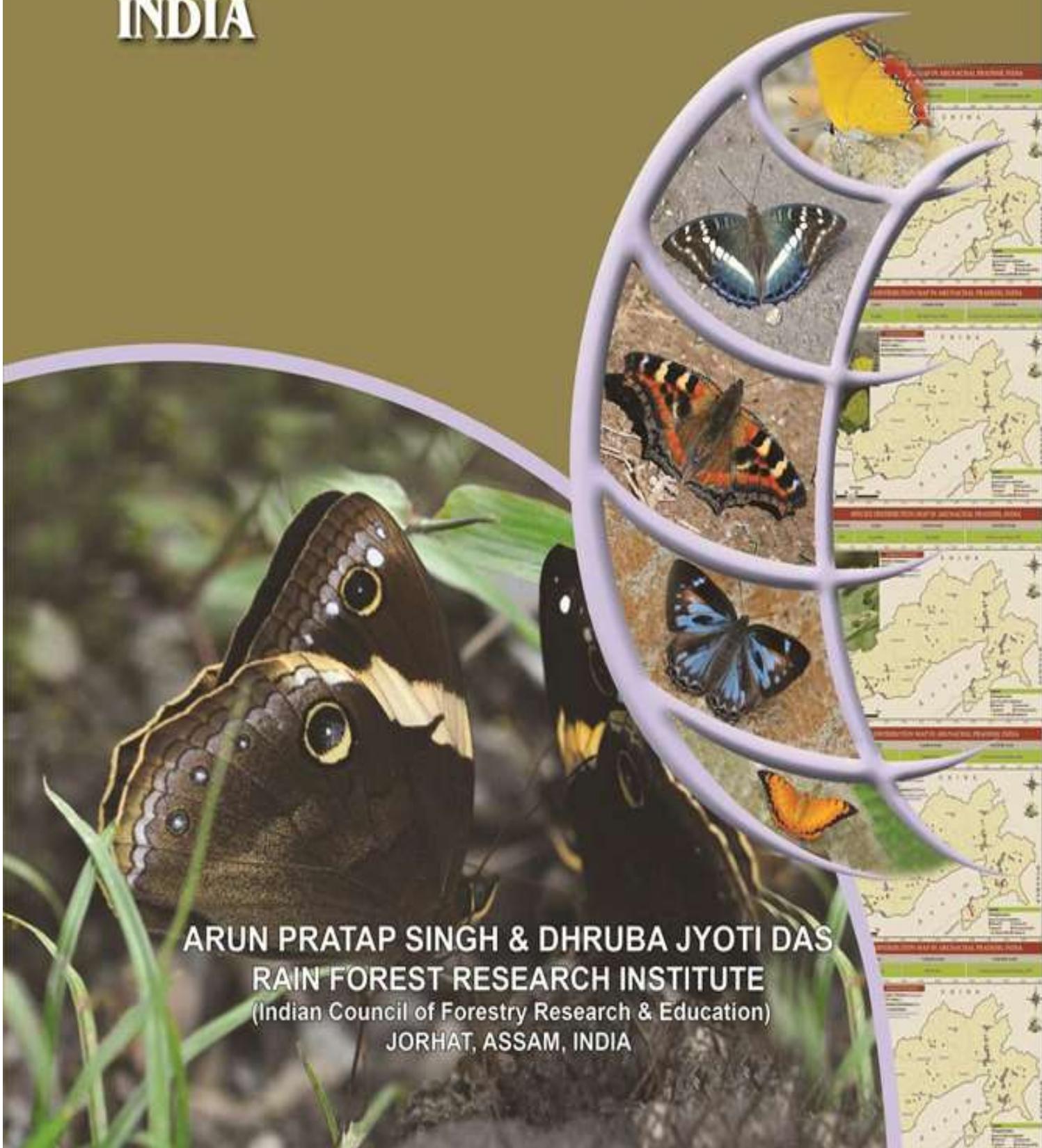
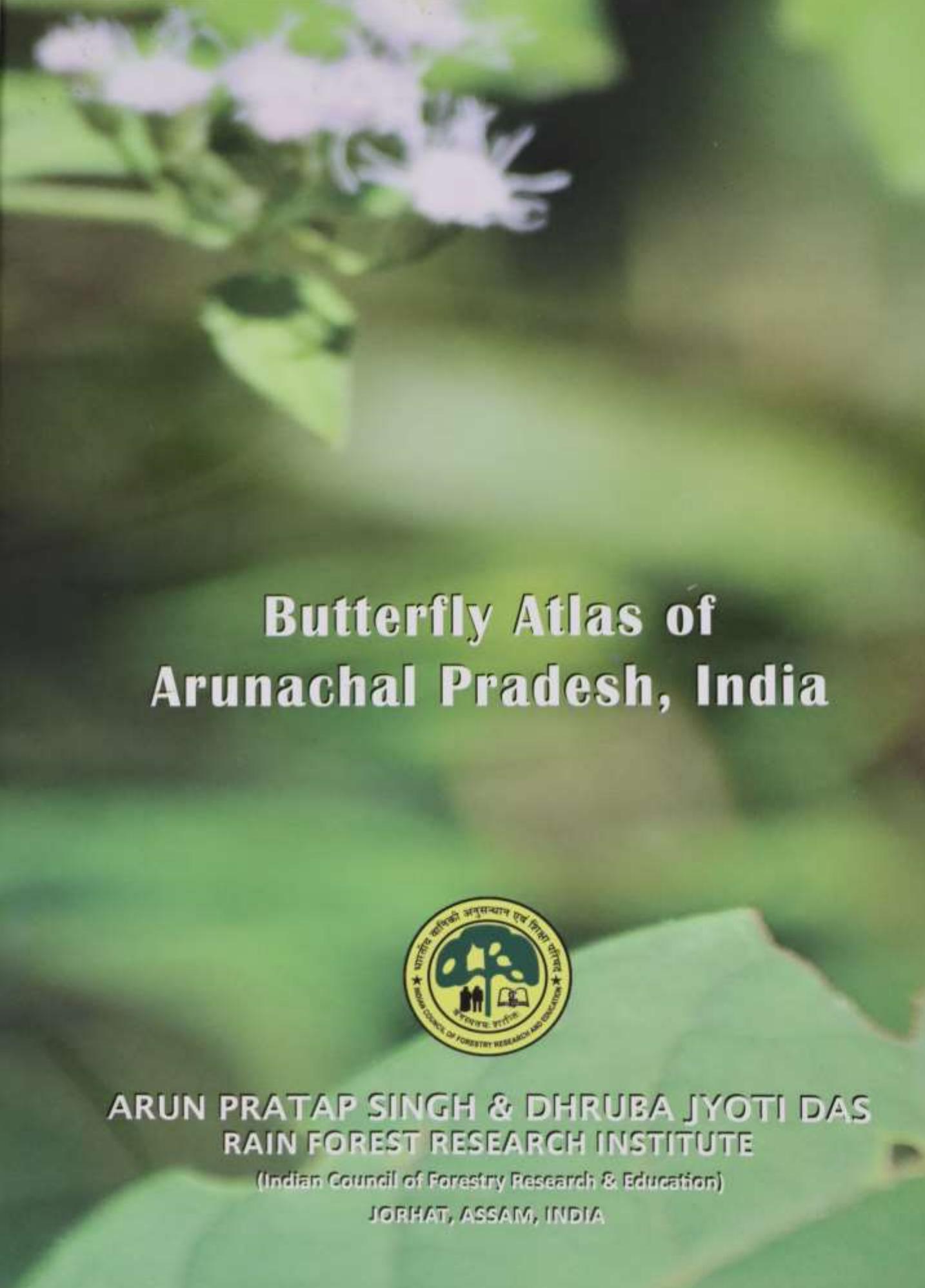


BUTTERFLY ATLAS OF ARUNACHAL PRADESH, INDIA



ARUN PRATAP SINGH & DHRUBA JYOTI DAS
RAIN FOREST RESEARCH INSTITUTE
(Indian Council of Forestry Research & Education)
JORHAT, ASSAM, INDIA





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(Indian Council of Forestry Research and Education)
2016

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सत्यमेव जयते



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Indian Council of Forestry Research and Education
P.O. New Forest, Dehradun
(An ISO 9001 : 2008 Certified Organisation)
महानिदेशक
भारतीय वनिकी अनुसंधान एवं शिक्षा परिषद्
डाकघर न्यू फॉरेस्ट, देहरादून
(आईएसओ 9001 : 2008 प्रमाणित संस्था)



Message

The Butterfly Atlas of Arunachal Pradesh produced by Rain Forest Research Institute is unique and I hope that it will prove useful for naturalist and butterfly aficionado. The book is a compilation of more than four hundred species of butterflies found across the state, each depicted with a beautiful photograph. The book contains vital information on butterfly taxonomy, distribution, their habits and habitats, seasonal occurrence, conservation status, etc. The authors have generated GIS based maps for each taxon found in various forest types and altitudinal gradients of the diverse state. At a time when interest in butterflies is increasing due to their intrinsic, ecological, environmental, socio-economic value, the atlas will serve as a reference book and spark further curiosity amongst butterfly enthusiasts. I would like to congratulate the authors and the project team for their relentless efforts in gathering data over three years and bringing this wonderfully in the form of an Atlas. It is anticipated that this book will persuade all stakeholders including the forest departments, researchers, nature lovers, communities, NGOs, to join hands in conservation of these beautiful creatures and the environment they need to flourish along with promoting butterfly inclusive ecotourism.

(Dr. Ashwani Kumar)
Director General, ICFRE

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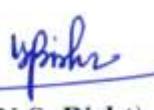
INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION
(An Autonomous body under the Ministry of Environment, Forests & Climate Change Government of India)
P.O. New Forest, Dehradun - 248001



Foreword

Butterflies, with their mesmerizing beauty, seemingly amazing metamorphosis and apparently amiable flight, have sparked the imaginations of mankind over the years. Often termed as "self propelled flowers" or "ballet in the air", butterflies are considered as indicators of healthy environment and ecosystems. Often it is found that areas rich in butterflies are rich in over all biodiversity too. Butterflies have been widely used by ecologists as model organisms to study the impact of habitat loss, land use/cover change, forest fragmentation, and recently climate change.

However, despite their great importance in conservation and understanding of ecosystem, systematic compilation of distribution of butterflies is scanty. Arunachal Pradesh, with more than 80% forest cover, is one of the most diverse states in India in terms of floral and faunal diversity that people are not beginning to explore. As there is no comprehensive data available on butterflies of Arunachal Pradesh, the present study is vital. The GIS based Butterfly Atlas has been developed for the first time in India and that too for a remote state like Arunachal Pradesh. The information generated will serve as a tool for studying the changes or shift in distribution patterns of butterflies on a temporal scale. The authors have not only listed the butterfly species found in localities along with beautiful images, but have provided ecological data for every taxon like their seasonality, relative abundance, conservation status, larval food plants, etc. I congratulate the authors for all the hard work put in by them and hope that this would be useful for nature lovers in better understanding of butterflies of the Eastern Himalayas.


(Dr. N.S. Bisht)

Preface

The Butterfly Atlas has been prepared based on extensive field surveys carried out by me for over three years in sixteen districts of Arunachal Pradesh. This was part of an ICFRE funded project entitled “Ecological studies on monitoring the distribution patterns and food plant resources of butterflies along altitudinal gradients in different forest ecosystems of Eastern Himalaya-Arunachal Pradesh)/2011-2015” of the Ecology and Biodiversity Division, Rain Forest Research Institute (ICFRE), Jorhat, Assam. The study was formulated as there was no comprehensive data available on butterflies of Arunachal Pradesh until 2010. The second author was instrumental in designing and preparation of GIS based species maps for the atlas.

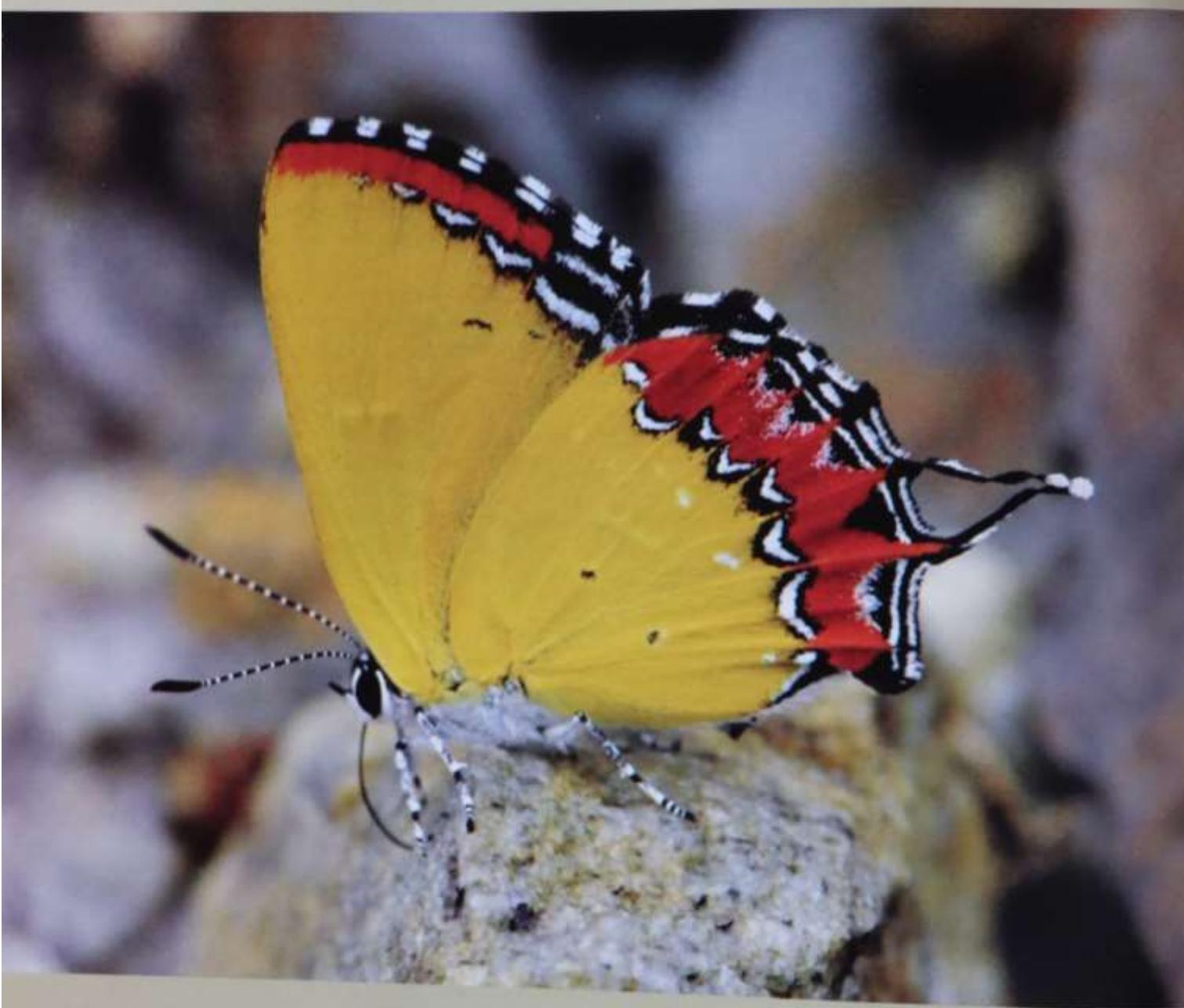
The surveys were carried out from November, 2011 to December, 2014 recording 414 species which include many rare butterflies in India. Of these, 73 are listed in various schedules of the Indian Wildlife (Protection) Act, 1972. Most of the butterflies found in Arunachal Pradesh are endemic to North-East India and adjoining Myanmar or the Himalayas. A few taxa are new range extensions from Central Himalaya, other states of North-East India, South-east Asia, China to Arunachal Pradesh. Each taxon has been represented in the atlas alongwith their generic name up to the sub-species found in Arunachal Pradesh along with their images and their ecological data. In case of dimorphic species, images of both the sexes are given. Some of the rare taxon were photographed live for the first time in the wild and some recorded after many decades in the country.

The primary aim of this GIS based Butterfly Atlas is to let people know about the rich diversity of butterflies in the state along with information on their ecology. A comprehensive database has been developed for the future research and monitoring programmes on conservation of these butterflies. The current data along with historical records on spatial distribution of butterflies from other sources can be used in interpreting changes in the environment and climate on a temporal scale in the region. Areas rich in butterfly diversity can be taken up as potential spots for developing community based models on ‘butterfly inclusive eco-tourism’ in the state in the coming years. A training module has also been initiated in the state under this project and applied to other north-eastern states on similar lines for foresters, students, researchers, local guides and non-governments organizations, all based on findings of this study.

It is anticipated that this reference guide will help in attracting nature lovers to Arunachal Pradesh from distant places. It will thus act as a ready reckoner not only for observing, photographing, identification of butterflies at the sites mentioned in the book, but also help in developing community based eco-tourism programmes that will cater both to the conservation needs and generating much needed livelihood opportunities for the locals.



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RFRI



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At the outset, I would like to thank the Indian Council of Forestry Research and Education (ICFRE), Dehradun for funding this project and publication of this book. I acknowledge my earnest gratefulness to Dr. Ashwini Kumar, Director General, ICFRE and Dr. N. S. Bisht, Ex-Director, Rain Forest Research Institute, Jorhat for providing unremitting support and necessary facilities. Thanks are also due to Dr. R. S. C. Jayaraj, Director, Rain Forest Research Institute, Jorhat for his support and encouragement. I appreciate the encouragement received from Mr. B. S. Sajwan, former PCCF, Arunachal Pradesh, and Mr. N. K. Vasu, former Director, RFRI, Jorhat, for initiating and formulation of this work. I wish to thank Mr. J. L. Singh and Mr. N. N. Zhasa, former Chief Wildlife Wardens, Arunachal Pradesh, for their support during the project period.

I am extremely thankful to Krushnamegh Kunte, Monsoon Jyoti Gogoi and Sanjay Sondhi, for their help in identification and M. J. Gogoi and S. Sondhi for providing some images of butterflies for this atlas. Thanks are also due to Dr. H. B. Naithani, plant taxonomist, who accompanied the first author during a few field trips in 2013 and also helped in identification of larval food plants of butterflies.

The efforts put in by Miss. Jis Sebastian, Miss Lina Gogoi and Miss. Sirjita Ganguly (JRFs) for their help during field surveys, data compilation and entry for creating the GIS database, from time to time, is highly appreciated. The assistance received from Riyaz A. Ahmed, Niyaz Uadullah, Montu Neog (Field Assistants), Pratul Hazaraka, Abhijit Medhi, Manoj Borah (staff of Ecology and Biodiversity division, RFRI) during the field surveys, from time to time, is worth mentioning.

I am thankful to officials of the Arunachal Pradesh district administration and forest department for providing necessary facilities, logistics for conducting the field tours, namely, Mr. Sandeep Kumar Singh, D.C., Seppa, East Kameng; Mr. T. Miso, D.C., Dibang valley and Smt. Nilima Kumar, ADC, Tezu, Lohit district ; Mr. Gamlen, D.C. Office, Khonsa; Mr. Ranpok Pune (SDO), Hunli; Mr. N. Nedo, DFO, Tipi; Mr. T. Bui, DFO, Daporijo; Mrs. Koj Rinya, DFO, Aalo; Mr. T. Pertin, DFO, Tezu; Mr. K. Tassar, DFO, Kamlang Sanctuary; Mr. R. Riba, DFO, Namsai; Mr. C. Simai, DFO, Deomali; Mr. S. Manyu, DFO, Yingkiong; Mr. B. Darang, DFO, Khonsa; Mr. S. J. Jongsam, Field Director, Namdapha and Mr. Tanna Tapi, Field Director, Pakke Tiger Reserve, Mr. S. Tesia, Forester, Khonsa; Mr. Sanjay, Forest Guard, Upper Decorai, Pakke, Mr. Dadang Sonam, Forest Guard, Dazling R.F. , Pakke; Mr. Anjan Deb, Game watcher in Dibang valley; Mr. S. K. Som, Forester, Pakke; Mr. Asham Mossang; Mr. Chetan, R.O., Anini; Mr. J. Padu, Mr. Reddy Bei, R.O., Tale valley; Mr. R. Socia and Mr. Shankar, Local guide, Pakke, Mr. Millo Tamang, DFO, Hapoli and Range Officers of Mr. Padu, R.O., Tipi and R.O., Mengio and many other staff of the forest department. Courtesy of Mr. P. Terong, DFO, Dibrugarh, Assam is duly acknowledged for his help during the stay at Jeypore forest rest house near Deomali. Officers and Staffs of PWD, Walong, Anjaw and BRTF camp, Sath Kilo, Anjaw are duly thanked for providing accommodation during the field work. Last but not the least, I would like to express my earnest gratitude and thanks to the local people of Arunachal Pradesh for their help during field tours.



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Importance of Butterflies



Butterflies are important components of biodiversity with over 1682 species in India. Butterflies are part of our natural heritage. Most of them are beautiful, with many being iconic and popular. People enjoy seeing butterflies both around their homes and in the countryside. There are many references to butterflies in literature. Butterflies are used by advertisers and illustrators the world over as way of indicating that something is environment friendly. Butterflies are often portrayed as the essence of nature or as representing freedom, beauty or peace. They have educational value. Butterflies have fascinating life-cycles that are used in many countries to teach children about the natural world. The transformation from egg to caterpillar to chrysalis is one of the wonders of nature. Other educational aspects include the intricate wing patterns and iridescence, and as examples of insect migration, mimicry, linked to the evolution of flowering plants. Their ecological value is realized as butterflies are indicators of a healthy environment and healthy ecosystems. They indicate a wide range of other invertebrates, which comprise over two-thirds of all species. They have ecological value being pollinators too and form the part of the food web. Easily noticed as they are diurnal, flying around during sunshine, conspicuous and attractive, they are more easily identified group as compared to other invertebrates, taxonomically trackable with most species described and recognizable. They have short generations and are widespread and diverse. They are good biological indicators of environmental variation and quality being sensitive and directly affected by any alteration in their habitats, atmosphere, local weather and micro-climate.

Butterflies of Northeast India

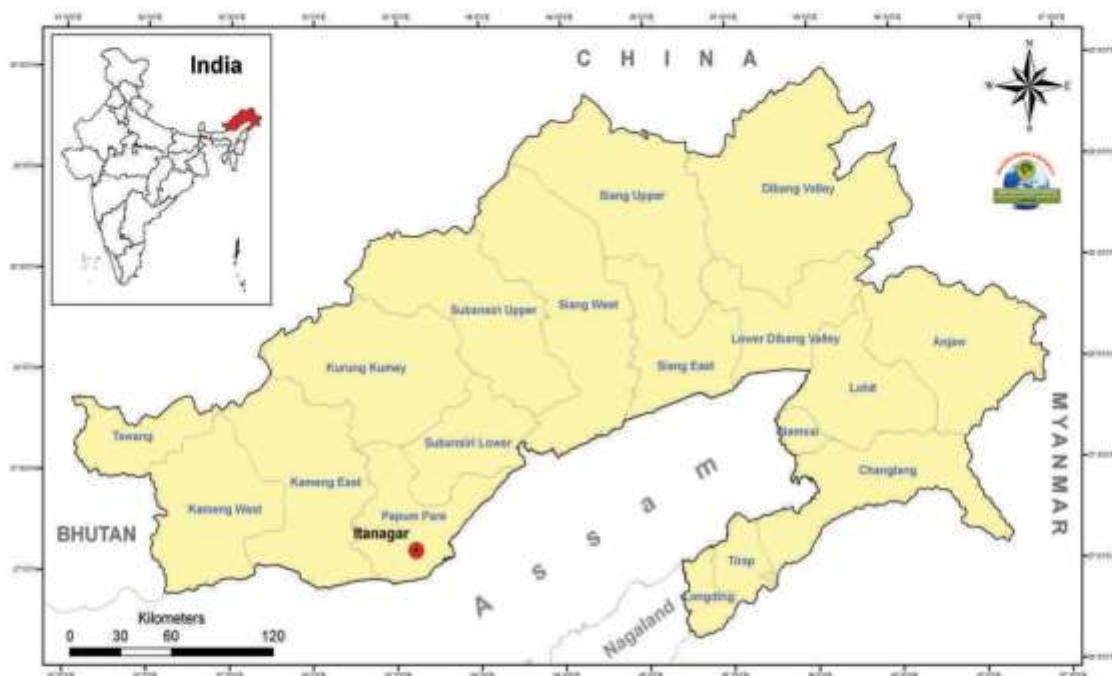
Northeast region including the eastern part of the Himalaya are the most diverse sub-regions in India and global biodiversity hotspots, with over 840 butterfly species. WWF has identified the entire Eastern Himalaya as a priority Global 200 Ecoregion while Conservation International has upscaled the Eastern Himalaya Hotspot which initially covered the states of Arunachal Pradesh, Sikkim, Darjeeling Hills, Bhutan and Southern China to the Indo Burma Hotspot, which now includes all the eight states of North-east India. Amongst these species many are rare, endemic to these region and a few are globally threatened. The great diversity in this region is accounted for the rich floral diversity and diverse habitats that this region supports. This region comprises of humid, tropical wet evergreen and semi-evergreen, sub-tropical broadleaved, pine and montane wet temperate forests extending from Sikkim to Arunachal Pradesh. This is a transition zone between Indian, Indo-Malayan and Indo Chinese subdivisions.

Arunachal Pradesh

The land of the 'rising sun' and 'dawn-lit mountains', Arunachal Pradesh, is the eastern most state of India. It covers an area of about 83,743 km² and forms the major part of the Eastern Himalaya lying between the latitudes of 26°50' N to 29°25' N and longitudes of 91°31' E to 97°30' E. The state of Assam lies to its south and Nagaland to its south-east, respectively. Whereas, Myanmar lies to its east, Bhutan to its west, and Tibet in China is to its north. The state is divided into sixteen districts (Tirap, Changlang, Lohit, Anjaw, Lower Dibang Valley, Dibang Valley, East Siang, West Siang, Upper Siang, Lower Subansiri, Upper Subansiri, Kurung Kumey, Papum Pare, East Kameng, West Kameng, Tawang) and two proposed districts (Longding and Namsai).



DISTRICT MAP OF ARUNACHAL PRADESH, INDIA



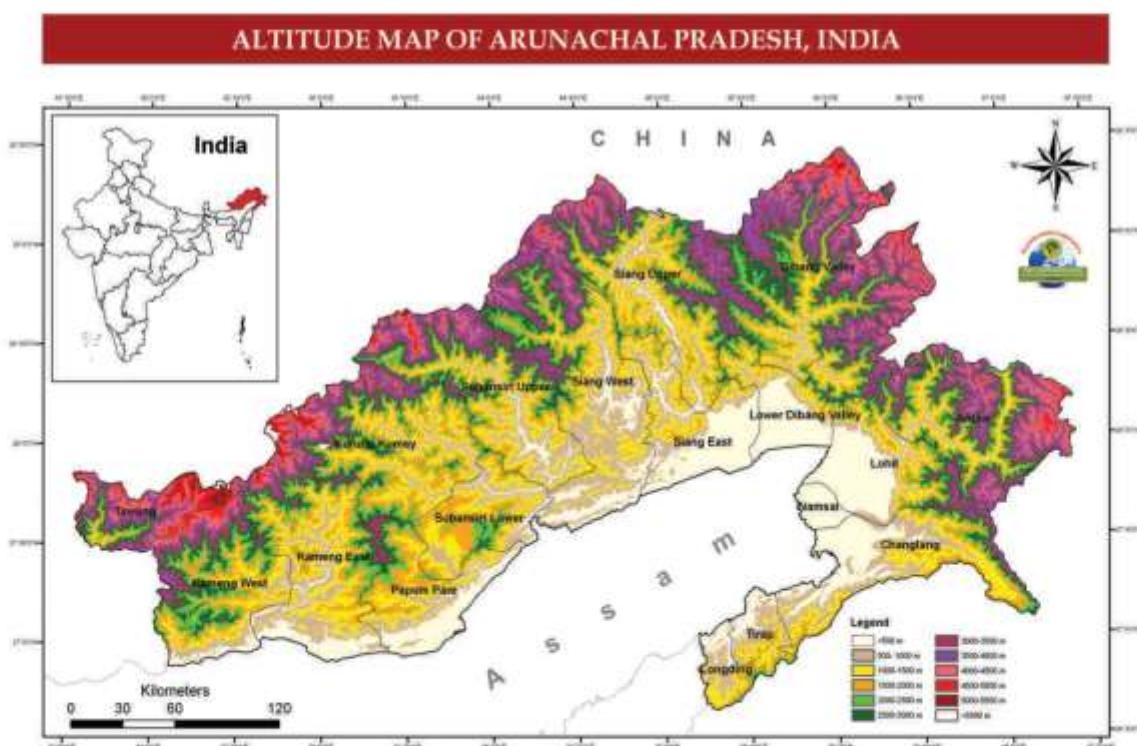
The state of Arunachal Pradesh can be considered as kaleidoscope of tribal culture and an anthropologist's delight. There are more than twenty major tribes with more than hundred sub tribes in Arunachal Pradesh belonging to various ethno-linguistic elements including Tibeto-burman, Naga, Southwestern Tai and Bengali-Assamese origin. The Major among them are Adis, Apatanis, Buguns, Hrusso, Singphos, Khambas and Membas, Mishmis, Monpas, Nyishi, Sherdukpens, Tagins, Khamtis, Wanchos, Noctes, Yobin etc (<http://arunachalpradesh.gov.in>). Bogum and Bomis are the two main divisions of Adi tribes and constitute several sub-tribes including the Minyongs, Karkos, Shimongs, Bomdo, Janbos, Paggis, Pailibos, Bogum, Padams, Milangs, Gallong etc. The Apatanis are traditional agriculturists and practice both wet and terrace cultivation. The Hrusso or Akas relates themselves to the Ahom Kings of Assam whereas the Singphos belong to Kachin tribe of neighbouring Myanmar. Khambas and Membas, Buddhist by religion, are predominantly found in northern part of West Siang. The Mishmis are largely found in Lohit, Upper and lower Dibang Valley districts and divided into three main groups namely- Idus or Chulikatas, Digarus or Taroan and Mijus or Kaman. The Monpas follow Mahayana Buddhism that flourished around the Tawang Monastery. The Nyishi are predominantly found in Lower Subansiri district, they are reliant on traditional slash and burn cultivation. The Wanchos, Noctes and Yobins inhabit the western, central and eastern most part of Tirap district respectively whereas the Tagins are main inhabitant of Upper Sunansiri district (<http://arunachalpradesh.gov.in>).

The climate of Arunachal Pradesh varies with topography and elevation. Three broad climatic zones are recognizable viz., hot and humid subtropical area of foothills, cooler micro-thermal zone of the lesser Himalaya and alpine zone of the Greater Himalaya. Upper reaches adjoining Tibet (China) have perpetual snow. The temperature varies to a great degree in the state. The average mean maximum and

minimum temperature is 29.5°C and 17.7°C in sub-tropical humid regions and 21.4 to 2.4 in cold regions, respectively. In the lower valleys, summer temperatures in June, July, and August typically rise above 30°C up to 40°C, while winter high temperatures from December to February usually reach as low as 13 °C. Average temperatures decreases as elevation increases in the mountains touching zero or below above 4,000m. Annual rainfall in the state averages 3,300mm, falling mostly between April and September. However, this figure approaches as high as 4,100 mm in the central part of the state. In general the soil in the state is high in acidity which may be ascribed to the high rainfall and heavy run, while the soils in the valleys are rich in organic content and clayey-alluminous.

The state is mostly mountainous. The foothills which rise from Assam plains starting from 150m rise up to 1000m. They then form the lesser Himalaya which rise up to 3000m and finally form the Greater Himalaya reaching around 7,000m in the state. However, parts of Lohit, Changlang and Tirap districts are covered by the Patkai hills. There are five major river valleys that cover the state: Kameng, Subansiri, Siang, Lohit and Tirap. The mightiest river in the state is Siang, which becomes the Brahmaputra after being joined by the Dibang and the Lohit in the plains of Assam. All the rivers are snowfed.

Approximately 67,905 km² of the state is under forest cover (FSI,2013). At the lowest elevations, are Brahmaputra Valley semi-evergreen forests which are richest in biodiversity. As per Champion and Seth (1968) classification the area under different forest type in the state is mainly, 2B/1S1 Sub-Himalayan Light Alluvial Semi-Evergreen Forests (31.05%) followed by 2/2S1 Secondary Moist Bamboo Brakes (12.40%); 14/C2 East Himalayan Sub-alpine Birch/Fir Forests (10.3%); 2B/C1(a) Assam Alluvial Plains Semi-Evergreen Forest (8.72%); 2B/2S2 Eastern Alluvial secondary Semi-evergreen Forests (8.42%); 2B/C1(b) Eastern Sub-Montane Semi-Evergreen Forests (8.16%); 12/C3(a) East Himalayan Mixed Coniferous Forest (7.43%); 3/1S2(b) Terminalia- Duabanga (5.24%); 8B/C1 East Himalayan Sub-Tropical Wet Hill Forest



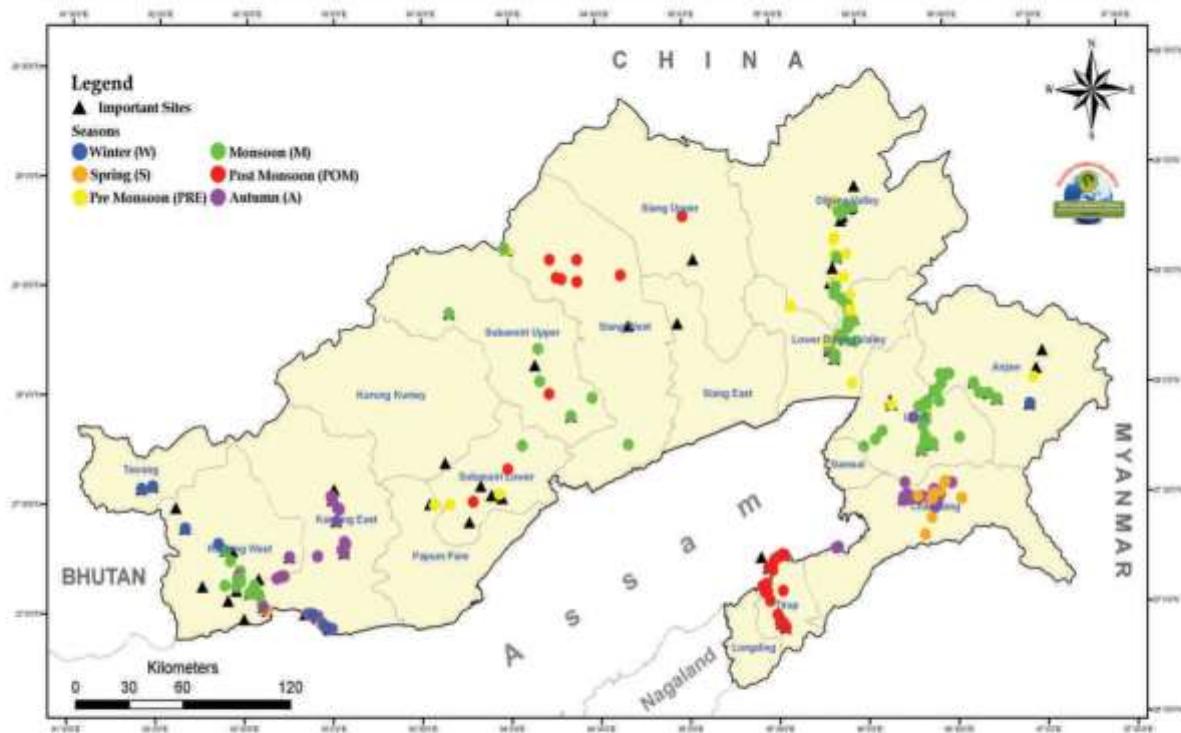
(3.35%); 13/C6 East Himalayan Dry Temperate Coniferous Forest (1.51%); 1B/C2(a) Kayea Forest (1.46%); 15/C1 Birch/Rhododendron Scrub Forest (0.92%); 9/C2 Assam Sub-Tropical Pine Forest (0.84%); 16/C1 Dry Alpine Scrub (0.05%); 1/2S1 Pioneer Euphorbiaceous Scrub (0.02%) and Plantations (0.05%), respectively (FSI, 2011).

Arunachal Pradesh is one of richest states in India in terms of biodiversity, with over 5000 species of flowering plants of which 238 species are endemic to the state, about 500 species are orchids, 52 species of rhododendrons and more than 60 species of bamboos. Faunal richness is equally diverse with over 650 species of birds identified in 28 important birding areas (IBA's). New taxa are still being discovered in the state e.g. Bugun Liocichla, *Liocichla bugunorum*; Arunachal Macaque, *Macaca munzala*; the Black Muntjac, *Muntiacus crinifrons*; Bomphu Litter Frog, *Leptobrachium bompu*; Kaulback's lance-headed pit viper, *Trimeresurus kaulbacki*, etc. There are seven species of primates, seven species of rare cats including the Tiger, *Panthera tigris*, a sizable population of the Asiatic Elephant, *Elephas maximus*, besides the many rare and endemic species like the Mishmi Takin, *Budorcas taxicolor taxicolor*; Malayan Sunbear, *Helarctos malayanus* and the Namdapha Flying Squirrel, *Biswamoyopterus biswasi*. There is no precise number about the species of butterflies found in the state. It is estimated that there are about 700 species of butterflies in Arunachal Pradesh if we take the figure of 50 species of papilionids that have been recorded so far from the state, which is 7.2 percent of this total based on the species proportion model (Singh & Pandey, 2004). A butterfly, *Callerebia dibangensis*, which was described only recently (Roy, 2013) from a single male specimen collected in 1987 from upper Dibang valley in the state, was also re-discovered at Mayodia pass, lower Dibang valley, and its female morphs and ecology described in detail during the present study. Another sub-species *Callogenes janetae loba* Scarce Evening Brown (Lang & Huang, 2012) was recently described from SE Tibet, China in Medog county. The author coincidentally found this very species on 11 August 2012 near Anini in Upper Dibang valley not quite very far from where the Holotype was collected on the other side of the border in China by Lang & Huang (2012). Very recently a new species *Hypolycaena narada* Banded Tit, has been described from Namdapha, Changlang district in the eastern part of the state (Kunte, 2015) is worth mentioning.

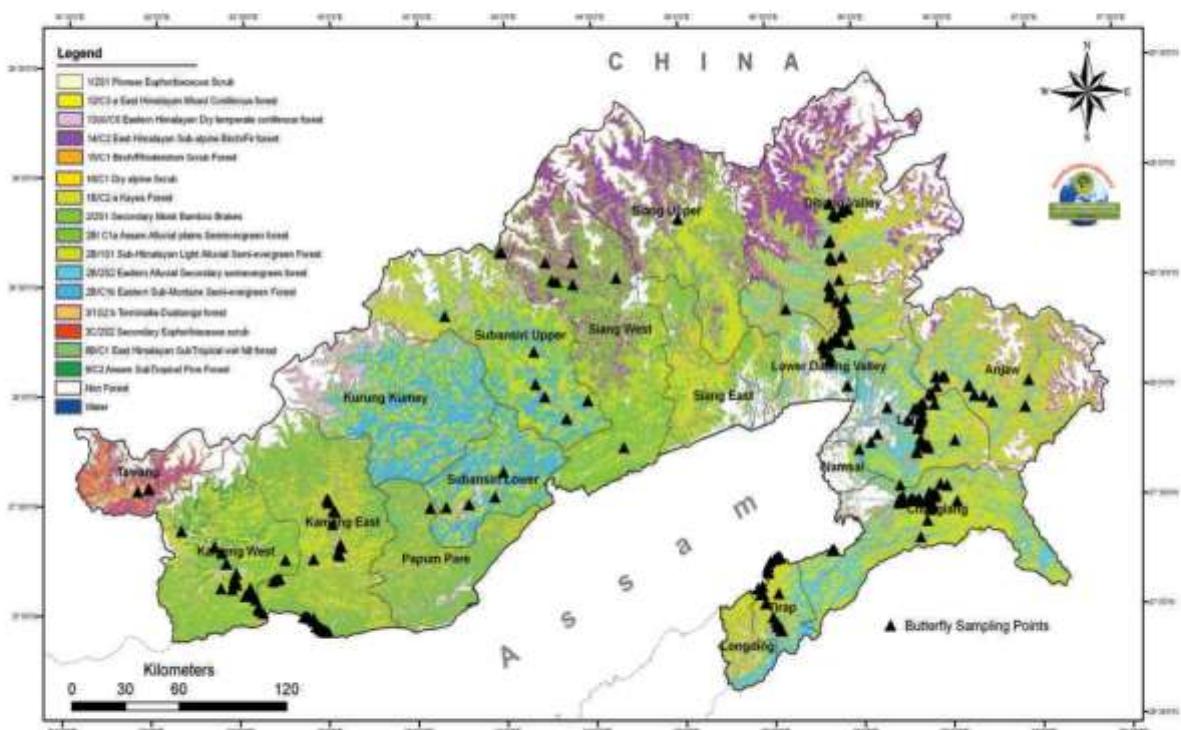
Present Study

Sampling surveys were carried out by the first author for butterflies covering all the seasons. A total of 190 transect walks were undertaken besides point sampling for individuals of each species of butterfly recorded at 2916 locations. The altitudinal gradient covered was from the lowest 135 m at Deomali in Tirap district to the highest 4,000 m at Sela pass on the border between Tawang and West Kameng districts. The route and locations, seasons and forest types covered during the survey are given below for each trip. Sampling surveys were carried out for butterflies covering all the seasons. January–February: Winter; March–April: Spring; May–June: Pre-Monsoon; July–August: Monsoon; September–October: Post Monsoon & November–December: Autumn.

SEASONAL SURVEYS FOR BUTTERFLIES CARRIED OUT AT DIFFERENT LOCATIONS IN ARUNACHAL PRADESH, INDIA



FOREST TYPE MAP OF ARUNACHAL PRADESH, INDIA



Butterfly sampling points represented against their respective forest sub-types in Arunachal Pradesh Sampling Surveys

Sampling Surveys

1. East Kameng District

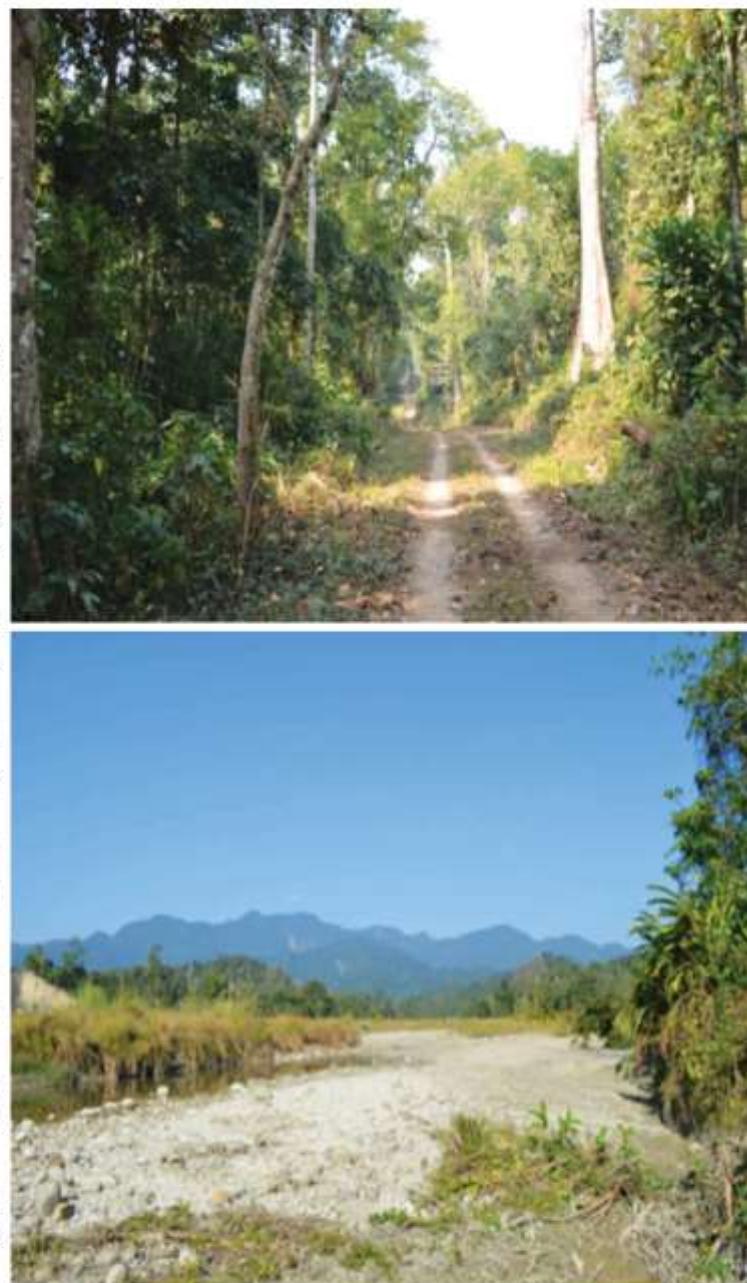
1 : Pakke Wildlife Sanctuary

Survey route and dates

1. Seijosa-Khari-Upper Dekorai-Rhino Camp (01-03/02/2012).
2. Seijosa-Duna nala-Khari-Upper Dekorai-Rhino Camp -Sukhna Nala- I (04-06/02/2013).
3. Seijosa-Duna nala-Khari-Upper Dekorai-Rhino Camp (18-20/12/2013).

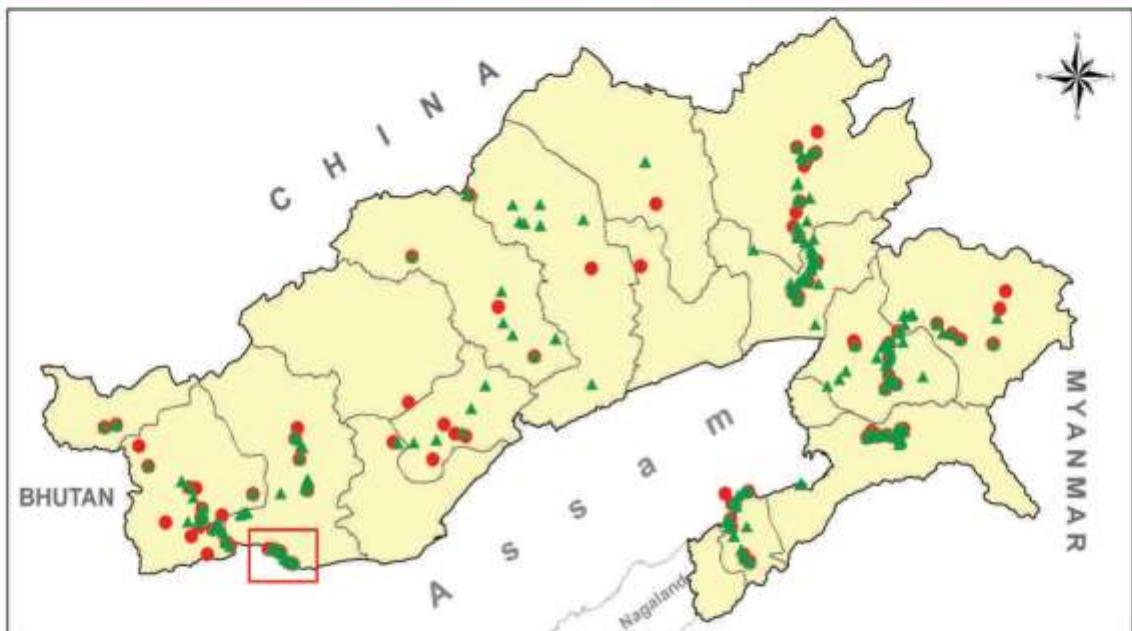
Coordinates, altitude and forest type of surveyed points

- Seijosa (26°56'17.6" N & 92°58'39.7" E; 132m; Assam Alluvial plains Semi-ever green forest).
- Duna Nala (26°56'33.7"N & 92°57'59.8"E; 185m; Assam Alluvial plains Semi-ever green forest).
- Near Khari (26°59'20.5"N & 92°54'31.9"E; 165m; Assam Alluvial plains Semi-ever green forest).
- Tarzan nala/Romoni (26°59'49.9"N & 92°54'23.6"E; 235m; Assam Alluvial plains Semi-ever green forest).
- Dikori Camp (27°00'22.0"N & 92°52'38.9"E; 176m; Assam Alluvial plains Semi-ever green forest).
- Upper Dekorai anti poaching Camp (27°08'36.9" N & 92°51'40.6" E; 167m; Assam Alluvial plains Semi-ever green forest).
- Tinga Nala (27°00'28.7"N & 92°51'15.7" E; 183m; Assam Alluvial plains Semi-ever green forest).
- Rhino Anti poaching Camp.(27°00'28.6"N & 92°50'17.7" E; 140m; Assam Alluvial plains Semi-ever green forest).
- Near Sukhna nala I (27°00'23.6"N & 92°51'56.2"E; 141m; Assam Alluvial plains Semi-ever green forest).

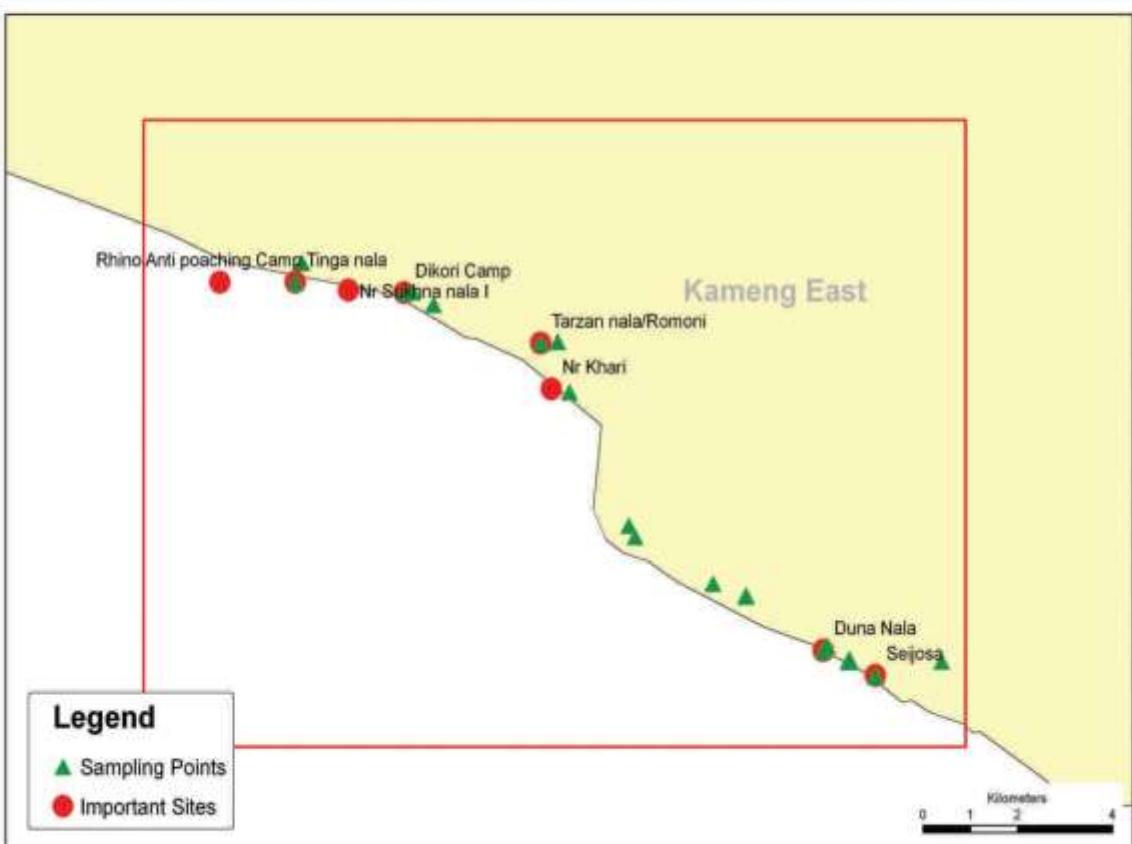


'Assam Alluvial plains Semi-ever green forest' at Seijosa entry gate towards Khari in Pakke Tiger Reserve.

EAST KAMENG DISTRICT SITE1: PAKKE TIGER RESERVE



SURVEY ROUTE/TRANSECT/SAMPLING POINTS





Dense forest near 'Sukha nala-I'-
Pakke Tiger Reserve



Doimara forest along the Kameng river
in western part of Pakke Tiger Reserve at Bhalukpong.



Forest habitat between Tippi and Khuppi.



Forest habitat between Tippi and Khuppi.



Forest Habitat along the Seppa Town.



Pulsang Village

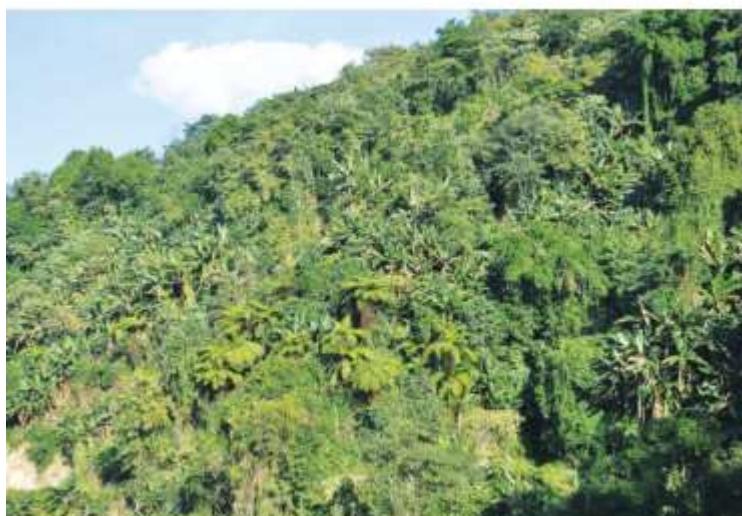
2. Seppa

Survey route and dates

1. Tippi – Khuppi – Seppa- Itanagar road- Seppa-Pulsang Village-Sanchi-Morang Village) (10-15/12/2014).

Coordinates, altitude and forest type of surveyed points

- Tippi (27°02'20.1" N & 92°36'13.3" E; 193m; Assam Alluvial plains Semi-evergreen forest).
- Khuppi (27°15'59.4" N& 92°45'01.8"E; 1107m; Assam Alluvial plains Semi-evergreen forest).
- Seppa (27°25'48.5" N & 93°00'51.8" E; 449m; Assam Alluvial plains Semi-evergreen forest).
- Pulsang Village (27°31'38.6" N & 92°59'26.8" E; 721m; East Himalayan Mixed Coniferous Forest)
- Sanchi –Morang Village (27°34'31.8" N & 93°00'04.7" E; 532m; Assam Alluvial plains Semi-evergreen forest).
- Itanagar Road (last point-27°17'07.8" N & 93°03'31.2" E; 1156m; Assam Alluvial plains Semi-evergreen forest).



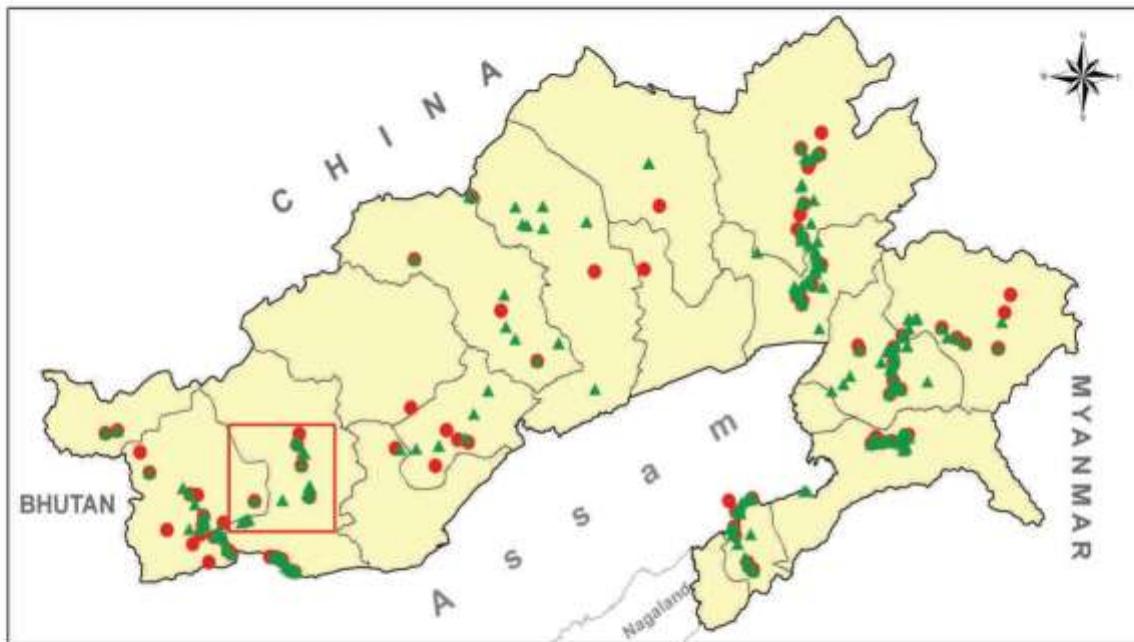
Evergreen forest on Seppa-Itanagar Road, 15 km from Seppa.



