic situation at the local level, and the threats to wetland habitat in several site (i.e. Ulee Matang Village in Aceh; Bagan Percut in Deli Serdang District, Sujono intertidal landscape in Batubara District and Leidong intertidal landscape in Labuhan Batu Utara, North Sumatra Province).</p> <p>Based on the results of the 2018-2019 surveyed in Batubara District (hereafter "Sujono Intertidal Landscape"), we counted a total of 37,000 - 45,000 migratory shorebirds. We also found globally threatened birds such as Nordmann's Greenshank <i>Tringa guttifer</i>, Great Knot <i>Calidris tenuirostris</i>, Far Eastern Curlew <i>Numenius madagascariensis</i> and Milky Stork <i>Mycteria cinerea</i>. The birds are scattered in several locations, such as Kresek Beach, Sujono Beach, Datuk Nature Tourism Beach, Sejarah Beach and Bunga Beach. Several sites are found to be important as wintering habitat for more than 1% EAAF population for various species of conservation concern i.e Nordmann's Greenshank (Putra <i>et al.</i> 2021), Great Knot, Asian Dowitcher <i>Limnodromus semipalmatus</i>, Black-tailed Godwit <i>Limosa limosa</i>, Eurasian Curlew <i>Numenius arquata</i>, Common Redshank <i>Tringa totanus</i> and Lesser Sandplover <i>Charadrius mongolus</i> (Putra & Hikmatullah 2019), Grey-headed Lapwing (Putra & Hikmatullah 2020). In addition, the highest one site counted of 167 resident</p>

endangered Milky Stork (Putra & Hikmatullah 2019) and the first sighting of the Near Threatened Eurasian Oystercatcher *Haematopus ostralegus* in Indonesia (Putra *et al.* 2018).

Early 2021, We conducted preliminary socio-economic assessments at two priority sites which need for shorebirds conservation intervention (one each in North Sumatra and Aceh Provinces). Going on into **Phase-2 (2021-2023)**, **We are working to encourage the local government (village level) to take initiatives and lead the establishment of village protection regulation and self-reliant community for shorebirds protection.** So far, We have successfully establish four village regulations on migratory shorebirds protection in Sujono Landscape (i.e Durian, Pematang Nibung, Lalang and Gambus Laut Village). During the workshops, at least 139 participants (from Head of village and staffs, village consultative bodies/legislative, young leaders, customaries leaders, religious leaders and local communities) received information on migratory shorebirds, species protection regulation in Indonesia, how they can become forest ranger partner/conservation cadre and learn about the importance of protected mangrove-forest for human communities and shorebirds. Near the future, We are preparing and working on to establish the monitoring scheme and patrols team in the villages.

We also will raise conservation awareness towards the migratory shorebirds and their habitat through the involvement of local youth and the wider community. At World Migratory Bird Day event in 2022 (May and October), We conducted visit-talks schools and art-drawing competition in three elementary school near by Sujono Landscape (the activities also supported by EAAFP WMBD Small Grant-May 2022). A total 180 students and 19 teachers from three elementary schools increased their knowledge and received information on migratory shorebirds, endangered species and species protection (see the video here, <https://www.youtube.com/watch?v=8lJyImu7FP8&t=32s>). We also carried out bird watching activities in one of ecotourism beach in Sujono Landscape on WMBD-October 2022 (Sejarah Beach), and at least 500 visitors (from all ages, all background) increased their knowledge and received information on migratory shorebirds, endangered species and species protection during birdwatching activities (see the video here, <https://www.youtube.com/watch?v=rQ6WHWjSeGk>). We published and distributed educational materials (50 awareness posters, 2 conservation boards, 450 calendars of 2022 and 2023 for schools, students and local communities, which contain species protection regulations under Indonesian Law). These activities will directly improve shorebird protection while ensuring that the local community will have a stronger sense of ownership to conserve shorebirds and wetlands.

We will conduct targetted research on shorebird population and ecology with a focus on the wetlands in Sujono Intertidal landscape (apply for EAAFP Small Grant 2023). This research will collect new information to allow us to determine the population trends of shorebirds/waterbirds, assess the shorebirds intertidal habitat (potential food sources and substrate analysis) and assess the mangrove forest areas (diversity, tree density, critical area, etc.) for further conservation intervention, management habitat and potential shorebird habitat rehabilitation. This information will be useful for establishing baseline data in supporting document for developing the Flyway Site Network information sheet, Ramsar or another habitat conservation scheme at phase-3 of our project.

3. Project plan, timeline and methods:

Please include the proposed timing of project commencement, start and completion of fieldwork (if applicable), project completion. Please also comment on the flexibility of the timeline of the project.

Phase -II Methods (this project)

Monitoring of shorebird population and food sources/substrate assessment in Sujono Intertidal landscape, Batubara District, North Sumatra Province.

Study Area: Shorebird monitoring and food sources/substrate assessment will be carried out across Sujono Intertidal Landscape, comprise of three main locations, i.e Sujono Beach, Kresek Beach and Sejarah Beach. **(Figure 1)**

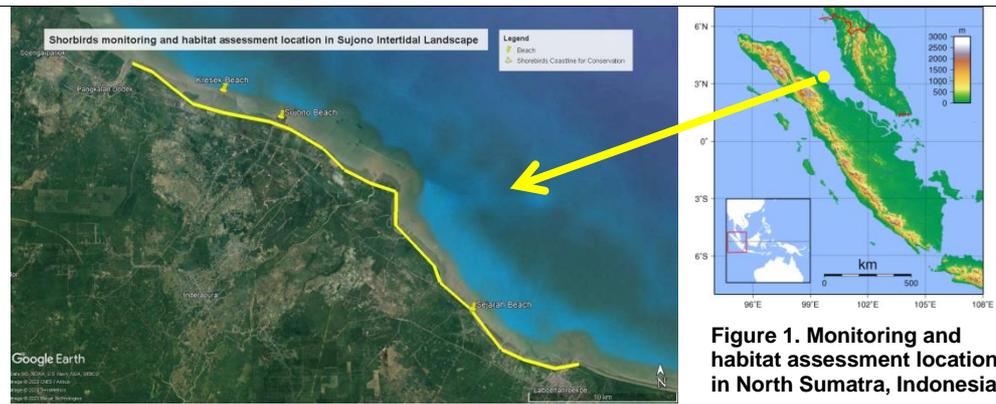


Figure 1. Monitoring and habitat assessment location in North Sumatra, Indonesia.

Shorebirds Monitoring: Monitoring work will be conducted over one calendar year on a monthly basis between May 2023 to April 2024 in three main location. Data will be collected monthly (covering wintering/non-breeding season, northward migration, southward migration and summer/breeding season) at each site (no of species, population size of each species and shorebirds with leg-flag) and surrounding habitats quality by visual observations. We also will note the threat to the shorebirds, such as hunting activities, during our monitoring. We will use boats to access the best observation/survey locations (boat-based count), especially in Kresek Beach. Shorebirds and other waterbirds will mostly be counted during the low tide, but we also will count them during the falling tide, rising tide and high tide depending on the context and situation, and especially at high-tide roosts. Direct visual method will be used to count shorebirds/waterbirds. A block-counting method will be used to count large flocks and where possible, birds will be counted individually. During these visits, the legal status of each site will be documented as well in order to determine possible conservation interventions. Binoculars and spotting scopes will be used to identify and count shorebirds.

Food sources/benthos sampling: Benthos sampling will carried out by purposive sampling at three locations, i.e Sujono, Kresek and Sejarah intertidal mudflat. Each location consists of five sampling points with three repetitions of sampling. Macrozoobenthos sampling used the 40 cm x 40 cm plot method to a depth of 40 cm using a surber net. The sample obtained is then put in a plastic sample and given 70% alcohol then taken to the laboratory for further identification. The benthos sampling and identification will conduct between June 2023 to January 2024.