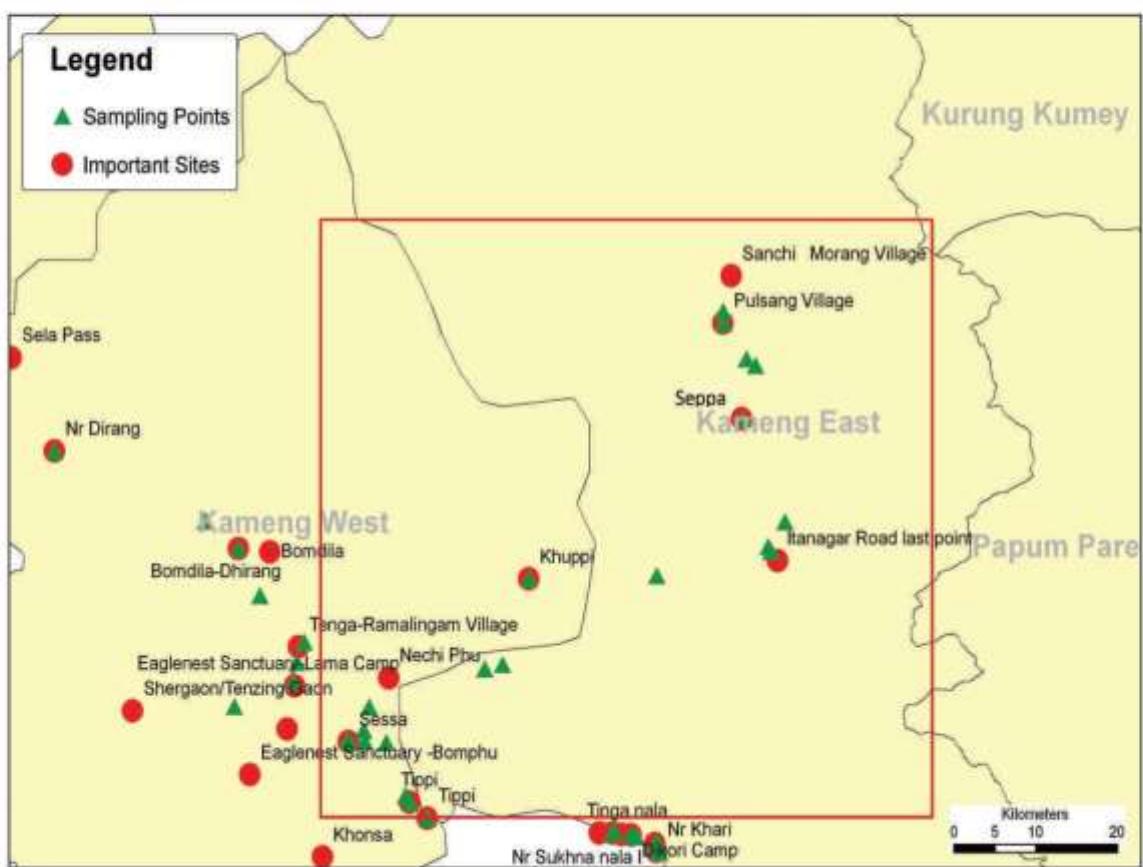
Forest habitat near along Sessa Orchid Sanctuary



EAST KAMENG DISTRICT: ARUNACHAL PRADESH
SITE2: SEPPA



SURVEY ROUTE/TRANSECT/SAMPLING POINTS



2. West Kameng & Tawang districts (Sessa, Eaglenest and Sela Pass)

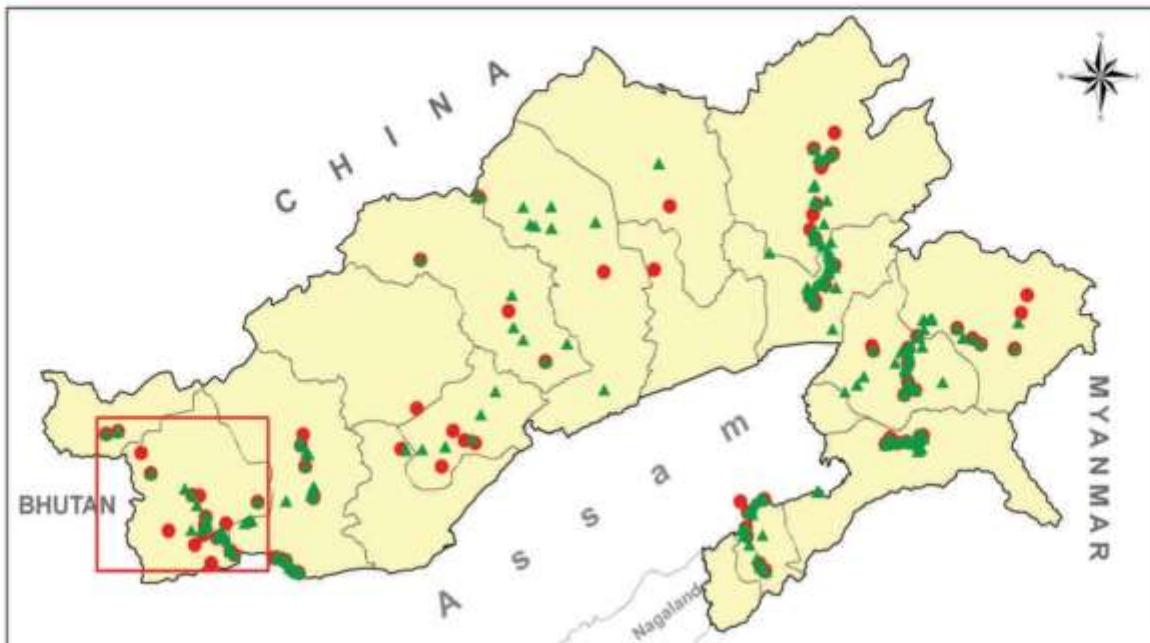
Survey route & dates

1. Tippi (Dazling RF)- Sessa Orchid Sanctuary-Nechi phu-Tenga- Eaglenest WLS- Lama Camp – SunderView – Bomphu.(04-07/02/2012).
2. Tippi- Sessa Orchid Sanctuary-Nechi phu-Tenga- EaglenestWLS- Lama Camp – SunderView/ Tenzing Gaon-Shergaon(09-15/07/2012).
3. Tippi- Sessa Orchid Sanctuary-Nechi phu-Tenga- EaglenestWLS- Lama Camp – SunderView - Bomdila - Sela Pass – Tawang- back to by same route Tippi (28/07/2013-03/08/2013).

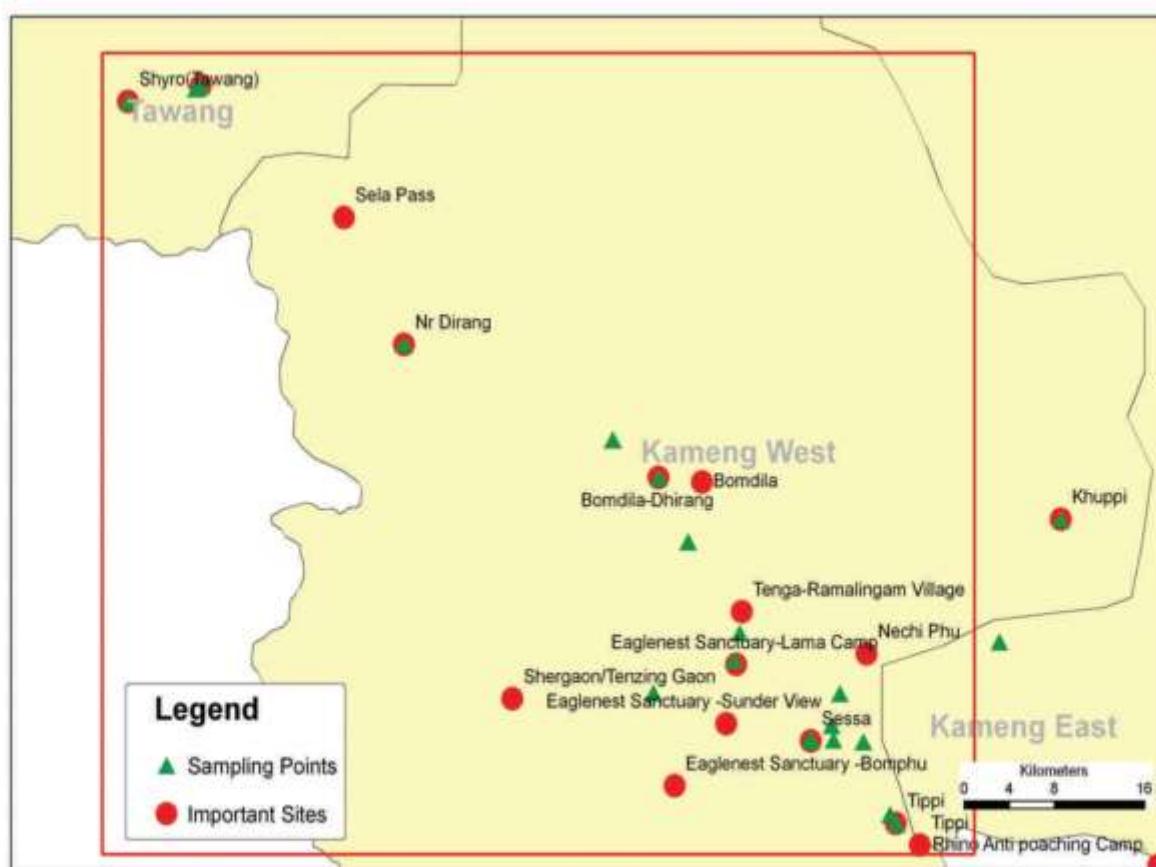
Coordinates, altitude and forest type of surveyed points

- Tippi (27°01'21.4" N & 92°37'31.1" E; 183m; Kayea Forest/Terminalia-Duabanga).
- Sessa (27°06'00.8" N & 92°31'38.9" E; 1076m; Assam Alluvial plains Semi-ever green forest / East Himalayan Mixed Coniferous Forest).
- Nechi Phu (27°09'55.8" N & 92°34'38.3" E; 1736m; East Himalayan Mixed Coniferous Forest).
- Tenga-Ramalingam Village (27°11'47.8" N & 92°27'55.9" E; 1695m; Assam Sub-Tropical Pine Forest/ East Himalayan Mixed Coniferous Forest).
- Eaglenest Sanctuary-Lama Camp (27°09'25.4" N & 92°27'38.4" E; 2335m; Kayea Forest).
- Eaglenest Sanctuary -Sunder View (27°06'46.1" N & 92°26'67.0" E; 2480m; East Himalayan Mixed Coniferous Forest).
- Eaglenest Sanctuary -Bomphu (27°03'58.5" N & 92°24'22.1" E; 1953m; Assam Alluvial plains Semi-ever green forest / East Himalayan Mixed Coniferous Forest).
- Shergaon/Tenzing Gaon (27°07'50.1" N & 92°15'38.8.1" E; 1988m; Assam Sub-Tropical Pine Forest).
- Bomdila (27°17'35.8" N & 92°25'46.0" E; 2200m; East Himalayan Mixed Coniferous Forest).
- Bomdila-Dhirang (27°17'47.9" N & 92°23'25.2" E; 1746m; Assam Alluvial plains Semi-ever green forest).
- Near Dirang (27°23'41.1" N & 92°09'43.2" E; 1750m; Assam Sub-Tropical Pine Forest).
- Sela Pass (27°29'21.9" N & 92°06'27.3" E; 3960m; East Himalayan Mixed Coniferous Forest).
- Shyro (Tawang) (27°34'28.8" N & 91°54'46.7" E; 2440m; East Himalayan Sub-alpine Forest/Birch, Rhodendron Scrub Forest).
- Jang Waterfall (Tawang)(27°35'12.9" N & 91°58'41.4"E; 2139m; East Himalayan Sub-alpine Forest).

WEST KAMENG AND TAWANG DISTRICT ARUNACHAL PRADESH

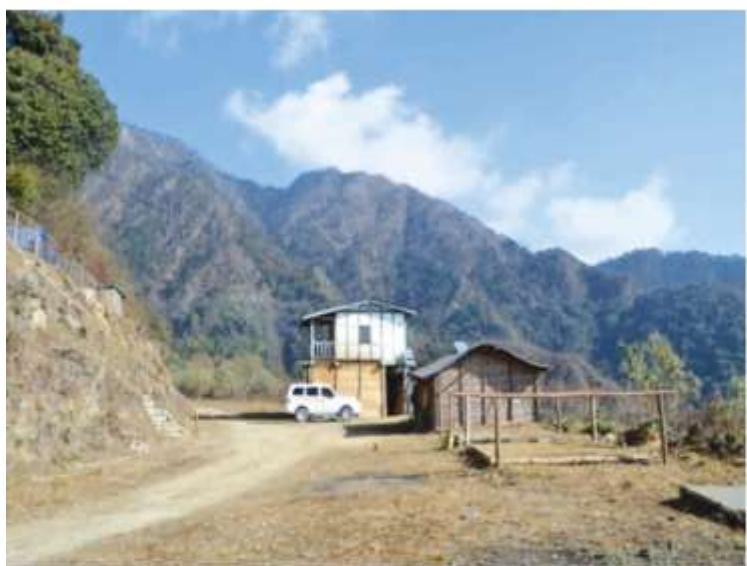


SURVEY ROUTE/TRANSECT/SAMPLING POINTS





Moist temperate forest in Eaglenest Sanctuary



Sunder view in Eaglenest Sanctuary.



Forest habitat near Bomphu.



Tsuga dumosa forest at Sela Pass.



Jang falls near Tawang.



3. Changlang district

Namdapha Tiger Reserve and surrounding areas

Survey route & dates

- Miao- Mpen-Deban-Haldibari- Hornbill; Deban-Camera Point; Miao-Noa-Dehing-Devpuri road(17-22/12/2011).
- Miao- Mpen-Deban-Haldibari- Hornbill; Deban-Camera Point; Miao-Noa-Dehing-Devpuri road (26-30/03/2012)
- Miao- Mpen-Deban-Haldibari- Hornbill; Deban-Camera Point; Miao-Noa-Dehing-Devpuri road (10-15/12/2012).
- Miao- Mpen-Deban-Haldibari- Hornbill; Deban-Camera Point; Miao-Noa-Dehing-Devpuri road (18-22/03/2013).
- Miao- Mpen-Deban-Haldibari- Hornbill; Deban-Camera Point; Miao-Noa-Dehing-Devpuri road (26-29/11/2013).

Coordinates, altitude and forest type of surveyed points

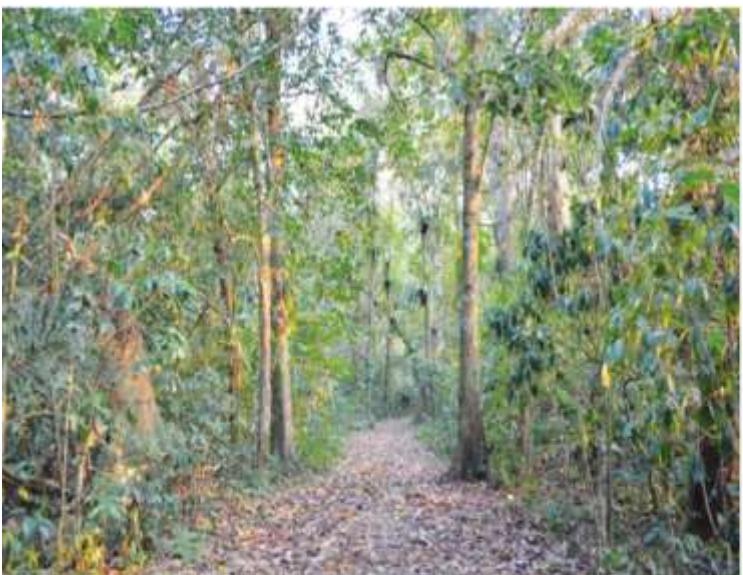
- Miao (27°29'43.8" N & 96°12'59.2" E; 240m; Eastern Alluvial Secondary forest).
- Mpen entrance gate to Namdapha Tiger Reserve (27°29'51.6" N & 96°16'53.3" E; 267m; Eastern Alluvial Secondary forest).
- 10 Mile (27°30'08.2" N & 96°19'54.1" E; 318m; Sub-Himalayan Light Alluvial forest).
- Deban (27°29'50.1" N & 96°23'9.7" E; 331m; Sub-Himalayan Light Alluvial forest).
- Haldibari (27°31'24.4" N & 96°24'09.7" E; 513m; Sub-Himalayan Light Alluvial forest).
- Nr. Hornbill (27°31'49.5" N & 96°25'34.2" E; 583m; Sub-Himalayan Light Alluvial forest).
- Gandhigram range on Vijay nagar Rd. From Deban(27°29'31.3" N & 96°23'48.9" E; 566m; Terminalia-Duabanga).
- Neo-Dehing- Devapuri (27°30'23.0" N & 96°13'39.5" E; 395m; Sub-Himalayan Light Alluvial forest).
- Neo-Dehing- Devapuri end point (27°31'24.5" N & 96°14'37.7" E; 360m; Sub-Himalayan Light Alluvial forest).



'Eastern Alluvial Secondary forest' on way from to Deban from Mpen in Namdapha



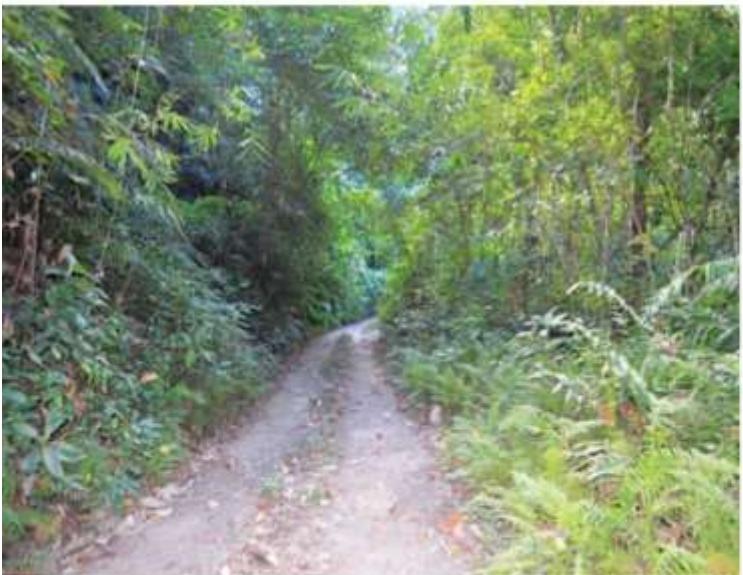
Namdapha river



Evergreen forest under storey in dry season in Namdapha



Evergreen forest under storey in dry season in Namdapha

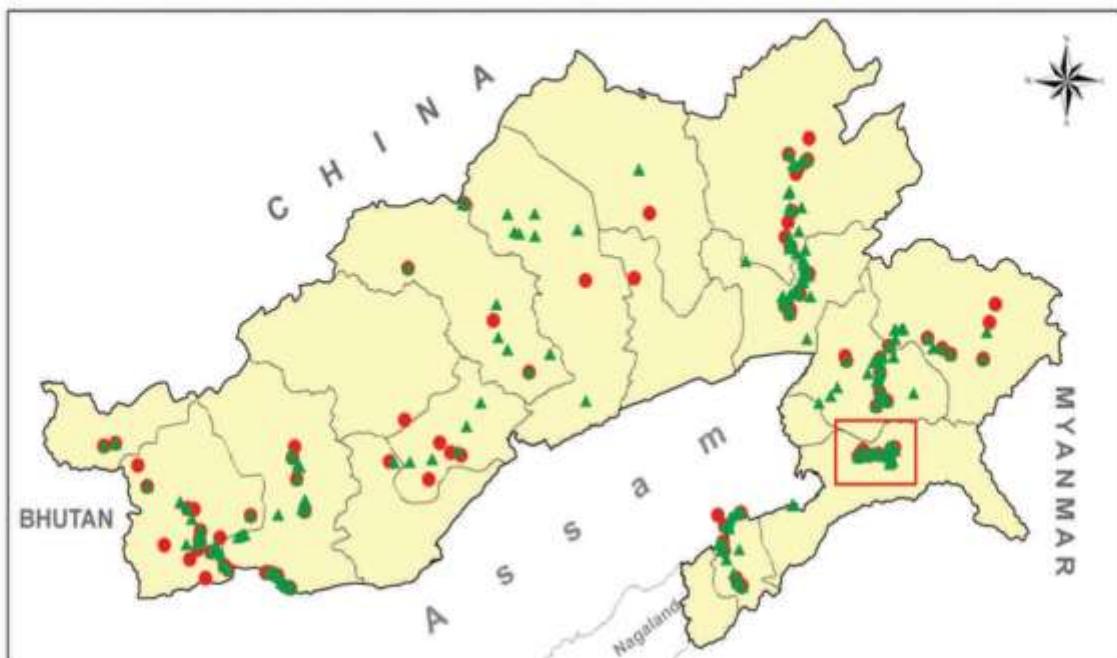


Dense evergreen forest habitat near Neo-Dehing

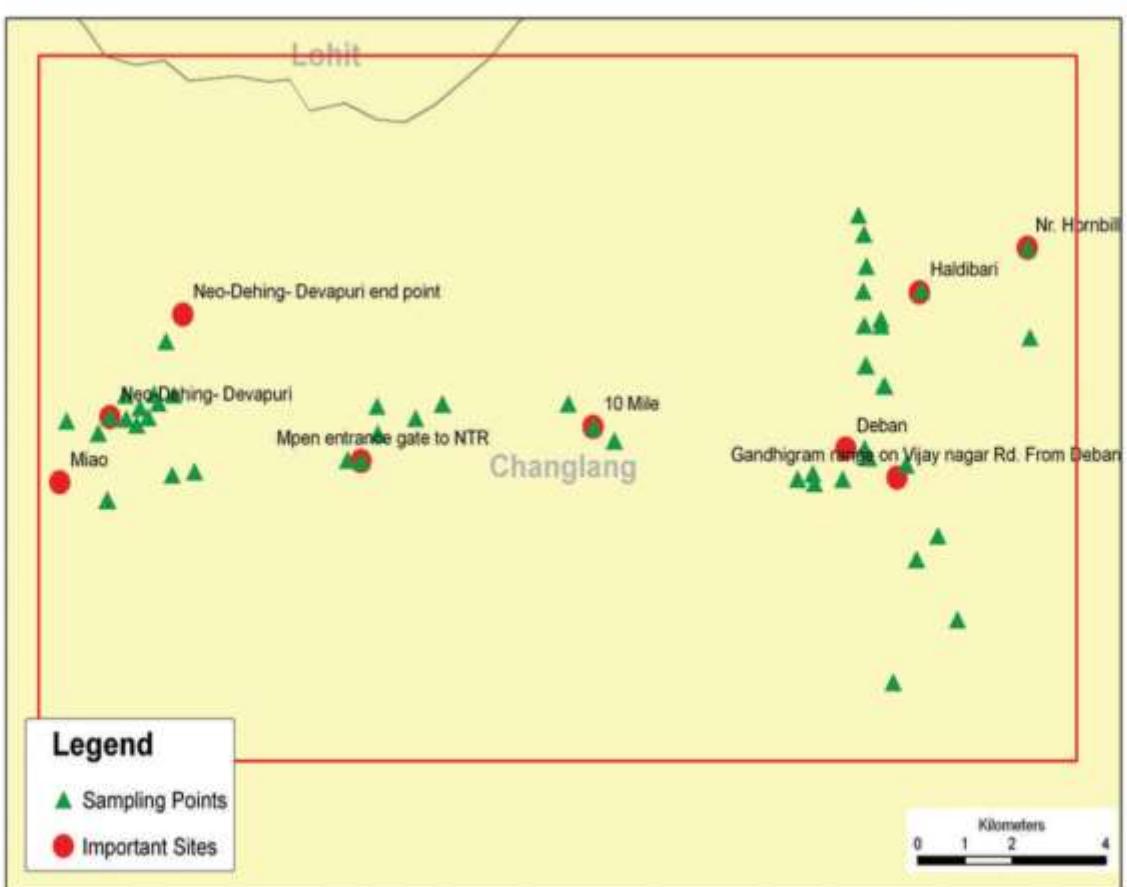


Rhododendrons flowering on the way from Pange to Tale valley.

CHANGLANG: NAMDAPHA TIGER RESERVE ARUNACHAL PRADESH



SURVEY ROUTE/TRANSECT/SAMPLING POINTS





4. Lower Subansiri, Papumpare and Kurung Kumey districts.

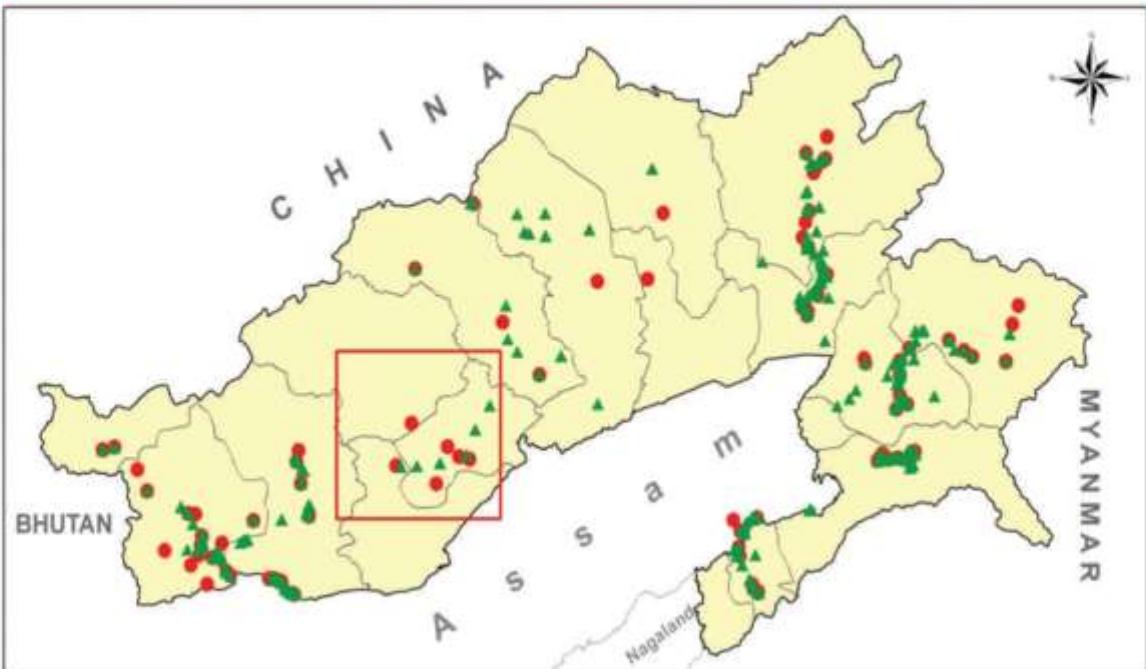
Survey route & dates

1. Yachuli-Yazuli-Hapoli-Ziro-Tale Valley-Hapoli-Yazuli-Mengio-Yazuli-New Palin-Yachuli (11-17/05/2012)

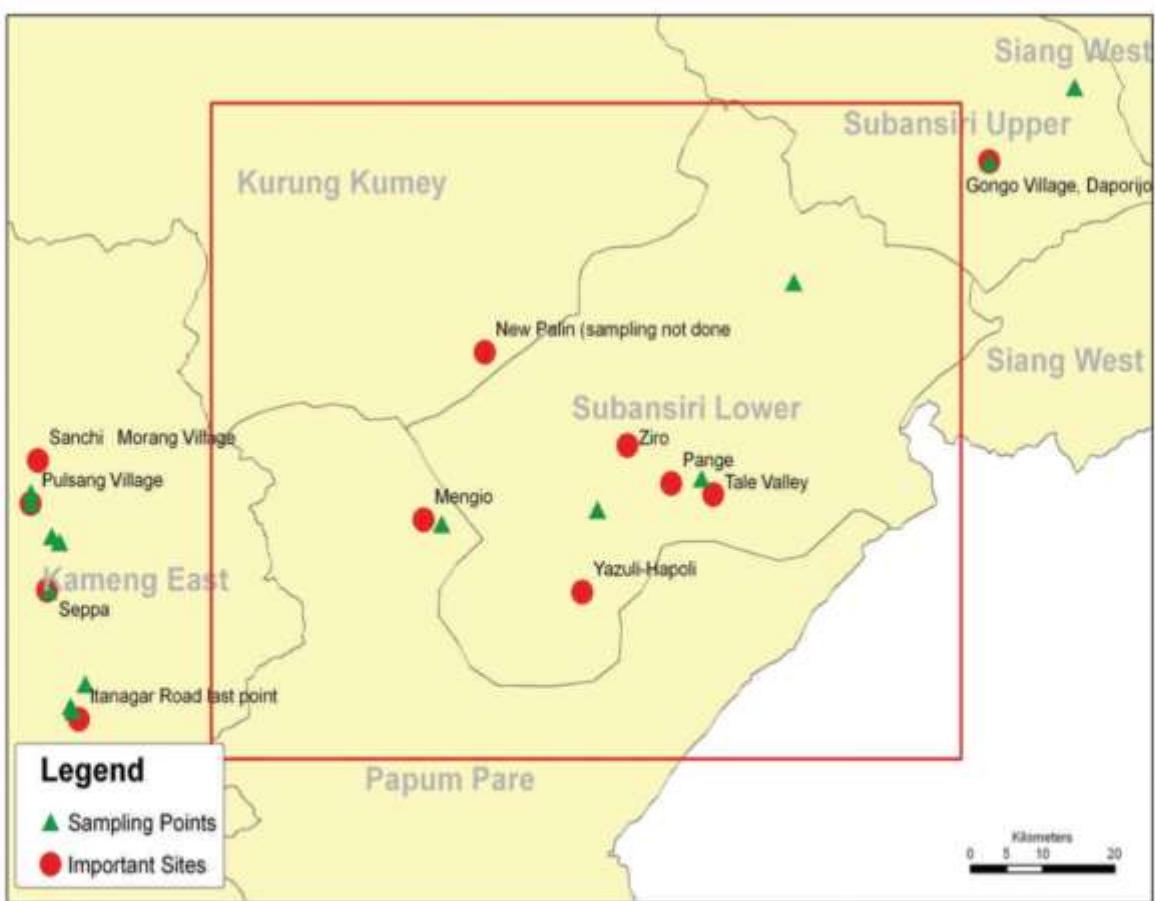
Coordinates, altitude and forest type of surveyed points

- Yazuli-Hapoli (27°25'32.7"N & 93°45'59.2"E; 972m; Eastern Sub-Montane Semi-evergreen forest)
- Ziro (27°35'23.42" N & 93°49'52.4" E; 1659m; Eastern Sub-Montane Semi-evergreen forest / Agriculture).
- Pange (27°32'49.89"N & 93°53'33.5"E; 1889m; Secondary Moist Bamboo Brakes).
- Tale Valley (27°32'02.81"N & 93°57'05.40"E; 2376m; Sub-Himalayan Light Alluvial forest).
- Mengio (27°30'28.4"N & 93°32'37.3"E; 1380m; East Himalayan Sub-Tropical forest/ East Himalayan Mixed Coniferous Forest).
- New Palin (27°41'43.52" N & 93°37'50.46"E; 923m; Sub-Himalayan Light Alluvial forest/ Secondary Moist Bamboo Brakes)-sampling not done.

LOWER SUBANSIRI, PAPUM PARE AND KURUNG KUMEY DISTRICTS, ARUNACHAL PRADESH



SURVEY ROUTE/TRANSECT/SAMPLING POINTS





Tale valley with *Tsuga demosa*



Bamboo, *Phyllostachys manii* on way to Mengio;



Evergreen forest habitat near New Palin



Habitat on way to Aalo from Hapoli



Ziro Village





5. Upper Subansiri, West Siang, Upper Siang and East Siang Districts.

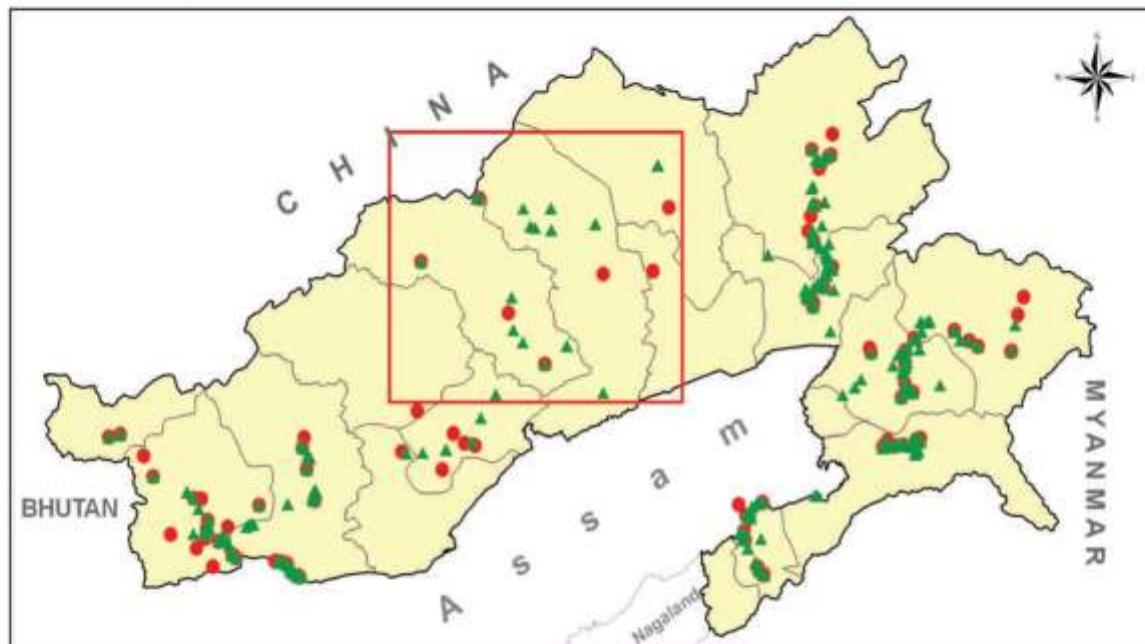
Survey route & dates

1. Ziro-Daporijo - Lime King -Daporijo -Along -Menchuka-Along-Boleng-Yingkiong-Boleng - Pasighat (09-15/08/2012).

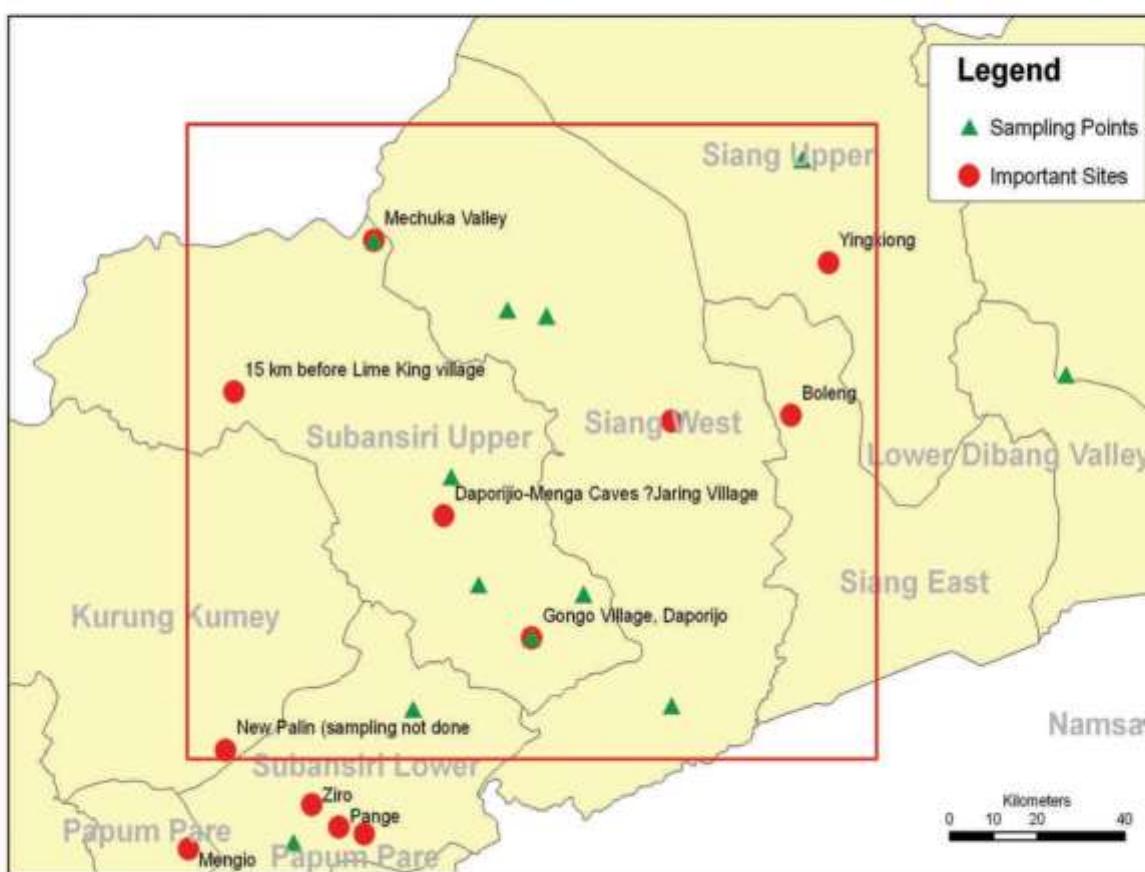
Coordinates, altitude and forest type of surveyed points

- Gongo Village, Daporijo (27°54'15.2" N & 94°20'39.4" E; 480m; Sub-Himalayan Light Alluvial forest)
- Daporijio-Menga Caves-Jaring Village(28°08'19.9" N & 94°08'33.1" E; 490m; Sub-Himalayan Light Alluvial forest)
- 15 km before Lime King village (28°22'42.9" N & 93°39'18.5" E; 2700m; Sub-Himalayan Light Alluvial forest).
- Peri Village, Along (28°18'49.9" N & 94°40'30.2"E; 375m; Secondary Moist Bamboo Brakes)
- Sagong Gurudwara, Mechuka Valley (28°37'40.7"N & 95°02'22.4"E; 1985m; Sub-Himalayan Light Alluvial forest)
- Yingkiong (28°36'40.28"N & 95°02'50.78"E; 471m; Sub-Himalayan Light Alluvial forest/ Secondary Moist Bamboo Brakes)
- Boleng (28°19'16.77" N & 94°57'14.49" E; 390m; Assam Alluvial plains Semi-evergreen forest).

UPPER SUBANSIRI, WEST SIANG, UPPER SIANG AND EAST SIANG DISTRICTS, ARUNACHAL PRADESH



SURVEY ROUTE/TRANSECT/SAMPLING POINTS





Sampling near Daporijo



Habitat near Menga caves



Habitat near Lime King



Blue Pine, *Pinus wallichiana* in Mechuka valley



Blue Pine – Tsuga forest in Mechuka valley



A village on way from Daporijo to Aalo

6. Upper and lower Dibang Valley districts.

Survey route & dates

- Roing - Tiwari Gaon - Mayodia Pass - Hunli – Elatin – Anini- Maroli & Anini – Dambuine (05-16/08/2012)
- Roing - Tiwari Gaon - Mayodia Pass - Hunli – Reyali (27/08/2013-01/09/2013)
- Roing - Tiwari Gaon - Mayodia Pass - Hunli – Elatin- Anini-Maroli (11/03/2014-16/03/2014)
- Tezu-Parshuram Kund- Roing -Tiwari Gaon - Mayodia Pass - Hunli - Elatin - Anini- Mippi (06-11/06/2015).

Coordinates, altitude and forest type of surveyed points

- Tezu (27°55'40" N & 96°09'45.9" E; 212m; Eastern Alluvial Secondary forest/ Terminalia-Duabanga).
- Roing (28°08'40.0" N & 95°50'36.0" E; 426m; Sub-Himalayan Light Alluvial forest/ Eastern Alluvial Secondary forest).
- River bed near Roing (28°09'45"N & 95°50'52.3" E; 473m; Terminalia-Duabanga).
- Tiwari Gaon (28°10'57"N & 95°48'57.1" E; 556m; Terminalia-Duabanga).
- Mayodia Pass (28°13'54.3"N & 95°54'16.3" E; 2424m; Eastern Alluvial Secondary forest).
- Hunli (28°19'27.1" N & 95°57'33.5" E; 1269 m; Eastern Alluvial Secondary forest).
- Angolian (28°33'28.1" N & 95°50'36.3" E; 772m; Terminalia-Duabanga).
- Anzan(28°29'27.7" N & 95°49'39.2" E; 683m; Eastern Alluvial Secondary forest).
- Reyalli (28°27'00.4"N & 95°51'15.7" E;786m; Sub-Himalayan Light Alluvial forest).
- Elatin (28°36'21.8" N & 95°52'05.3" E;673m; Eastern Alluvial Secondary forest).
- Amboli (28°46'27.2" N & 95°53'44.4" E;1226m; Terminalia-Duabanga).
- Anini (28°47'42.9" N & 95°54'26.9" E; 1640m; Sub-Himalayan Light Alluvial forest/ Eastern Alluvial Secondary forest).
- Maroli-Mippi (28°51'47.9" N & 95°51'23.8" E; 1373m; Sub-Himalayan Light Alluvial forest).
- Alinye Valley (28°49'39.8" N & 95°57'09.3" E;1389 m; Sub-Himalayan Light Alluvial forest).
- Awapani Mill (28°50'09.0" N & 95°57'53.7" E;1440m; Sub-Himalayan Light Alluvial forest).
- Dambunie (28°55'51.2"N & 95°58'29.3" E;1719m; Sub-Himalayan Light Alluvial forest).





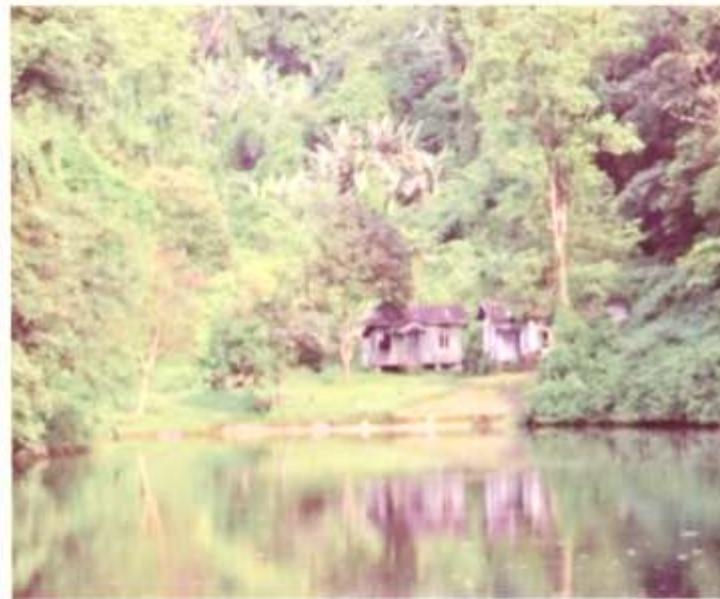
Manipur Jungle Queen and northern Jungle Queen sipping nectar on *Castanopsis* sp between Anini and Maroli, Upper Dibang valley.



Rocky-grass habitat near Mayodia Pass



Forest near Tiwari Gaon.



A garden near Roing

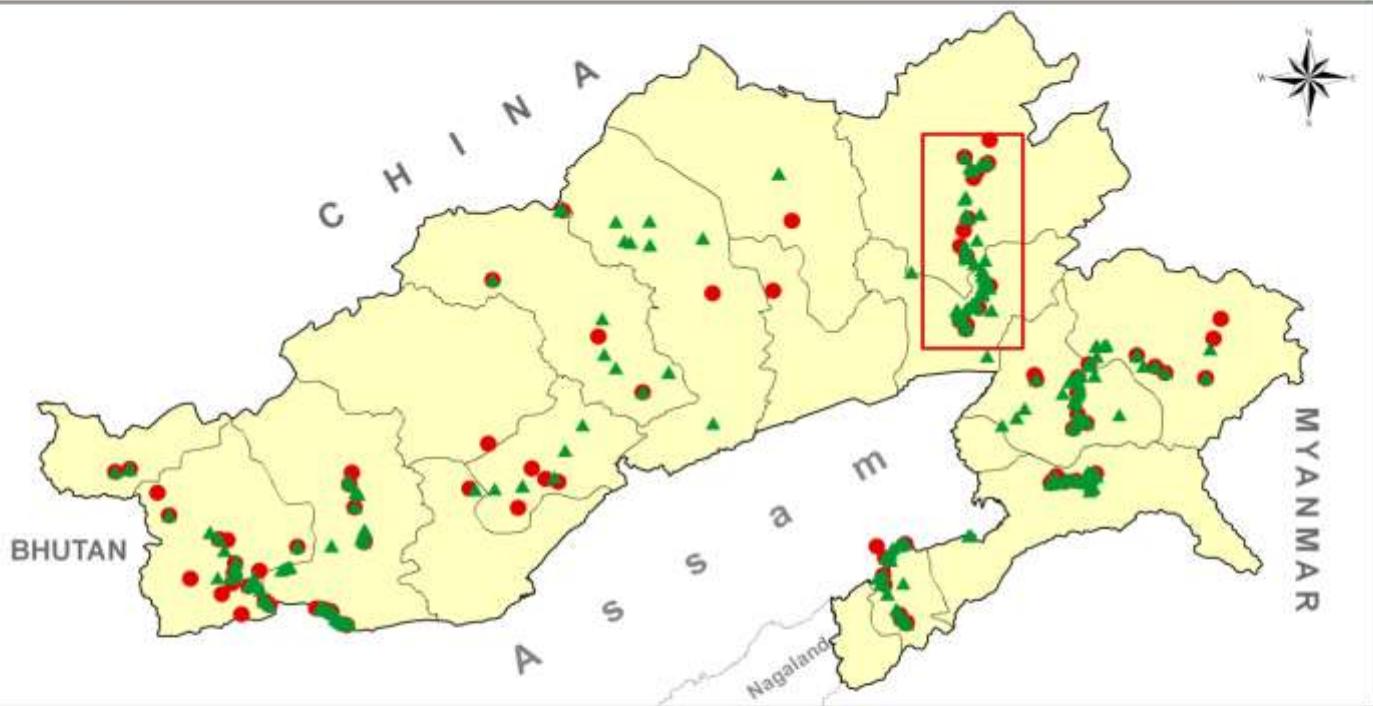


Yellow Helens, *Papilio memnides*, and Great Orange Tip, *Hebomoia glaucippe* feeding on flowers of *Cecropia obtusifolia* in Kamlang Wildlife Sanctuary.

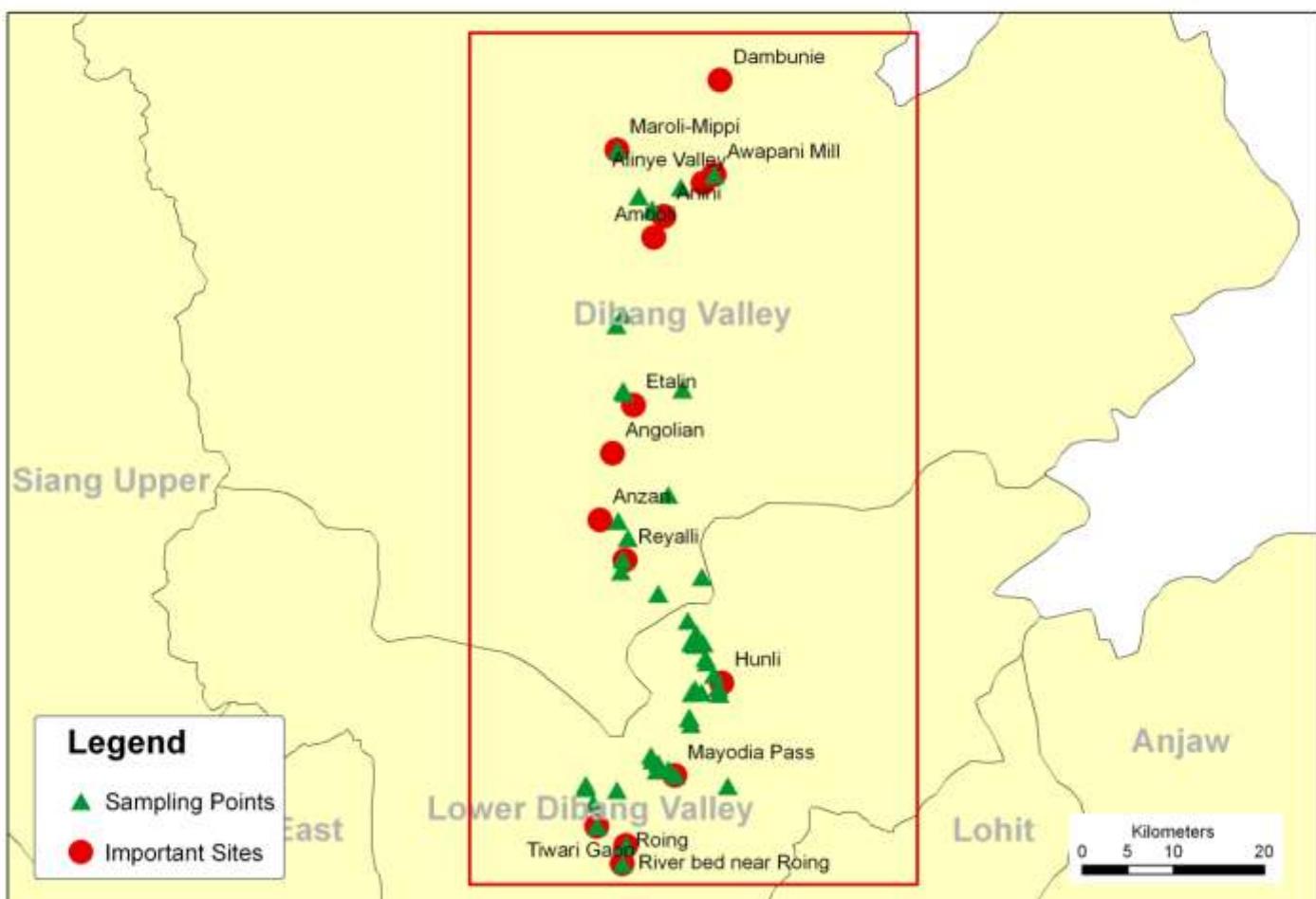


Mixed forest near Tezu

UPPER AND LOWER DIBANG VALLEY ARUNACHAL PRADESH



SURVEY ROUTE/TRANSECT/SAMPLING POINTS





Papilionid assemblage on Anini-Maroli route



Pierids assembled near Hunli



Anini to Dambuine route



Dambuine



Forest along Roing -Tiwari Gaon route



Terminalia- Duabanga forest before Tiwari Gaon



7. Lohit & Anjaw districts

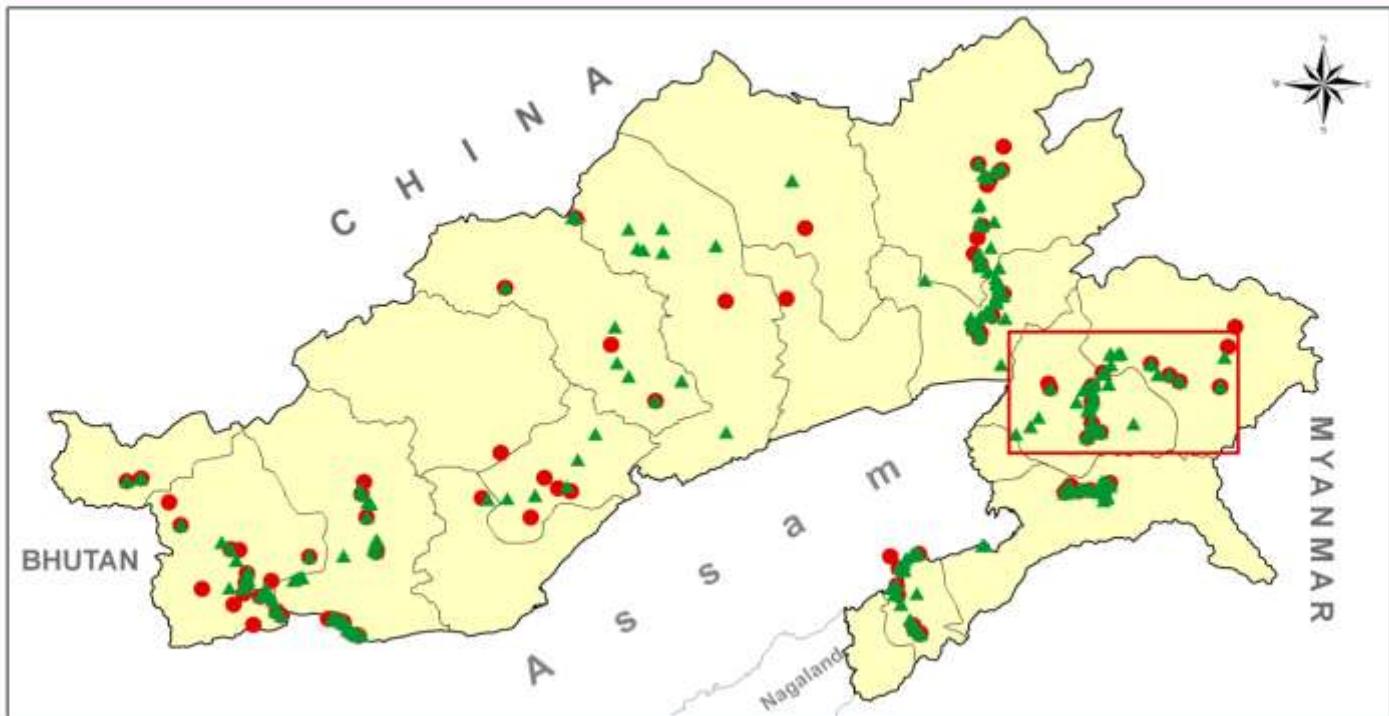
Survey route & dates

- Namsai – Kamlang – Wakro - Parshuram Kund -Tezu- Udyak Pass – Hayulang –Chaguin- Sathkilo – Walong-Tilam (28/04/2012-04/05/2012)
- Namsai – Kamlang – Wakro - Parshuram Kund -Tezu- Udyak Pass – Hayulang –Chaguin (05-09/08/2014)

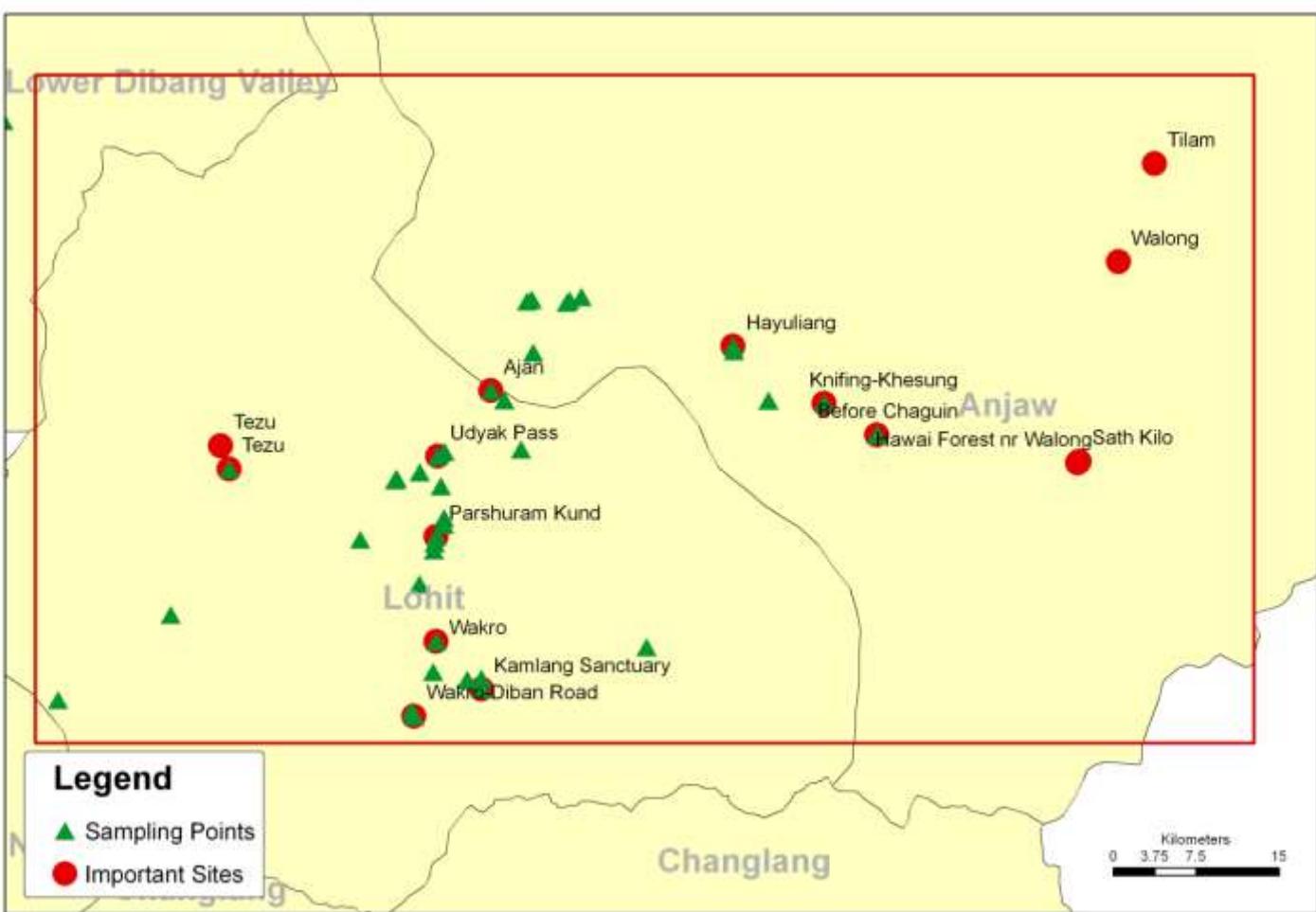
Coordinates, altitude and forest type of surveyed points

- Wakro ($27^{\circ}46'50.2''N$ & $96^{\circ}20'55.3''E$; 447 m; Terminalia-Duabanga).
- Wakro-Diban Road ($27^{\circ}43'10.3''N$ & $96^{\circ}19'34.7''E$; 440 m; Eastern Alluvial Secondary forest).
- Kamlang Sanctuary ($27^{\circ}44'25.3''N$ & $96^{\circ}23'21.2''E$; 457 m; Sub-Himalayan Light Alluvial forest).
- Parshuram Kund ($27^{\circ}52'02.2''N$ & $96^{\circ}21'05.3''E$; 344 m; Eastern Alluvial Secondary forest).
- Udyak Pass ($27^{\circ}56'01.1''N$ & $96^{\circ}21'17.5''E$; 1640 m; Sub-Himalayan Light Alluvial forest).
- Ajan ($27^{\circ}59'12.4''N$ & $96^{\circ}24'19.4''E$; 531 m; Eastern Alluvial Secondary forest).
- Hayuliang ($28^{\circ}01'04.1''N$ & $96^{\circ}37'46.2''E$; 648 m; Eastern Alluvial Secondary forest).
- Knifing-Khesung ($27^{\circ}58'05.5''N$ & $96^{\circ}42'42.1''E$; 833 m; Eastern Alluvial Secondary forest/ Terminalia-Duabanga).
- Before Chaguin ($27^{\circ}56'27.7''N$ & $96^{\circ}45'32.8''E$; 837 m; Eastern Alluvial Secondary forest).
- Sath Kilo ($27^{\circ}54'50.4''N$ & $96^{\circ}56'40.0''E$; 960 m; Terminalia-Duabanga).
- Hawai Forest nr Walong ($27^{\circ}54'44.9''N$ & $96^{\circ}56'33.8''E$; 919 m; Terminalia-Duabanga).
- Walong ($28^{\circ}04'39.4''N$ & $96^{\circ}59'10.6''E$; 1108 m; Sub-Himalayan Light Alluvial forest).
- Tilam ($28^{\circ}09'28.2.7''N$ & $97^{\circ}01'21.9''E$; 1332 m; Sub-Himalayan Light Alluvial forest).