Substrate assessment: Sampling of water and substrate was carried out simultaneously with benthos sampling. The parameters to be analyzed were temperature, pH water and salinity which were carried out in situ while measurements of DO (Dissolved Oxygen), BOD (Biological Oxygen Demand), COD (Chemical Oxygen Demand), turbidity (TDS/Total Dissolved Solids and TSS/Total Suspended Solids), water phosphate test, water nitrate test and substrate organic test were carried out in the laboratory. The substrate assessment in the field and laboratorium will conduct between June 2023 to January 2024.

Site population analyses: We will compare our shorebirds data count in Sujono Intertidal Landscape between 2018-2020, 2022 and 2023-2024 count (this project) to determine the population size and trend of the population in each species, especially, for Nordmann's Greenshank, Great Knot, Asian Dowitcher, Eurasian Curlew and Far-Eastern Curlew. The data also can used as main information for Flyway Network Site document, or another protection scheme.

In addressing this question, please also identify which EAAFP Key Result Areas the project will contribute to (see the EAAFP Strategic Plan 2019 – 2028).

4. Likely benefit to the conservation of migratory waterbirds and their habitat / or key research outputs:

The project aims to manage and conserve the identify important sites for migratory shorebirds on the eastern coast of northern Sumatra (Aceh and North Sumatra Province), and with sustainable support from the community and government. We think our project related to three of five **Objectives of the Partnership**, as follows;

Objective 1 - Development of the Network of sites of international importance for the conservation of migratory waterbirds along the East Asian- Australasian Flyway, building on the achievements of the APMWCS networks.

Objective 2 - Enhance communication, education and public awareness of the values of migratory waterbirds and their habitats.

Objective 3 - Enhance flyway research and monitoring activities, build knowledge and promote exchange of information on waterbirds and their habitats.

We think the project can support:

	<p>Partnership Objective 1 - Develop the Flyway Network of sites of international importance for the conservation of migratory waterbirds, building on the achievements of the Asia-Pacific Migratory Waterbird Conservation Strategy, with the ultimate goal of establishing a sufficient and efficient network of sites with sustainable management.</p> <p>KRA 1.1: Sujono Intertidal Landscape is not yet a Flyway Network Site. Based on the number and species of migratory shorebirds that's been recorded on the location during 2018-2020 (Putra et al. 2019), we believe it's importance has been overlooked, and that it clearly qualifies at a FNS, with several species exceeding the 1% criteria. Our survey work in Sujono may help with EAAFP's future site assessment and contribute to new list of Flyway Network Sites in Indonesia.</p> <p>KRA 1.5: We are trying to involve different local stakeholders in the conservation of the Sujono Intertidal Landscape, by sharing the project results and management recommendations with key stakeholders and public awareness activities.</p>
5. Alignment with EAAFP Working Groups and Task Forces priorities:	<p><i>Please indicate which of the EAAFP Working Groups and Task Forces priorities are addressed in this project.</i></p> <p>The project benefit EAAFP priority species such as, Nordmann's Greenshank, Far Eastern Curlew, Great Knot, Asian Dowitcher, Black-tailed Godwit, Curlew Sandpiper and many other shorebirds.</p>
6. Explain the part of your project for which you are seeking EAAFP funds in this Application (provide details in the Project Budget section below):	<p>We are seeking funding for shorebirds monitoring (one year calendar, 12 month) and food sources/substrate assessment in three main location in Sujono Intertidal Landscape, i.e Sujono Beach, Kresek Beach and Sejarah Beach (North Sumatra Province).</p> <p>Work to support the establishment of the village protection regulations and build capacity of local communities for shorebird conservation, raise conservation awareness/outreach activities are already underway through funding support from private donor support and local stakeholders.</p>
7. Scientific References cited in the Application:	<p>1). Putra CA, Hikmatullah D, Febrianto I, Taufiqurrahman I, Zöckler C. 2021. North Sumatra is an internationally significant region for non-breeding Nordmann's Greenshanks <i>Tringa guttifer</i>. Wader Study 128(2): 157–164.</p> <p>2). Putra CA, Hikmatullah D. 2020. The east coast of North Sumatra Province: an important non-breeding area for Grey-headed Lapwing <i>Vanellus cinereus</i> in Indonesia. Stilt 73-74: 43-46.</p> <p>3). Putra CA, & Hikmatullah D. 2019. Monitoring of shorebirds species and shorebird hunting problem on the Eastern Coastline of North Sumatra, Indonesia – Phase 2 (December - March 2019). North Sumatra: Indonesia. Report submitted to Manfred-Hermesen-Stiftung Foundation.</p> <p>4). Putra CA, Hikmatullah D, Iqbal M. 2018. Eurasian Ostrercatcher <i>Haematopus ostralegus</i>: a new species for Indonesia. Wader Study 125(1): 48-50.</p> <p>5) Putra CA, Hikmatullah D, Yong DL, Muzika Y, Arico Z, Feryadi, Haka I & Chowdhury SU. 2020. Identifying priority shorebird sites for conservation on the east coast of Aceh Province, Indonesia. <i>Forktail</i> 36: 106–113.</p>
8. How will any continuing COVID restrictions be managed for project delivery?:	<p>The COVID situation in Indonesia can be handled properly. There are no restrictions on social activities in the community.</p>

Part B. FOR CONFERENCE APPLICANTS ONLY

(For Task Force or Working Group members delivering their own work as a presentation, paper or poster)

Conference Title:	Location:	Date:
Presentation Abstract (250 word maximum):		
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Part C. FOR ALL APPLICANTS

Experience Relevant to Project:

0.5 page maximum

Since 2010, Chairunas (Nchay) Adha Putra has been actively surveying migratory shorebirds in Sumatra, especially on the eastern coast of North Sumatra and Aceh Province. Nchay took his bachelor's and master's degree on shorebird diversity, abundance, distribution, behaviour, habitat use and shorebirds ecology. After Nchay finished his study from university, in 2018, Nchay and friends establish a registered-non-profit NGO namely, Wild Heritage of Sumatra (WHIS) based in Medan City which focus on; to do survey and identify important site for migratory shorebirds, working on government policy/regulation to protect the migratory shorebirds, work together with local community to monitoring shorebirds hunting threat and raise local awareness to conserve the migratory shorebirds. Nchay has done various shorebird survey and ecology research in North Sumatra and Aceh, and published the results on scientific journal, such as Wader Study, Forktail-Journal of Asian Ornithology, Stilt-Journal of the Australasian Wader Studies Group, Kukila-The Journal of Indonesia Ornithology and Hayati-Journal of Biosciences. During 2018-2019, Nchay initiated a project entitled "Survey of Waterbird Species and Waterbird Hunting Problem on the Eastern Coastline of North Sumatra, Indonesia", supported by Manfred Hermsen Foundation, Germany. During 2020 to date, he initiated "Sumatran Shorebirds Research and Conservation" project which is supported by the EAAFP Spoon-billed Sandpiper Task Force, Birdlife International (Asia) and private individuals.

Nchay was invited to attend Arctic Migratory Bird Initiative (AMBI) meeting and Spoon-billed Sandpiper Symposium in Singapore in January 2017 and Hainan (China) in December 2018. Nchay delivered a presentation on migratory shorebirds surveys in Eastern Coast of North Sumatra and also presented on the first record of Spoon-billed Sandpiper in Indonesia. In March 2019, Nchay was invited to attend the BirdLife Flyways Conservation Workshop in Bangkok (Thailand) and give a presentation on shorebirds hunting issue and mitigation in North Sumatra Province. He participated in the Gulf of Mottama, Myanmar survey as part of the international Spoon-billed Sandpiper survey team in January 2019.

Please **also** attach a maximum 2-page CV or list non-academic research experience and experience with migratory waterbirds/conservation e.g. work experience, volunteer experience, bird banding, birdwatching.