LOHIT AND ANJAW DISTRICTS ARUNACHAL PRADESH



SURVEY ROUTE/TRANSECT/SAMPLING POINTS





Author at Udyak Pass



Hawai Forest near Walong



Minus merkusii forest Tilam-Walong



Evergreen forest in Deomali RF ,Tirap



Evergreen forest in Borduria RF in Tirap



Temperate patches along Khonsa-Thinsa-Sanlum-Lazu route, Tirap district.

8. Tirap district

Survey routes and dates

- Dihing Patkai-Deomali-Borduria-Pullung-Khonsa-Khetti-Thinsa-Sanlum-Lazu Rd. (10-14/09/2014).
- Margerita-Changlang district (06/11/2014)

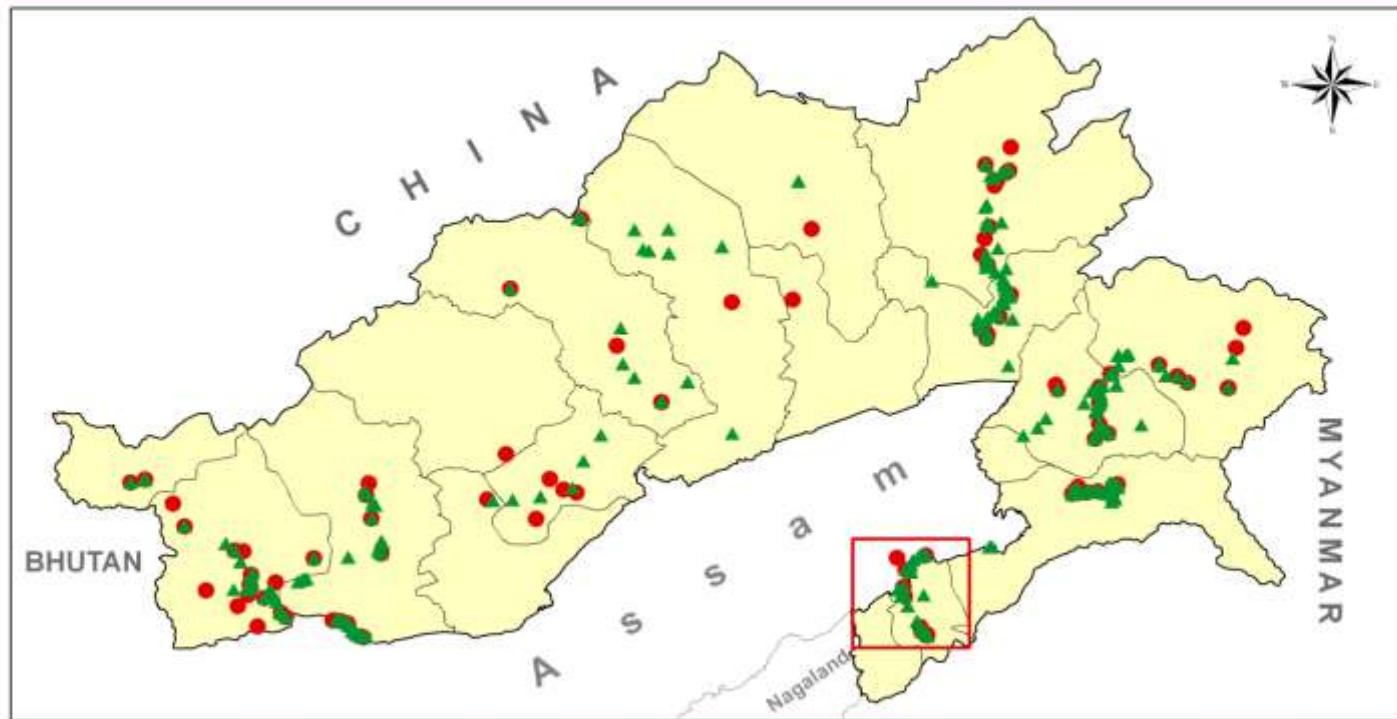
Coordinates, altitude and forest type of surveyed points

- Dihing Patkai ($27^{\circ}14'49.4''$ N & $95^{\circ}24'40.8''$ E; 117 m; Sub-Himalayan Light Alluvial forest) (Assam Border).
- Deomali ($27^{\circ}11'50.8''$ N & $95^{\circ}26'58.0''$ E; 135 m; Sub-Himalayan Light Alluvial forest).
- Deomali -R.K.Mission Rd ($27^{\circ}15'16.0''$ N & $95^{\circ}32'30.0''$ E; 127 m; Sub-Himalayan Light Alluvial forest).
- Borduria ($27^{\circ}07'35.1''$ N & $95^{\circ}26'16.7''$ E; 268 m; Sub-Himalayan Light Alluvial forest).
- Pullung ($27^{\circ}05'16.3''$ N & $95^{\circ}26'31.7''$ E; 323 m; Sub-Himalayan Light Alluvial forest).
- Khonsa ($26^{\circ}58'58.0''$ N & $92^{\circ}29'45.7''$ E; 1026 m; Assam Alluvial plains Semi-ever green forest).
- Khetti ($26^{\circ}57'39.7''$ N & $95^{\circ}30'39.0''$ E; 1204 m; Sub-Himalayan Light Alluvial forest).
- Thinsa ($26^{\circ}56'27.0''$ N & $95^{\circ}31'00.05''$ E; 1515 m; Eastern Alluvial Secondary forest).
- Sanlum ($26^{\circ}55'43.5''$ N & $95^{\circ}32'26.61''$ E; 1684 m; Eastern Alluvial Secondary forest).
- Lazu Rd (Last point) ($26^{\circ}55'21.7''$ N & $95^{\circ}32'29.2''$ E; 1650 m; Sub-Himalayan Light Alluvial forest/Terminalia-Duabanga)
- Margerita (Assam)-Changlang district border ($27^{\circ}16'55.38''$ N & $95^{\circ}50'06.6''$ E; 479 m; Sub-Himalayan Light Alluvial forest).

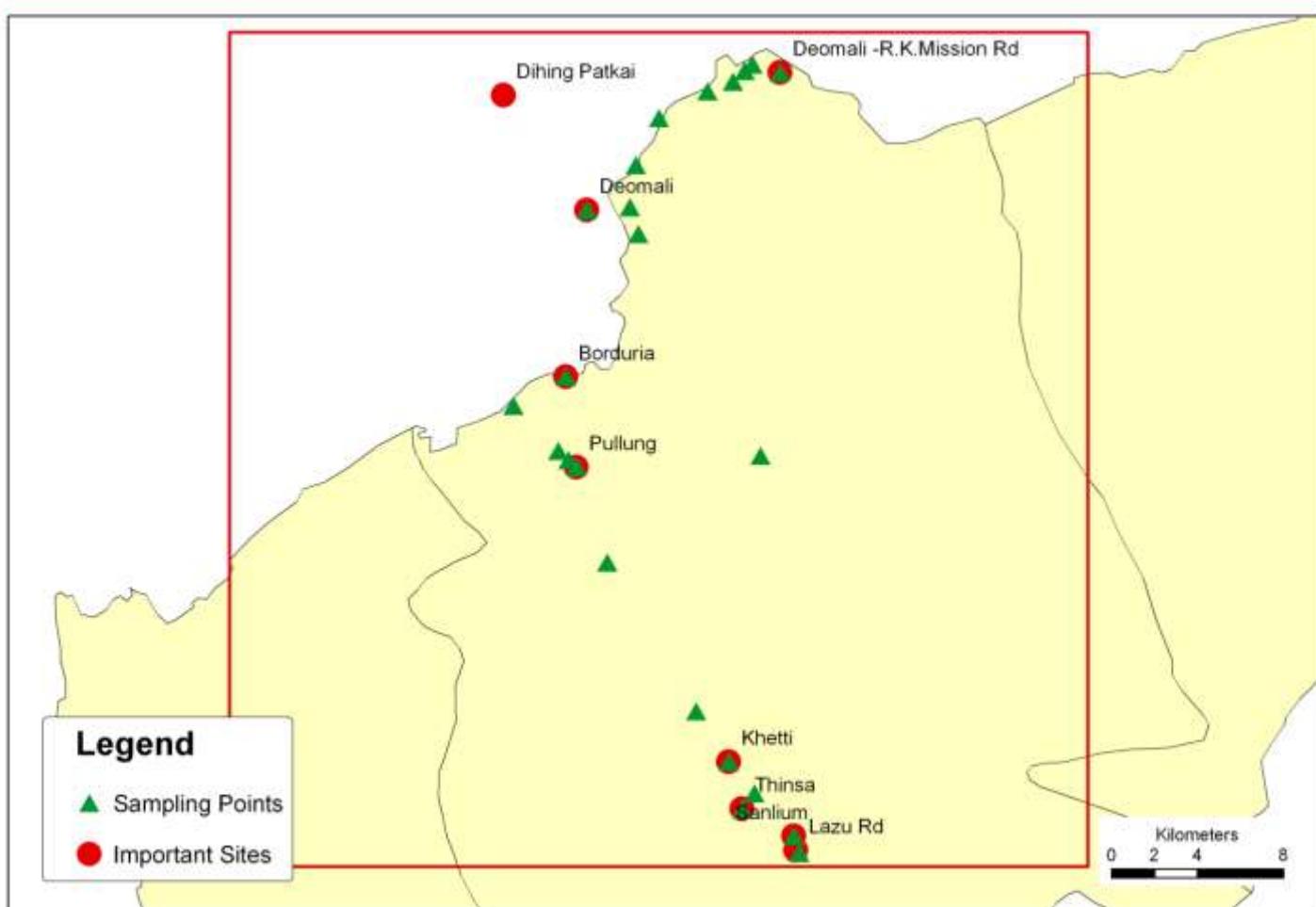
Five-bar Swordtails, *Graphium antiphates*

graphitis mudpuddling on the road near Deomali.

TIRAP DISTRICT ARUNACHAL PRADESH



SURVEY ROUTE/TRANSECT/SAMPLING POINTS



A total of 2916 GPS points were sampled for individuals of 414 taxa of butterflies in the field, including some very rare records for India. GIS maps were generated for each species using Arc GIS software. These were then plotted on the map and depicted in 'grey' colour according to their respective coordinates (latitude and longitude). Following information about each species is provided in the map.

- ♦ **Seasonality:** The seasonal occurrence of each butterfly species during different seasons at a particular location recorded is thus represented with a different colour. The year has been broken into 6 seasons and represented in the legend of the map given on the right bottom, with a particular colour as mentioned below
 - ♦ **January-February** : Winter (Dark Blue-Lepis Lazuli).
 - ♦ **March-April** : Spring (Orange- Electron Gold).
 - ♦ **May-June** : Pre-Monsoon (Yellow-Solar Yellow).
 - ♦ **July-August** : Monsoon (Light Green-Quetzal Green).
 - ♦ **September-October** : Post Monsoon (Red- Mar's Red).
 - ♦ **November-December** : Autumn (Purple-Amethyst).
- ♦ **Relative Abundance:** This was derived by first listing the total number of individuals sampled for each species and then ranking them in the order, from minimum to maximum. They were then divided into 4 classes based on quartile divisions (Q1= 1-2 individuals =Uncommon; Q2=3-5=Fairly Common; Q3=6-16=Common and Q4= 17-238 (max)=Very Common).
- ♦ **IWPA 1972 Status:** The legal status of species falling under various schedules of the Indian Wildlife (Protection) Act, 1972 have been marked on the map i.e. Schedule I, Part IV or Schedule II Part II or Schedule IV or Not Applicable (NA). These listed species are thus protected by law. Besides they are also 'very rare'- species listed in 'Schedule I, Part IV 'and 'rare' for species listed in 'schedule II, Part II', as mentioned in Evans, 1932, according to their distribution and abundance, and thus are of conservation priority over others in this list.
- ♦ **Altitudinal distribution:** This is based on GPS data for individuals sampled for a species. The range represents the lowest to the highest altitude of record during sampling for the species represented on the map.
- ♦ **Food Plants:** Larval food plants are mentioned based on personal observations of the author and published literature.
- ♦ **Nomenclature :** The scientific names are given up to the sub-species level for the species that are found in this state/region.
- ♦ **Images of species-** Most of the images are of the sub-species recorded at site of sampling in Arunachal Pradesh while a few which the author was unable to capture in the field are from other places in the north-east India. For many dimorphic species both the sexes have been depicted.

[All the images are of the first author, Arun P. Singh, except 18 images that have been generously provided by Monsoon Jyoti Gogoi. These are PA29 (a), PI 9, PI 25, LY15, LY27, LY53, LY72, LY73, LY82, NY12, NY28 (b), NY67, NY118(a&b), HE6, HE 9, HE 22 & HE 52. Six images, PA28 (a), PA30 (a), PA32, LY63, NY23 and NY97 (b) have been provided by Sanjay Sondhi].

Classification of Butterflies

Order: **Lepidoptera** (Butterflies & Moths): Scaly-winged insects.

- ♦ Sub-order: **Rhopalocera** (Butterflies): Clubbed antennae.

I. Super family : Papilioidea

Families

- 1. Papilionidae** (Swallowtails and Apollo's): Large butterflies with all legs fully developed. Hindwing is usually tailed with a con-cave inner margin and only one anal vein. Forewing vein in 3a is free towards the margin.
Sub-families: Parnassinae (Apollos) and Papilioninae (Swallowtails).
- 2. Pieridae** (White and Yellows; 109species): All legs functional, distinct bifid pretarsal claws, hindwing with a convex inner margin and 2 anal veins.
Sub-families: Pierinae (Whites); Coliadinae (Yellows).
- 3. Nymphalidae** (Brush-footed butterflies;): Front legs useless for walking, brush-like in male, without claws, antennal club usually very clear.
Sub-families: Amathusiinae (Faun, Jungle Queens & Kings, Glories, Duffers, Caliphs); Satyrinae (Palmflies, Browns, Foresters, Labyrinths, Goldenforks, Walls, Rings, Argus, Satyrs) Calinaginae (Freak); Charaxinae (Rajahs & Nawabs); Apaturinae (Emperors, Princes, Courtiers, Courtesans) Nymphalinae (Castors, Yeomans, Silverstripes, Fritillarys, Pansys, Admirals, Tortoiseshells, Jesters, Eggflys, Oakleafs, Maps, Sailors, Sergeants, Commodores, Commanders, Barons, Dukes and Duchesses); Heliconiinae (Lacewings); Acraeinae (Casters); Danainae (milkweed butterflies: Tigers and Crows); Libytheinae (Beaks).
- 4. Lycaenidae** (Blues): All legs functional, although males may have claws missing from front legs, antennae bases adjacent to the eyes, and often indented. Mostly rather small, often metallic.
Sub-families: Poritinae (Gems); Lyphyrinae (Moth butterfly); Miletinae (Brownie, Darkie, Apefly); Curetinae (Sunbeams); Theclinae (Hairstreaks, Oakblues, Plushblues, Onyx, Silverlines, Royals, Tits, Sparks, Flashes); Lycaeninae (Coppers & Sapphires); Polyommatiniae (Line Blues, Ceruleans, Pierrots, Hedge Blues, Jewels); Riodininae (Punches & Judies).

II. Super-family : Hesperioidea

- ♦ **Family**

- 1. Hesperiidae** (Skippers): Antennae widely separated at base and gradually thickening to form the club, which is often hooked at the tip. Forewing with no stalked peripheral veins.
Sub-families: Coeliadinae (Awls, Awlets & Awlkings); Pyrginae (Flats); Hesperiinae (Hoppers, Aces, Bobs, Demons, Darts, Swifts).

Butterfly Distribution Maps

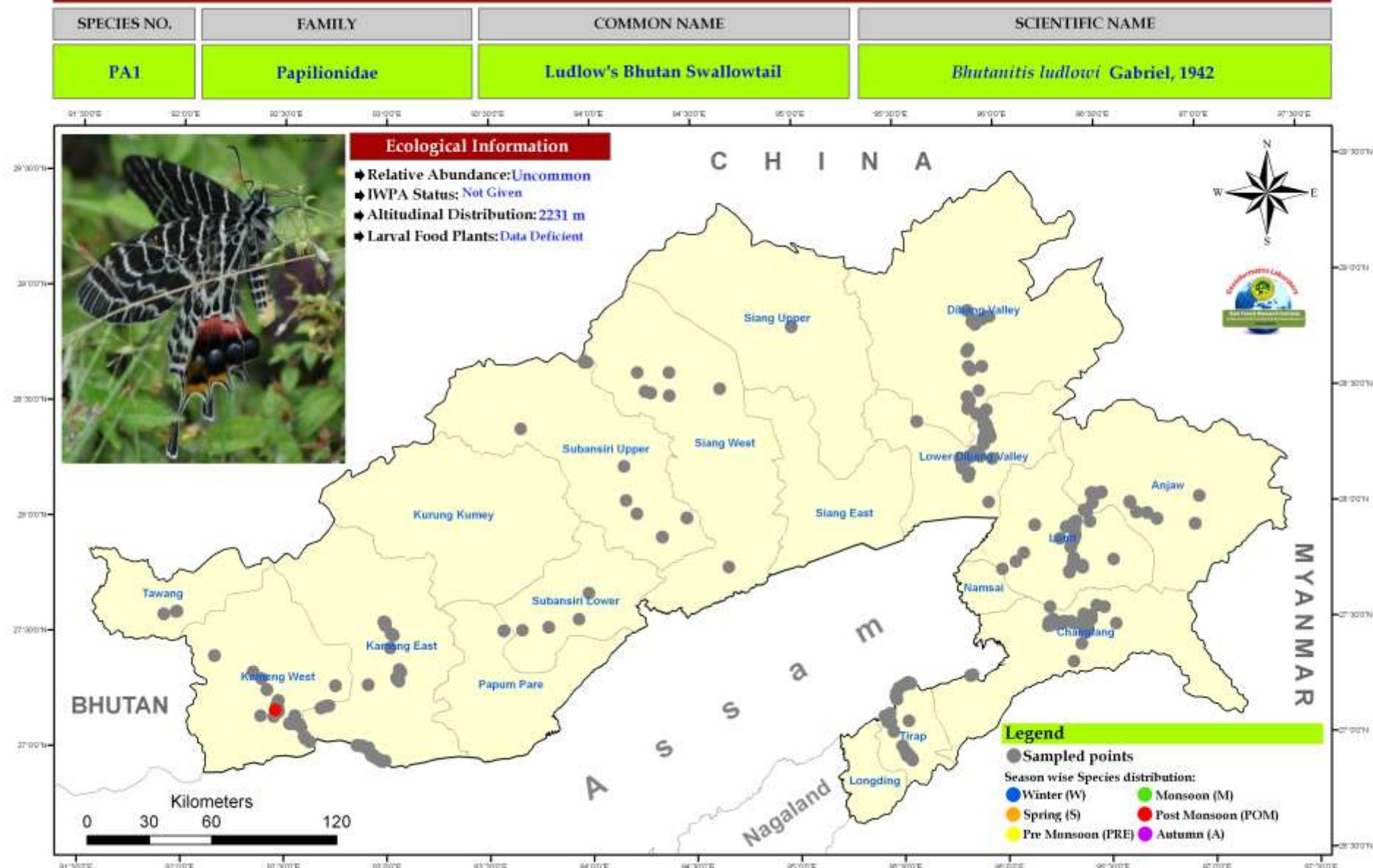
PAPILIONIDAE

(Swallowtails)

PA:1-37

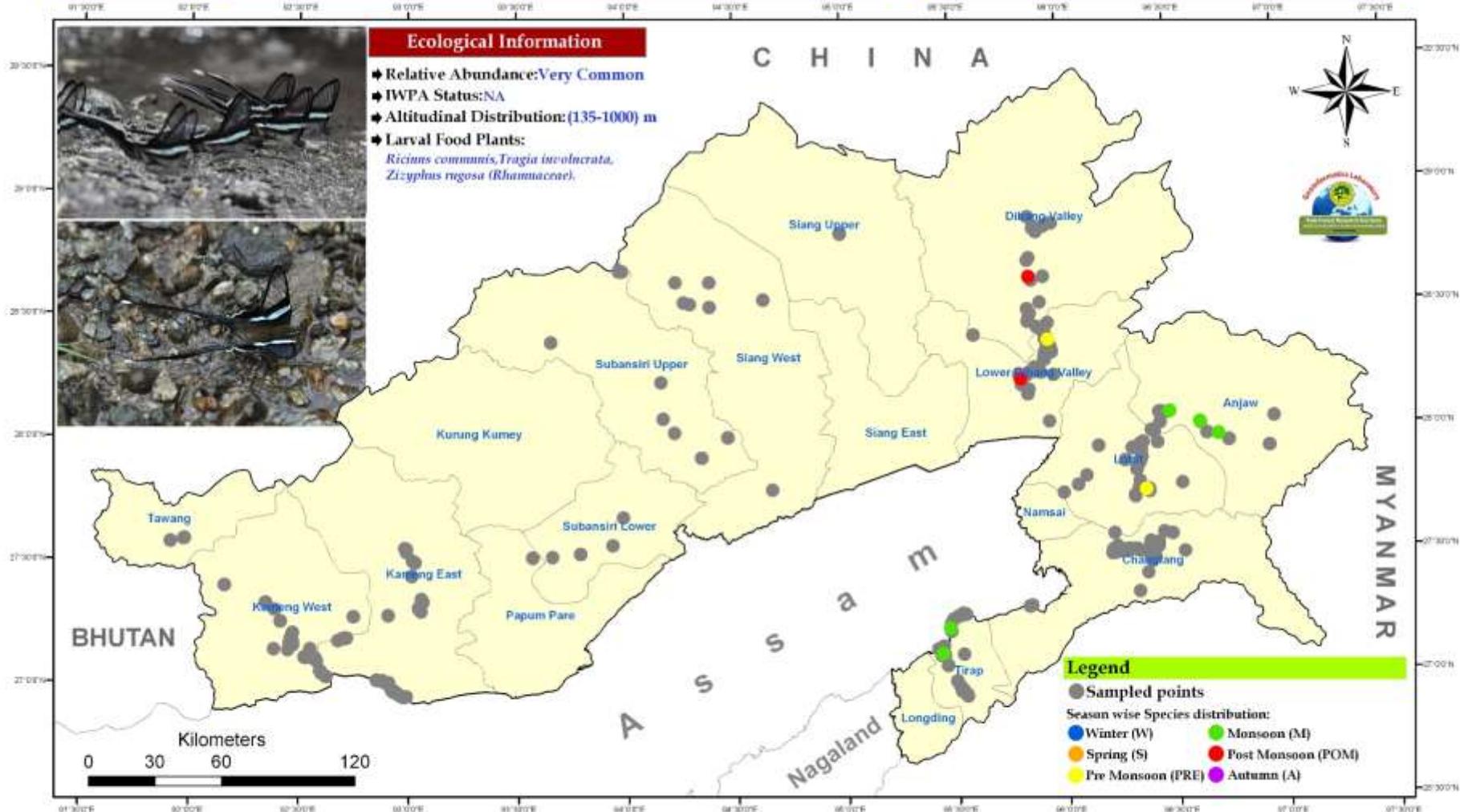


SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA

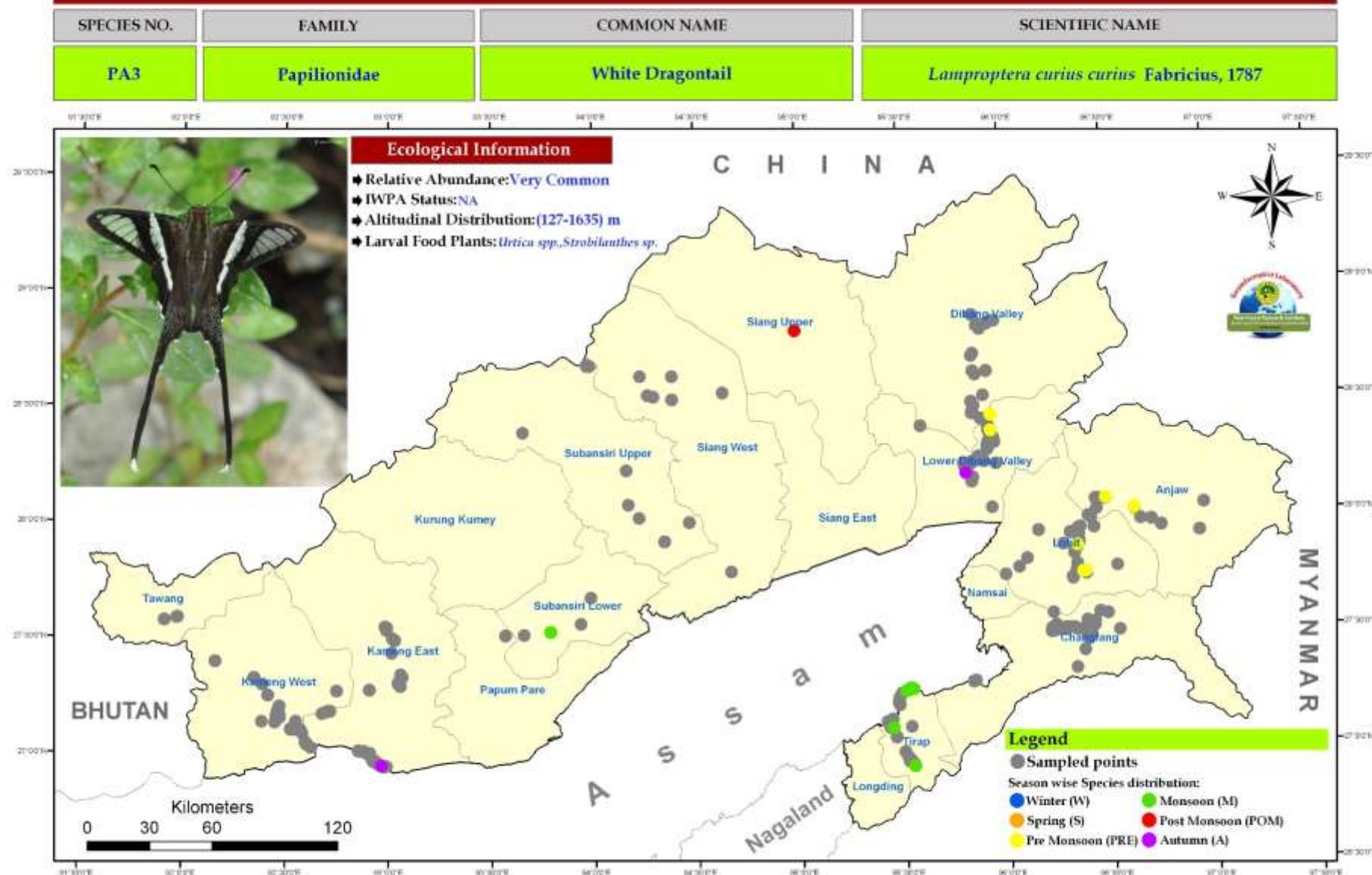


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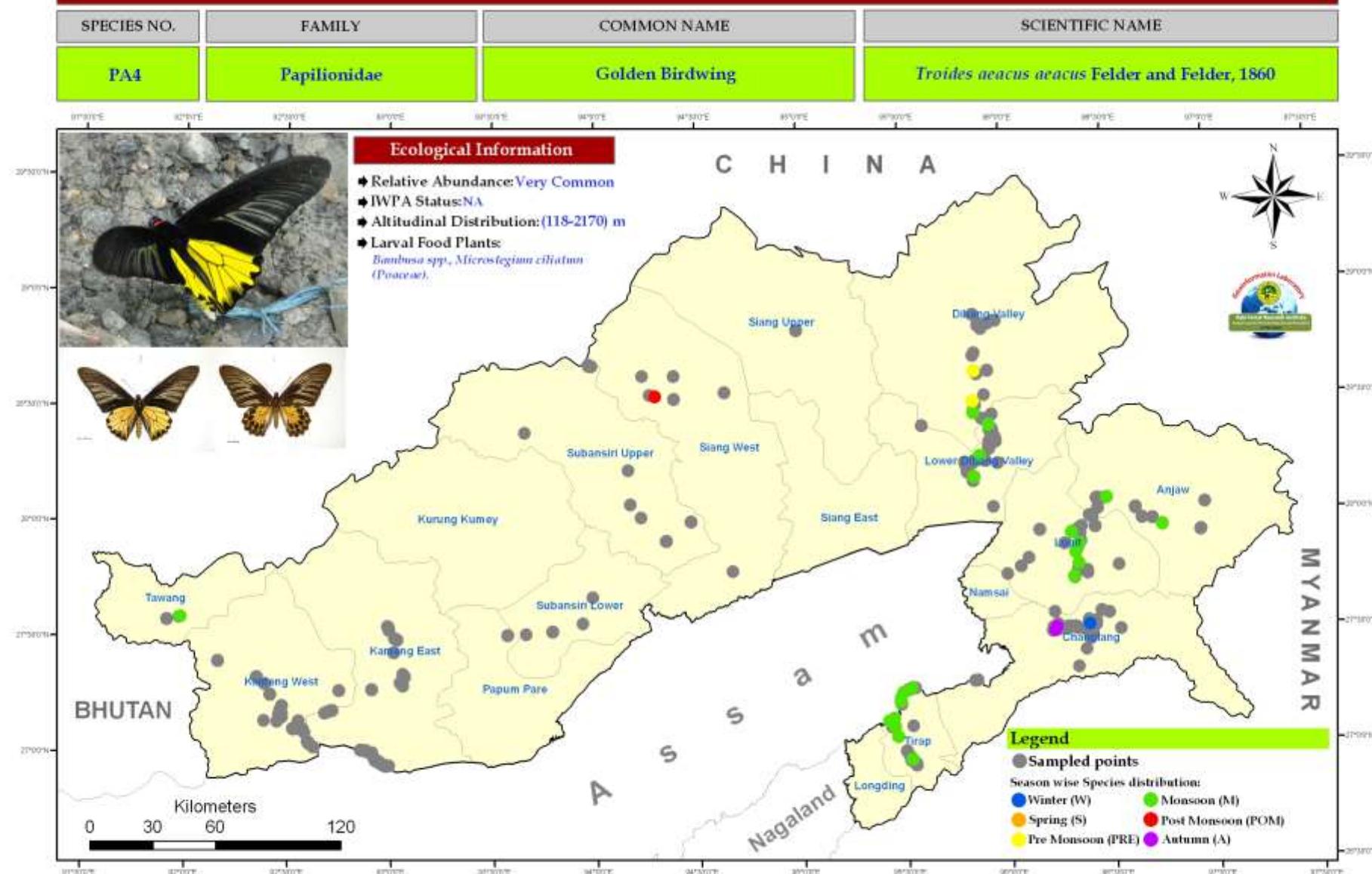
SPECIES NO.	FAMILY	COMMON NAME	SCIENTIFIC NAME
PA2	Papilionidae	Green Dragontail	<i>Lamproptera meges indistincta</i> Tytler, 1912



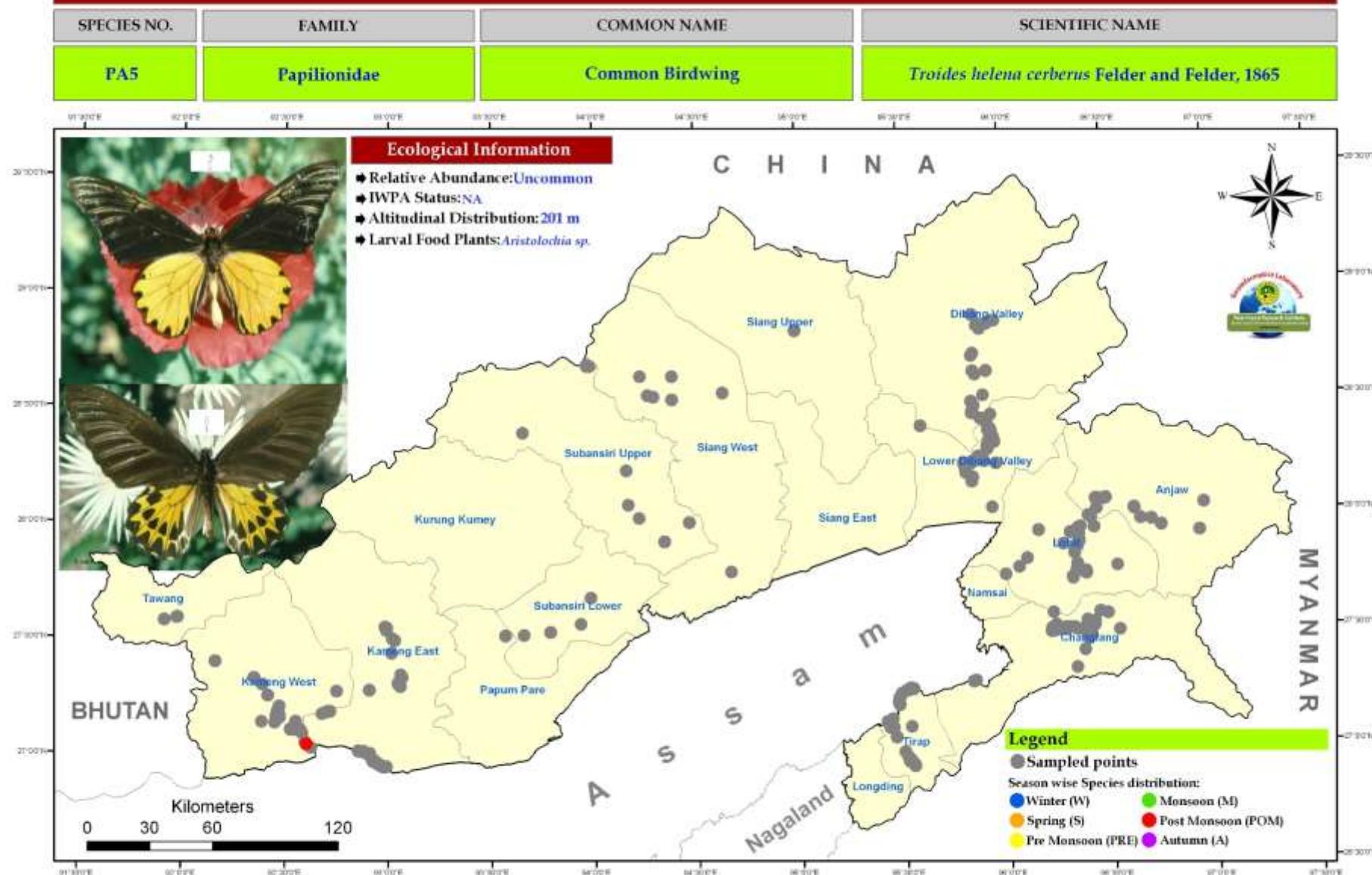
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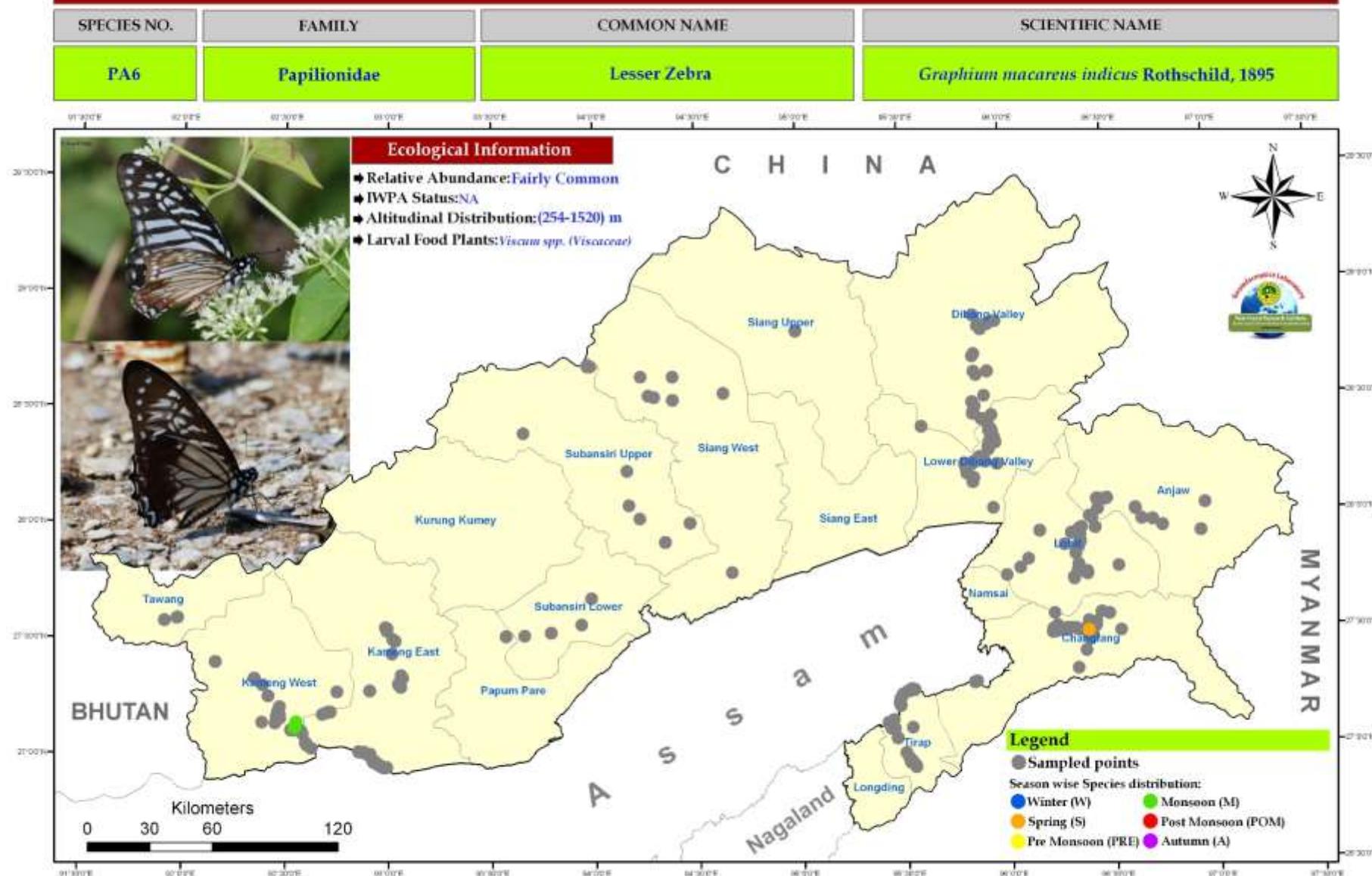
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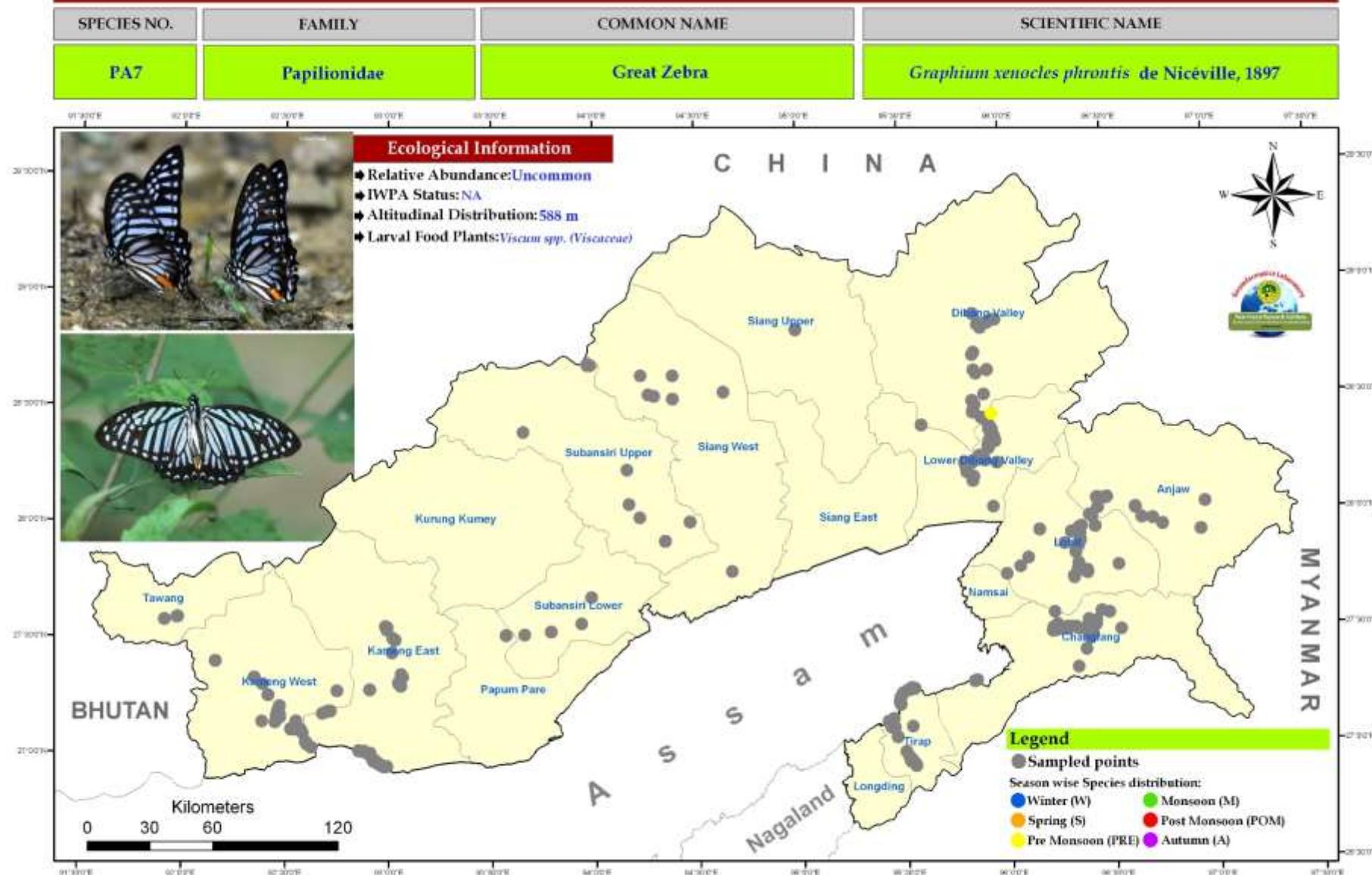
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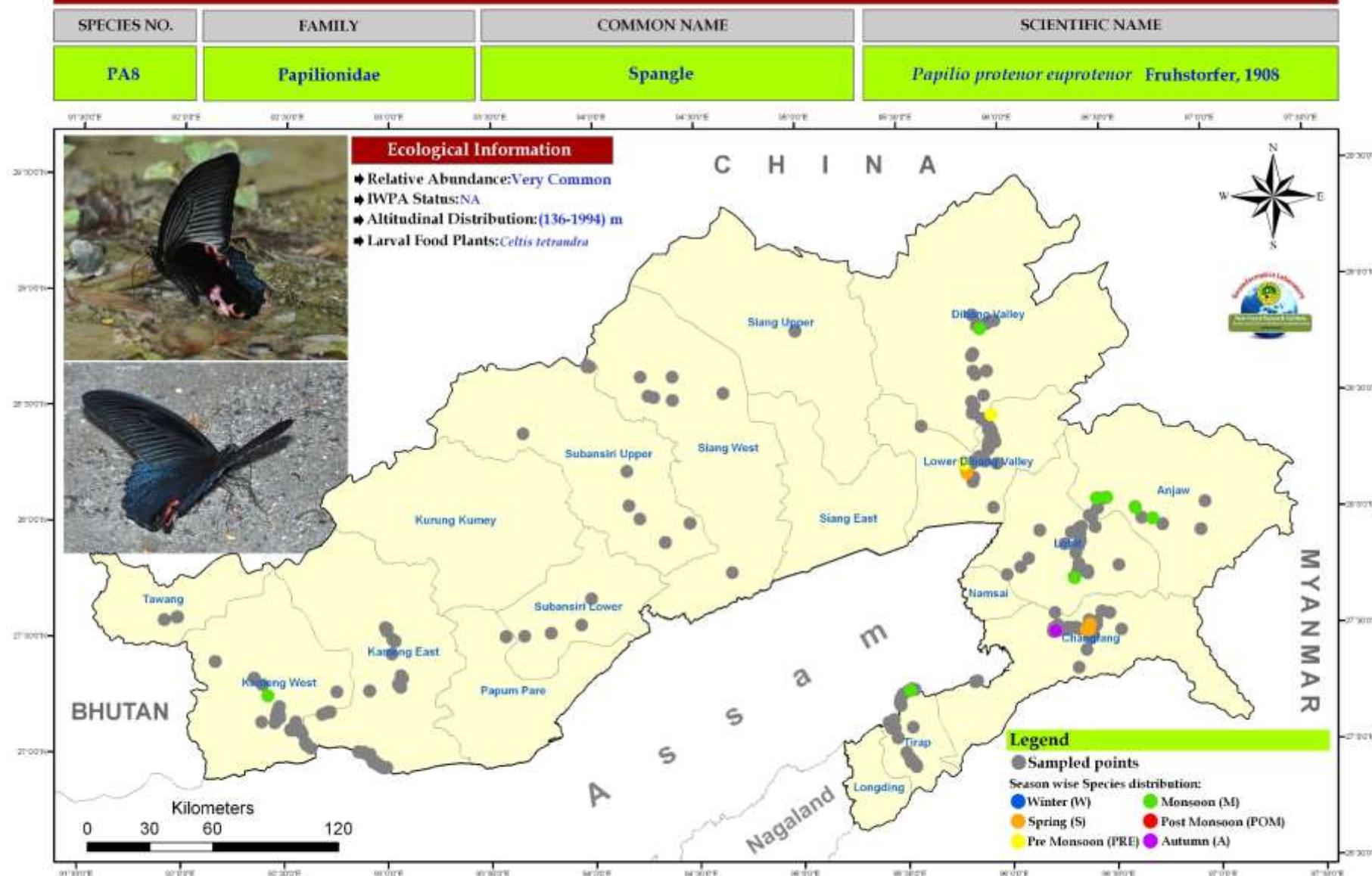
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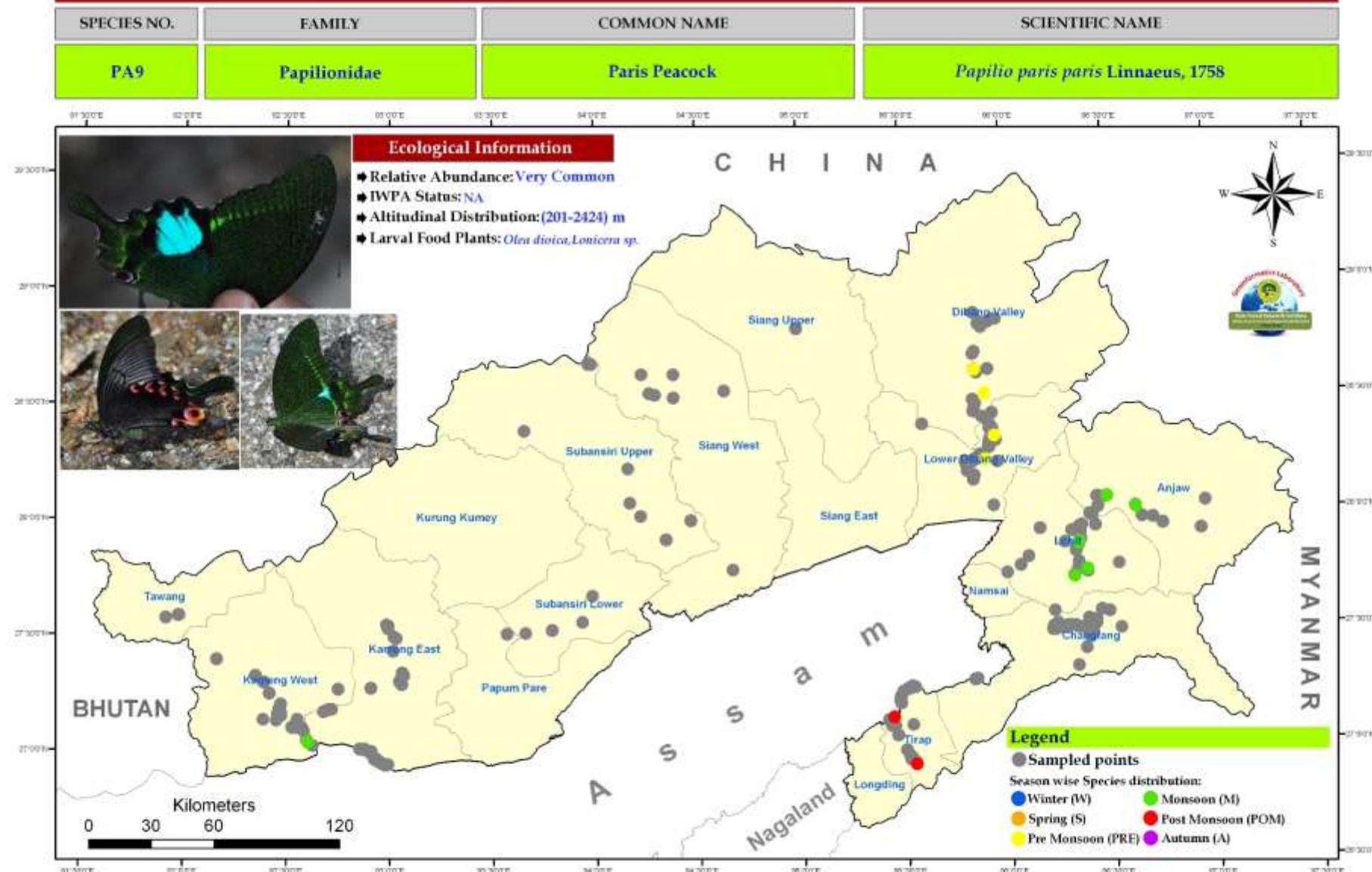
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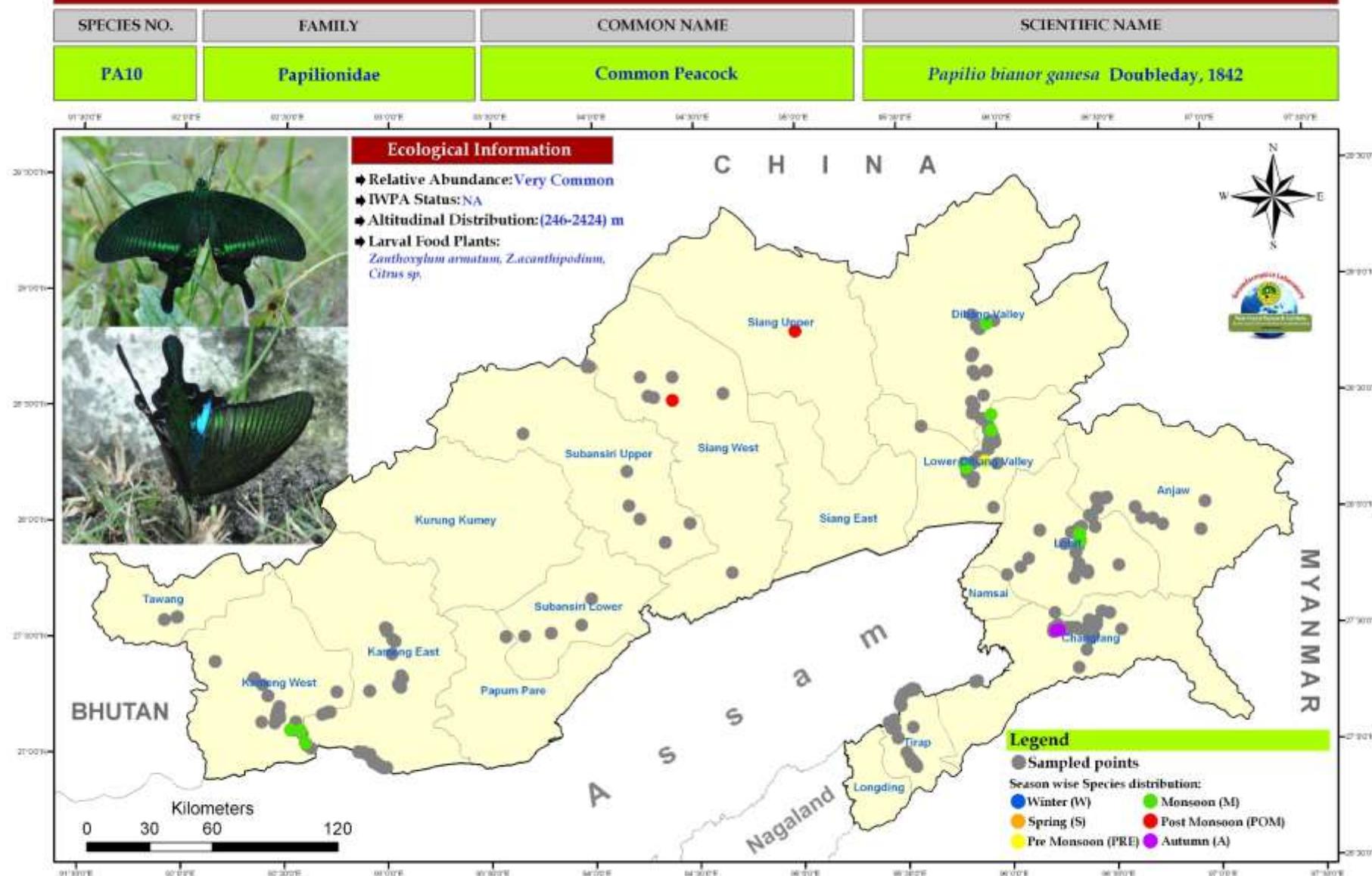
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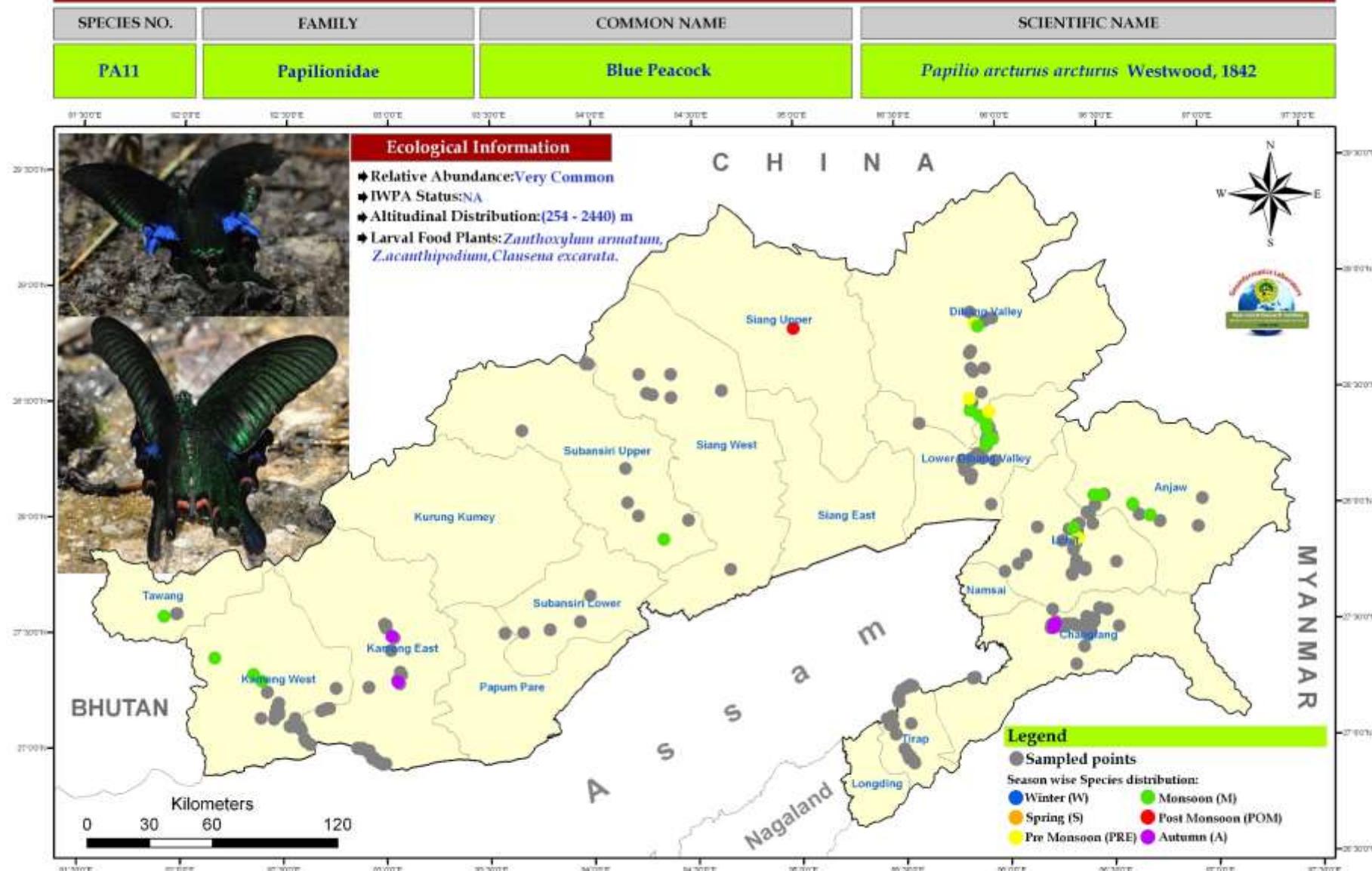
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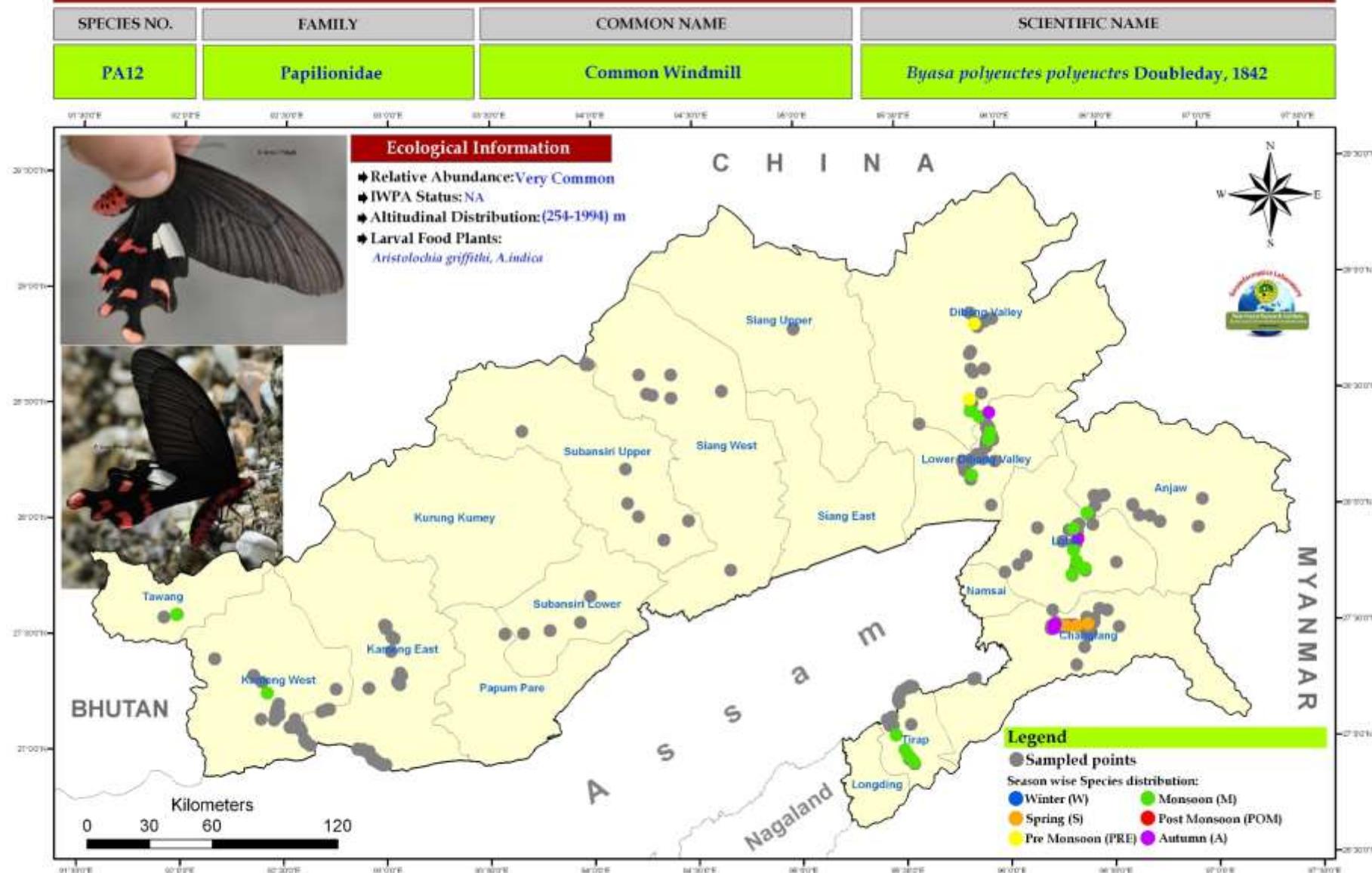
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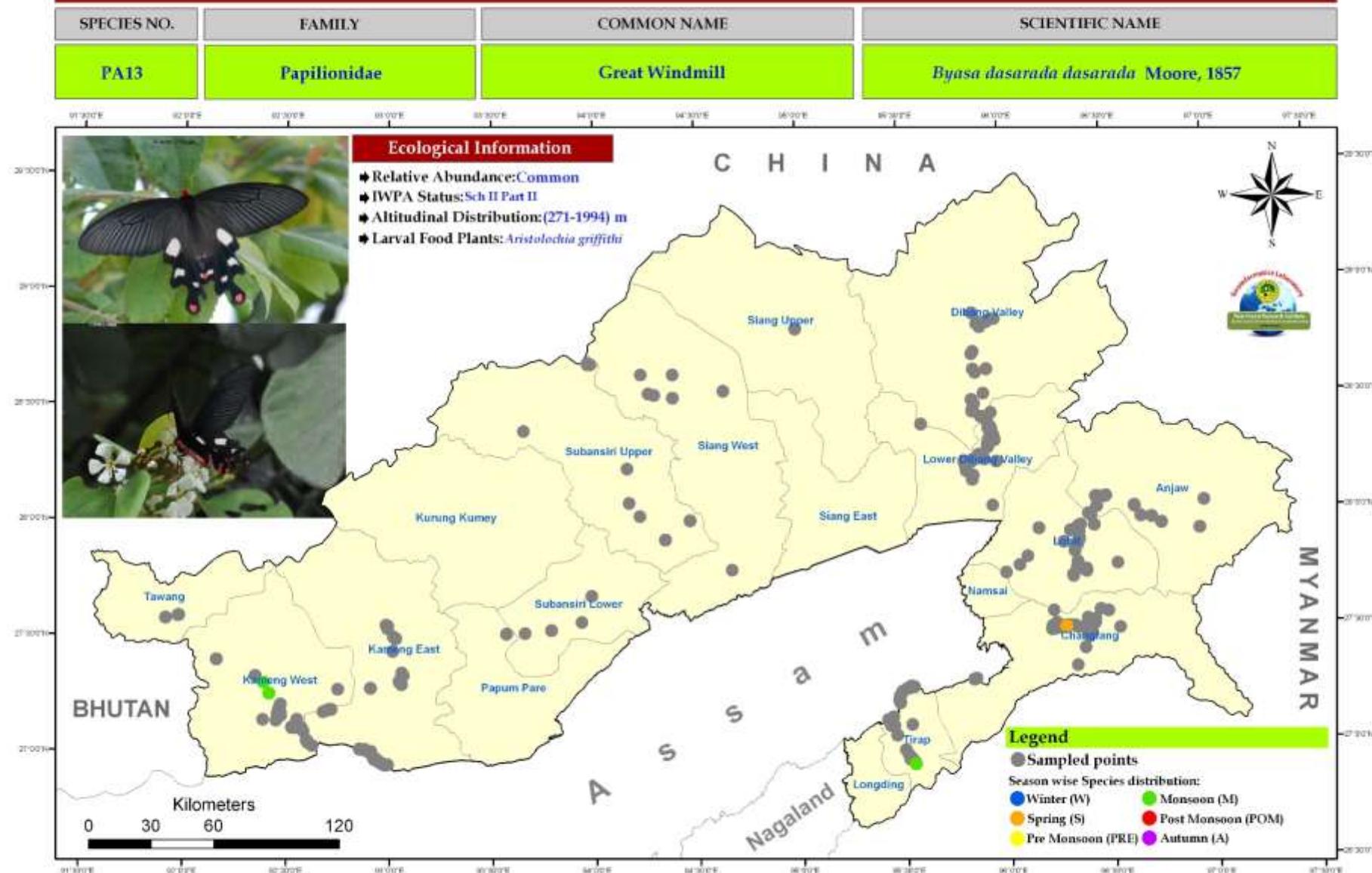
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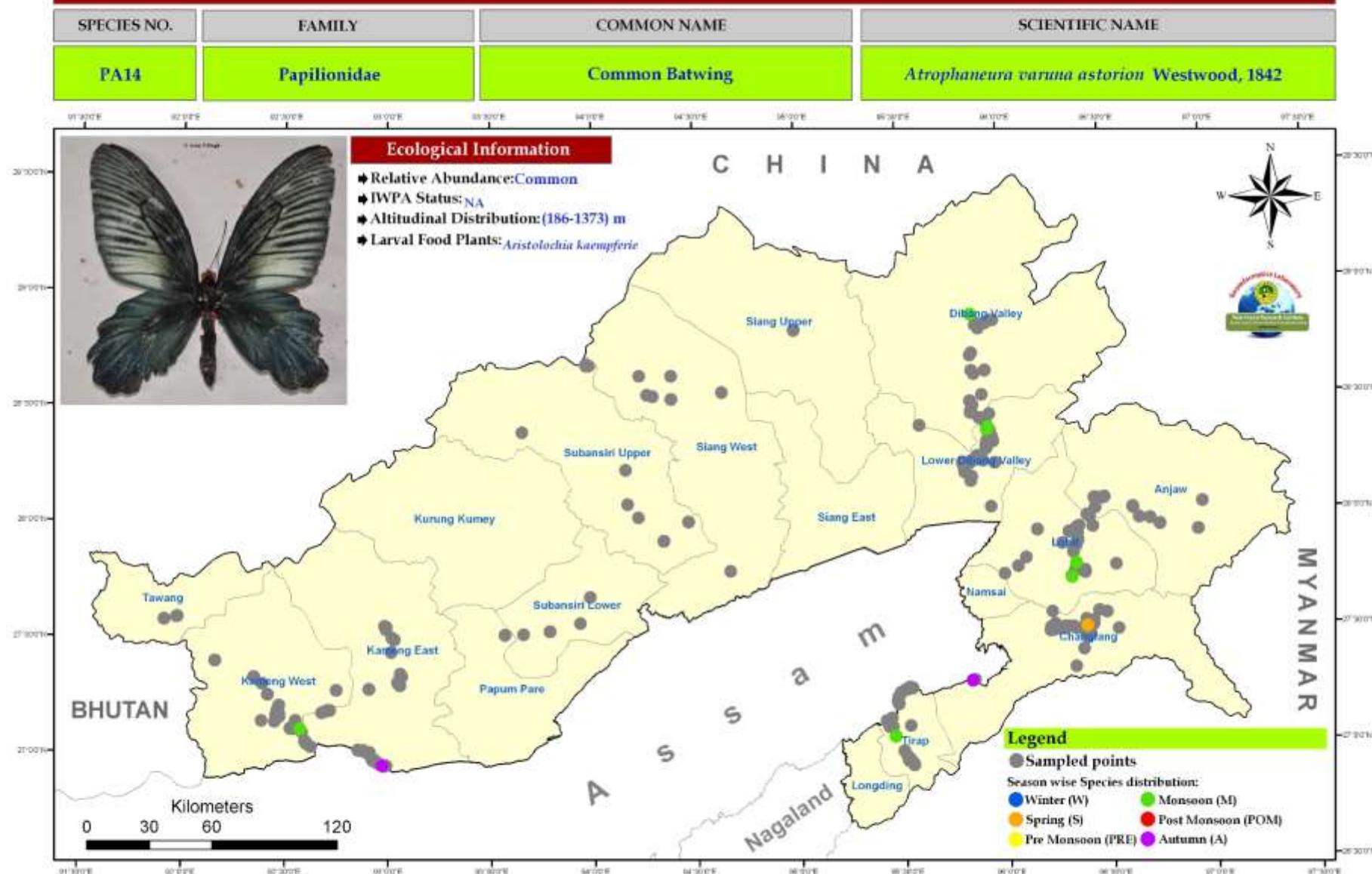
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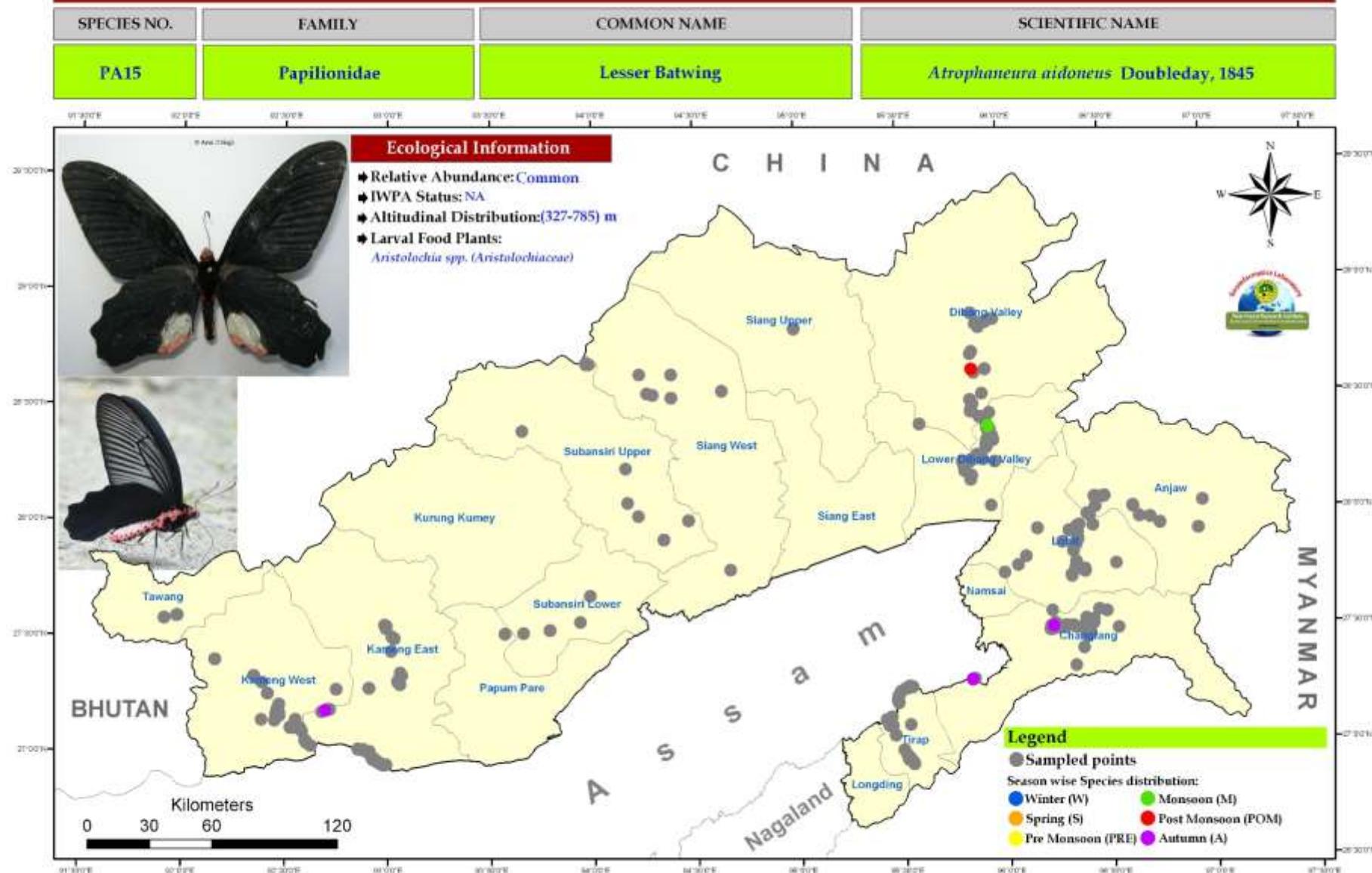
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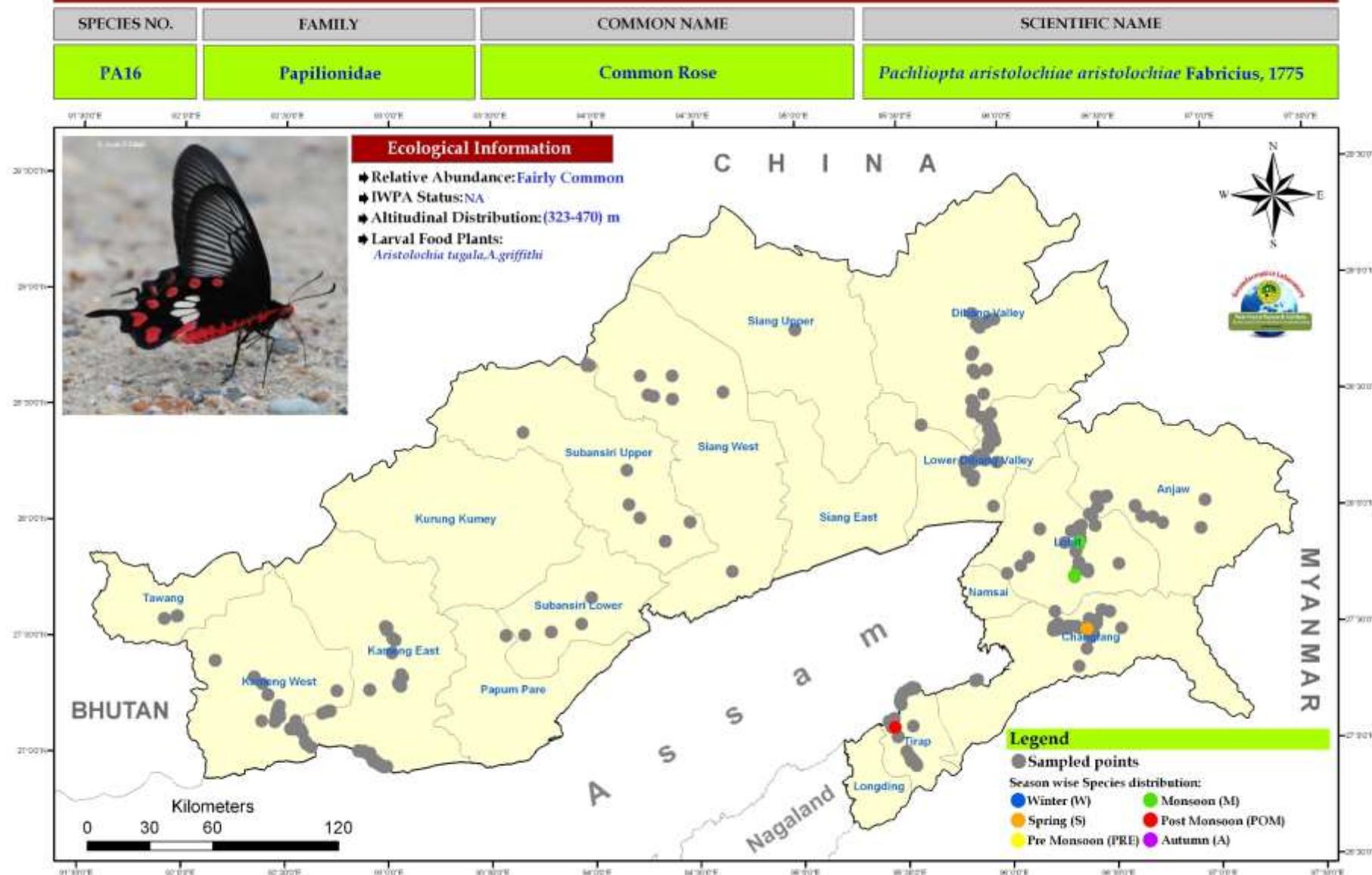
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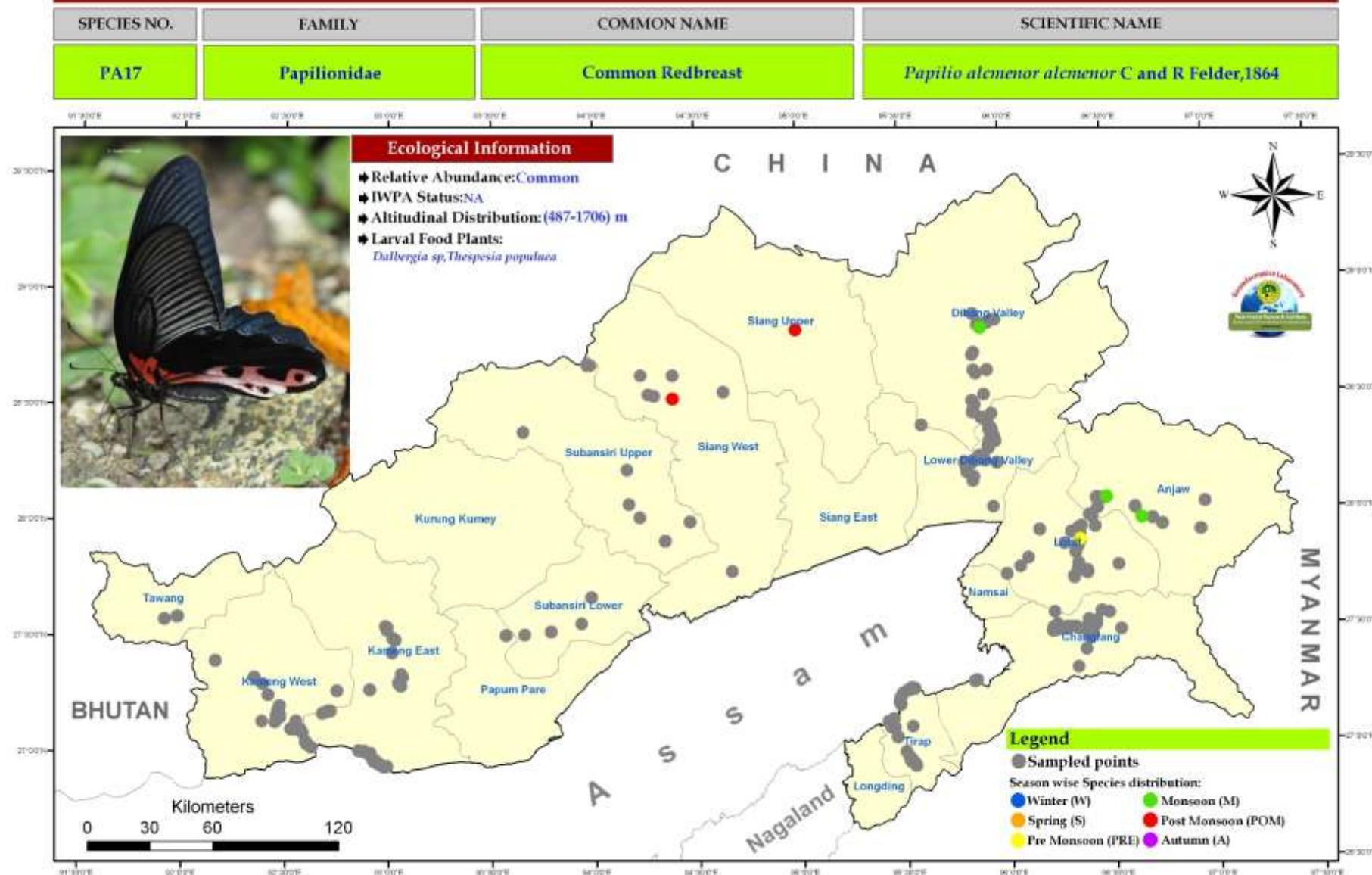
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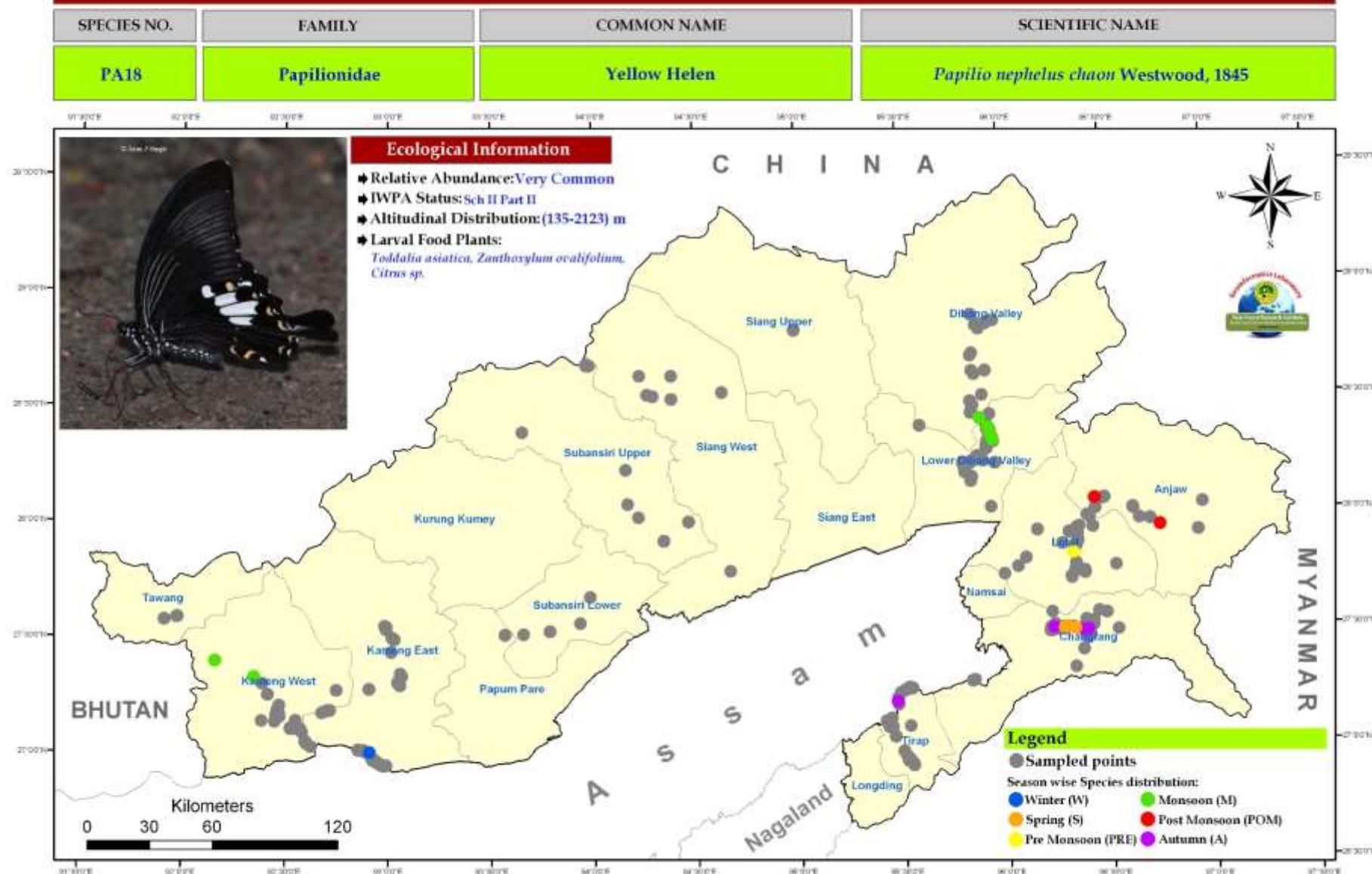
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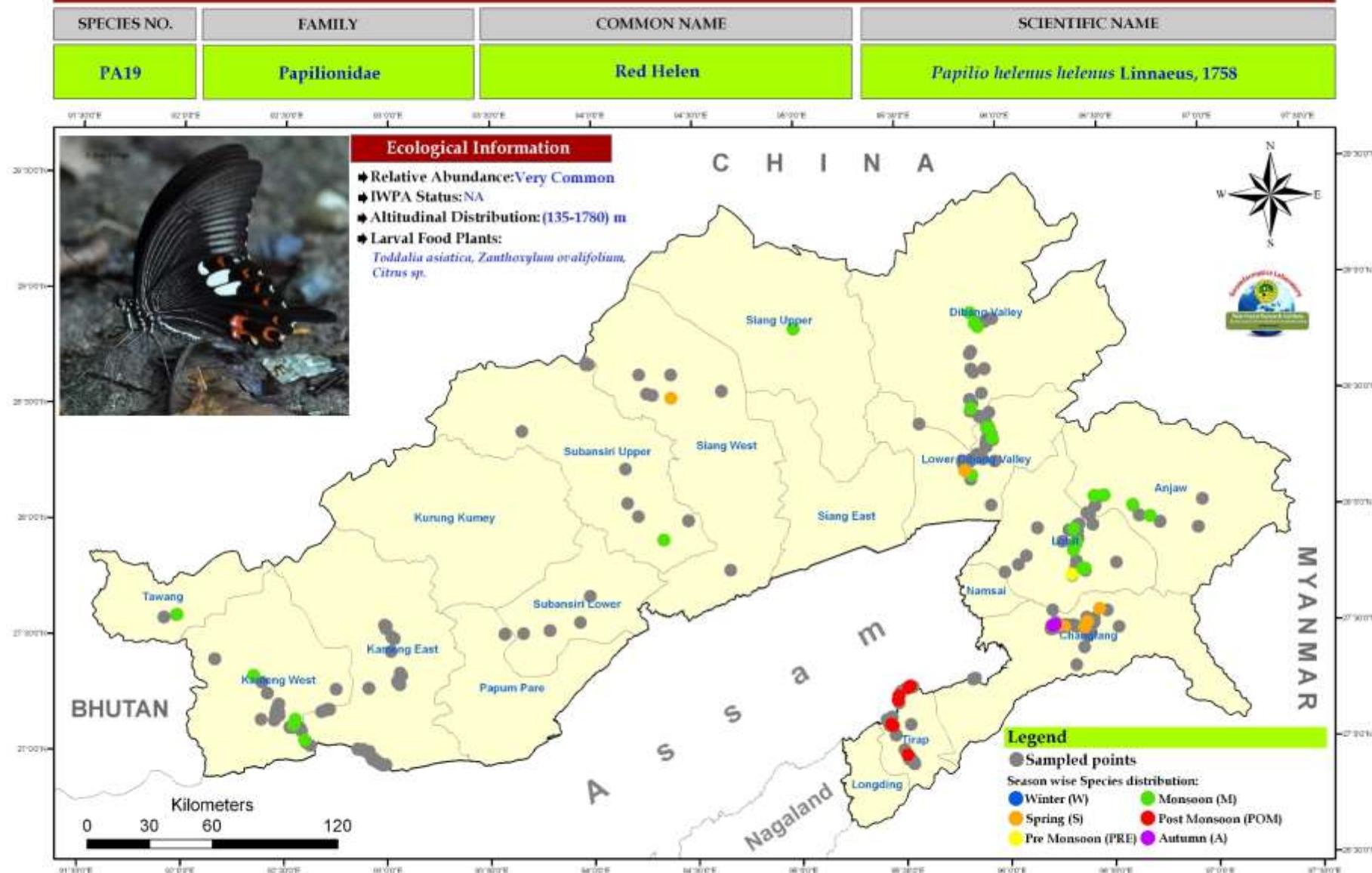
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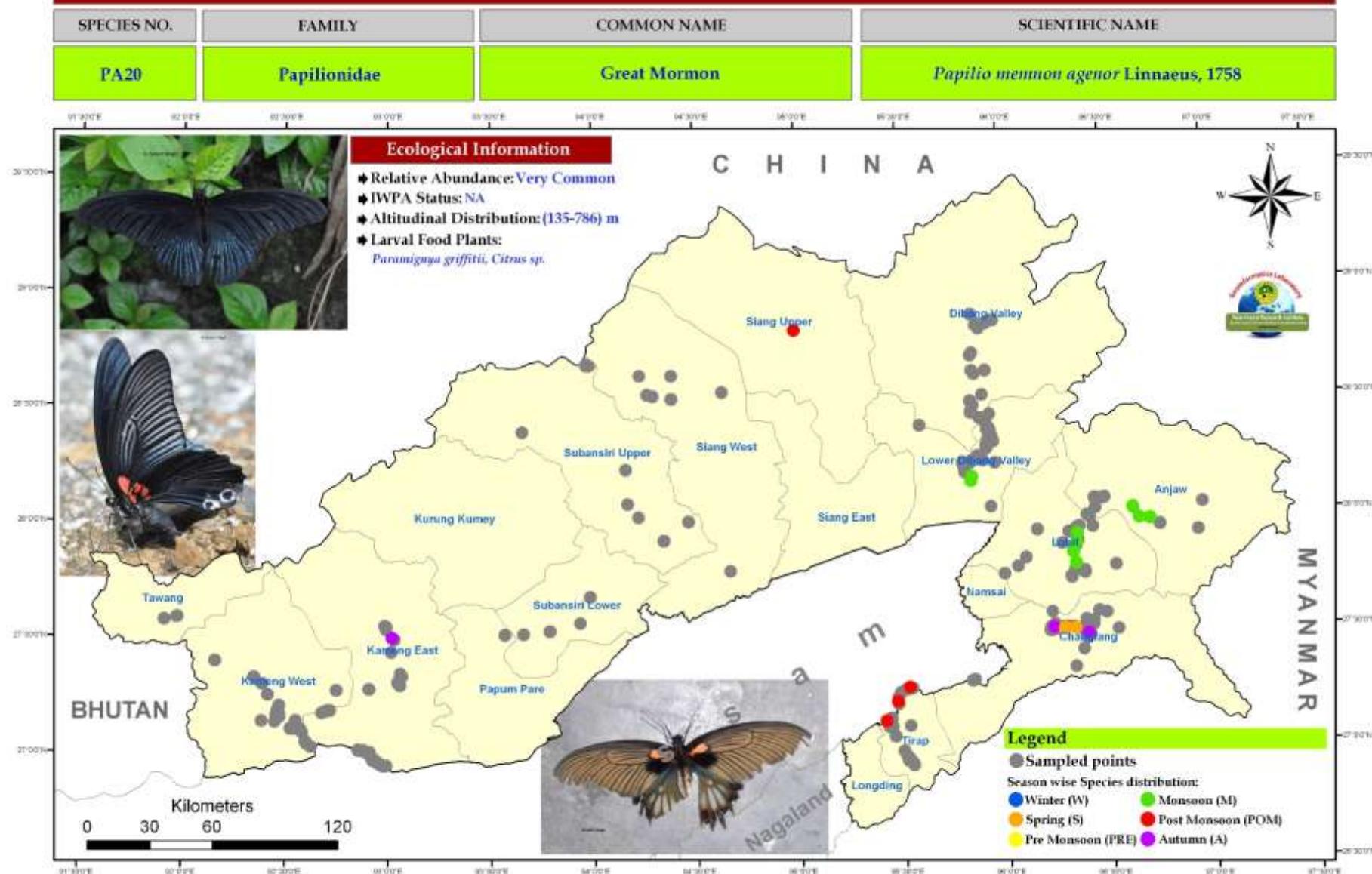
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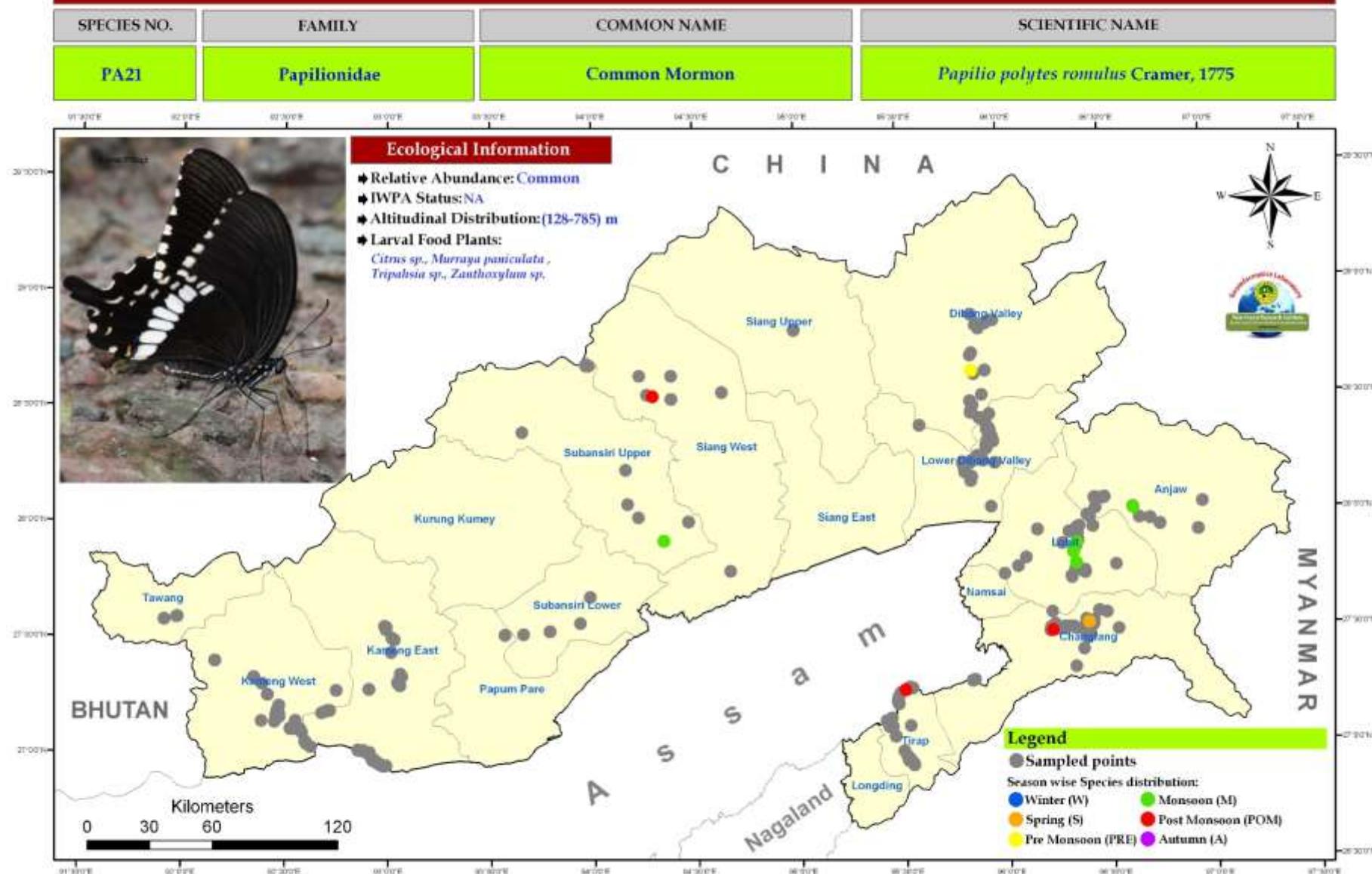
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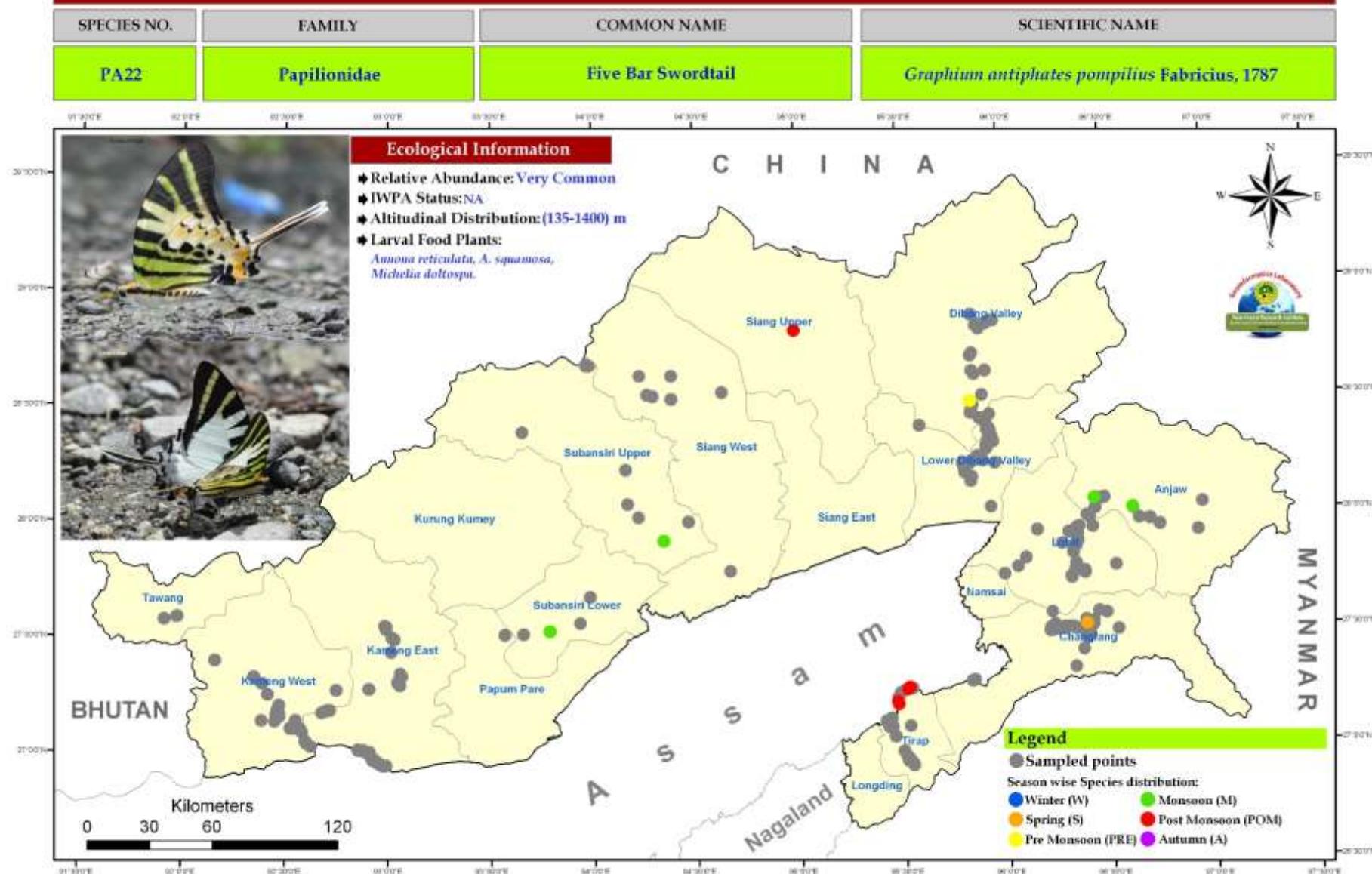
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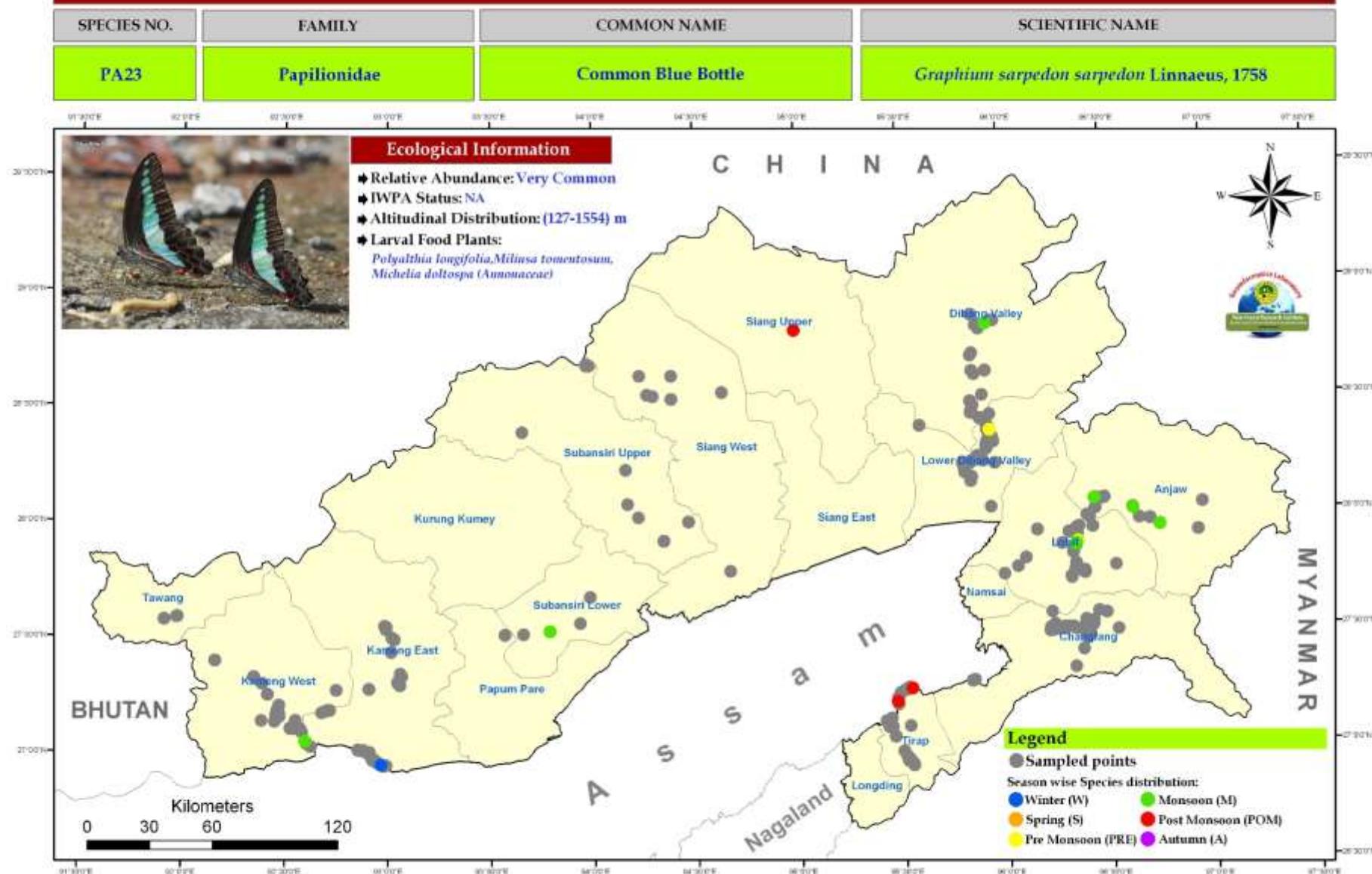
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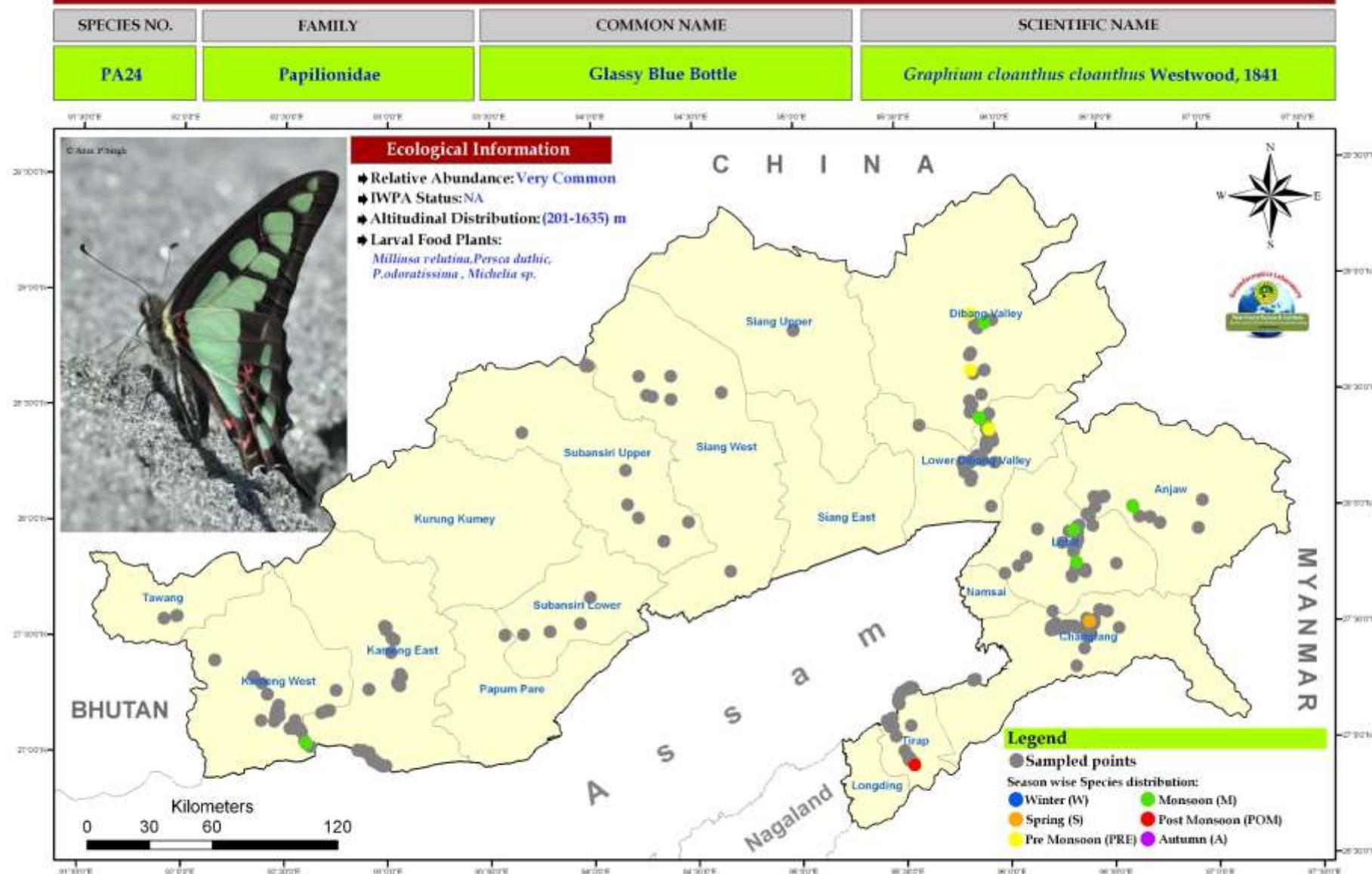
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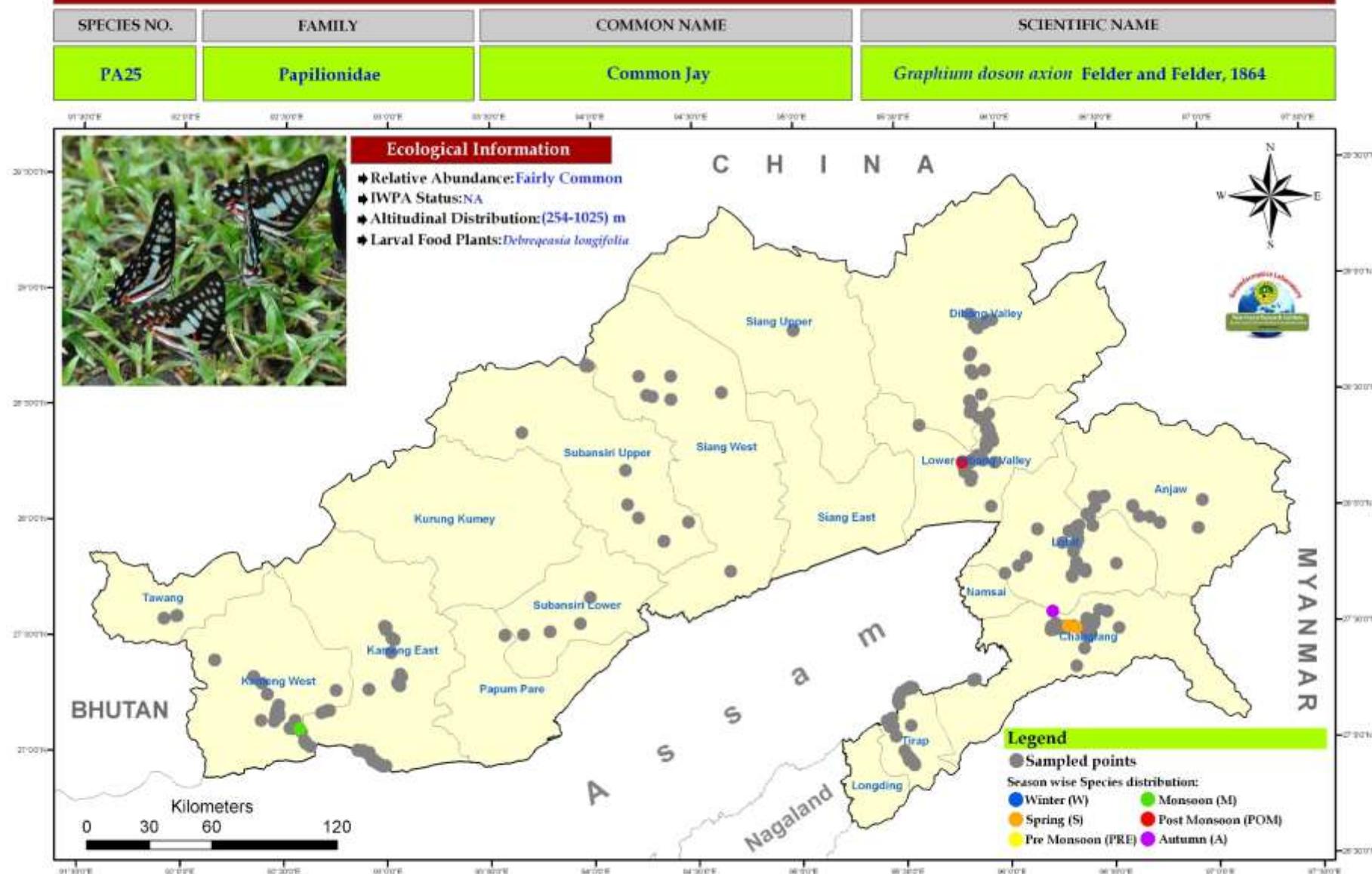
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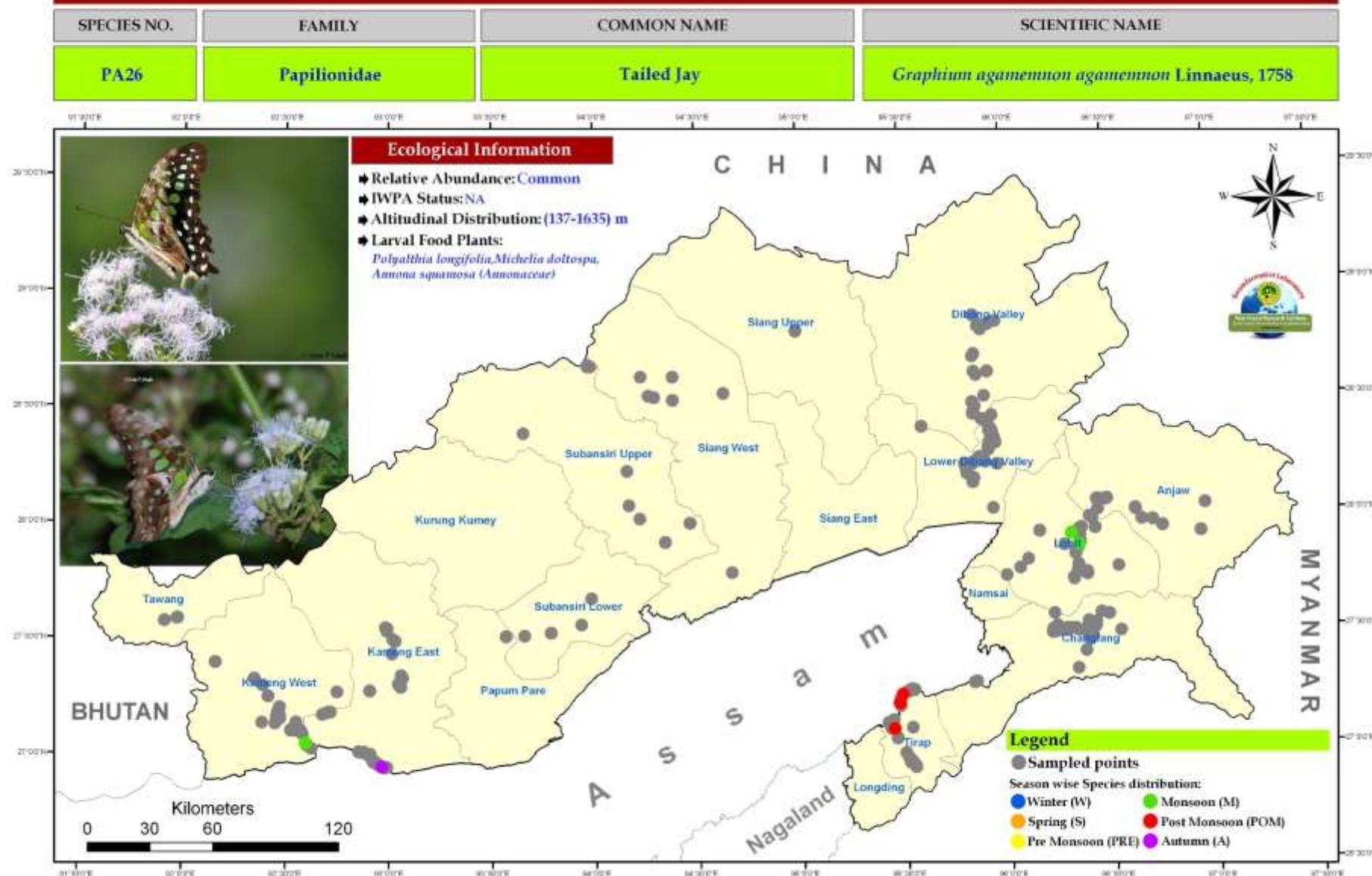
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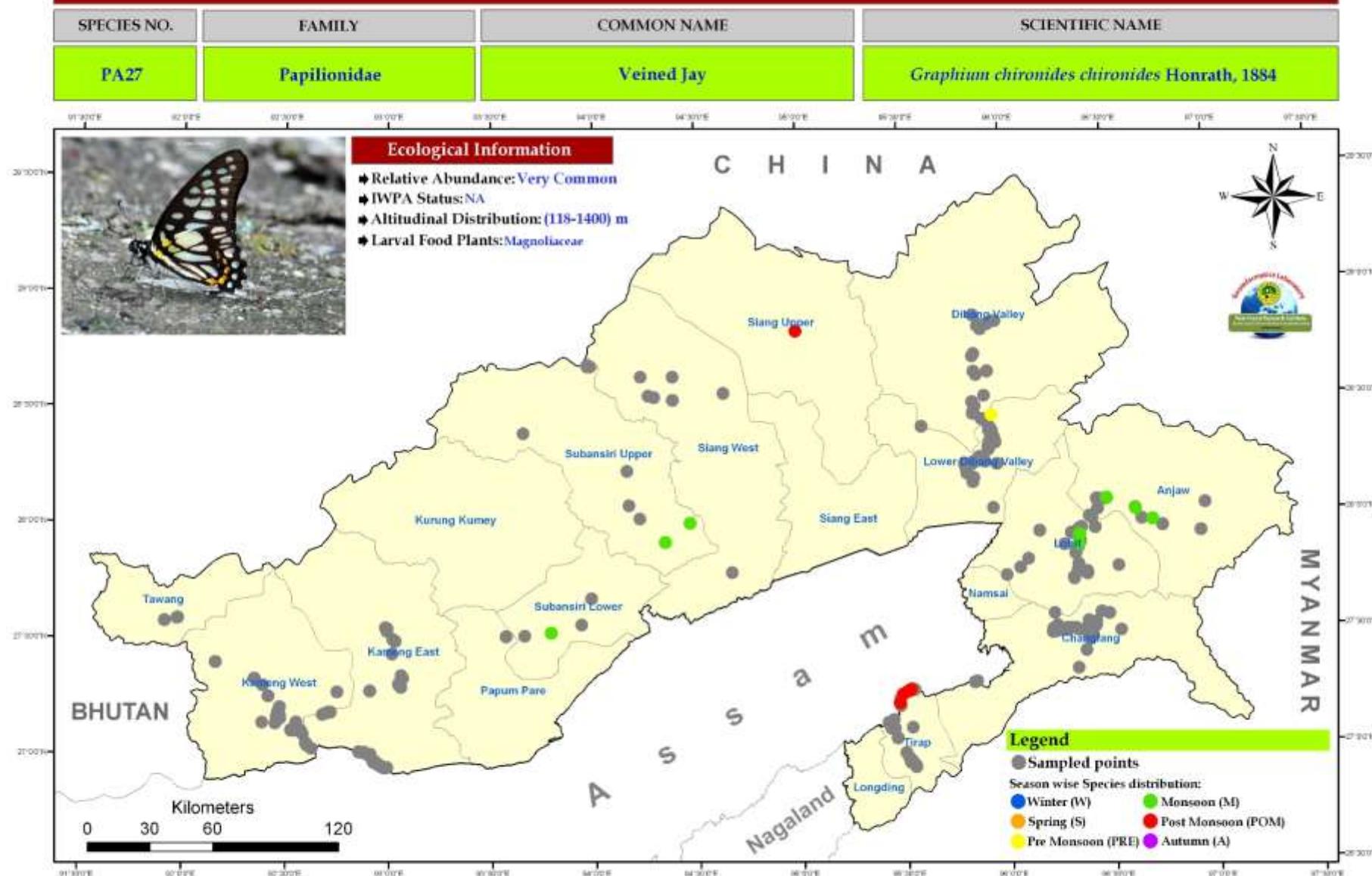
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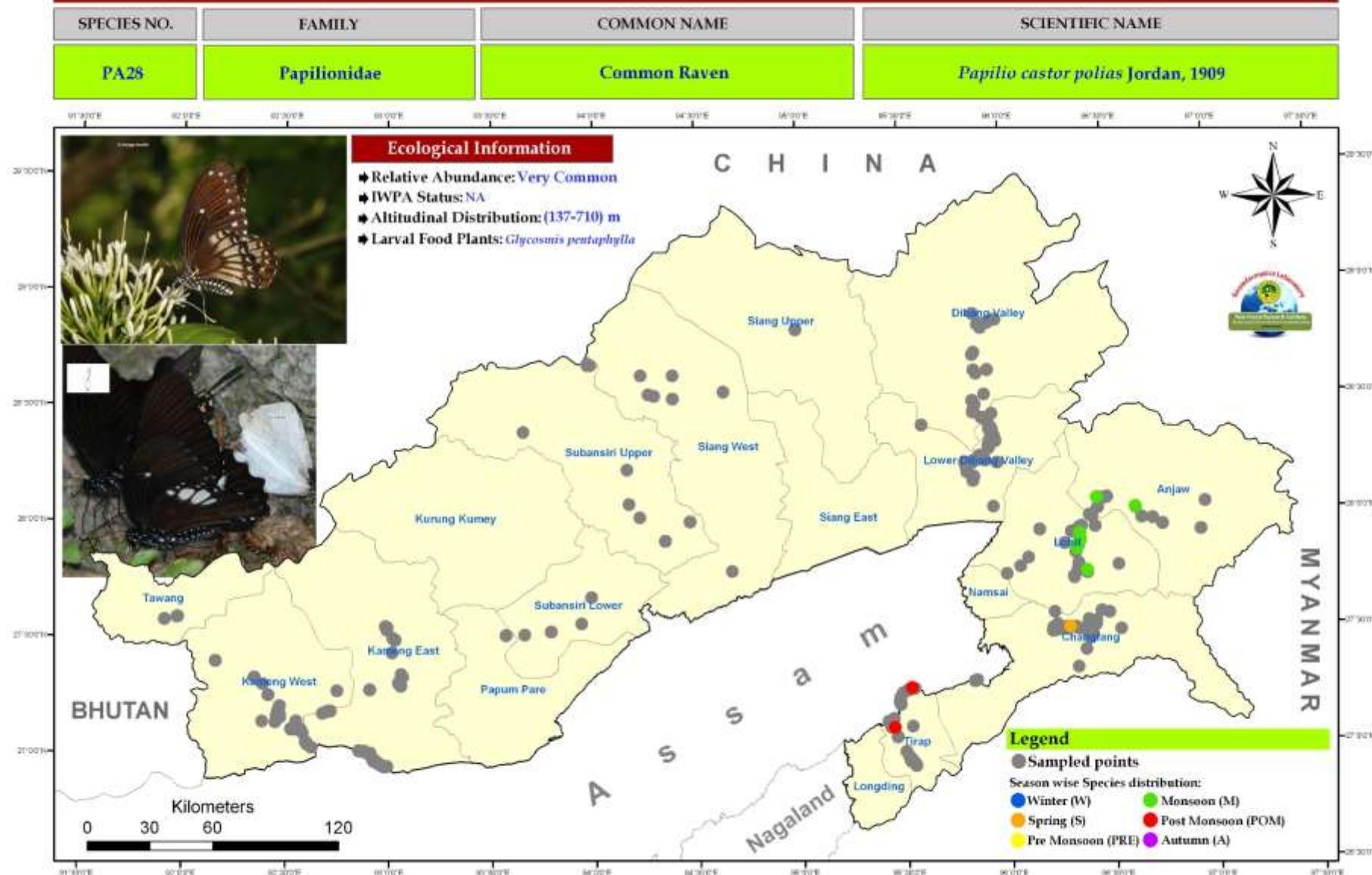
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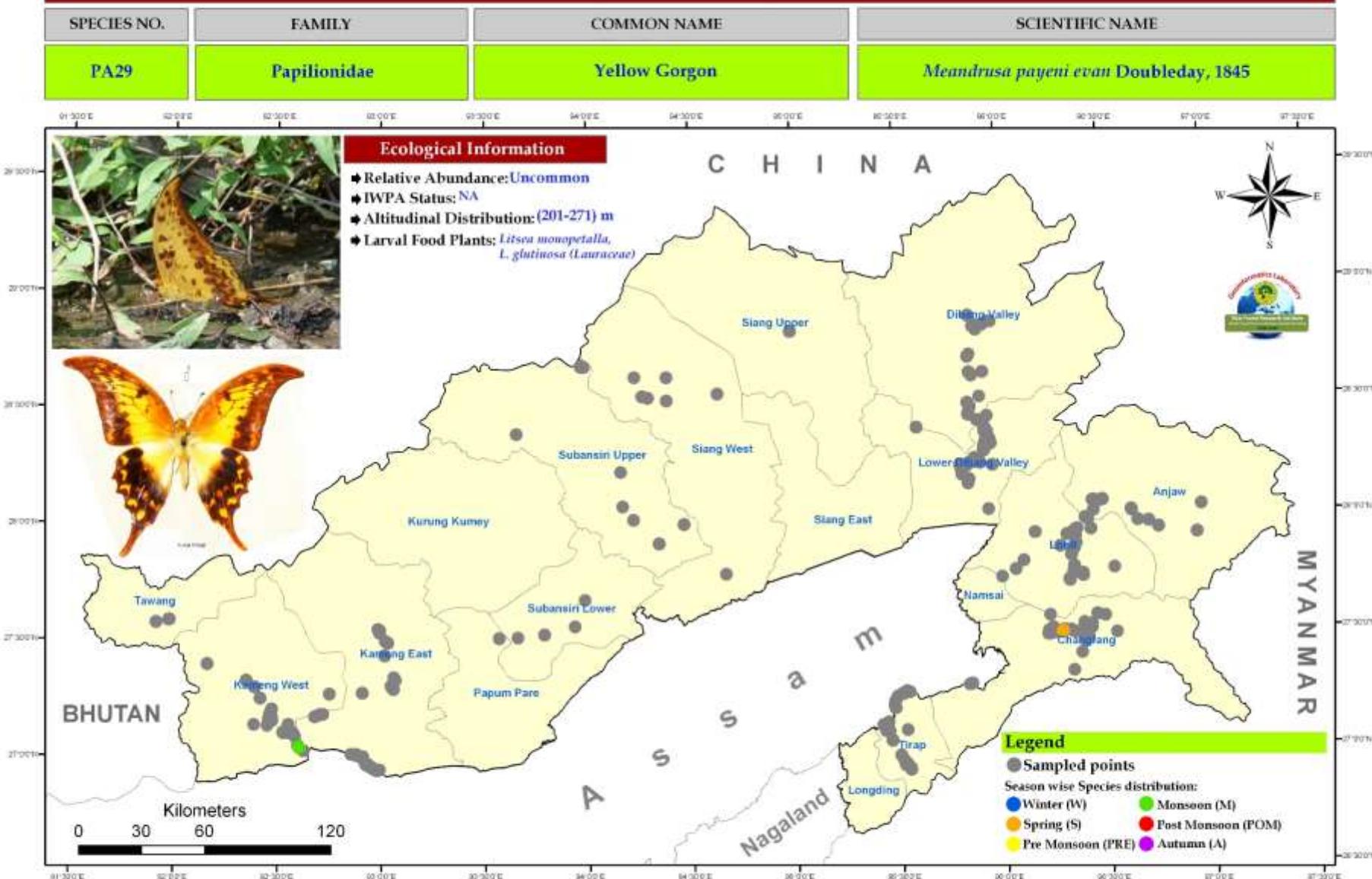
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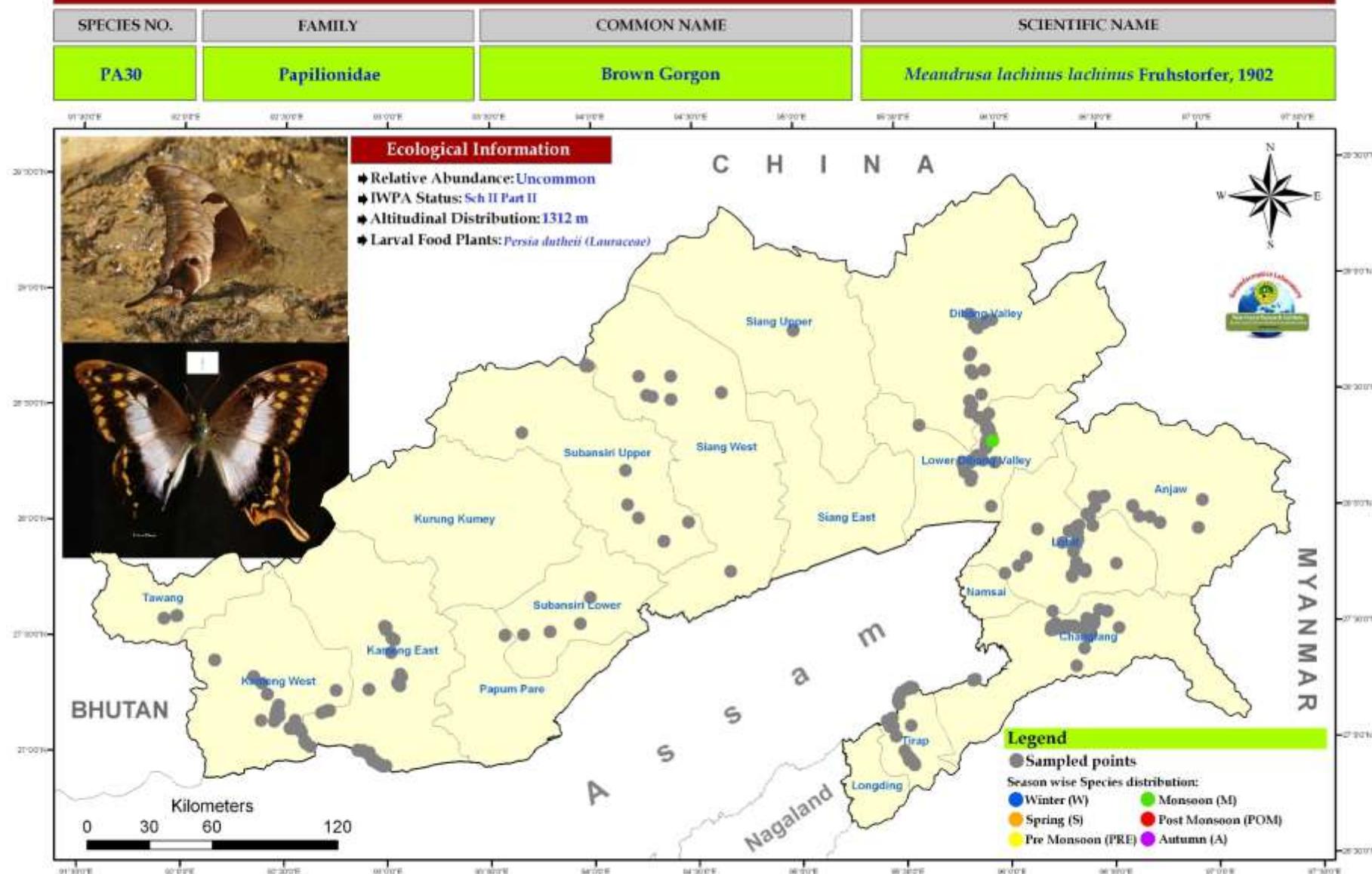
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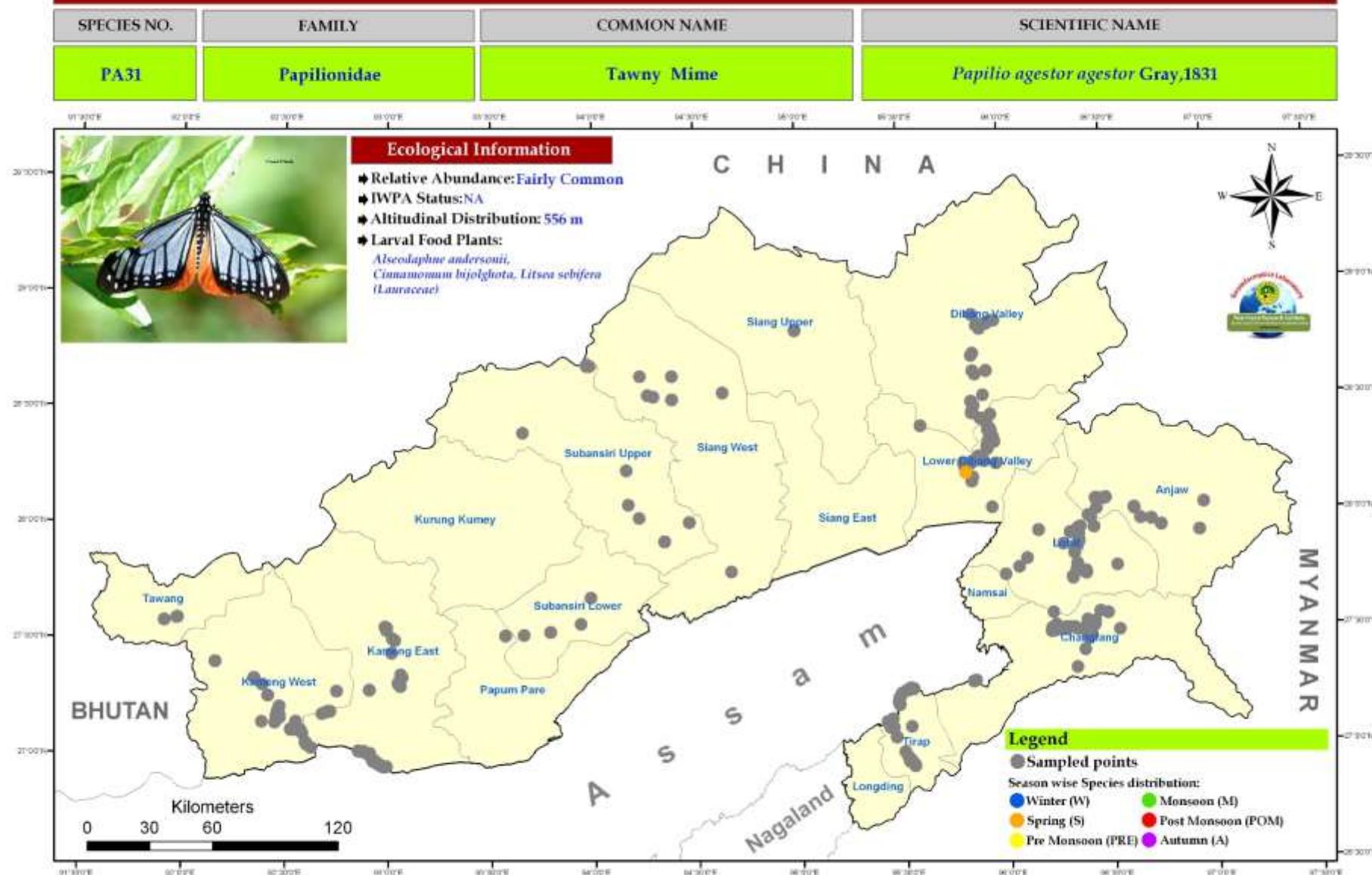
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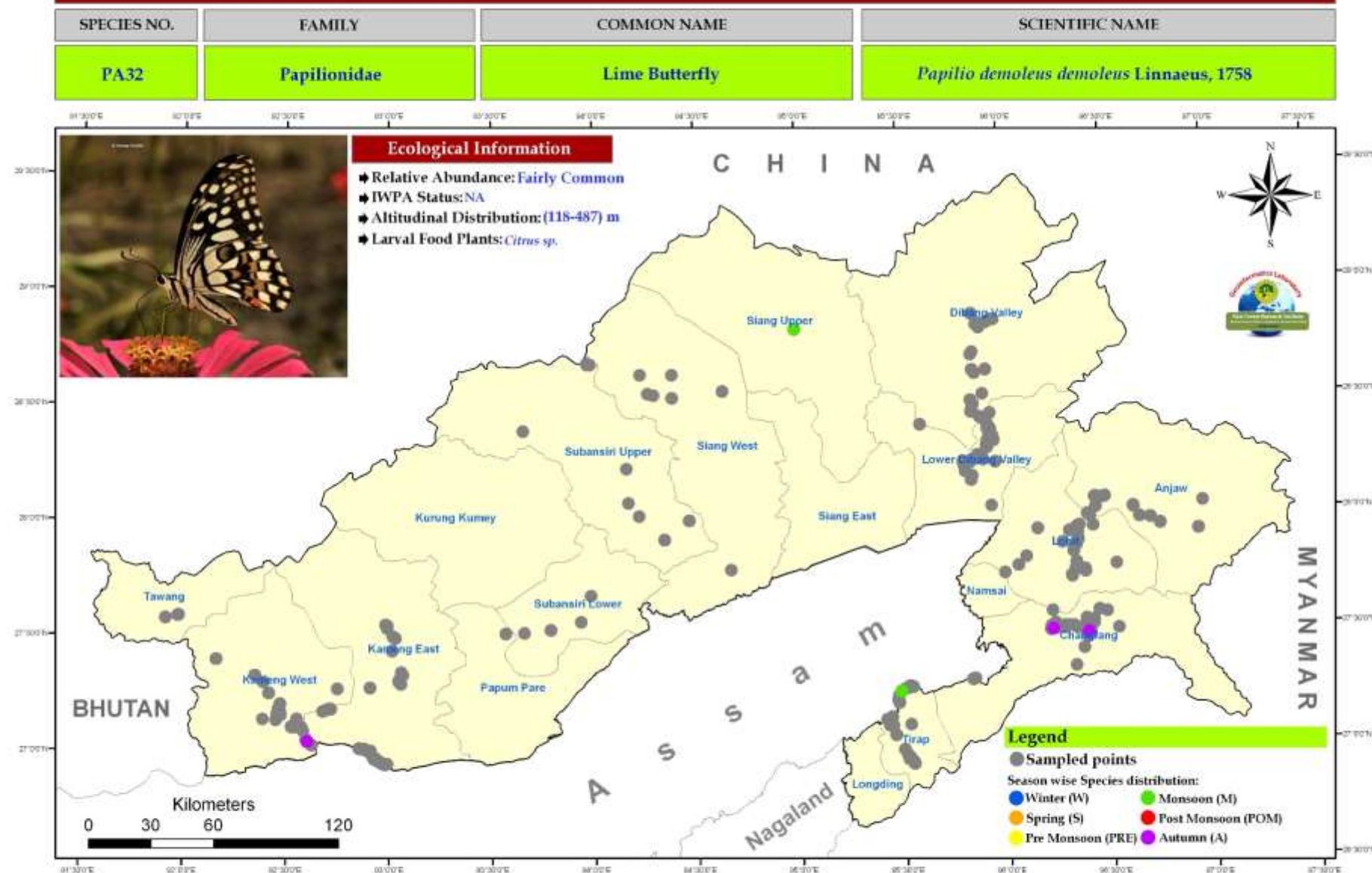
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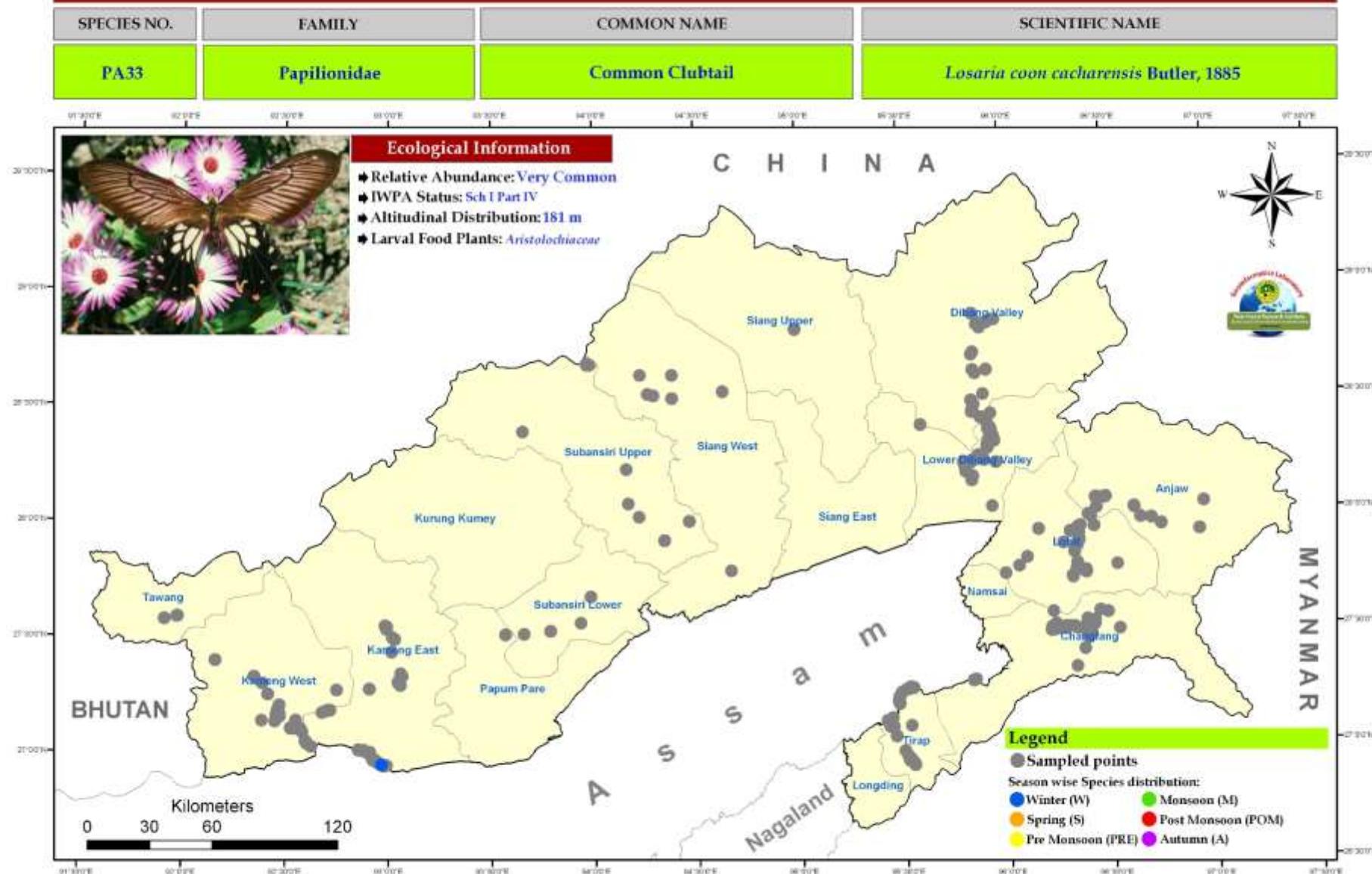
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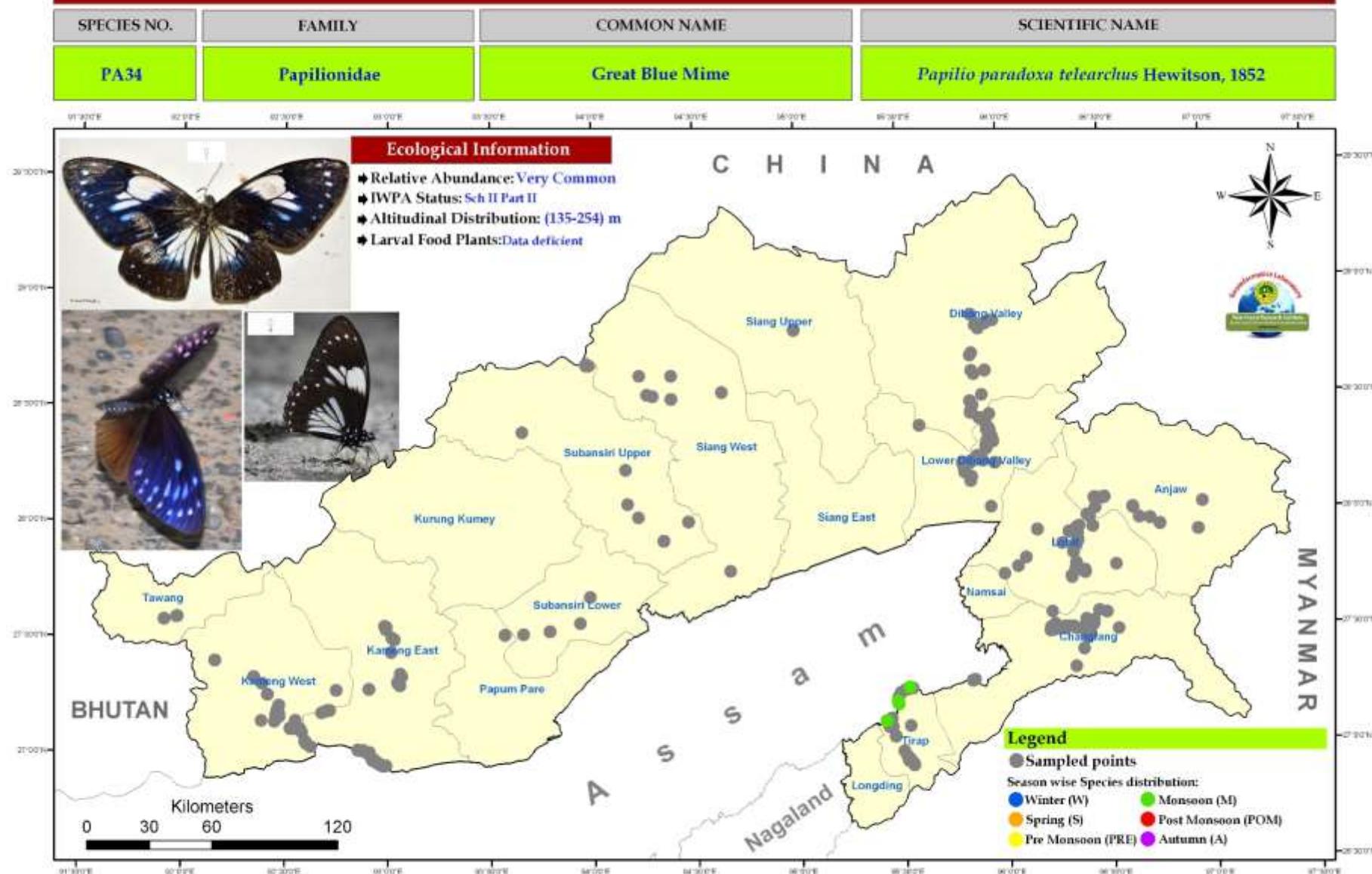
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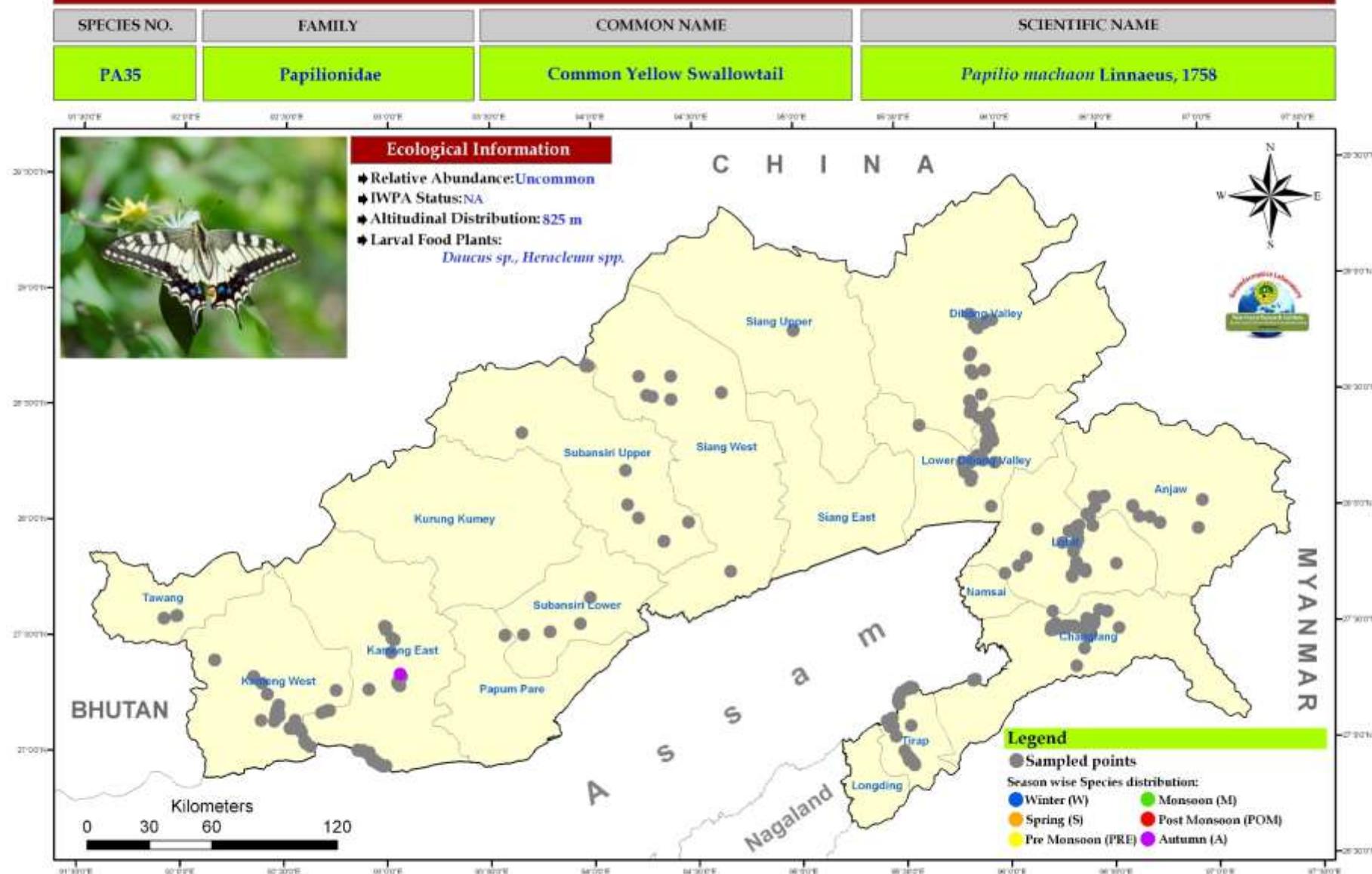
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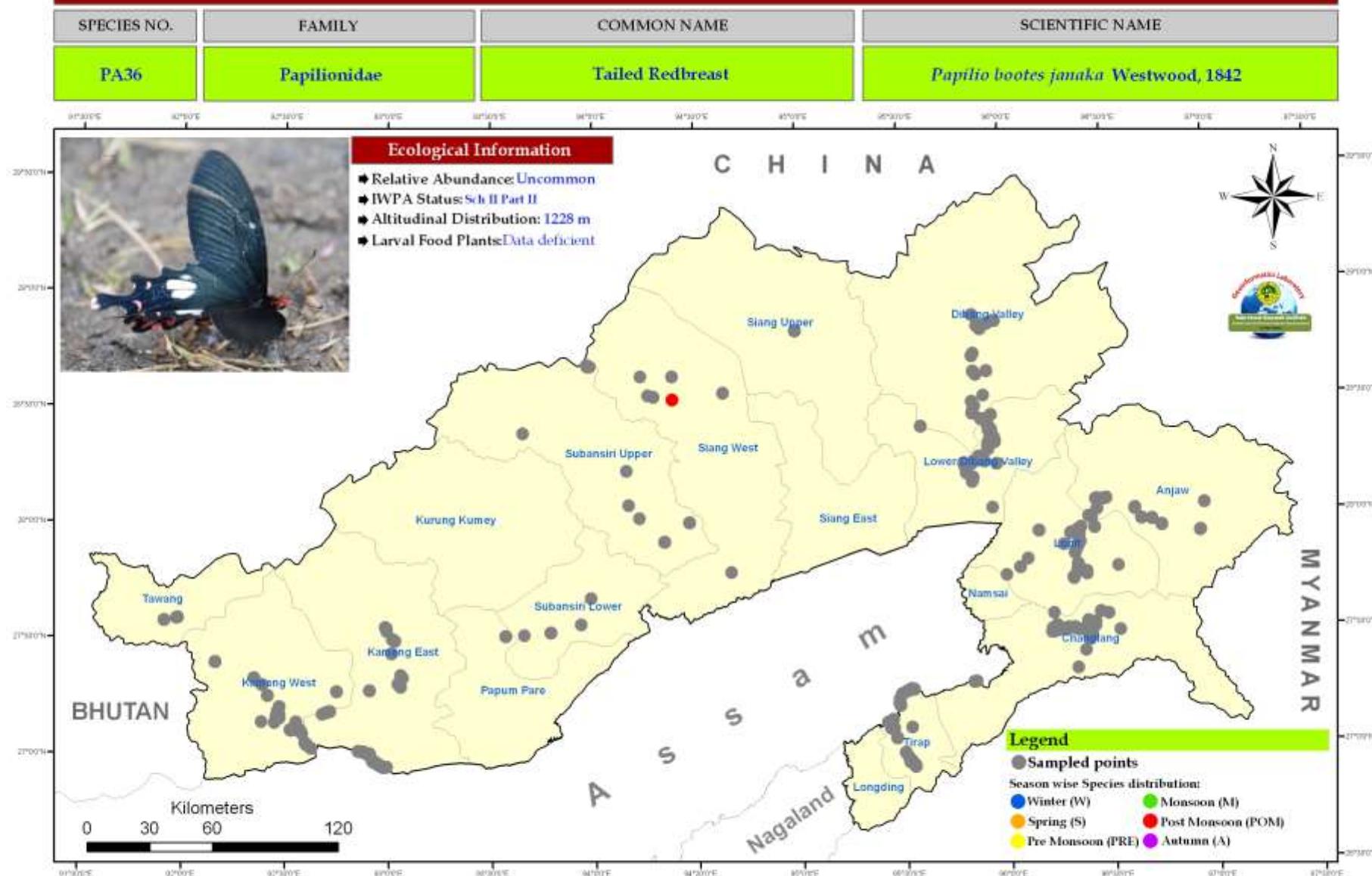
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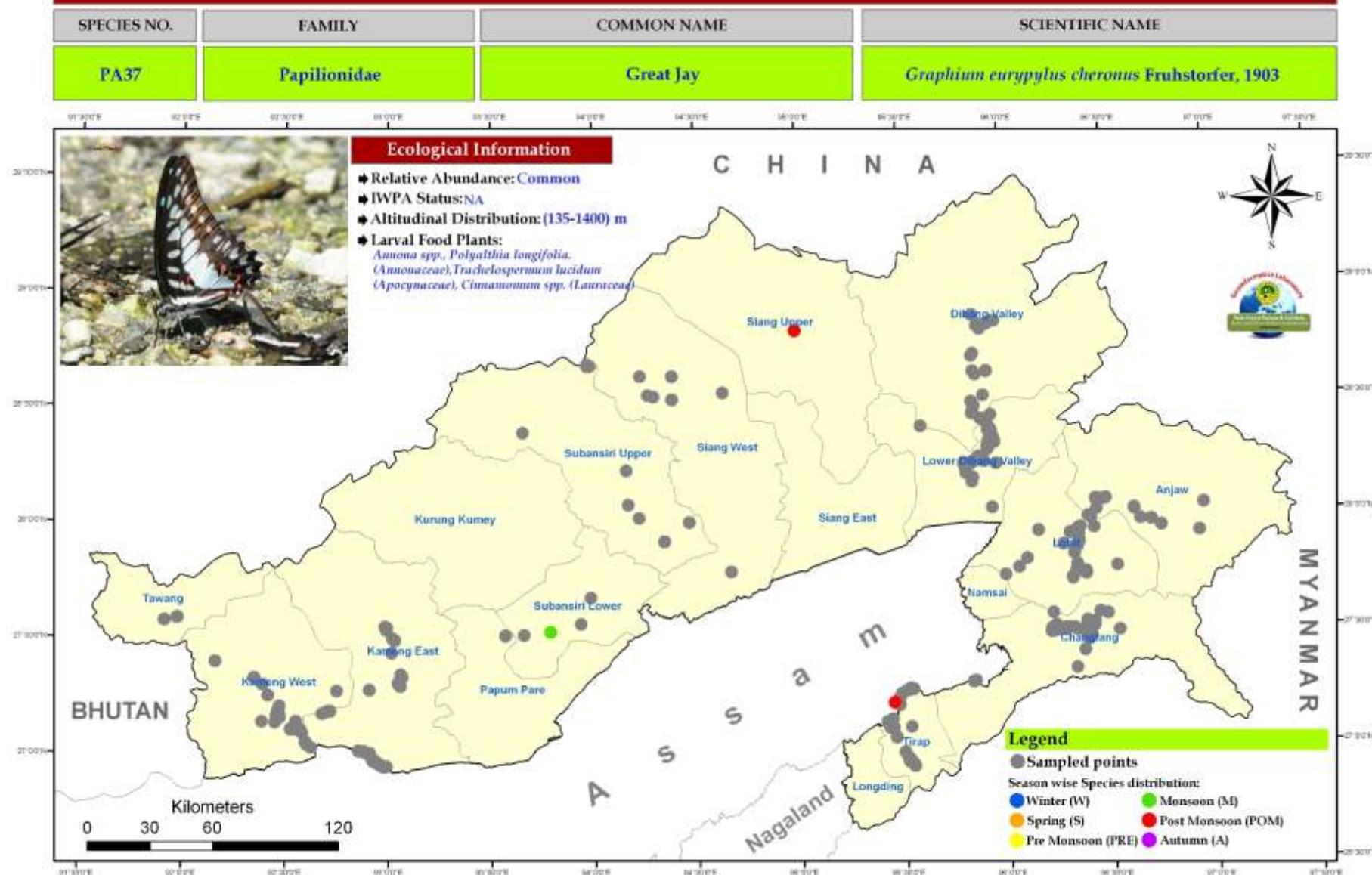
SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA



SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA



SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA



Butterfly Distribution Maps

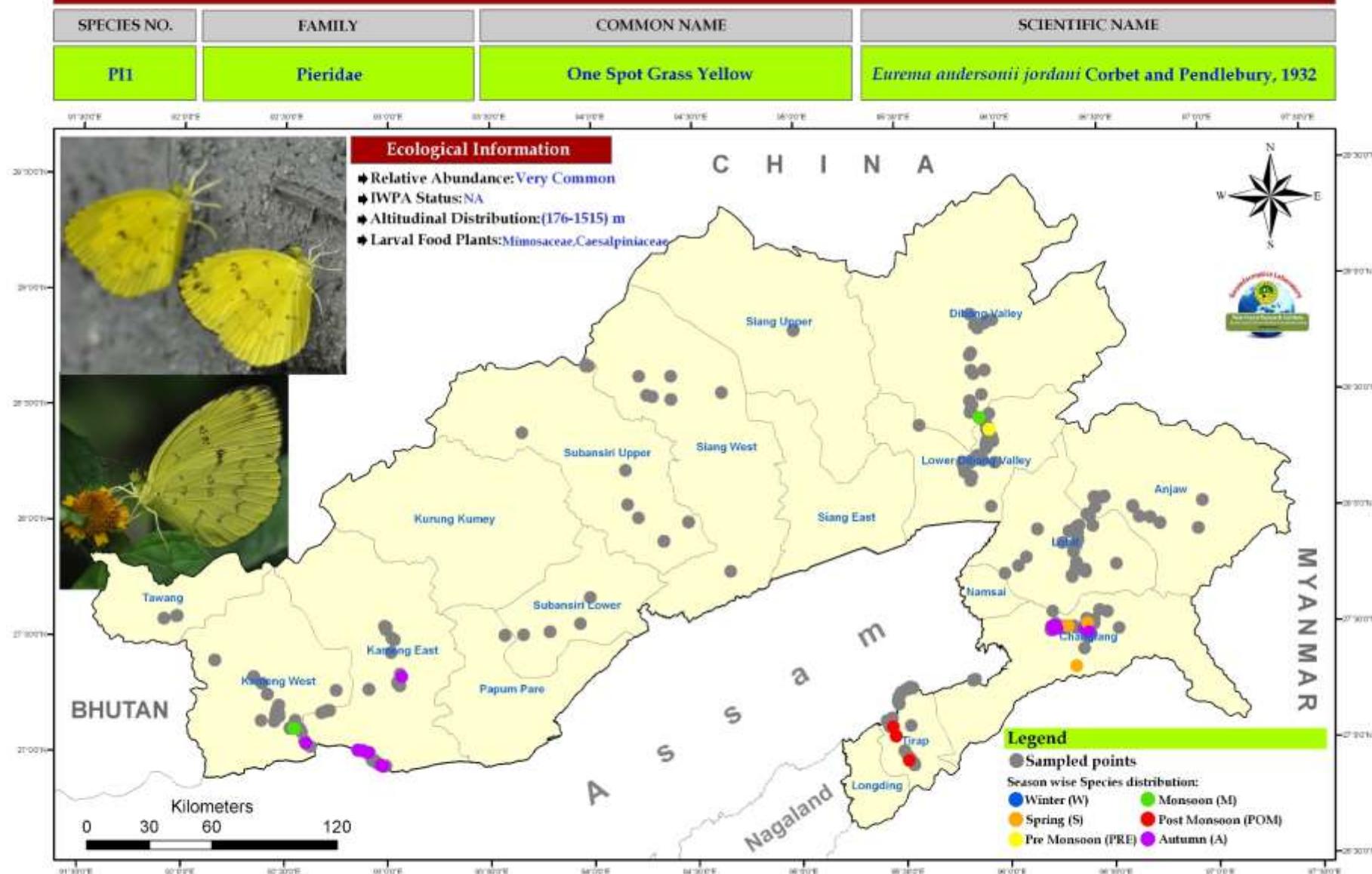
PIERIDAE

(Whites and Yellows)