E. Project Budget (please outline costs of your entire project, not just the component(s) for which funds are being sought from EAAFP)

Item (Please list)	Budget (USD)	Co-funding acquired (source and amount in USD)	Co-funding applied for (source and amount in USD)	Support requested from EAAFP (USD)
Equipment for shorebirds monitoring: Spotting Scope, Binocular and Tripod	2200	In Kind	In Kind	0
Equipment for food sources and substrate sampling: Surber net	120	-	-	120
GPS unit	372	-	-	372
Refraktometer	26	-	-	26
Water quality tester	39	-	-	39
Bottle samples for benthos	14	-	-	14
Cool box	33	-	-	33
Alcohol 96% (1 ltr)	11	-	-	11
Print materials & stationary	42	-	-	42
Consumable items Food allowances for all surveyors during 12 month monitoring (four days, three person/each month); including food allowances during food sources/substrate assessment.	1265	-	-	1265
Travel and accommodation Rent car, boat, gasoline and toll road ticket cost during 12 month monitoring and food sources/substrate assessment. (4 days x 12 month)	2014	-	-	2014
Small room (2 rooms x 3 days/12 month)	1398	Personal Donation	-	156

Computing & clerical Report, print materials & stationary	35	-	-	0
Other Cost (Analysis in laboratory) Benthos identification Analysis of DO (Dissolved Oxygen), BOD (Biological Oxygen Demand), COD (Chemical Oxygen Demand), turbidity (TDS/Total Dissolved Solids and TSS/Total Suspended Solids), Water Phosphate test, Water Nitrate test and Substrate Organic test	908	-	-	908
Personnel Cost Contribution to salary for project leader (for 12 month)	1800	Personal Donation	-	0
Local assistant honorarium (6 month)	600	Personal Donation	-	0
Total amount requested from EAAFP Small Grants Fund: (in USD)				5000

Budget justification: Please provide brief description and justification of all major budgetary items requested, indicating any that are essential to the project and/or conference for which you are applying (250 word maximum):

Majority of the funds will be used to support costs associated with transportation (boat and car), logistics, accommodation, food allowances and food/substrate analysis as described above for monitoring, food sources/substrate assessments work. Items such as spotting scope, binoculars and personnel cost are not included in the budget, as those will be arranged from other sources.

F. Declaration

I have discussed the contents of this Application with the relevant Chair/s and Coordinator/s of relevant Working Group and/or Task Forces and I certify that to the best of my knowledge all documentation and information submitted or made available by me is true, accurate and complete.

By ticking the box you are agreeing to the above statement:

G. Application Checklist

All relevant sections of this Application have been completed.	Yes	✓	No
Full payment details have been provided on the final page.	Yes	✓	No
Application is being submitted electronically as one single document.	Yes	✓	No
Application is being submitted in MS Word format.	Yes	✓	No
Application has been discussed with the relevant Chair/s and Coordinator/s of relevant working Group and/or Task Forces and these have been carbon copied (cc) to this application submission as evidence they have seen and approved this Application.	Yes	✓	No

Applications that do not comply with these guidelines will be returned to the applicant.

Application Submission

Please email your Application as a single document to:
secretariat@eaaflyway.net

EAAFP will acknowledge the receipt of your Application.

Applications close at 5pm (KST) on 6 February 2023
Results will be announced on 7 March 2023 on EAAFP Webpage and via email

OFFICE USE ONLY:

Decision: _____

Authorised: __ / __ / __ _____

Entered: __ / __ / __ _____

Comments: _____

Lead Investigator Advised: __ / __ / __ _____

PLEASE COMPLETE PAYMENT DETAILS ON FINAL PAGE

PAYMENT DETAILS

To ensure prompt payment of successful applications please complete the following details and submit with your Application.

PREFERRED PAYMENT METHOD

Electronic funds transfer (EFT)

GRANT CONDITIONS

In accordance with the application criteria, the following conditions must be met:

- Funds are to be strictly exempt from organisational administration charges.
- You are required to submit one copy by email of the final report within 3 months of the completion of the project.
- You are required to acknowledge the EAAFP and the Small Grant Fund in any presentations, publications, reports or promotional material arising from this work. Please email secretariat@eaaflyway.net in order to obtain an electronic copy of EAAFP logo for use on any display material you will be preparing.
- You may be requested to write a brief article for the EAAFP newsletter.
- You are required to provide EAAFP with an electronic copy of your final report at the completion of your project, as well as a copy of any publications that result from your grant.