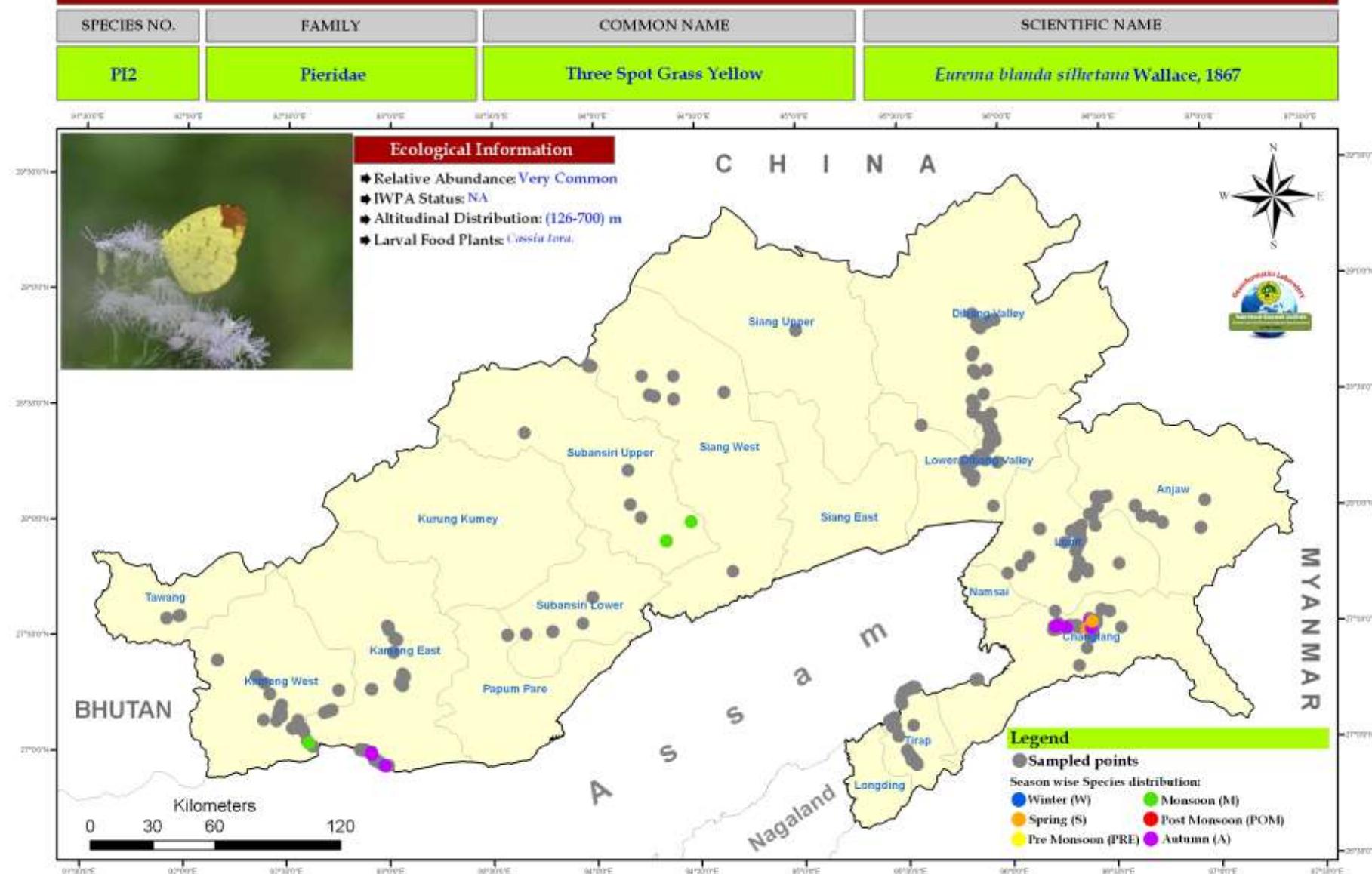
Pl: 1-37



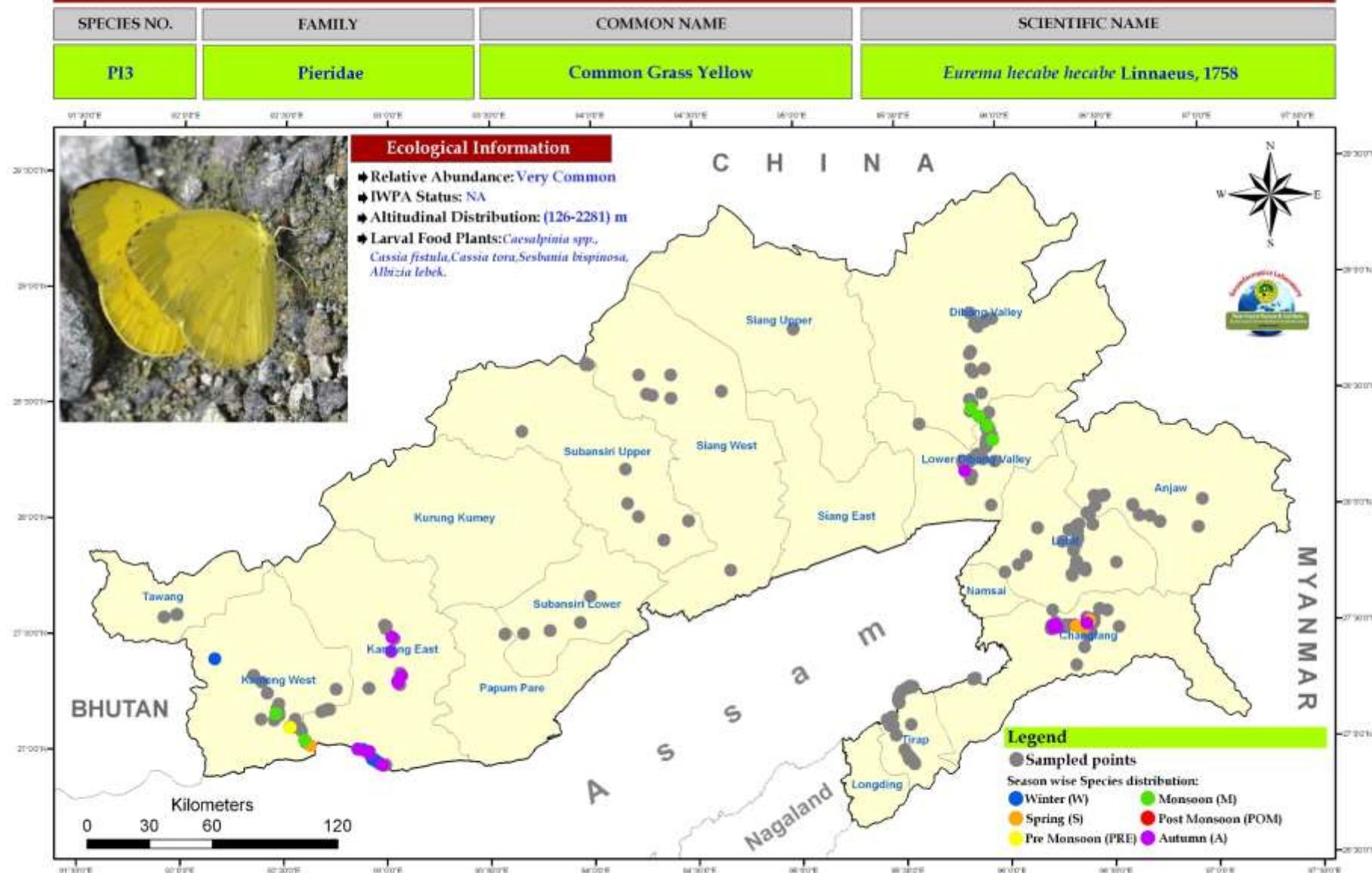
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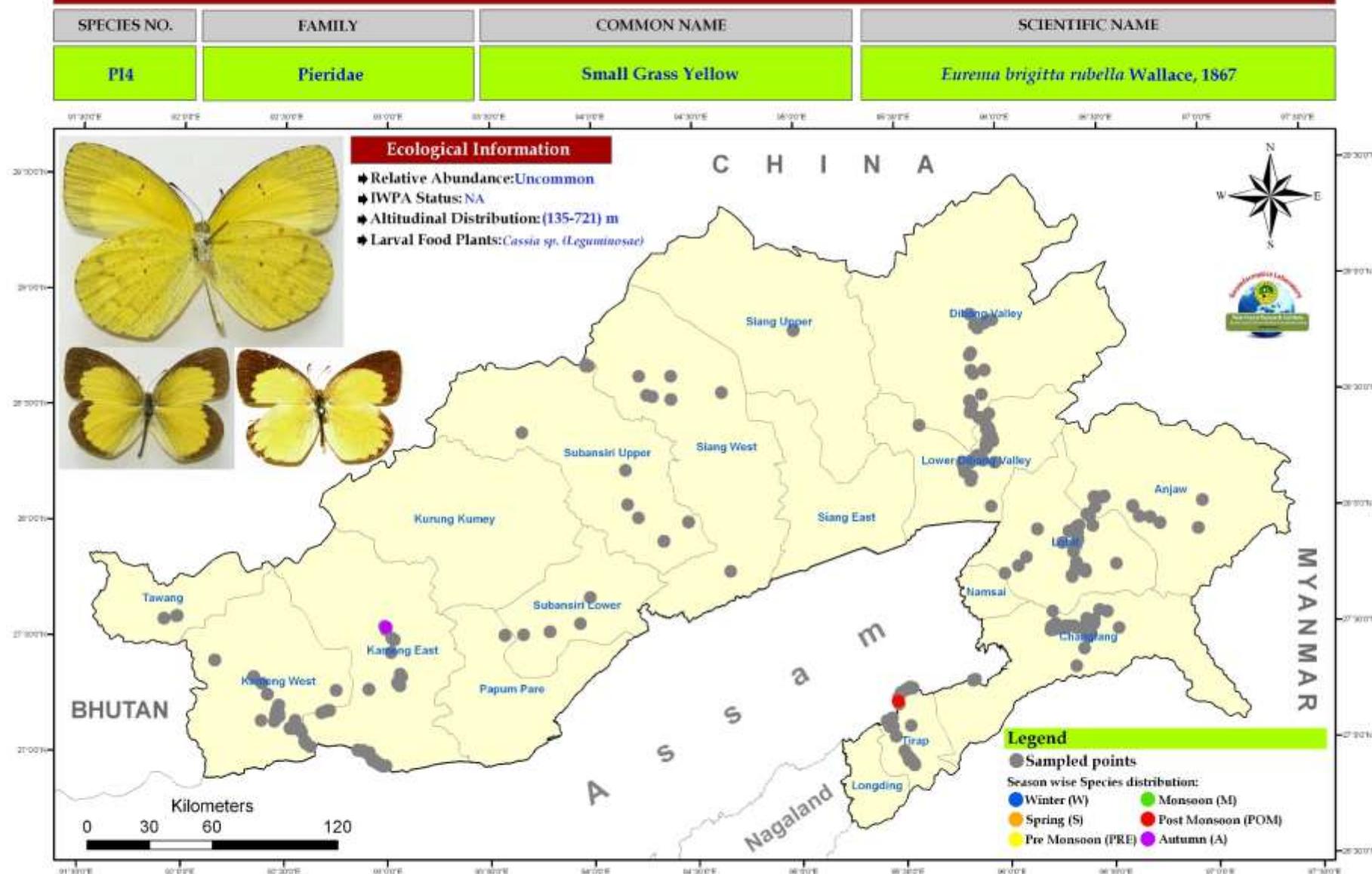
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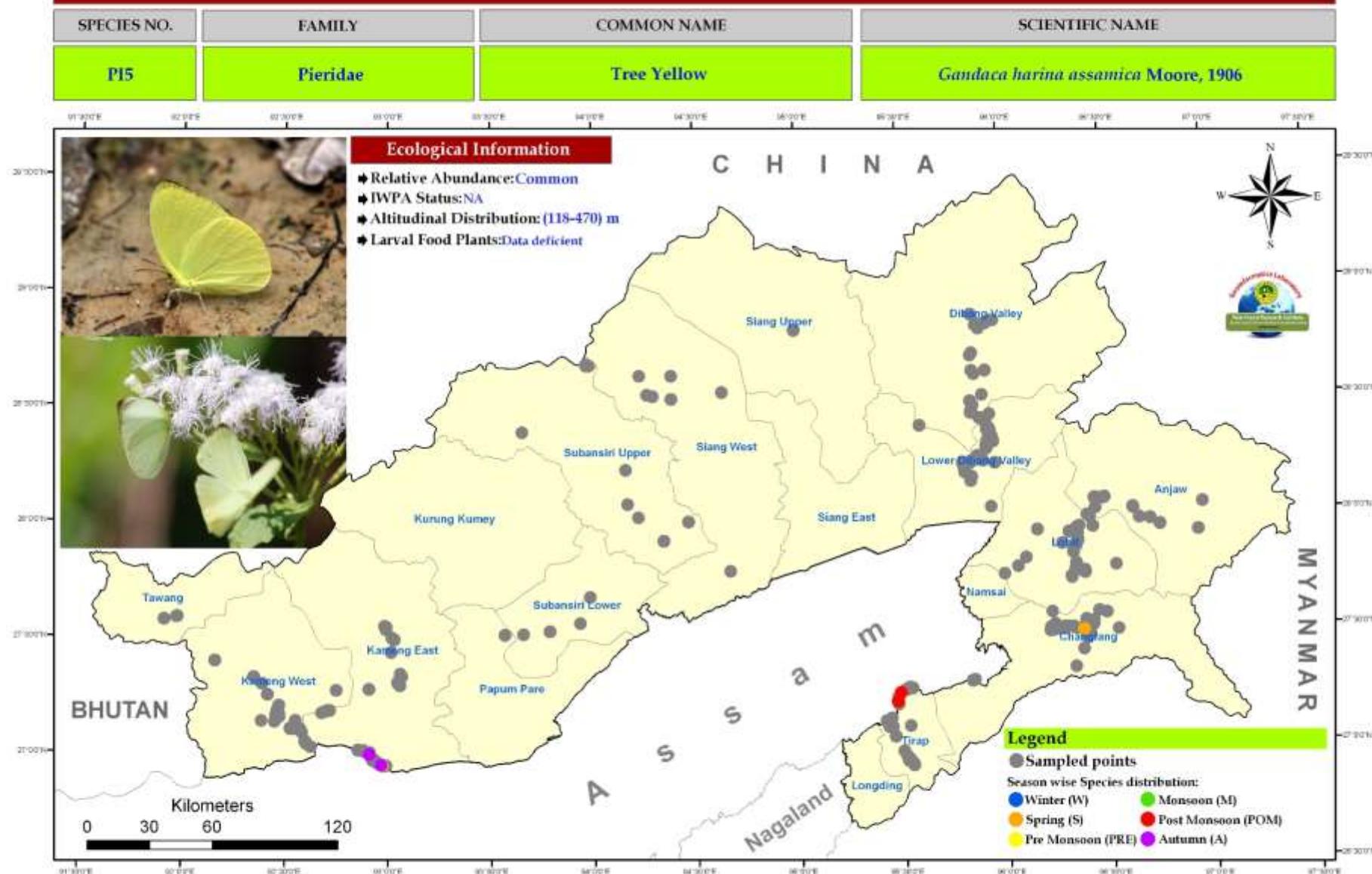
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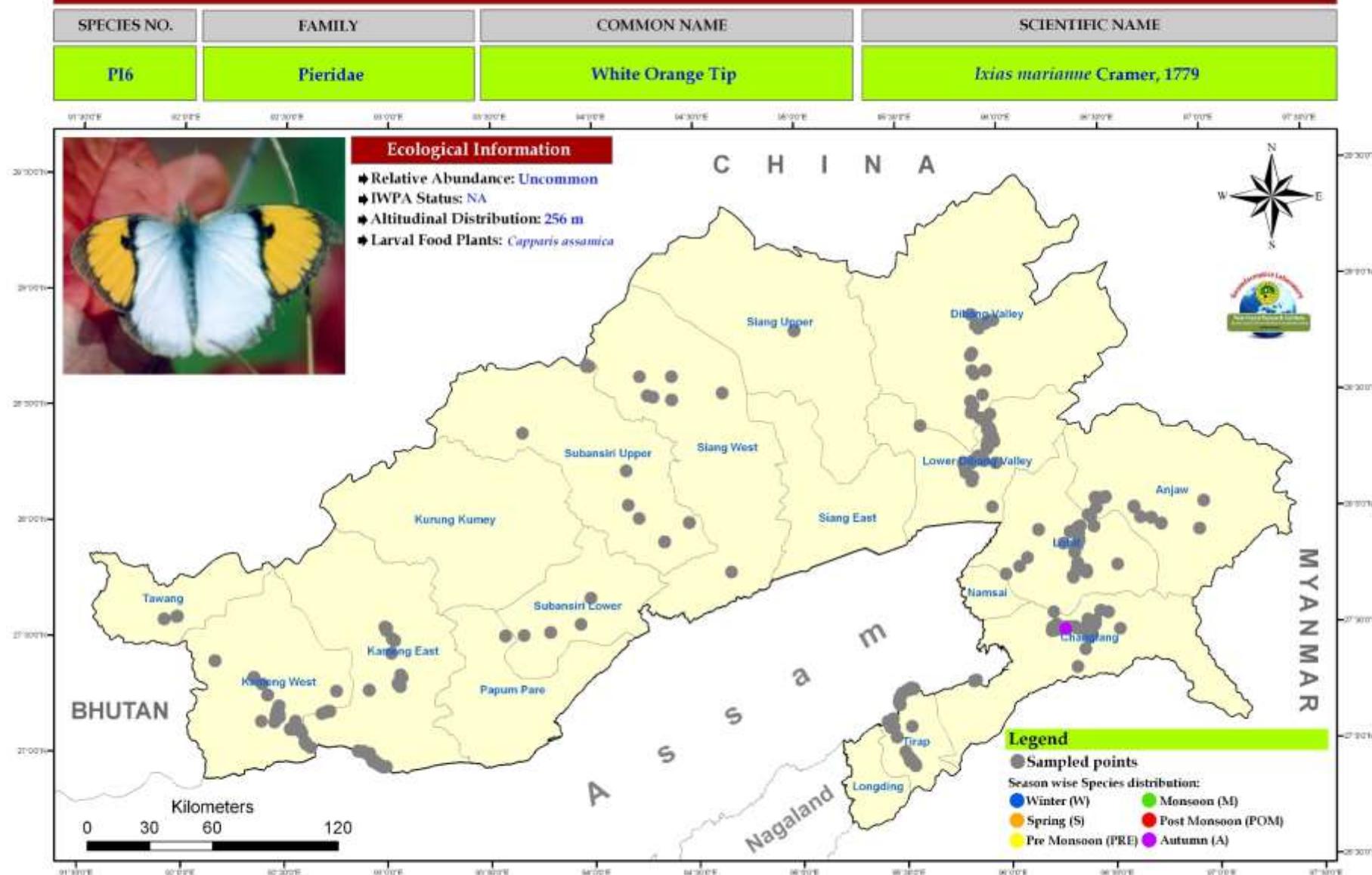
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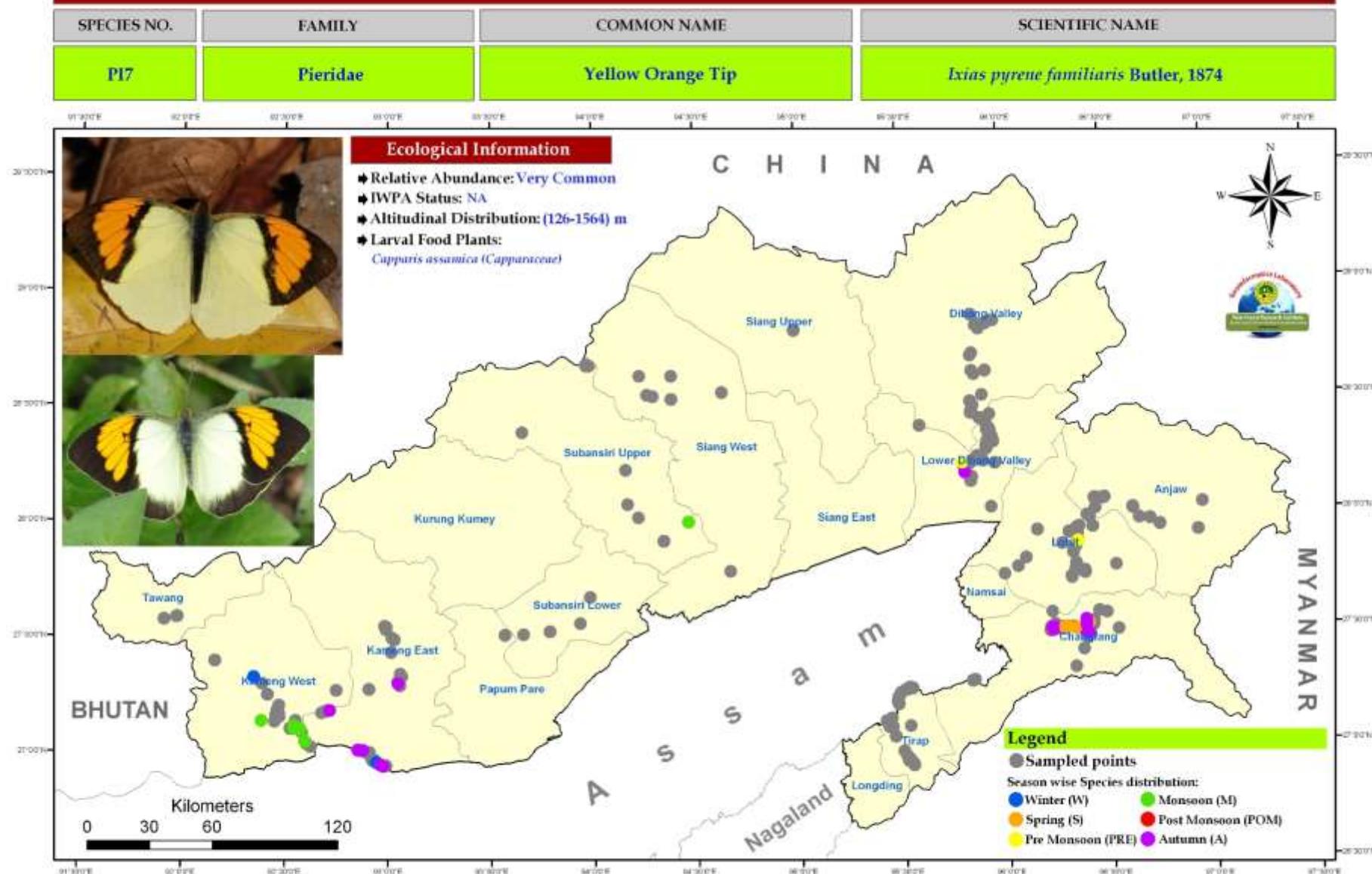
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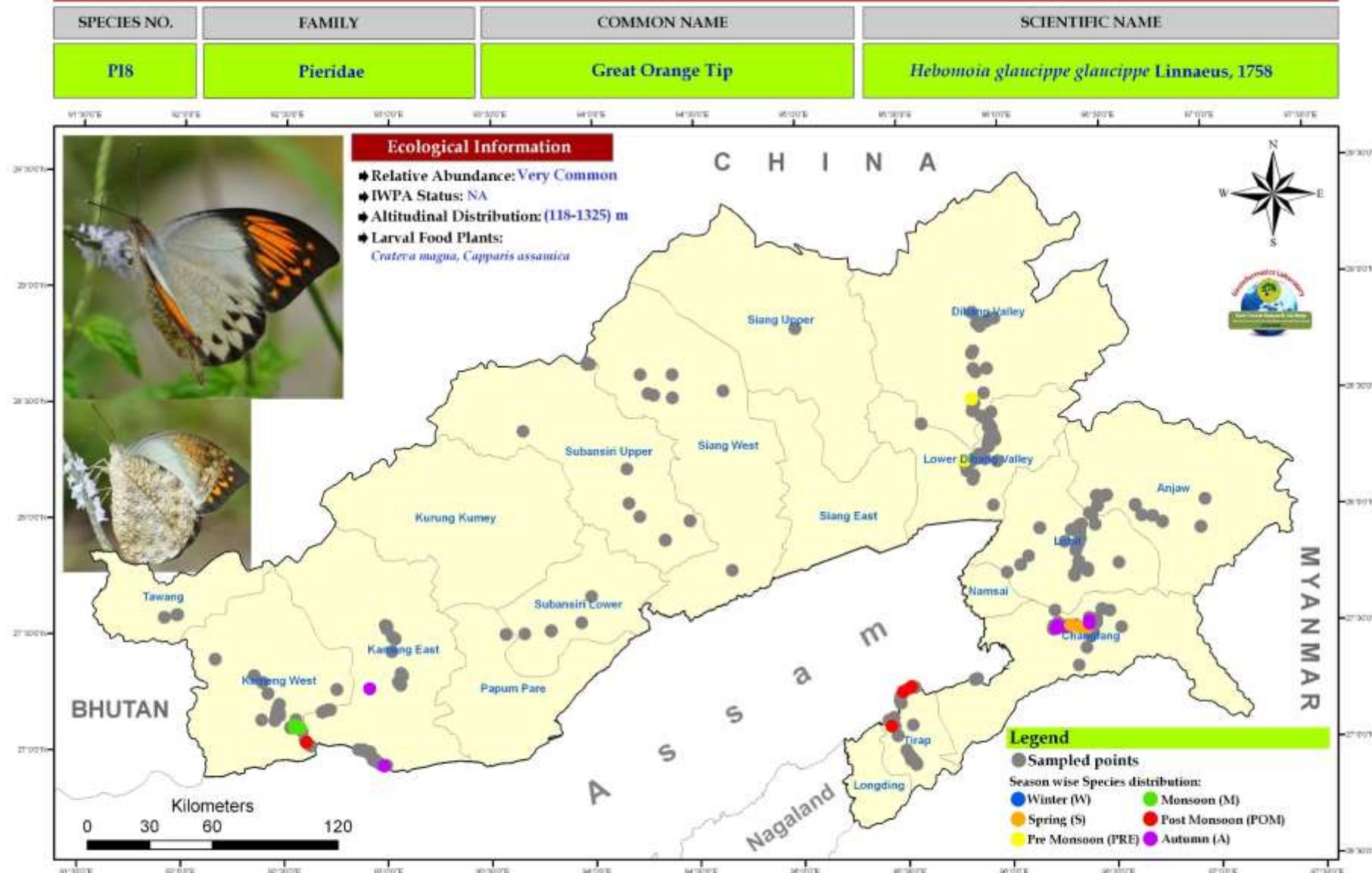
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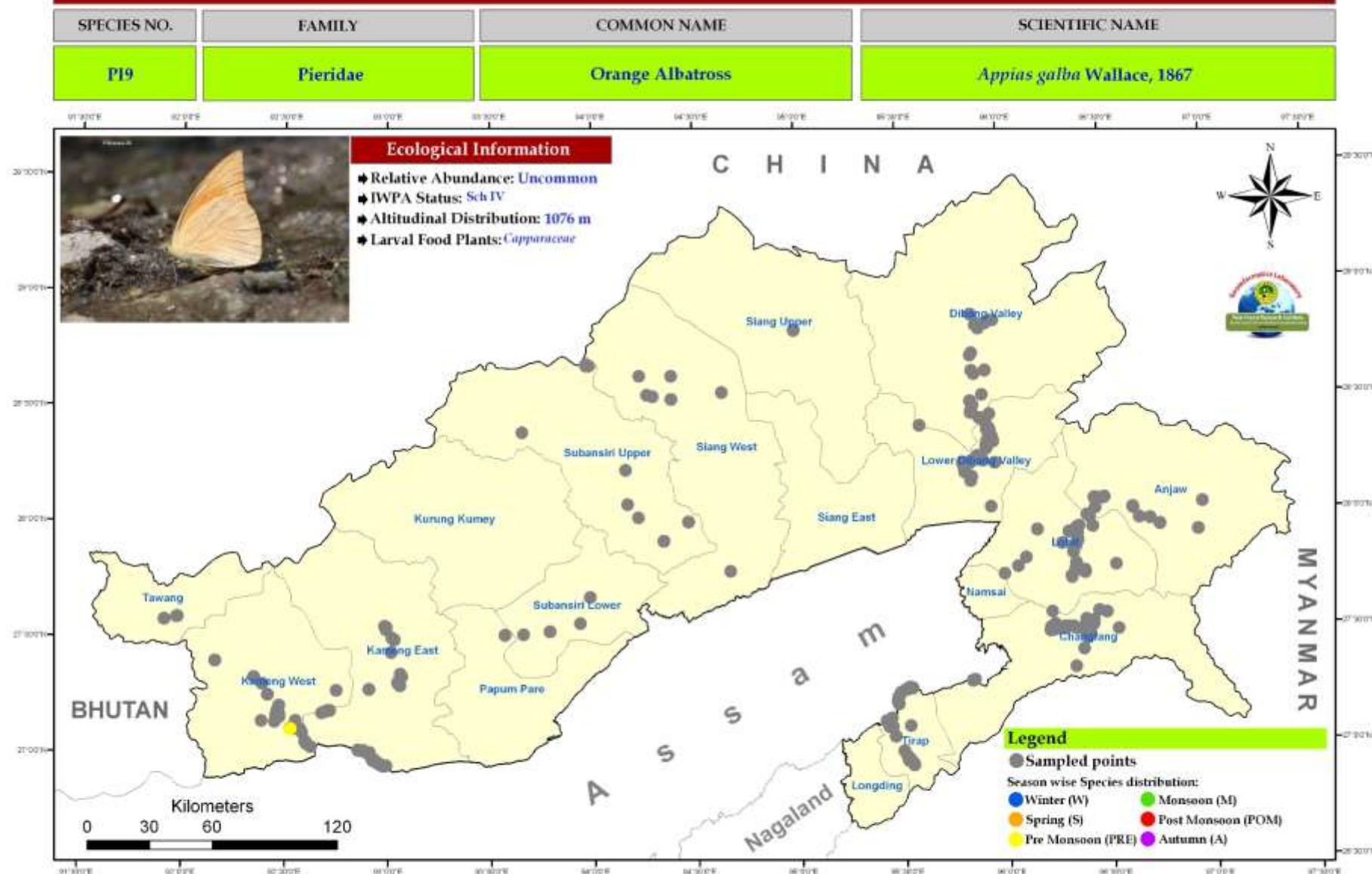
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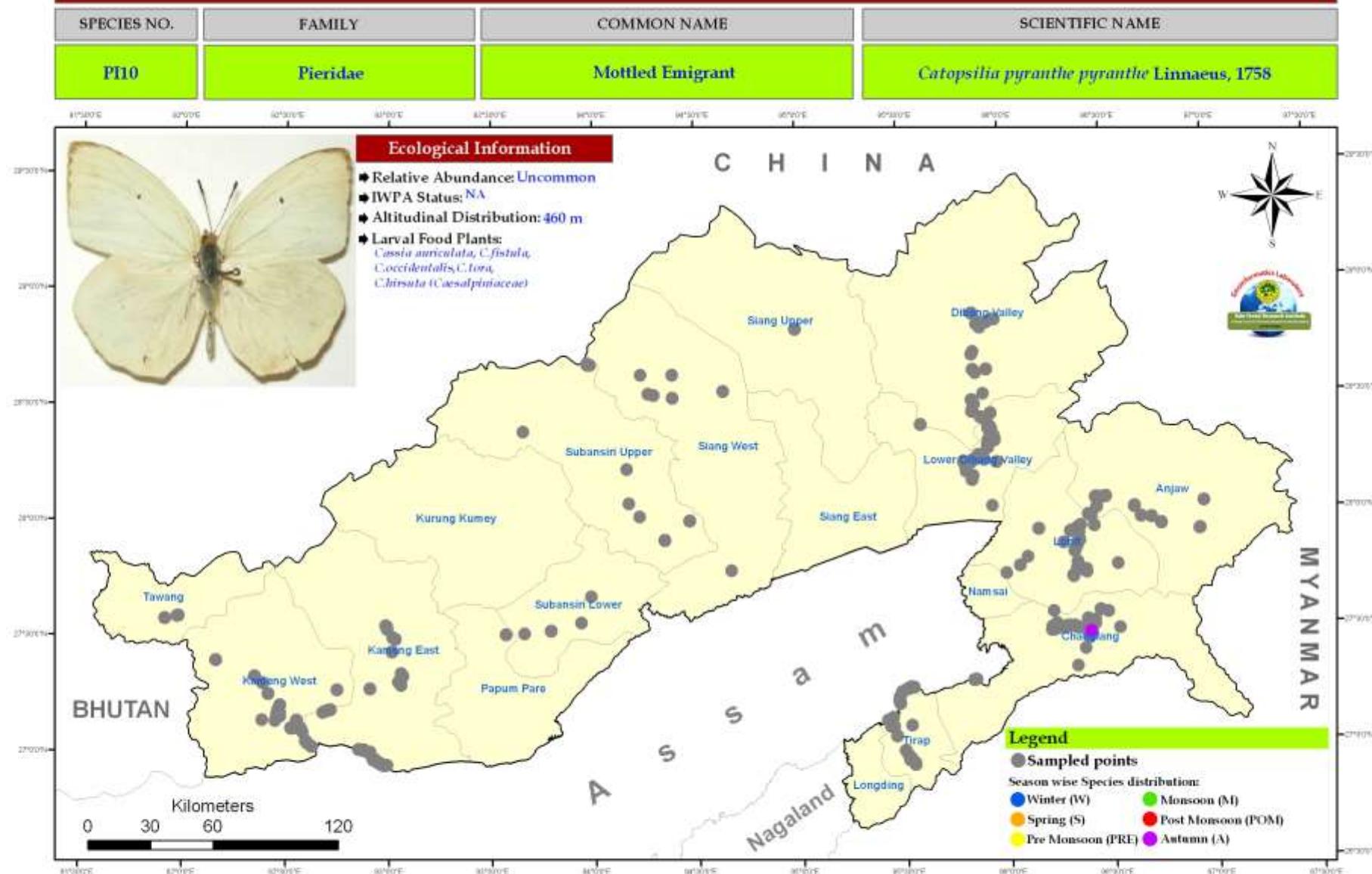
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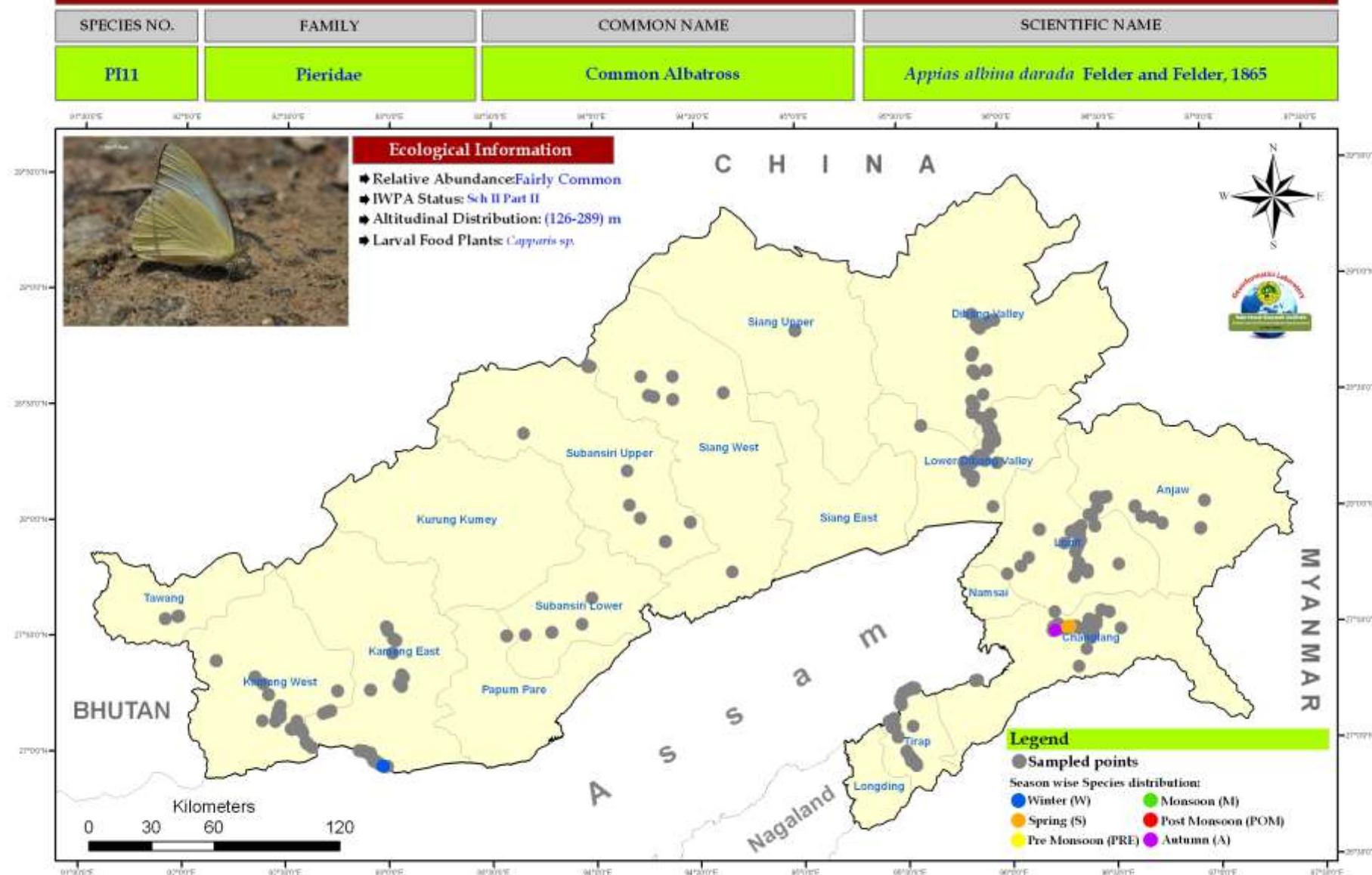
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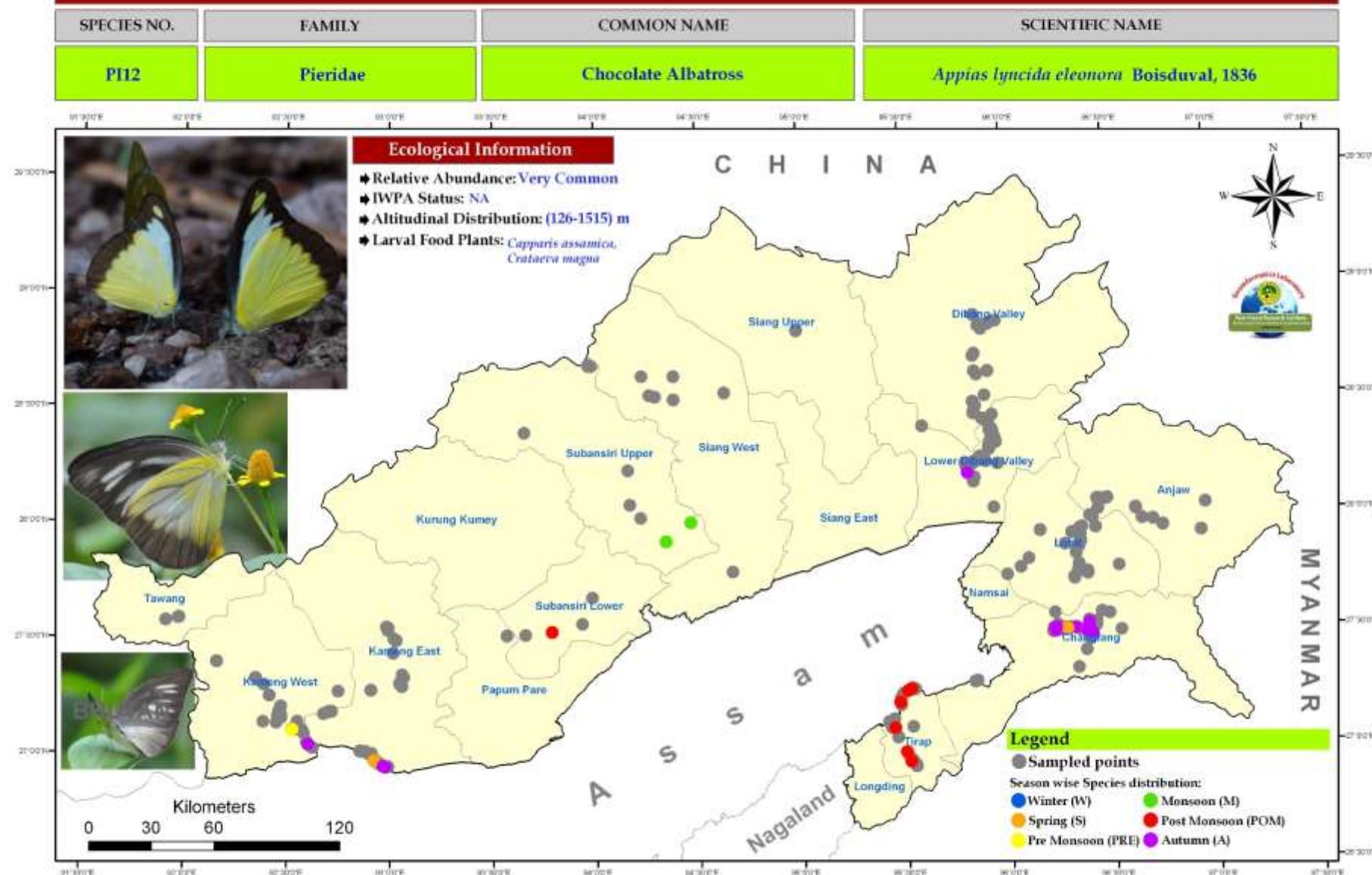
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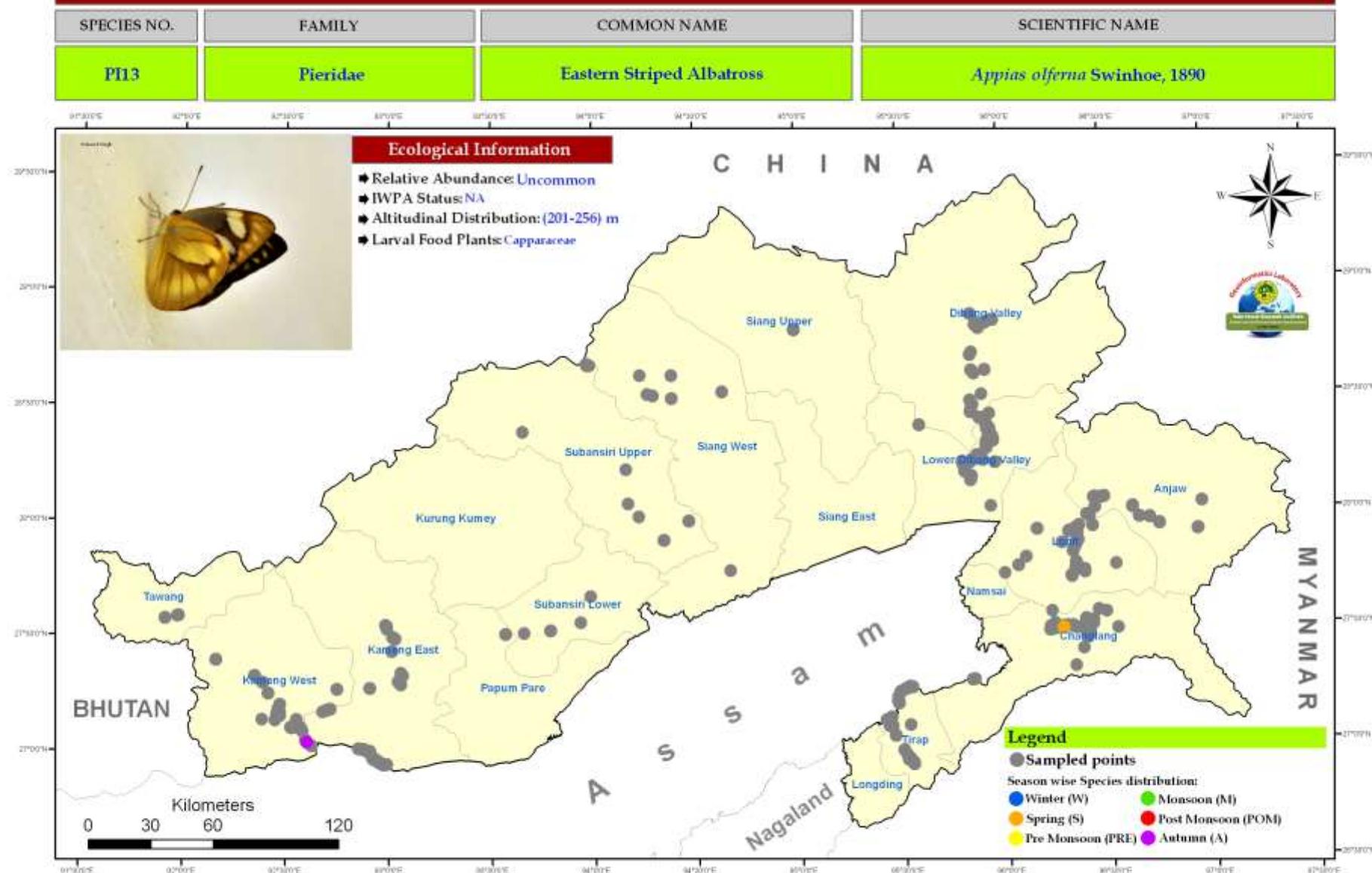
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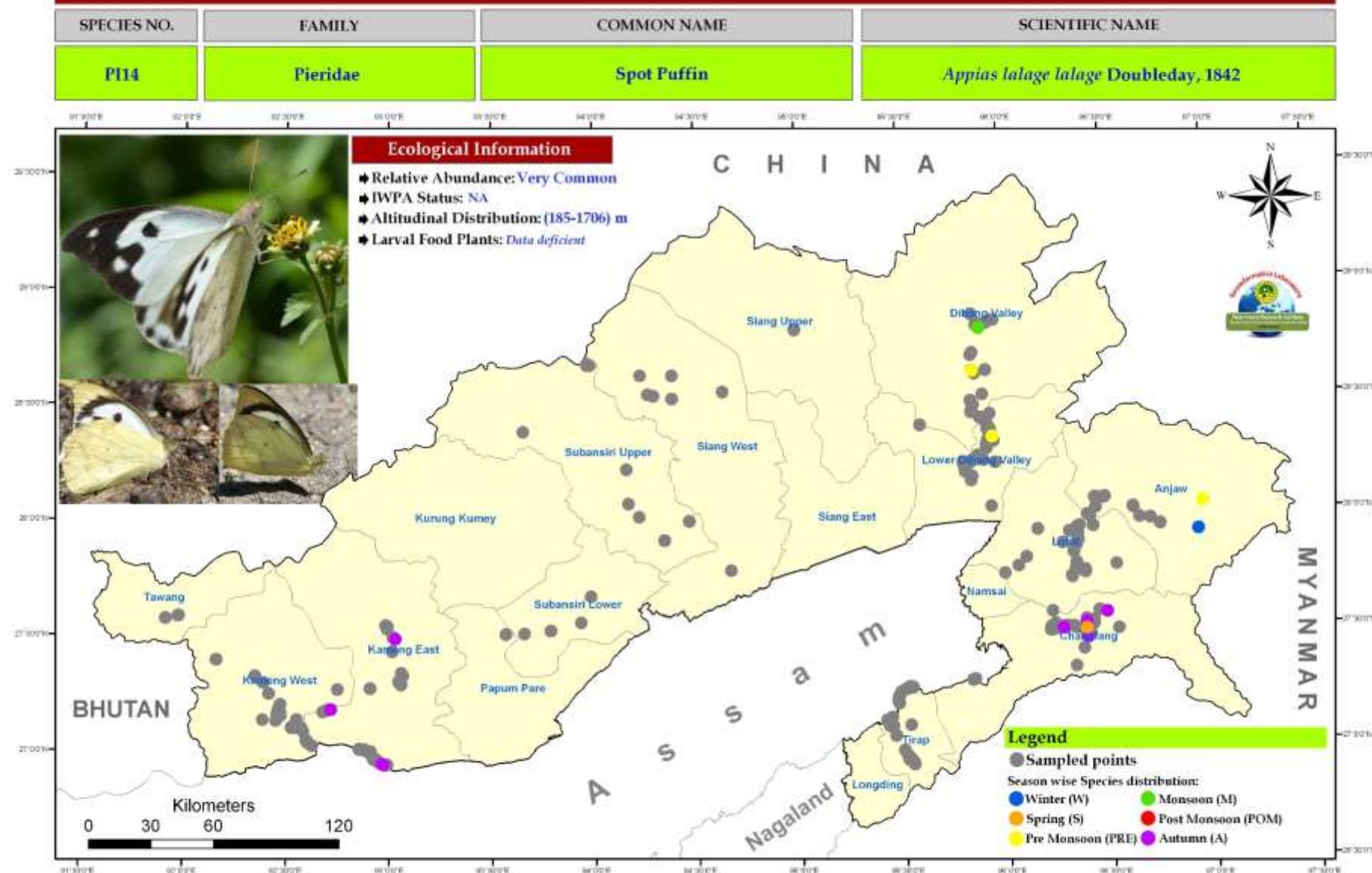
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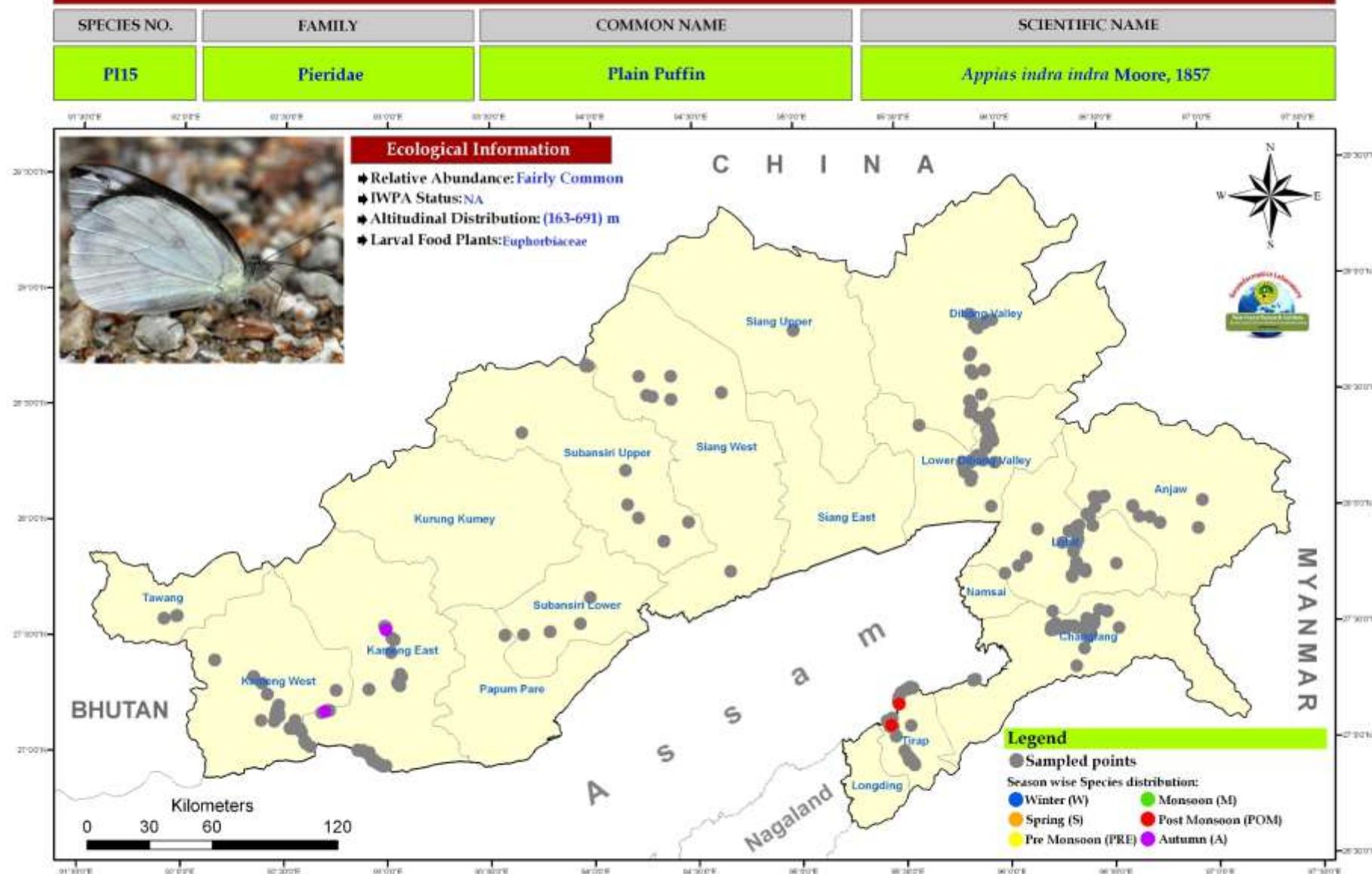
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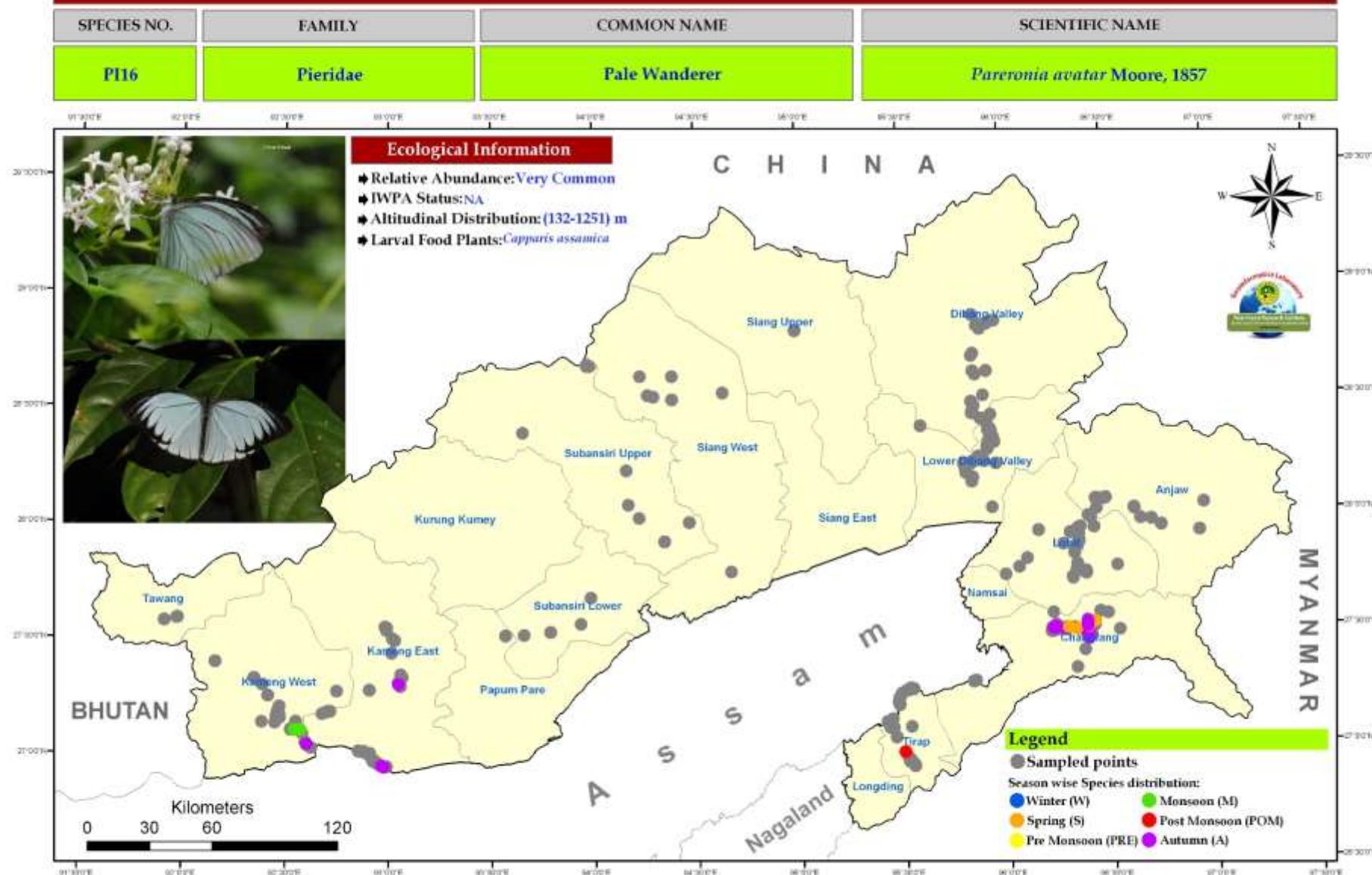
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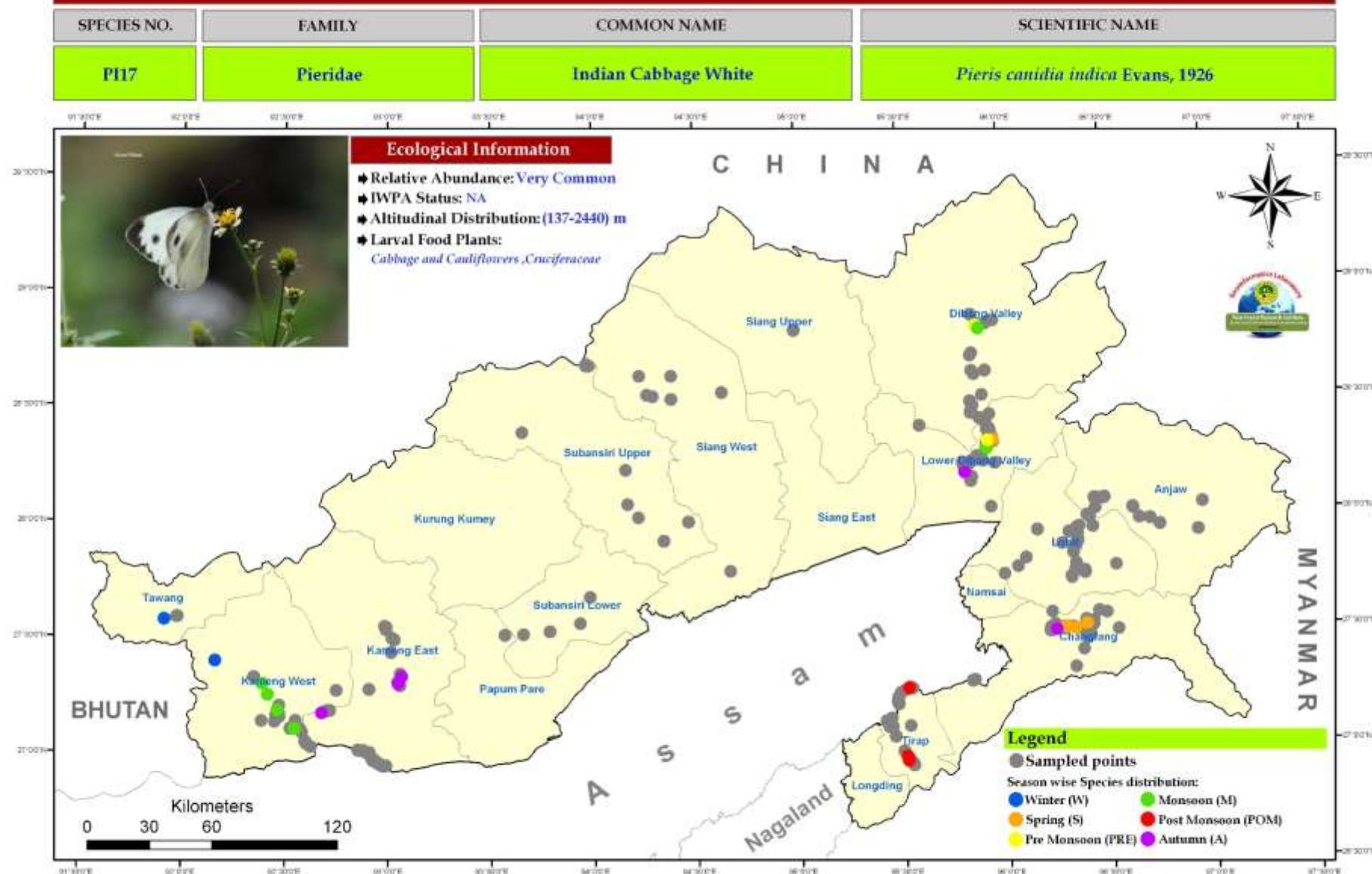
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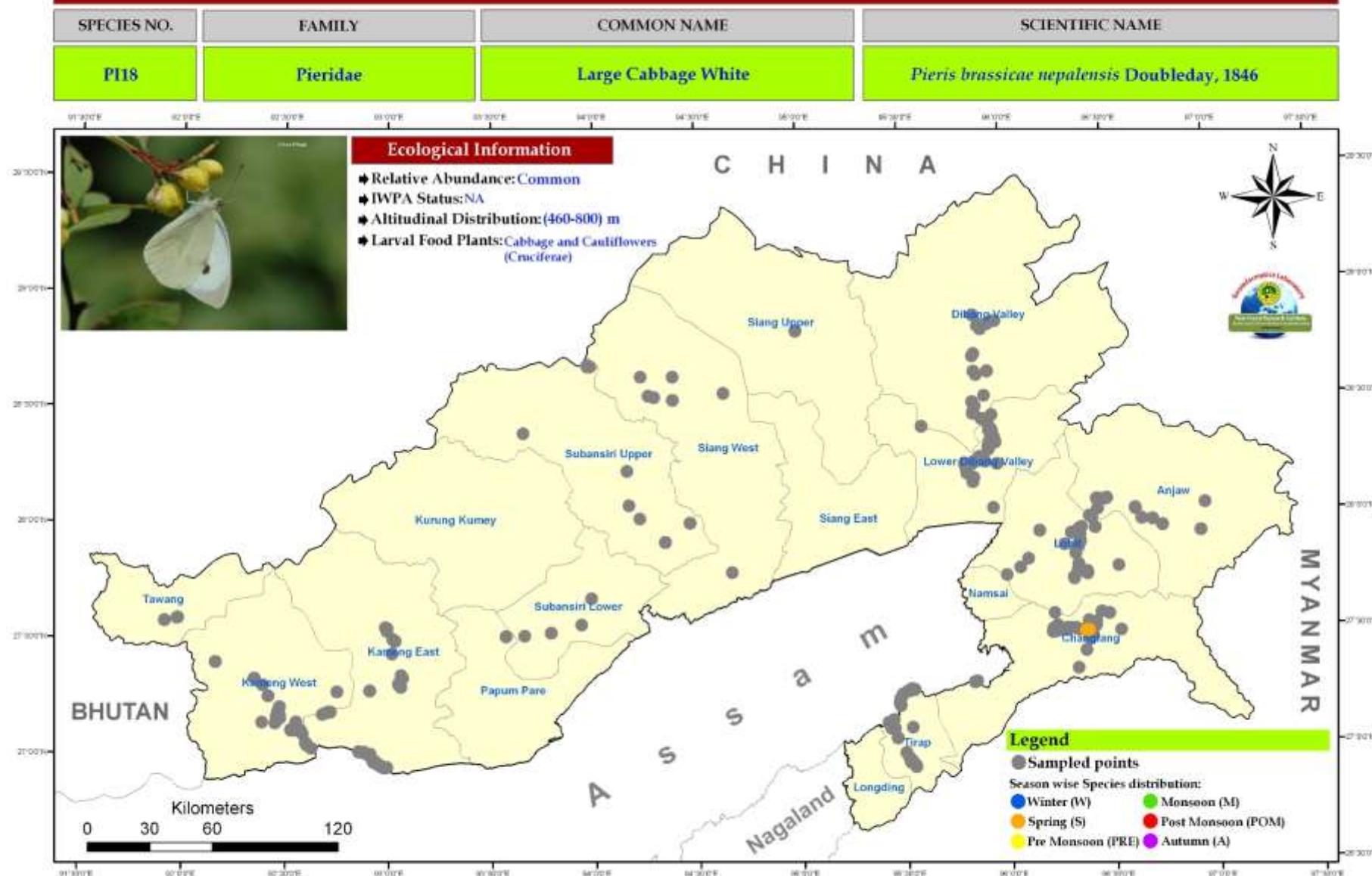
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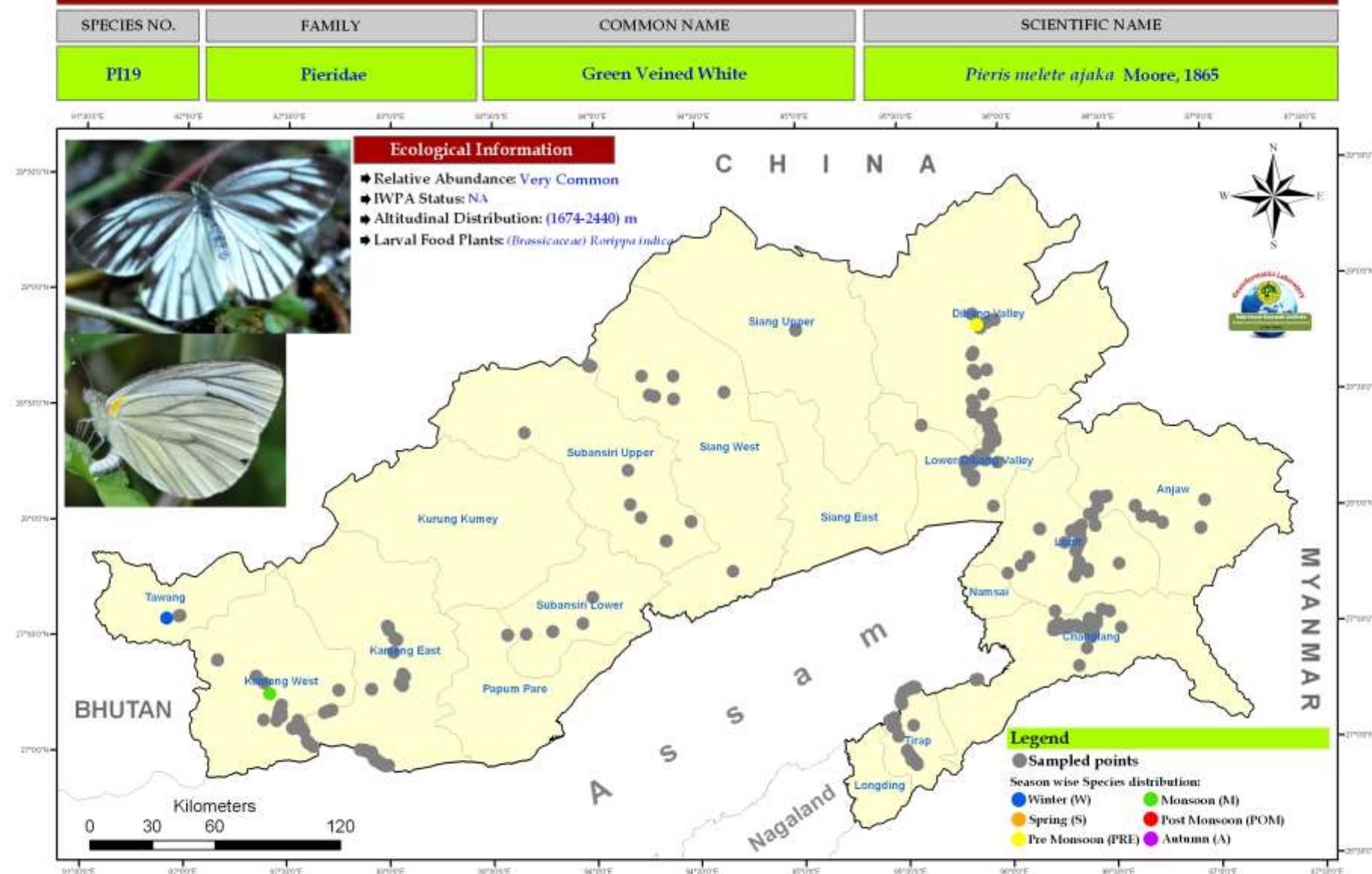
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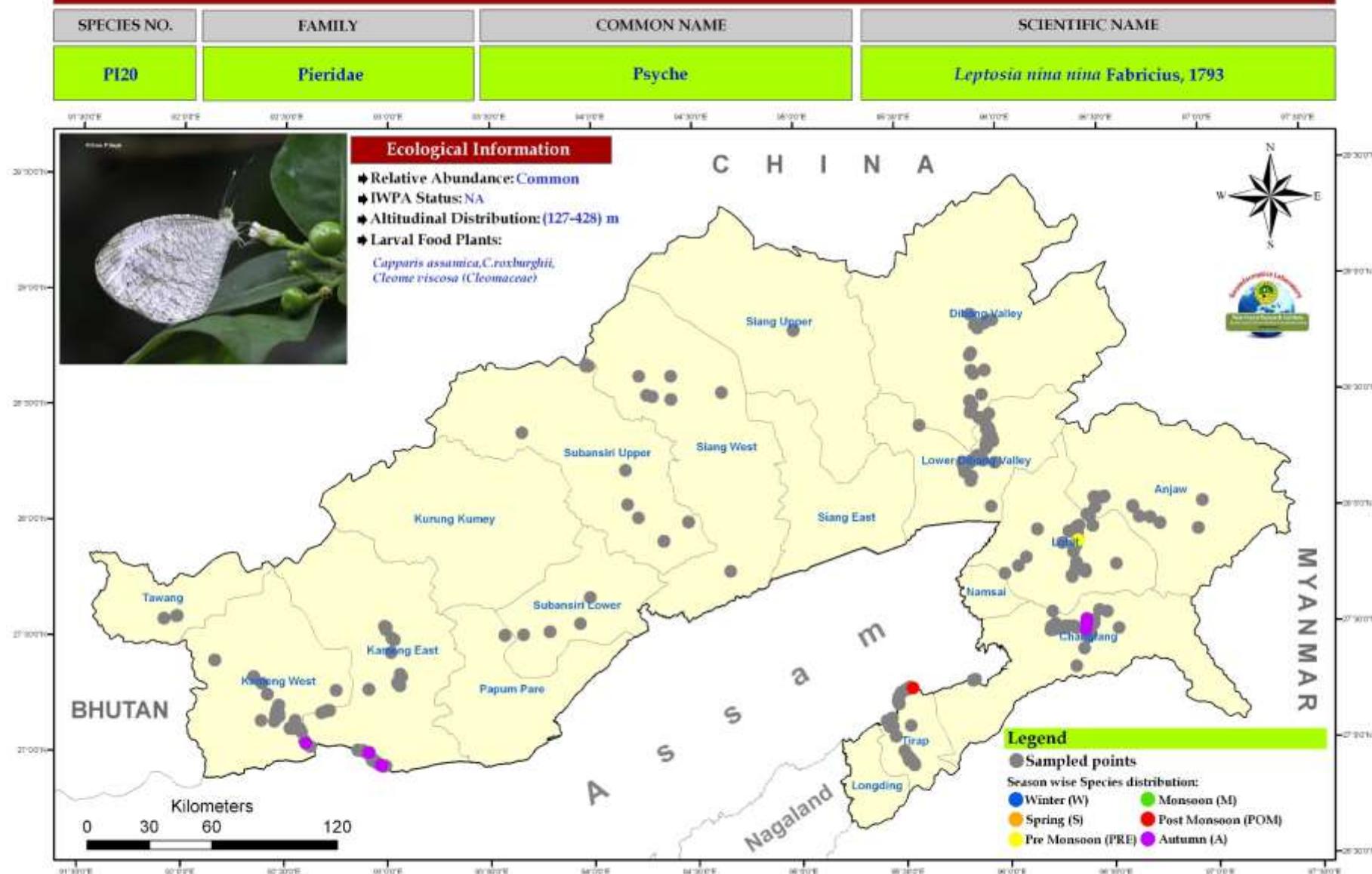
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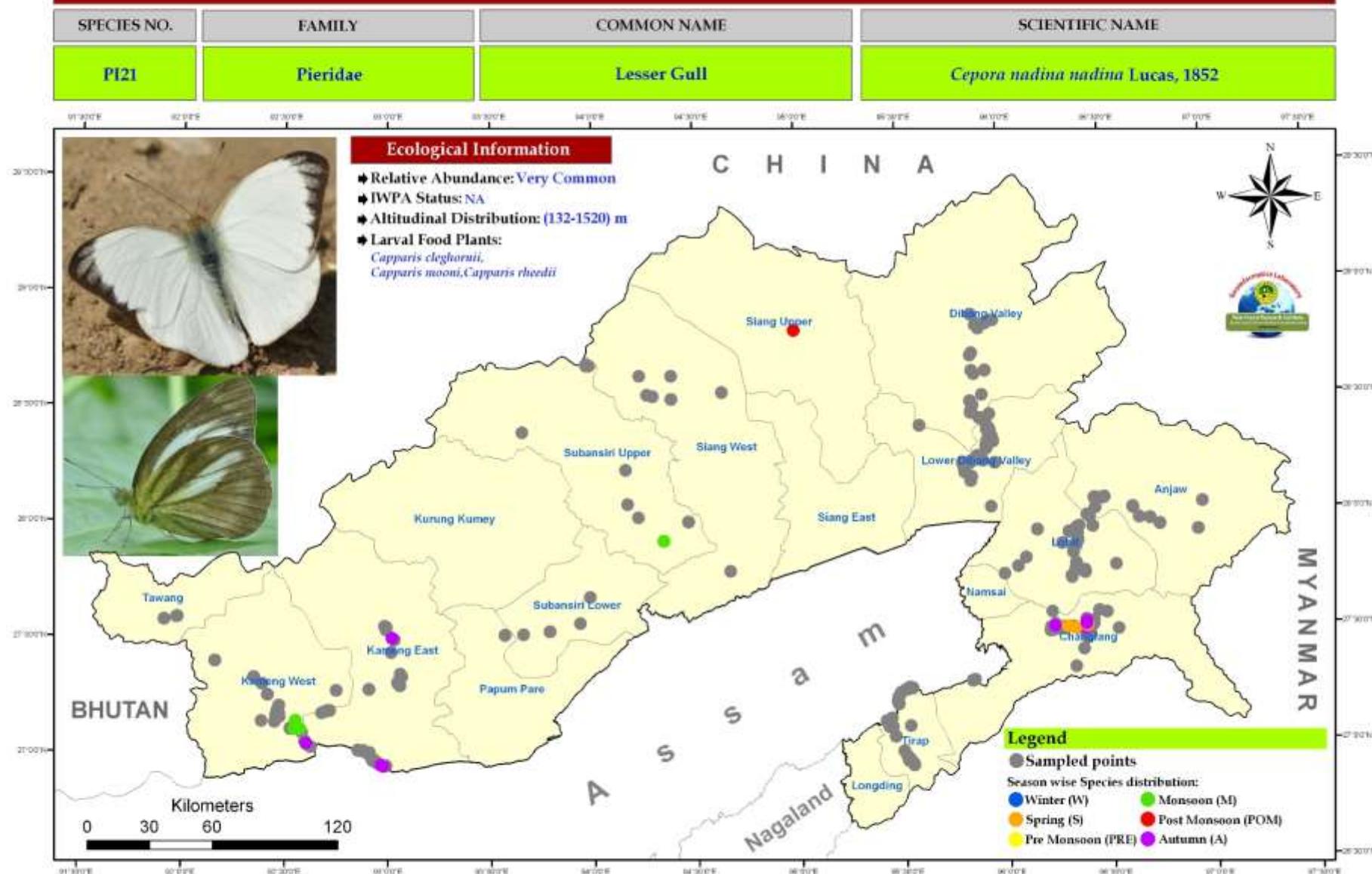
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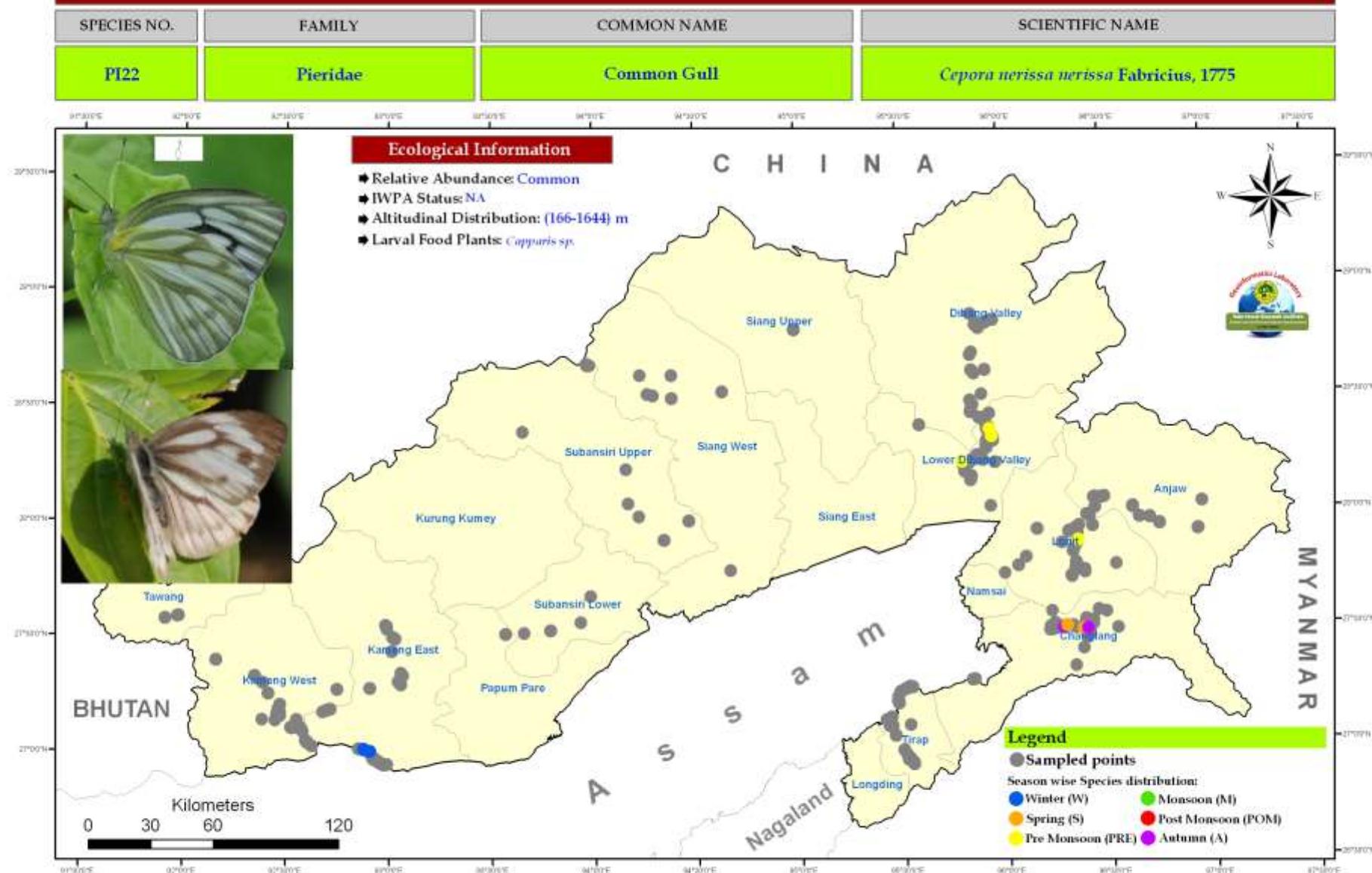
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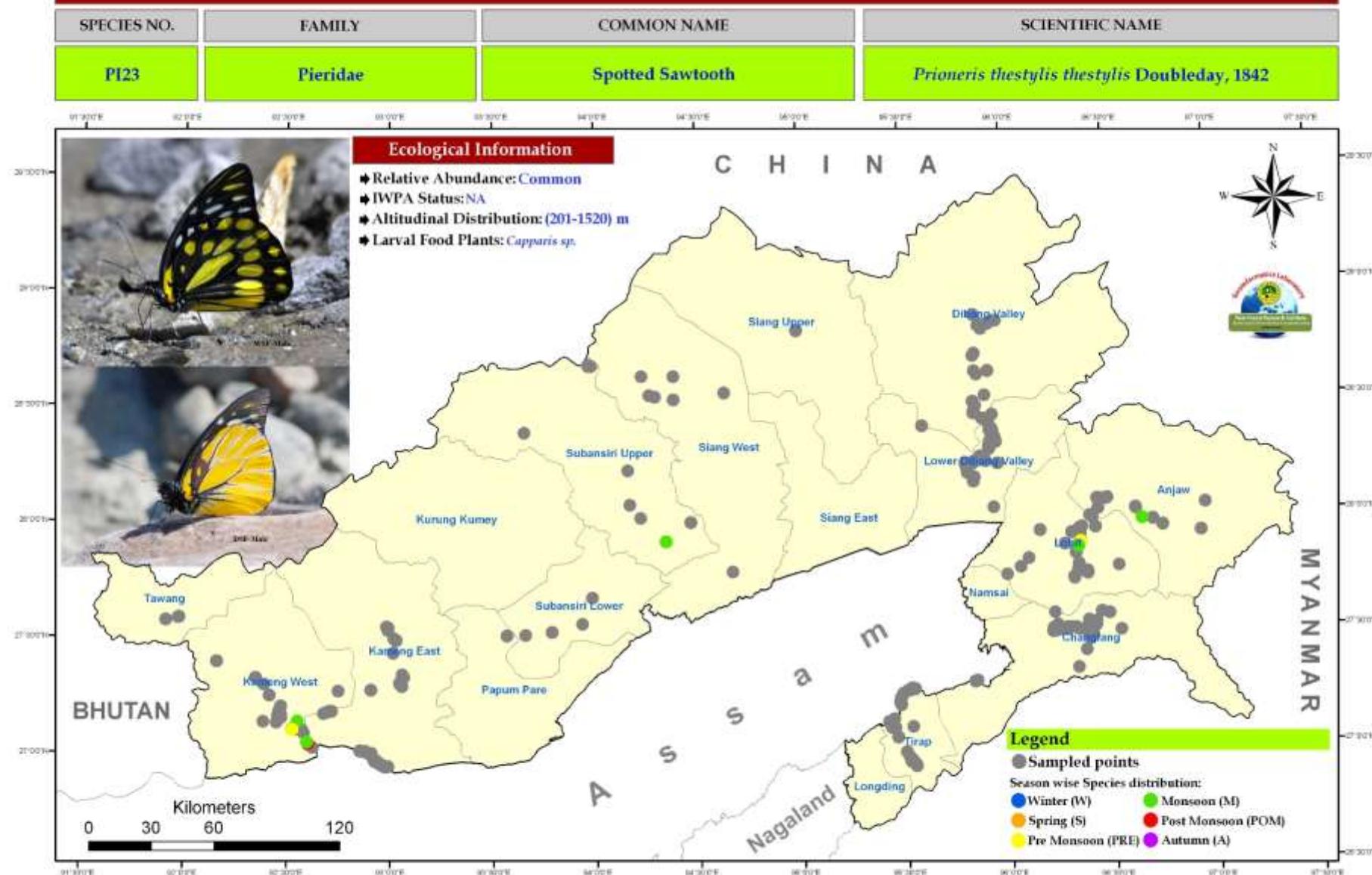
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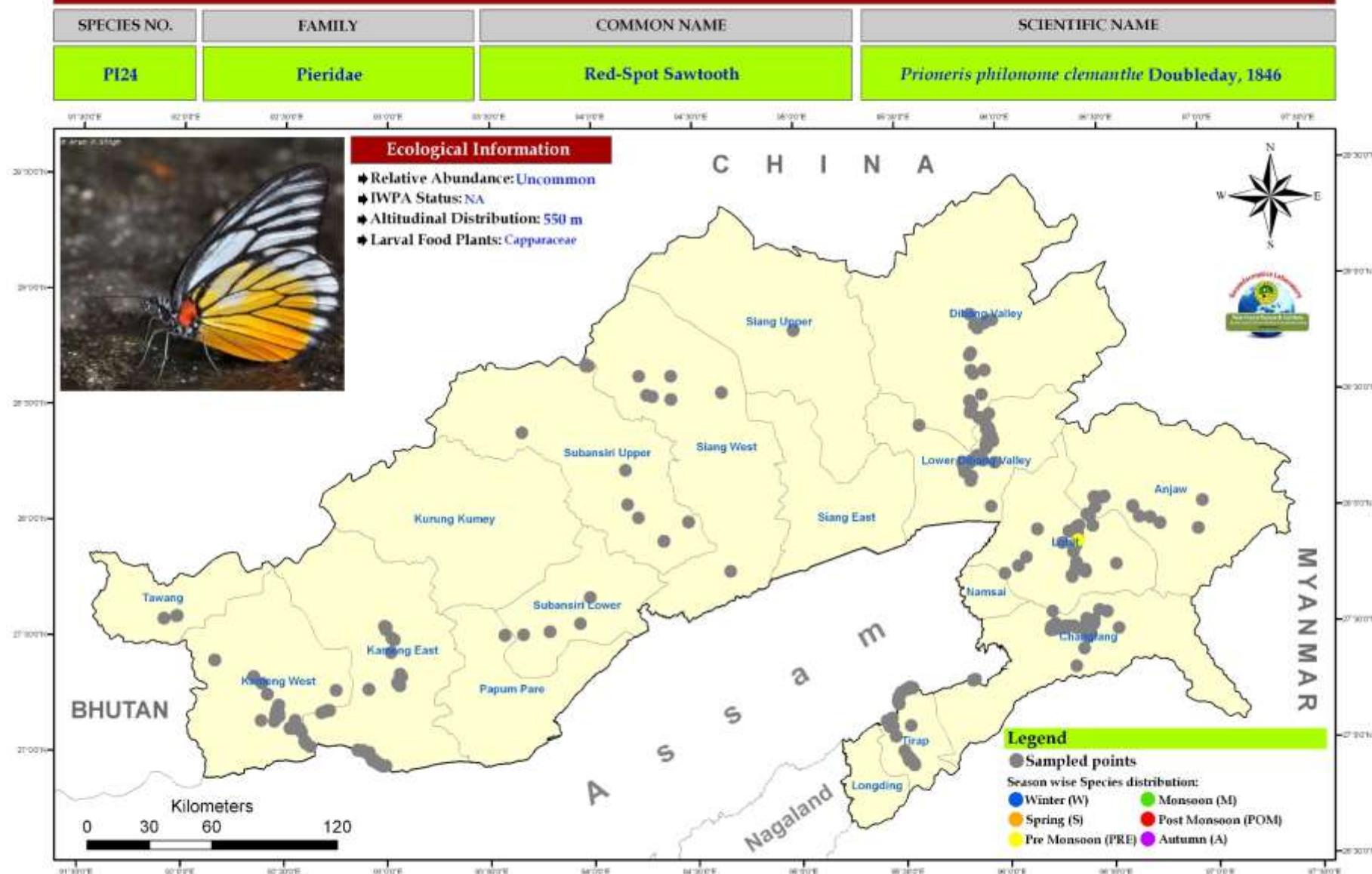
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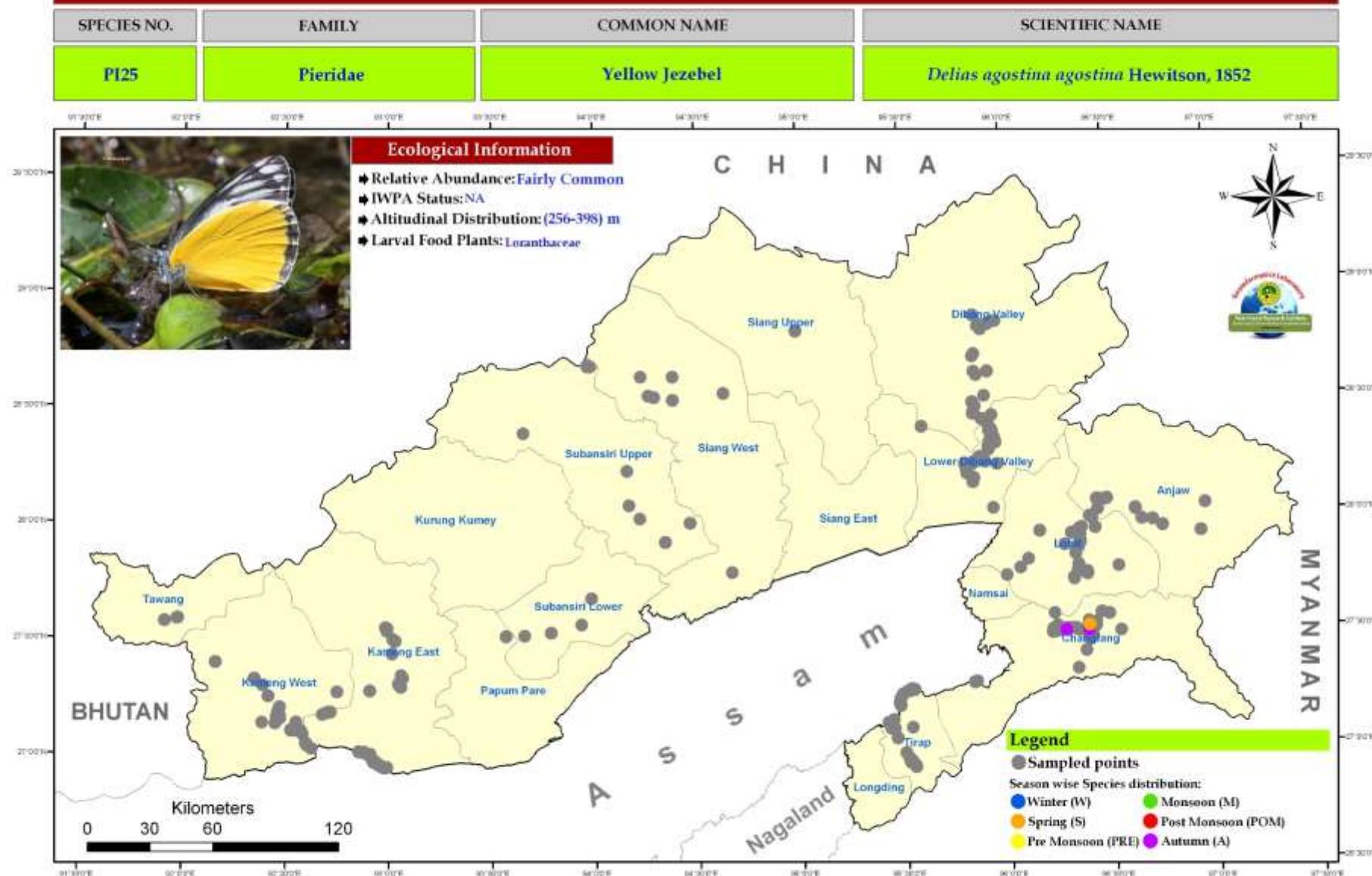
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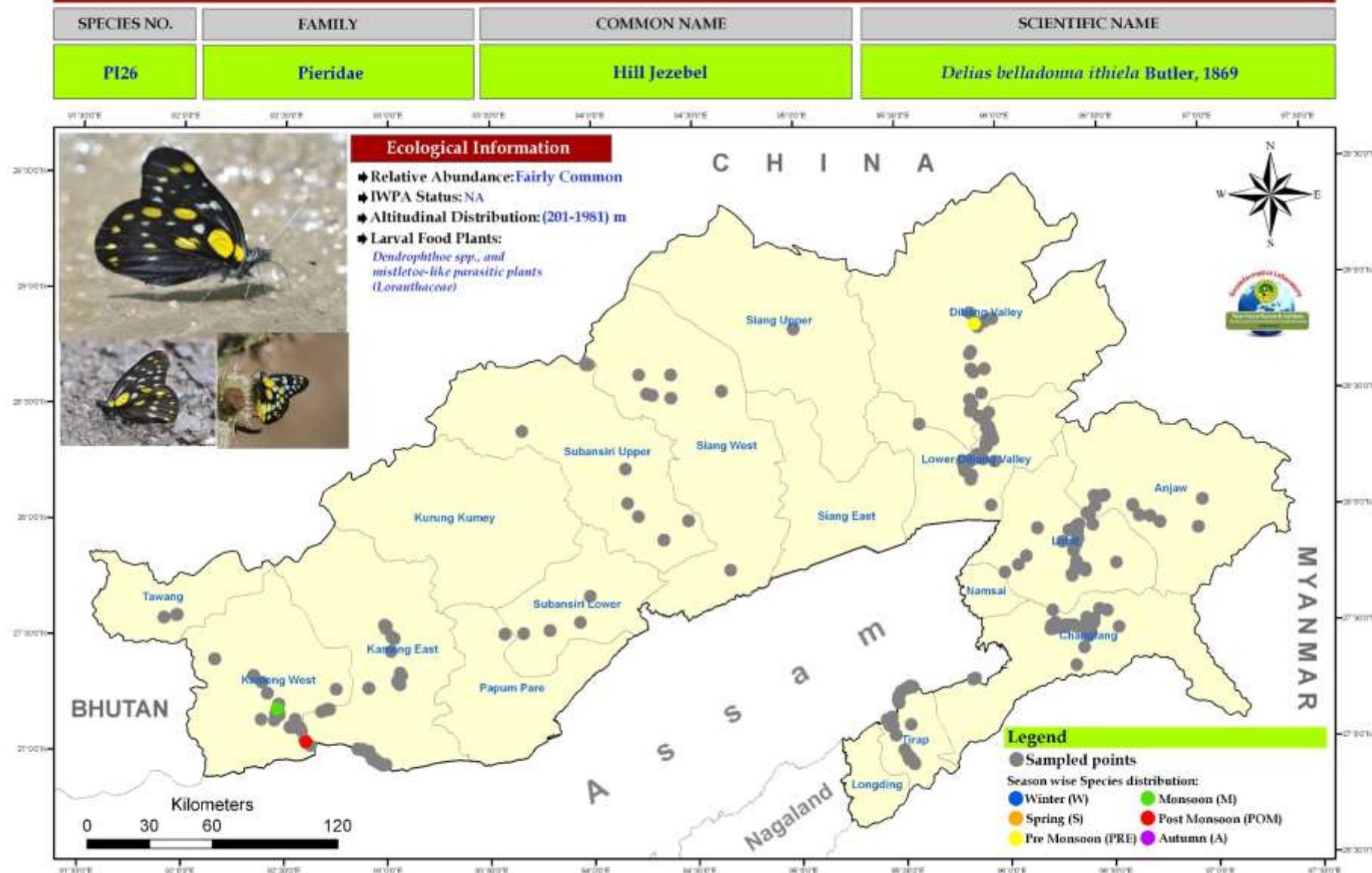
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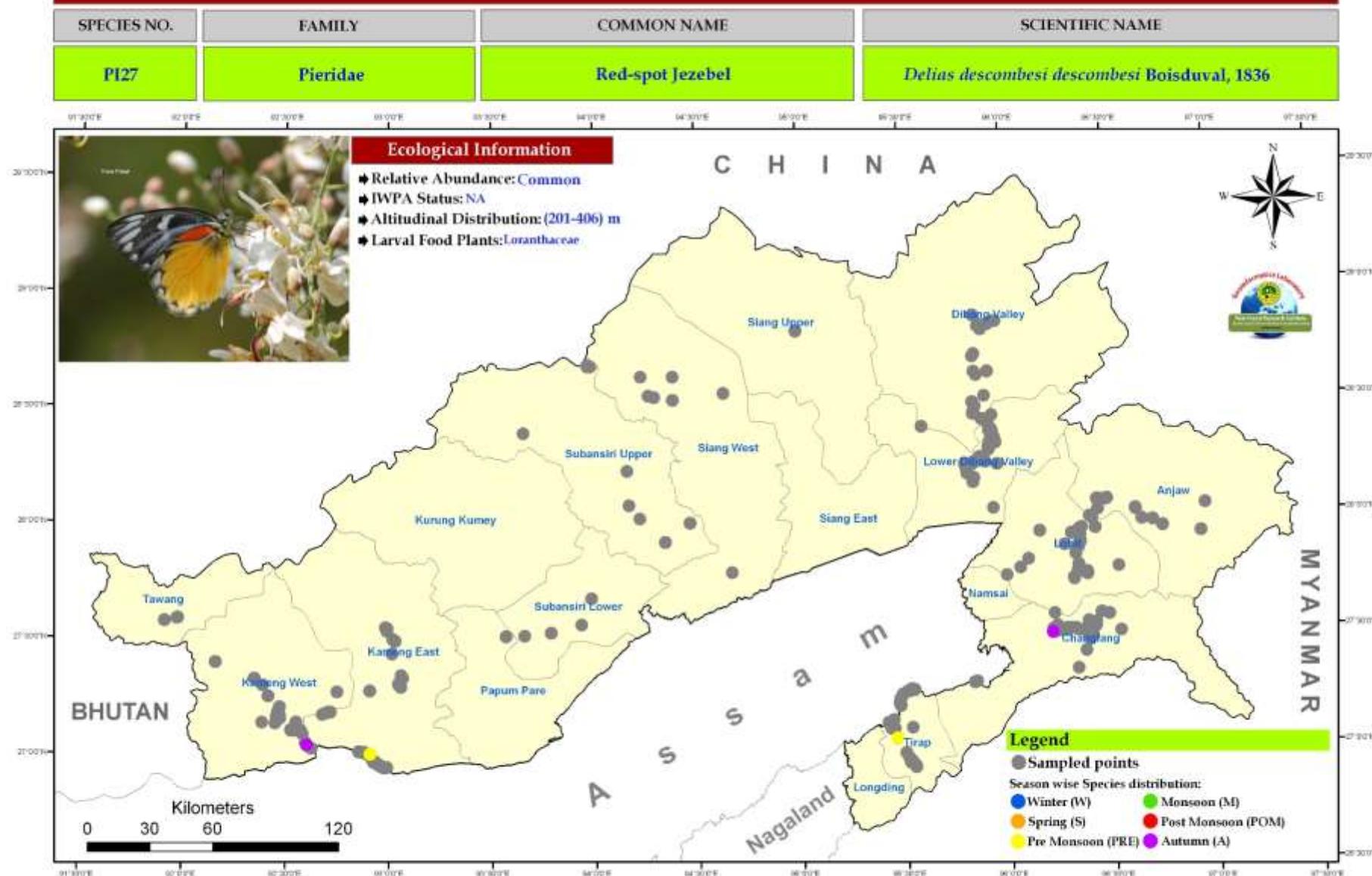
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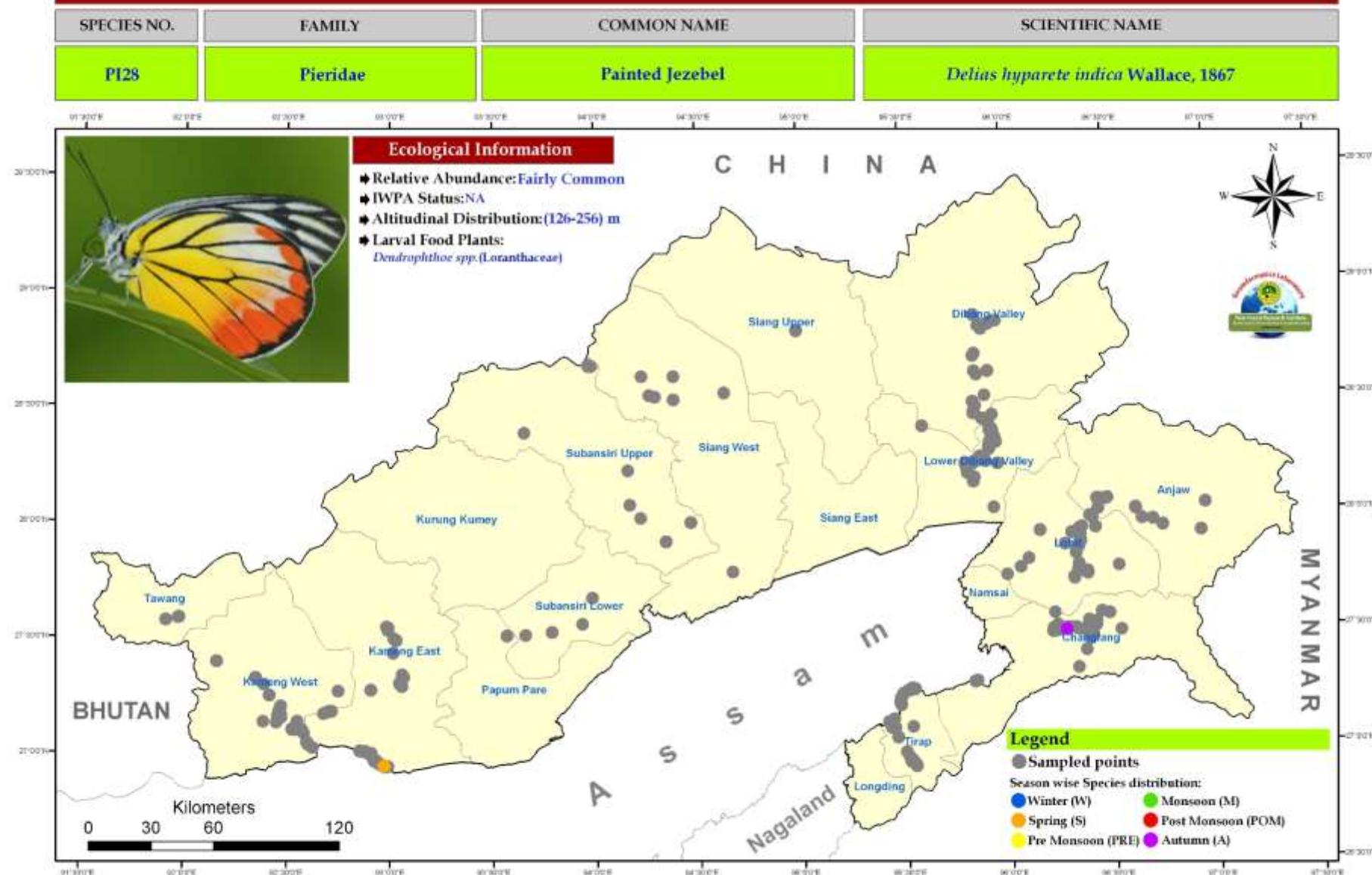
SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA



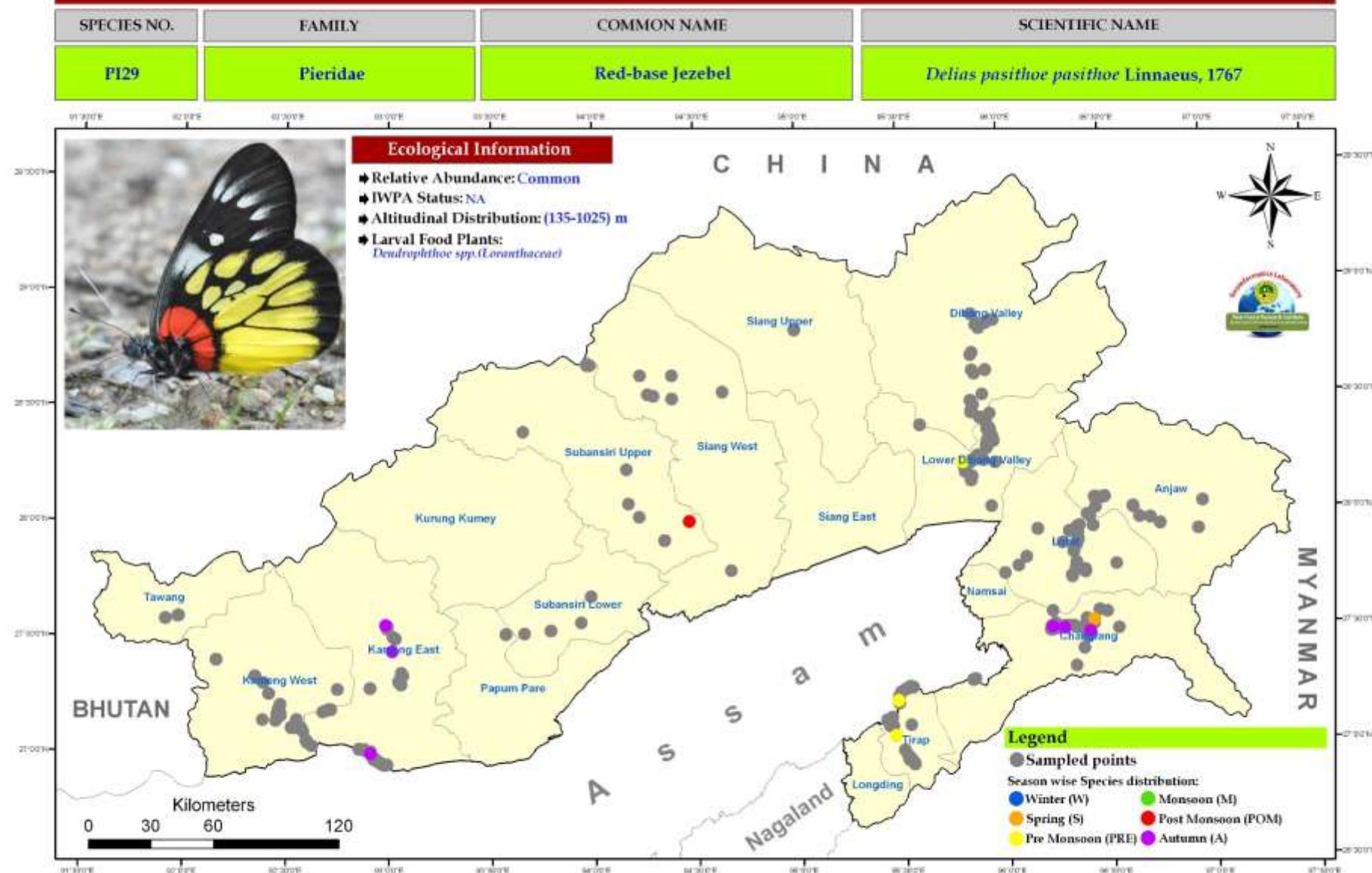
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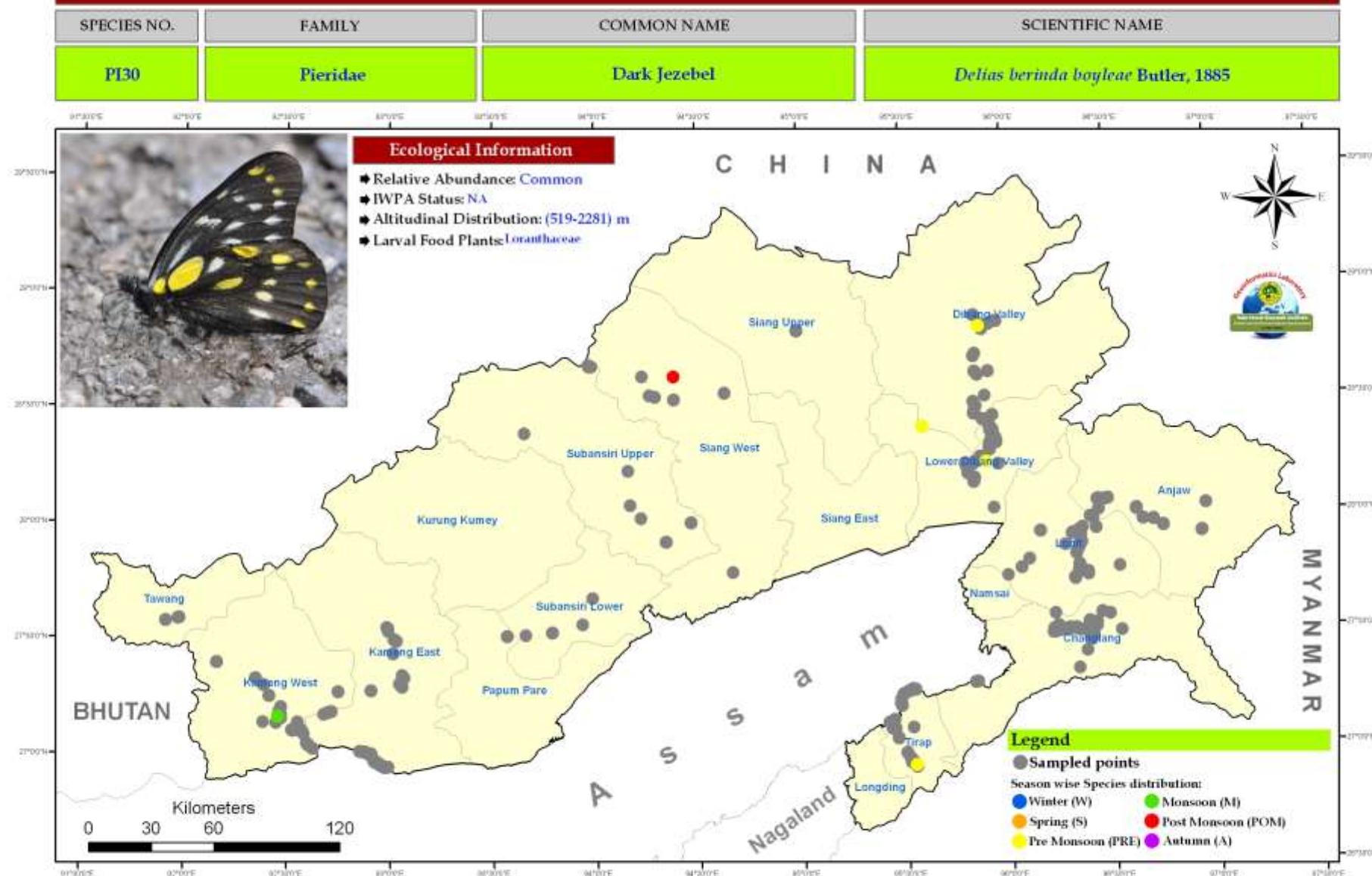
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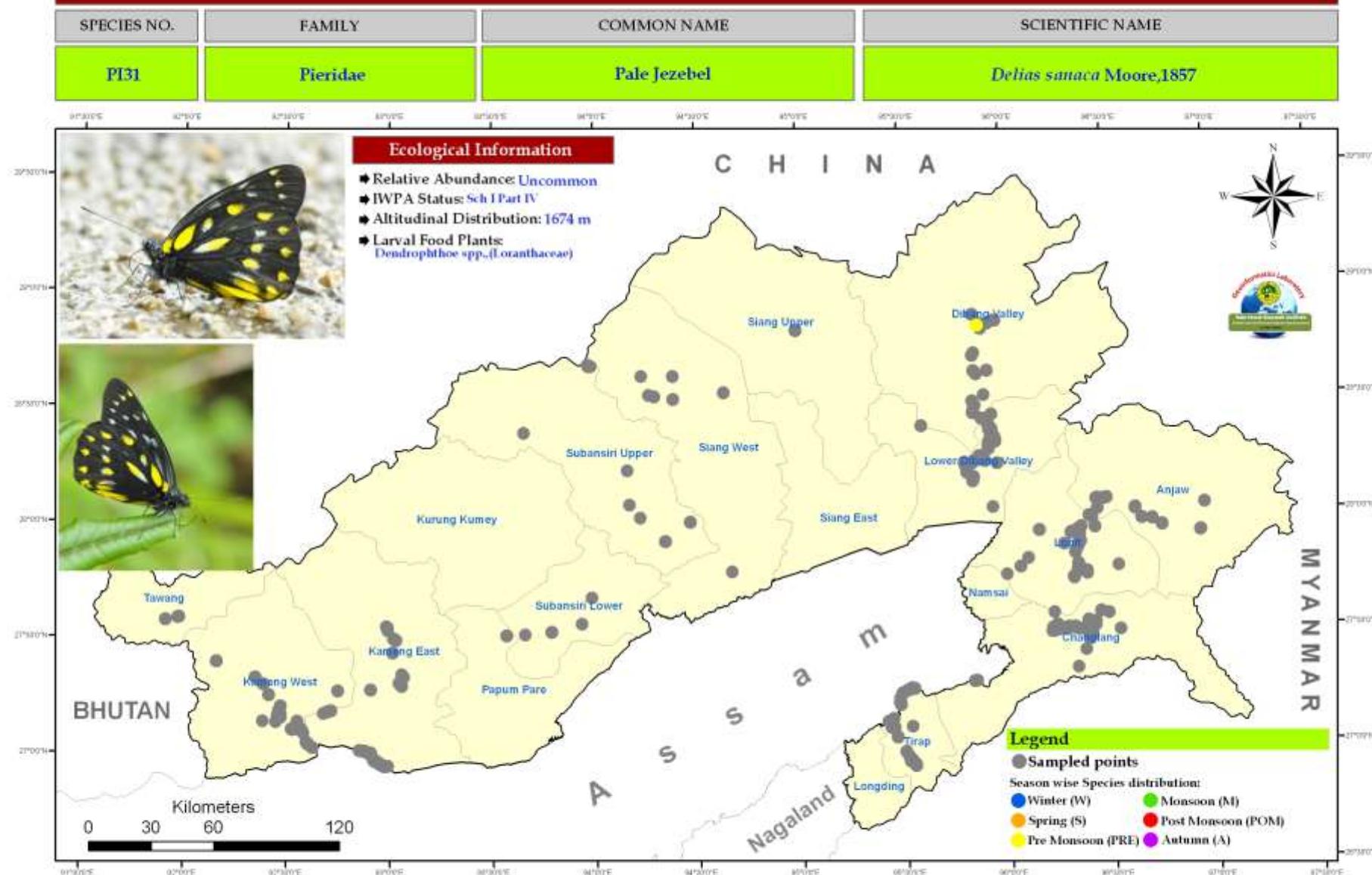
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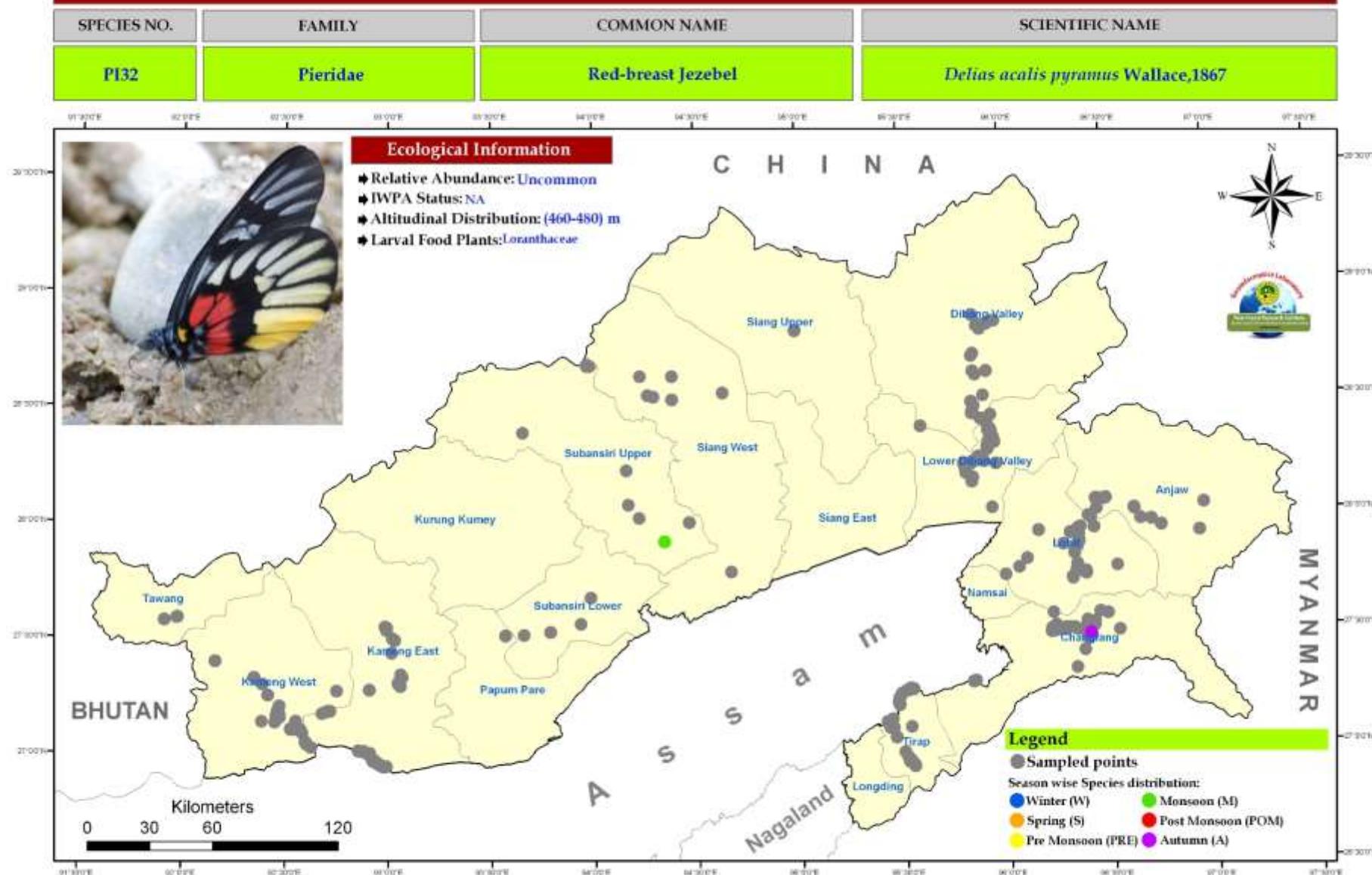
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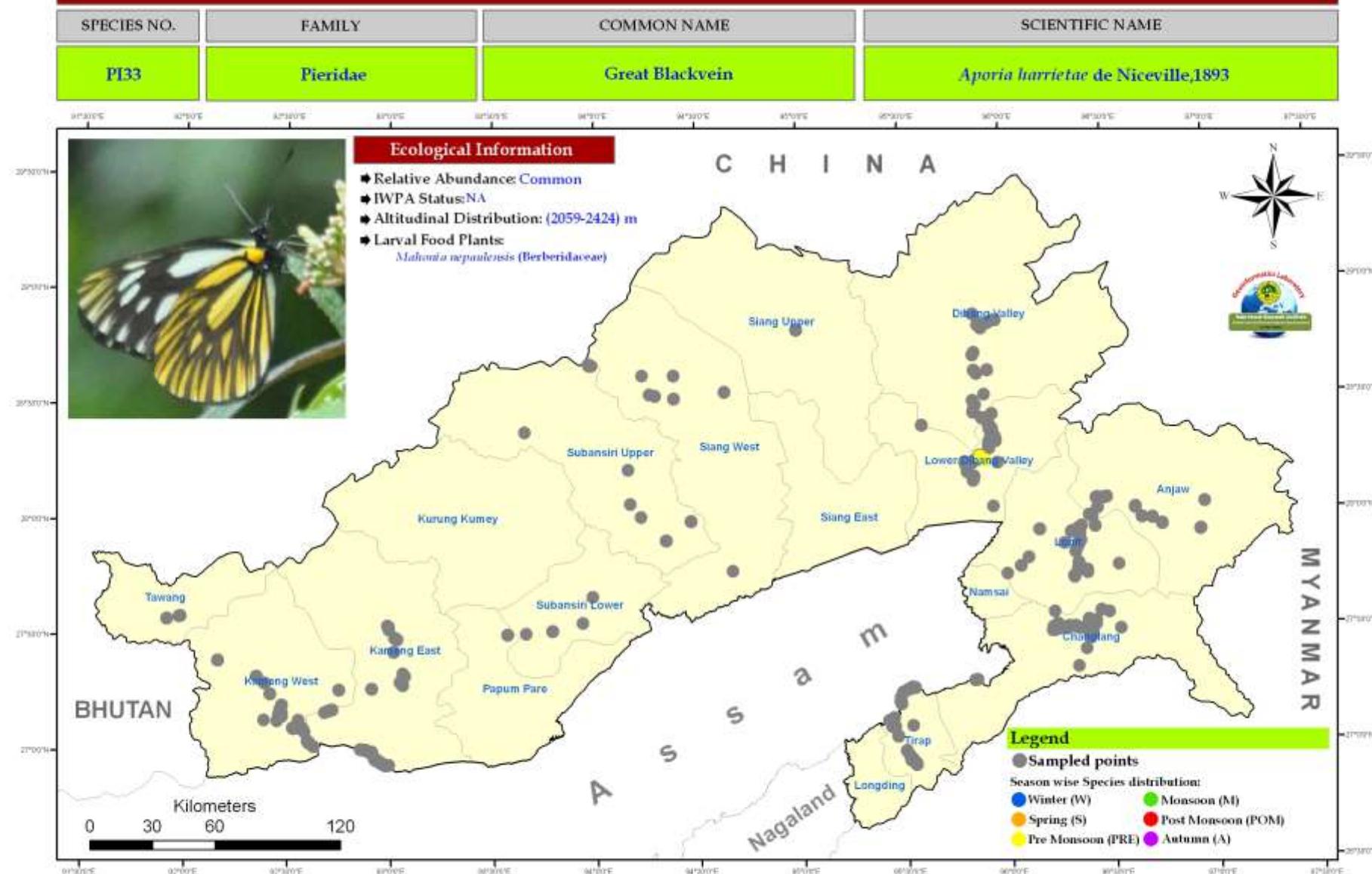
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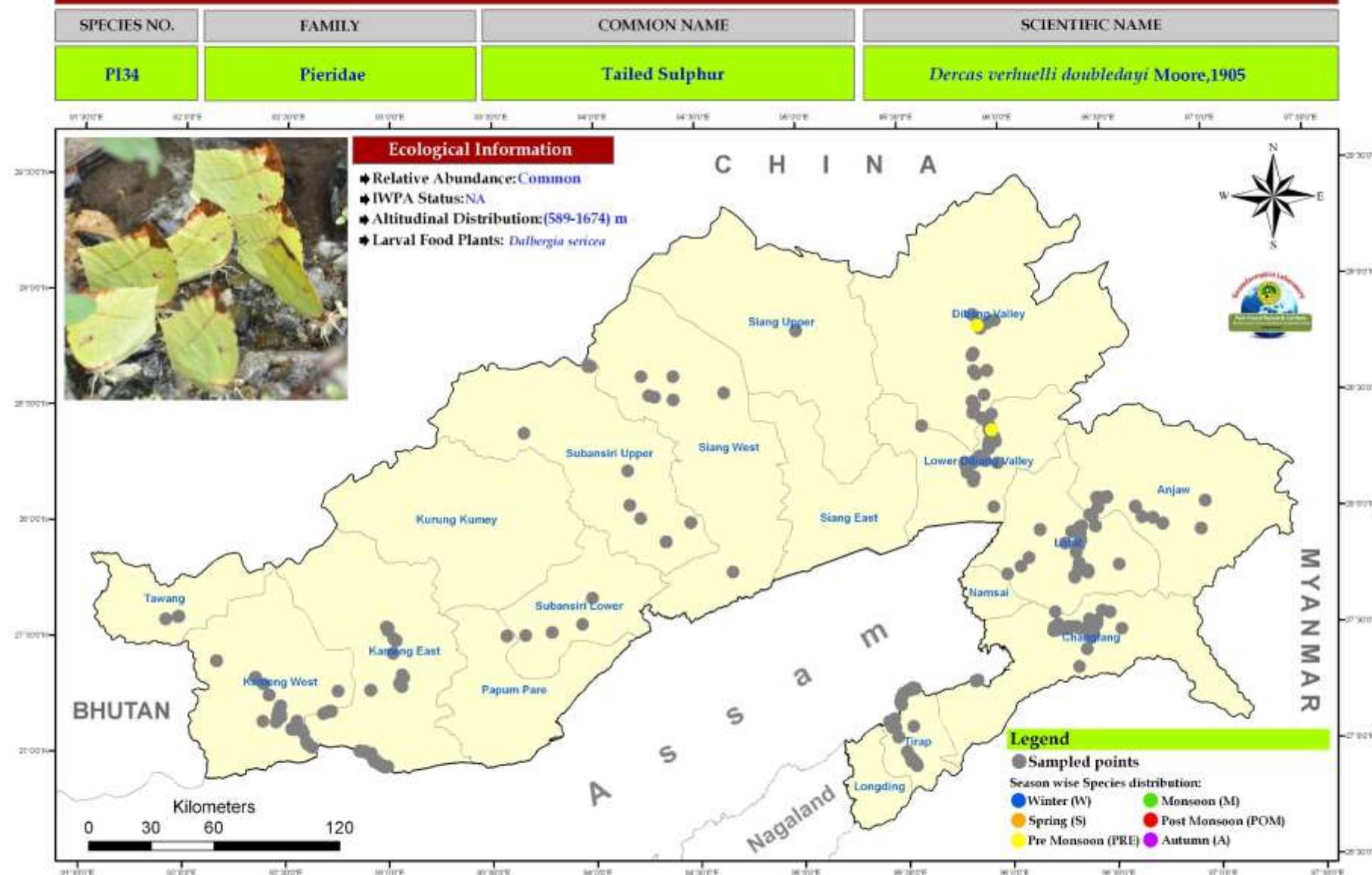
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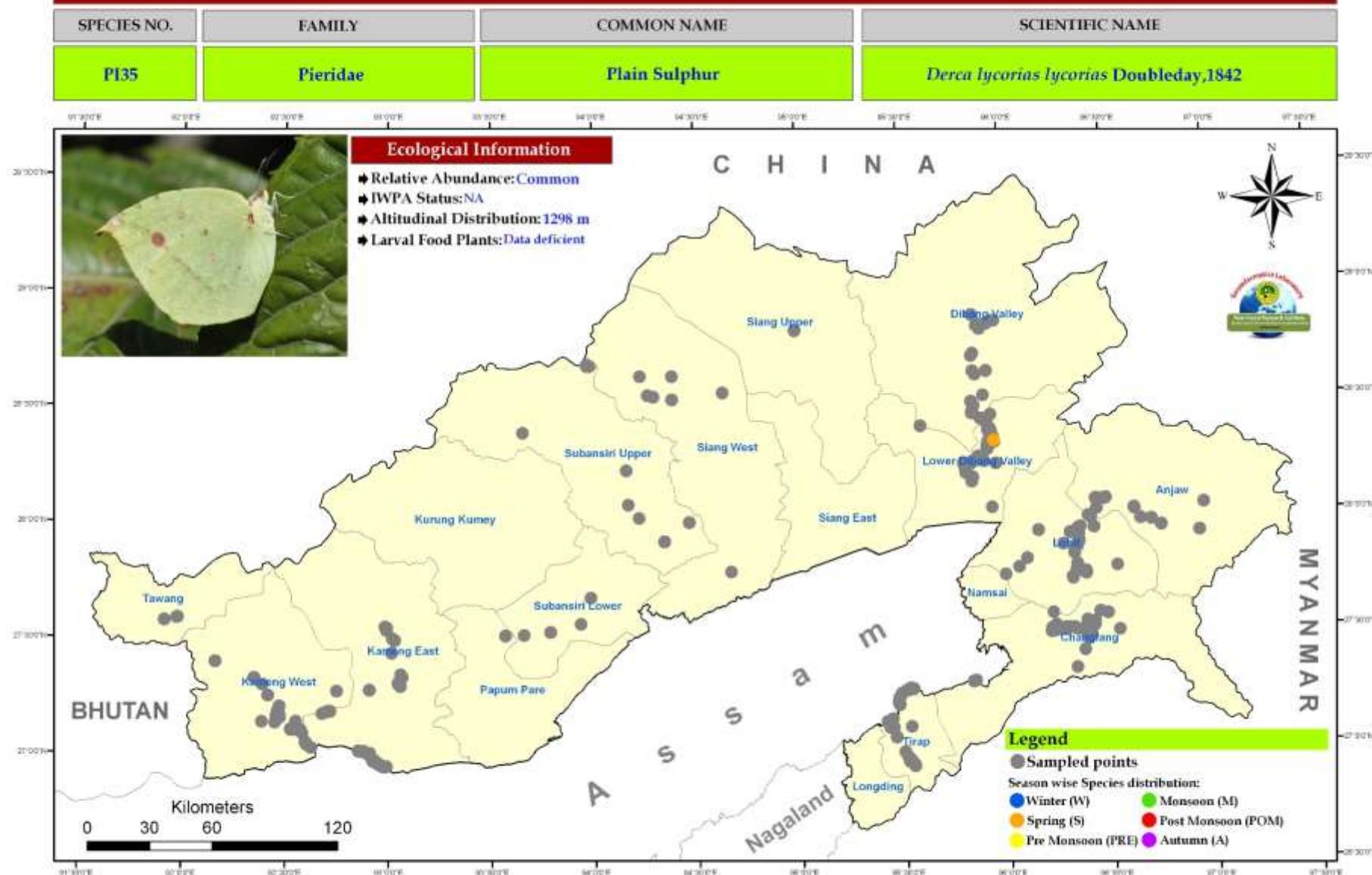
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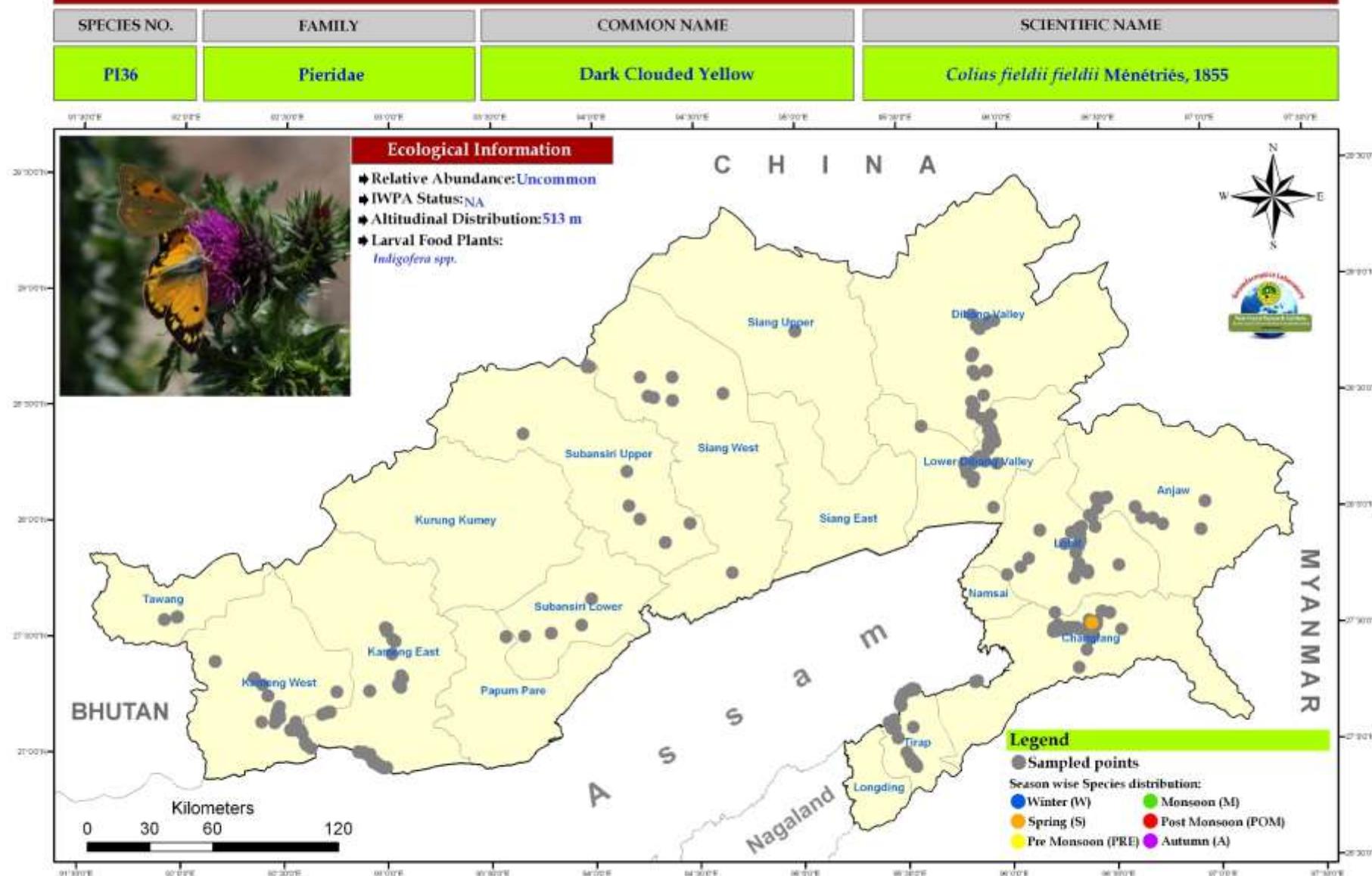
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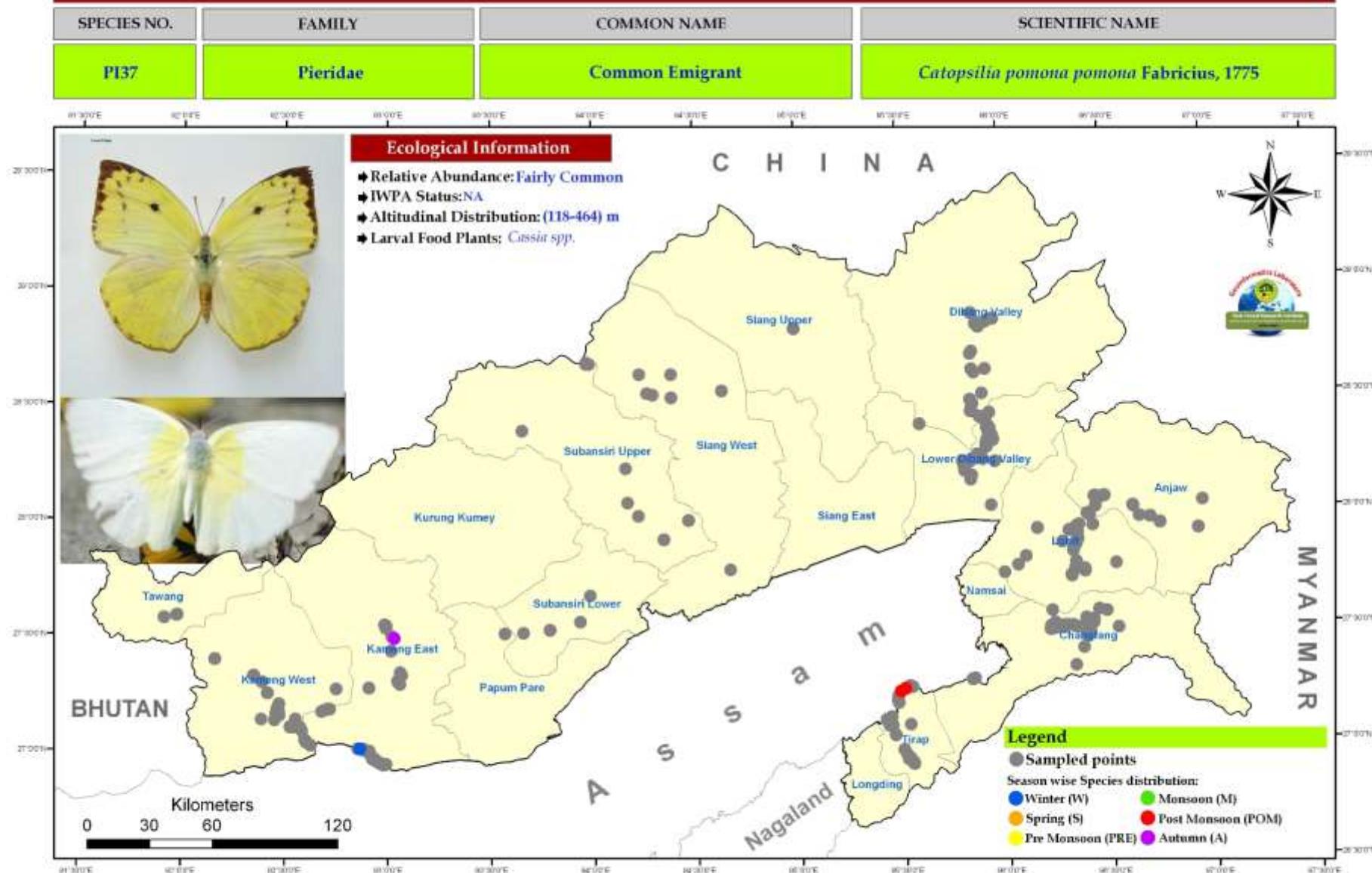
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SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA



SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA



Butterfly Distribution Maps

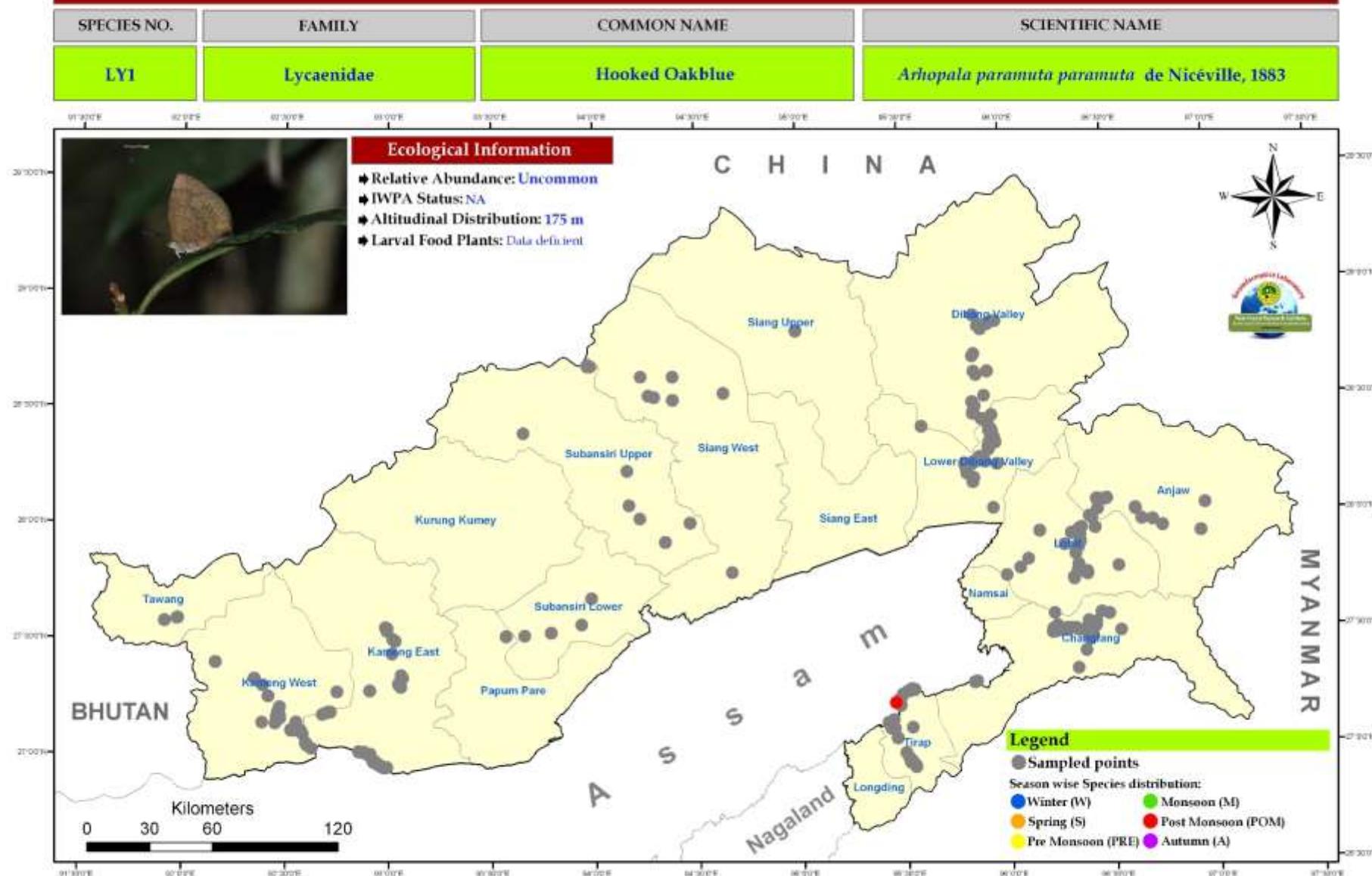
LYCAENIDAE

(Blues)

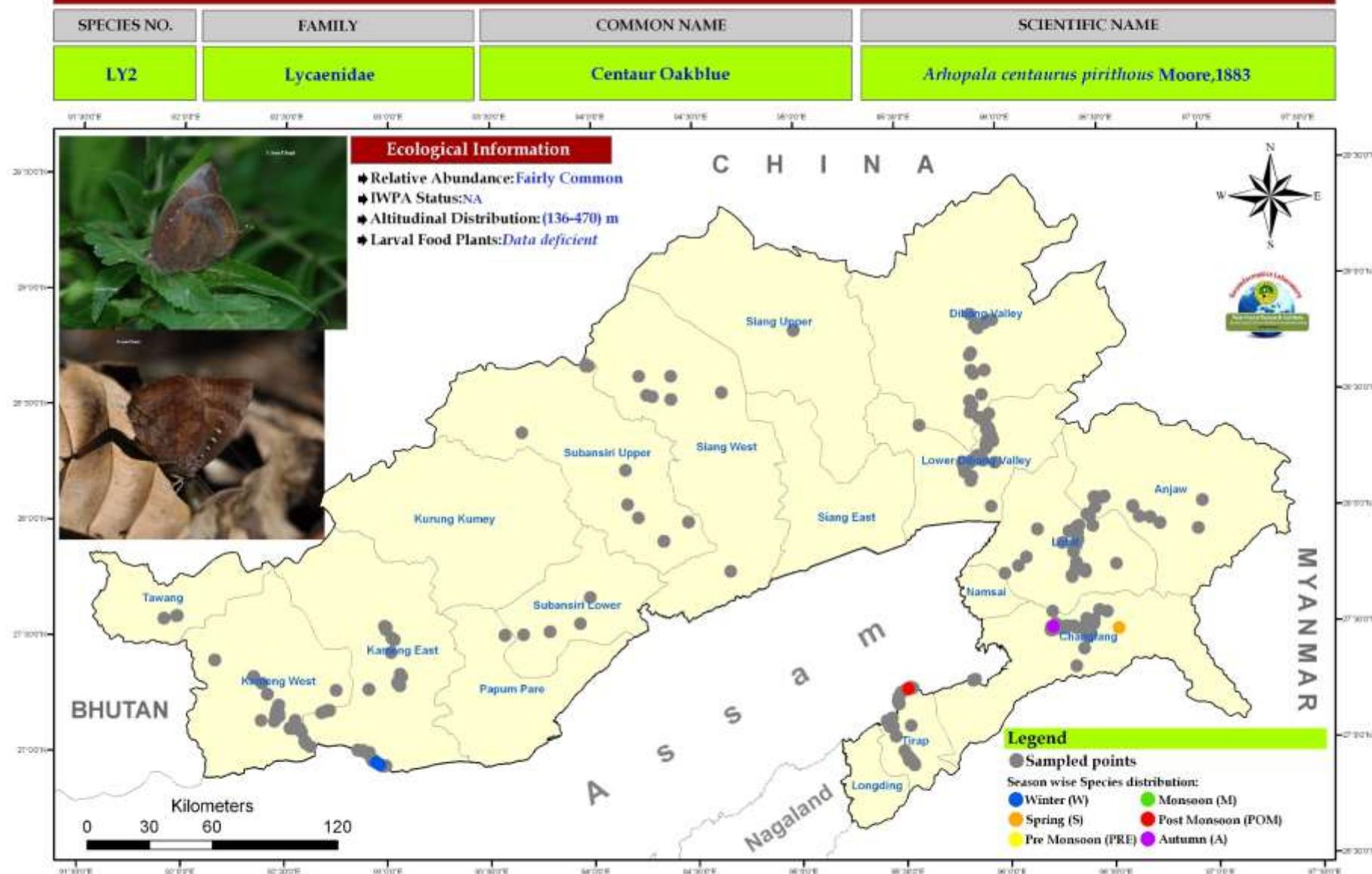
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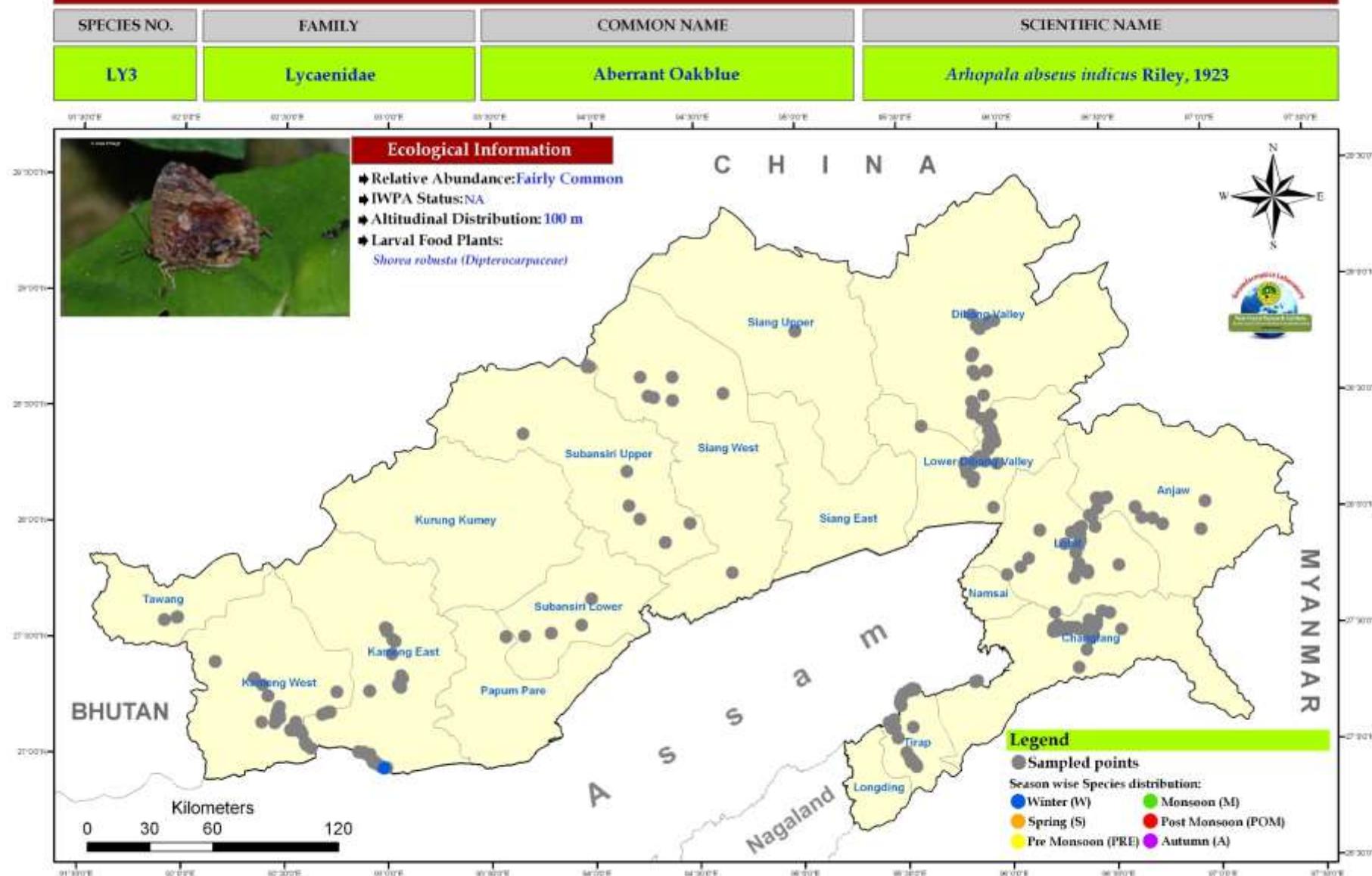
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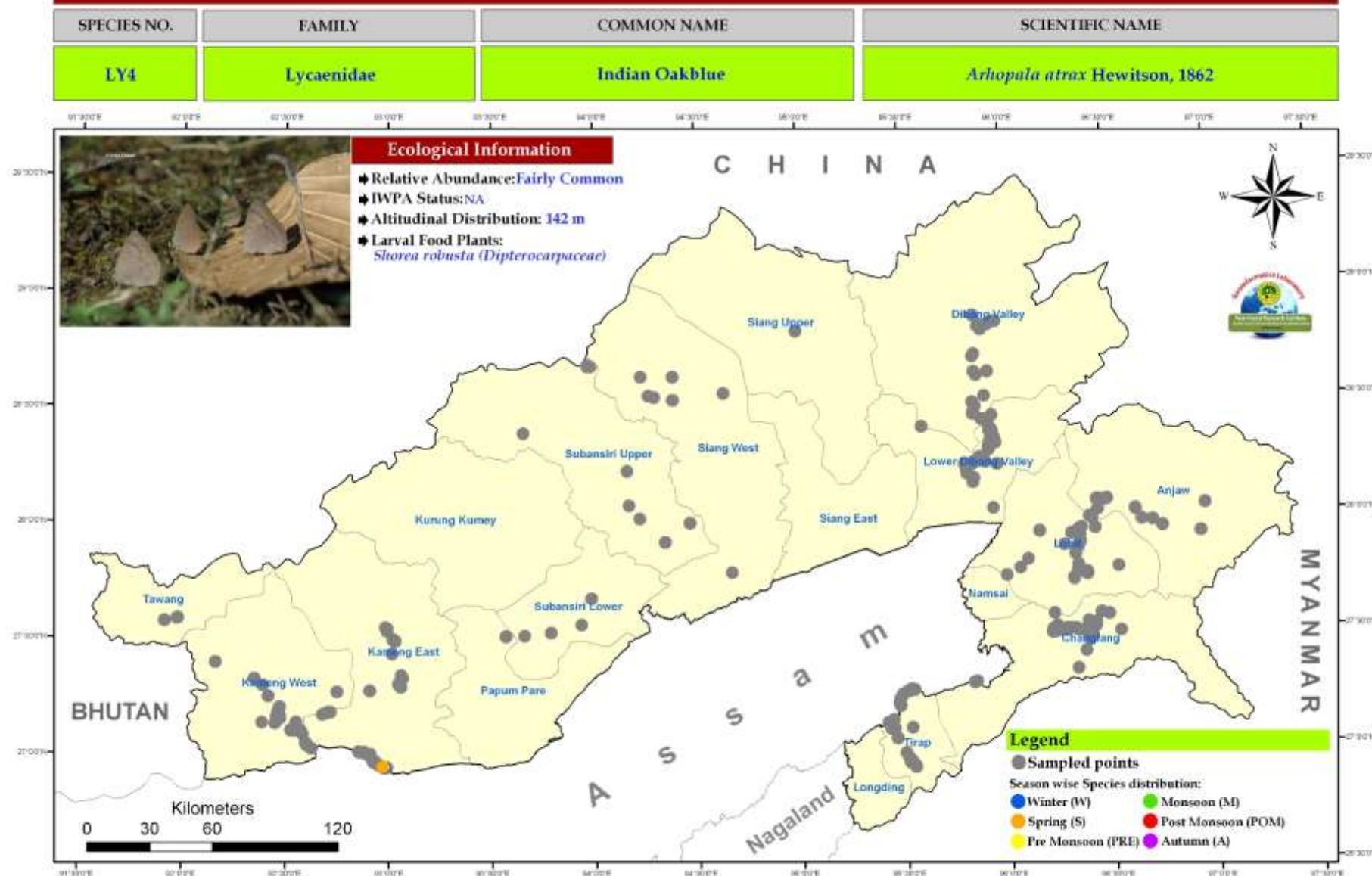
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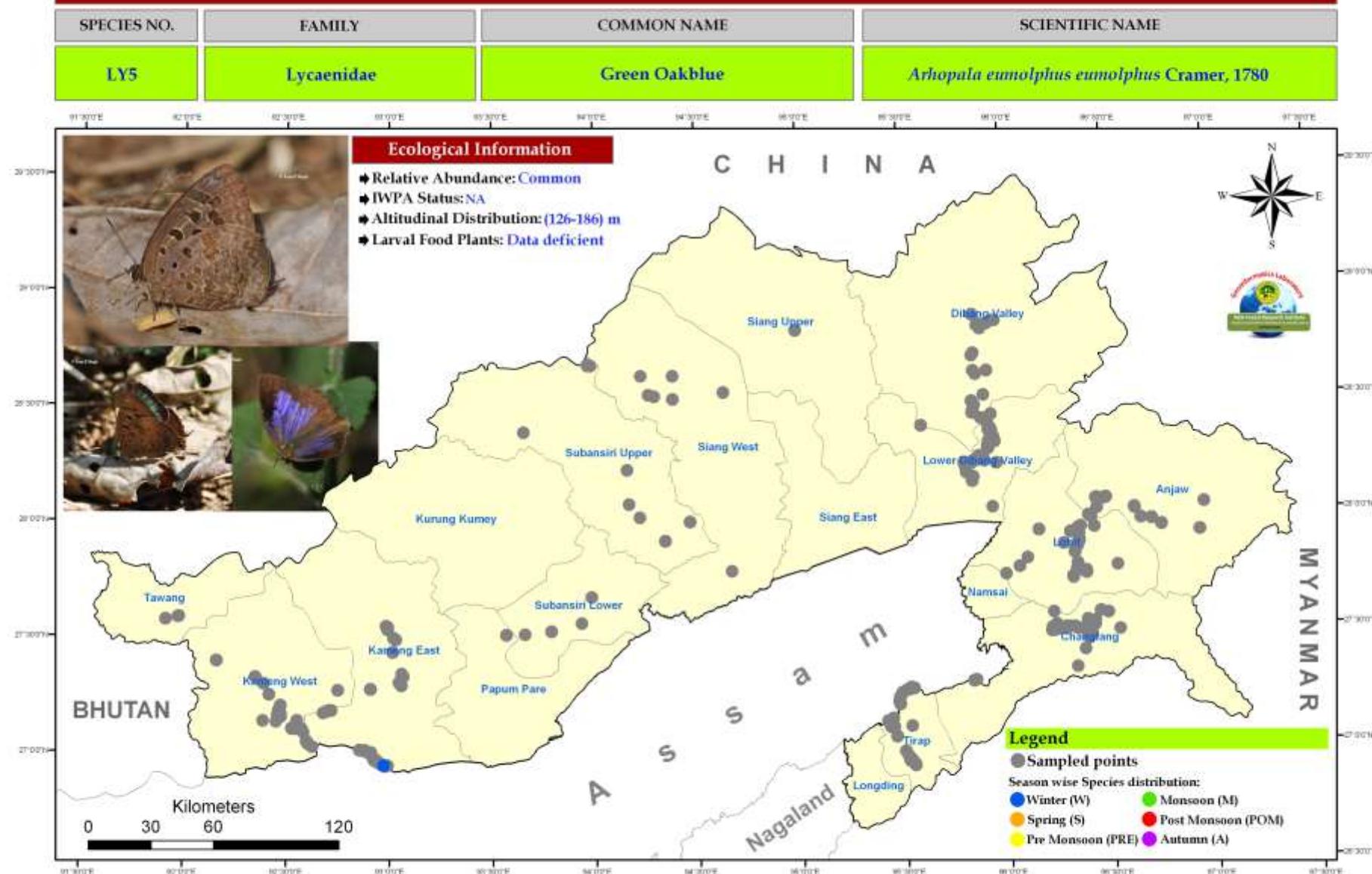
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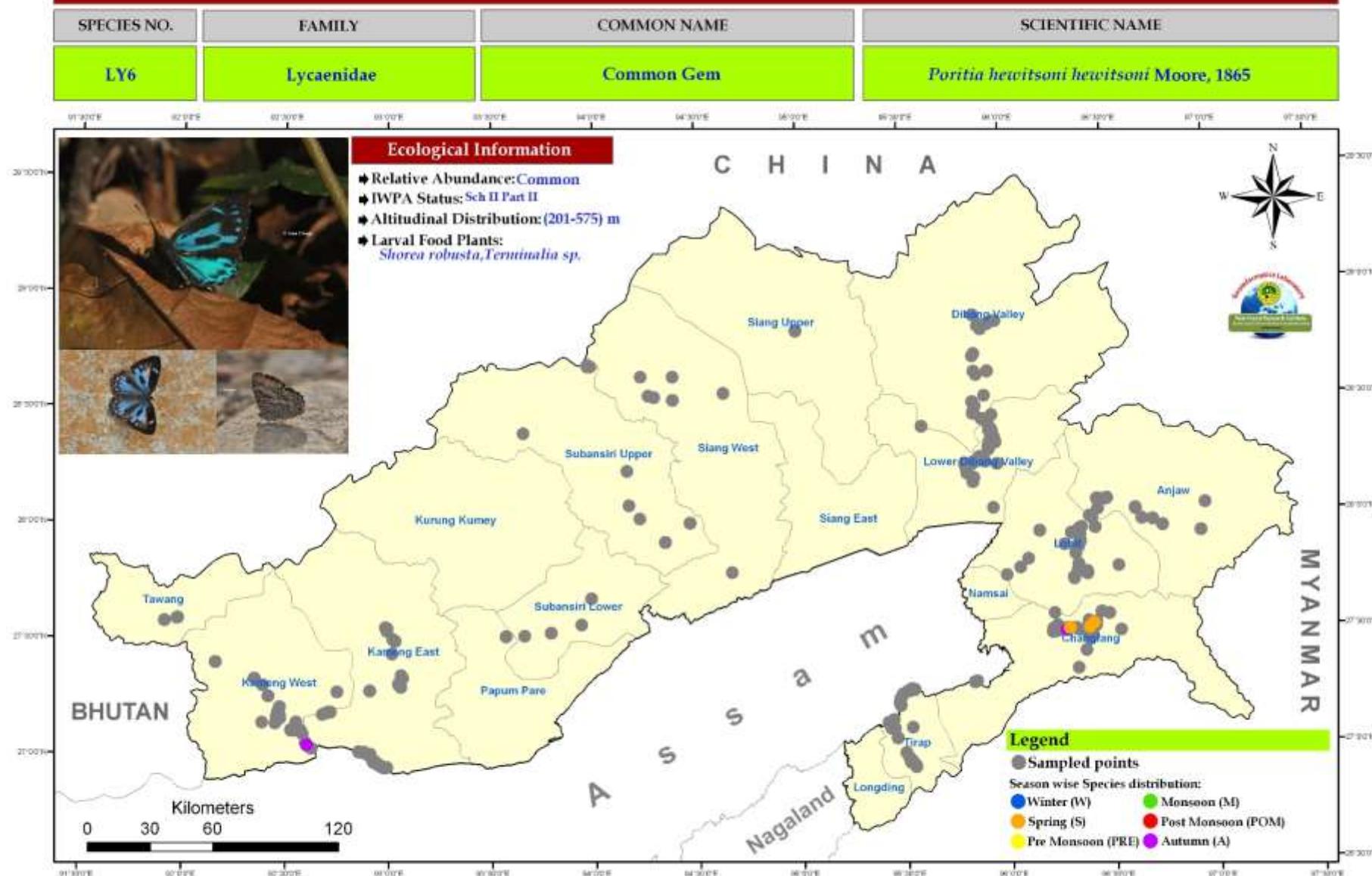
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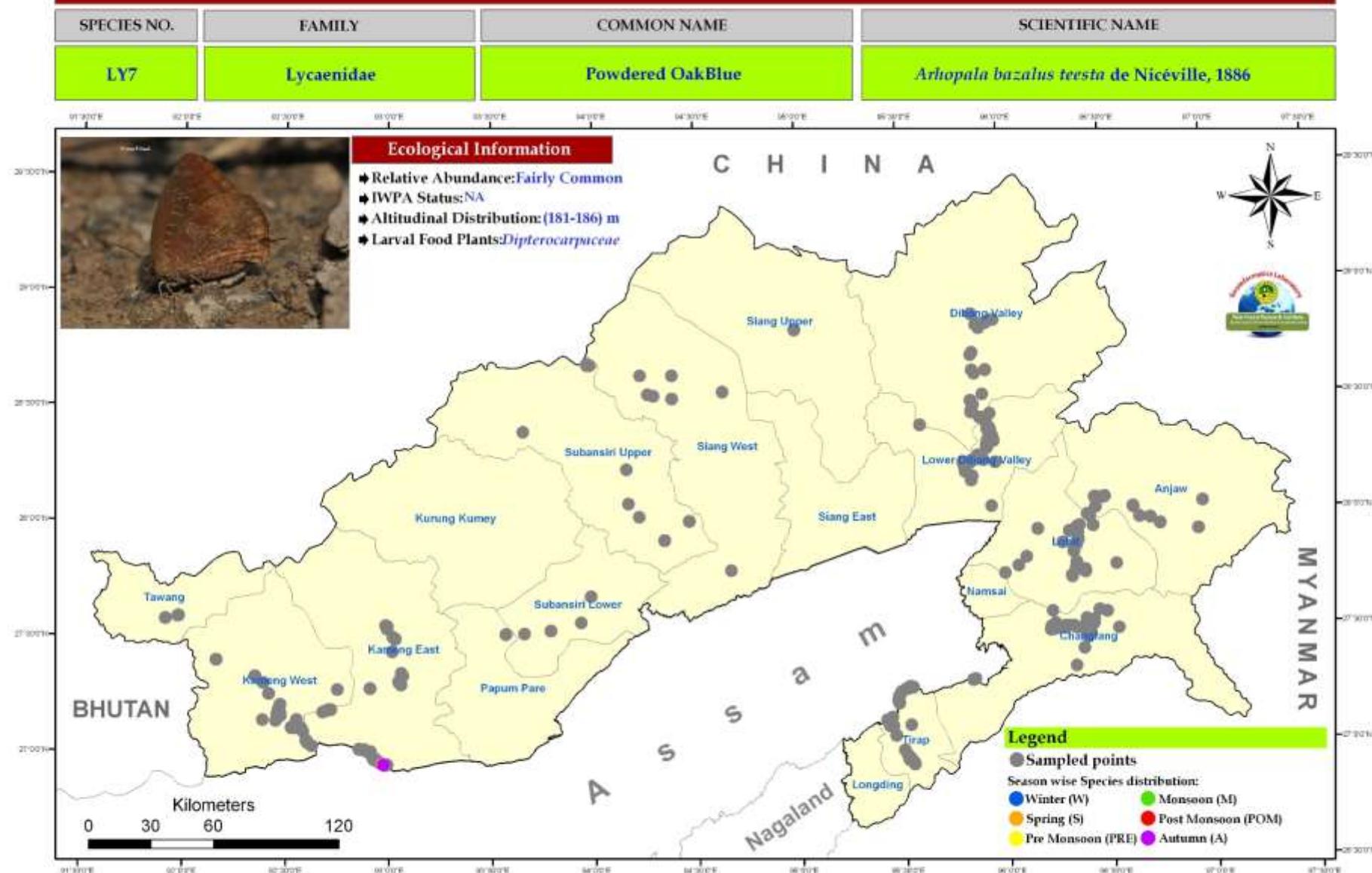
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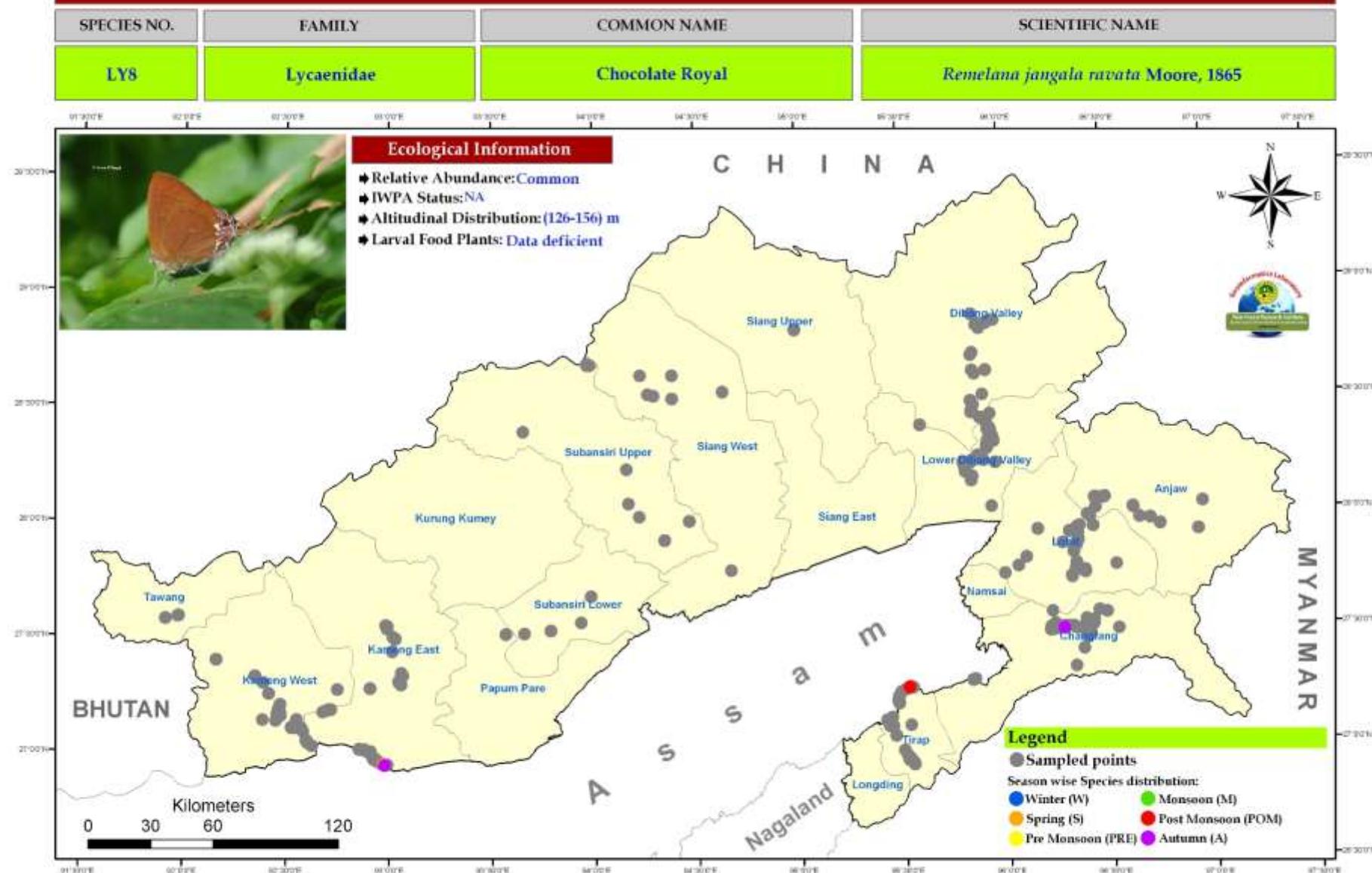
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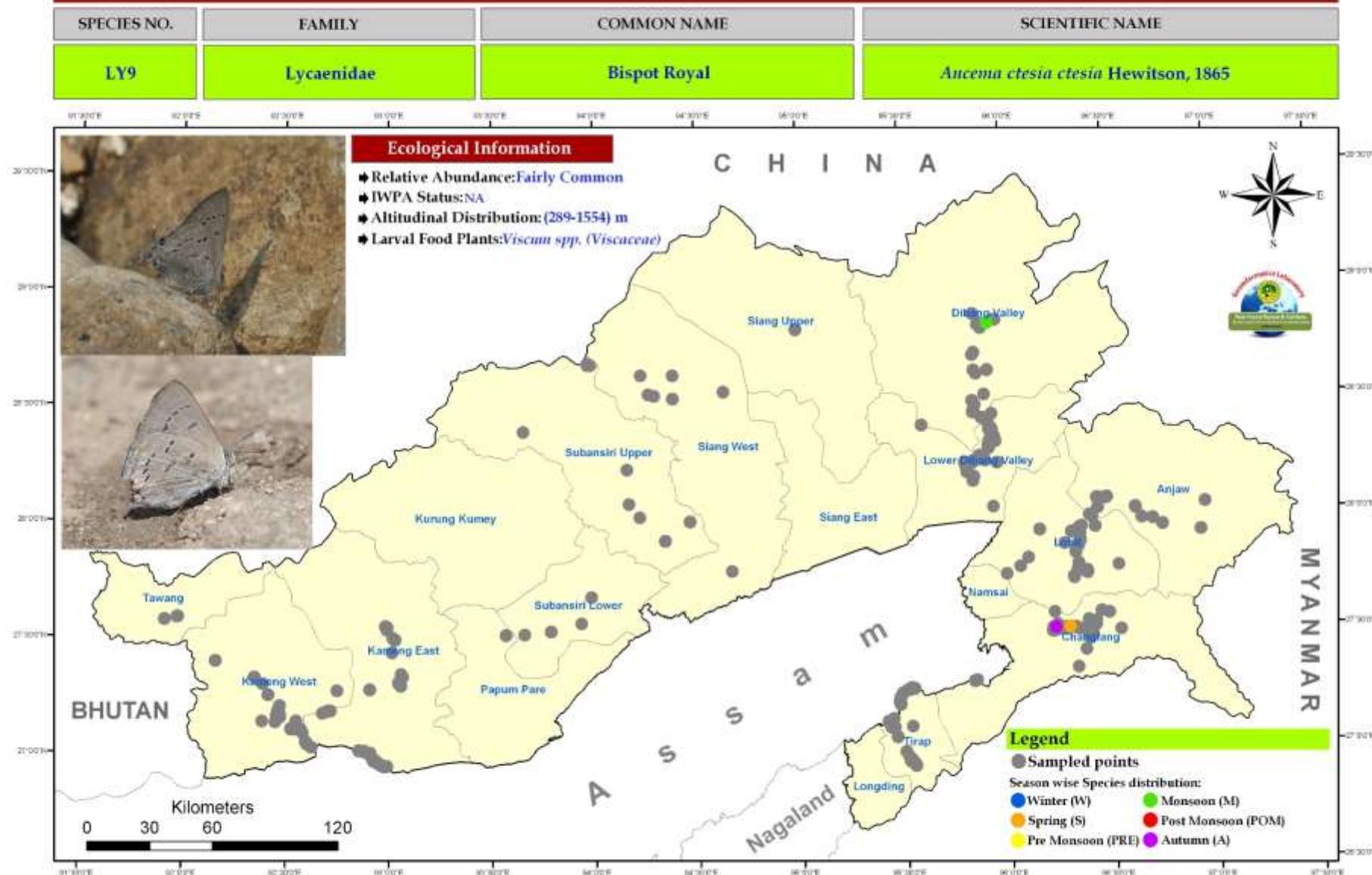
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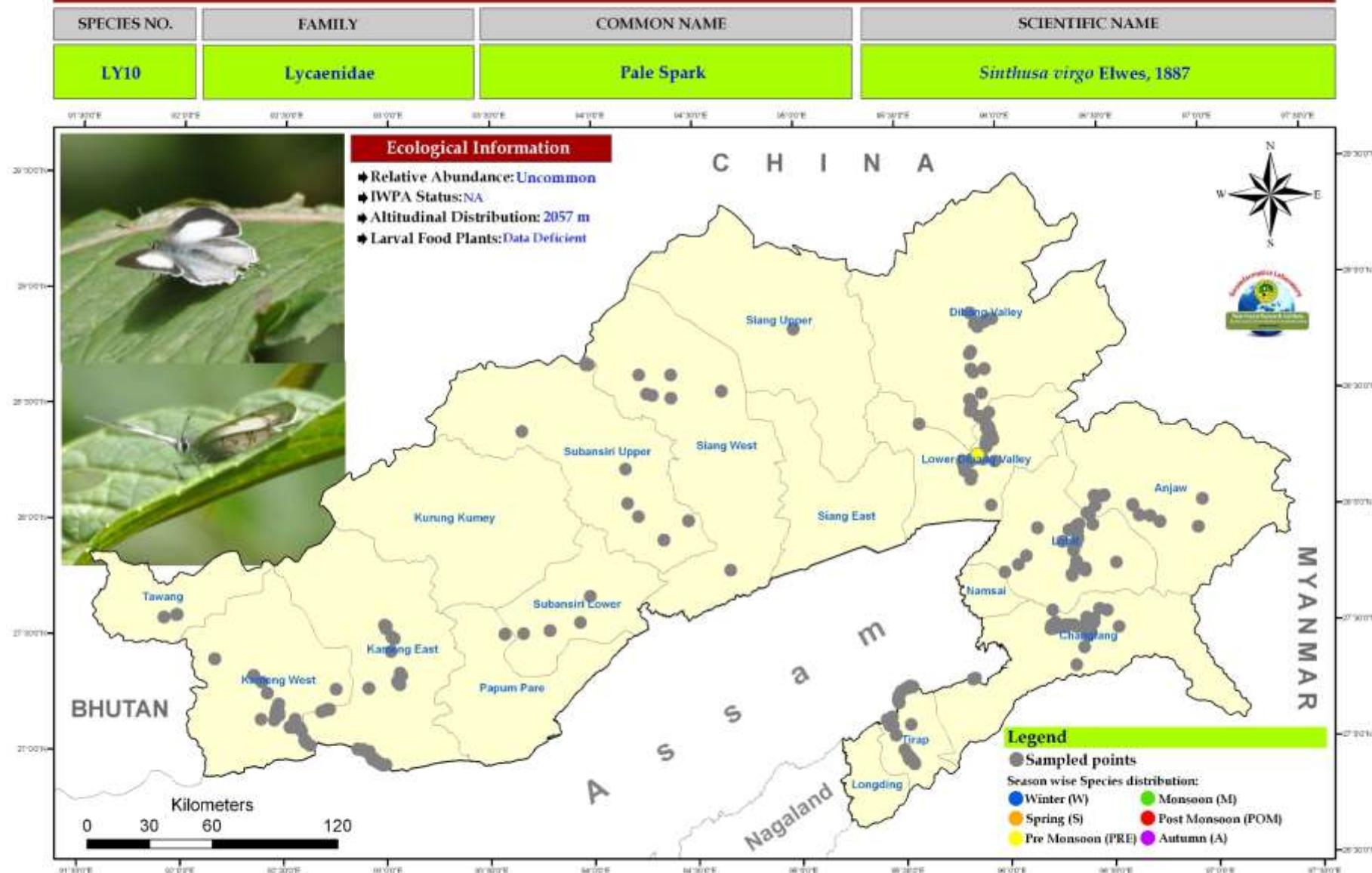
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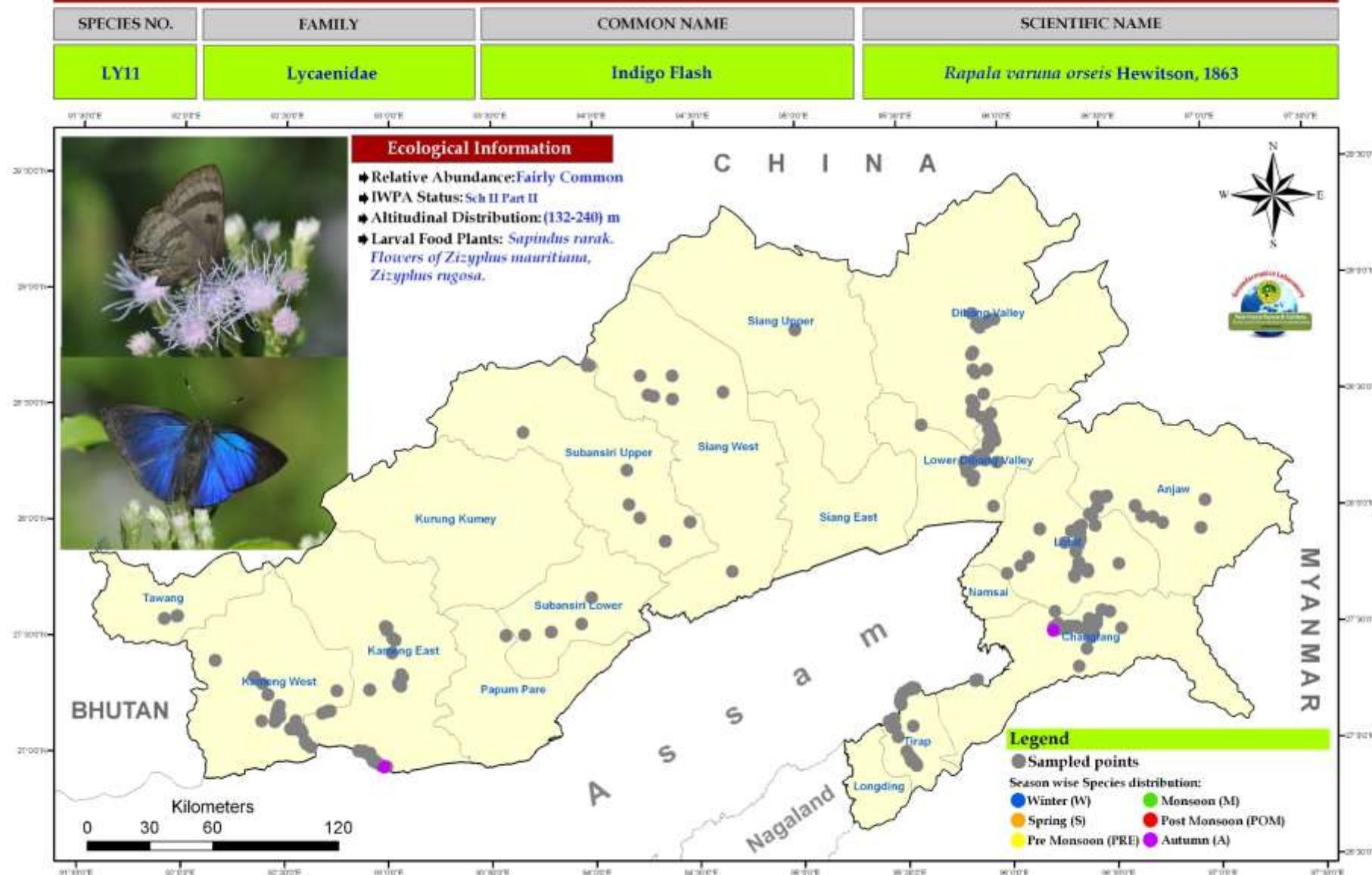
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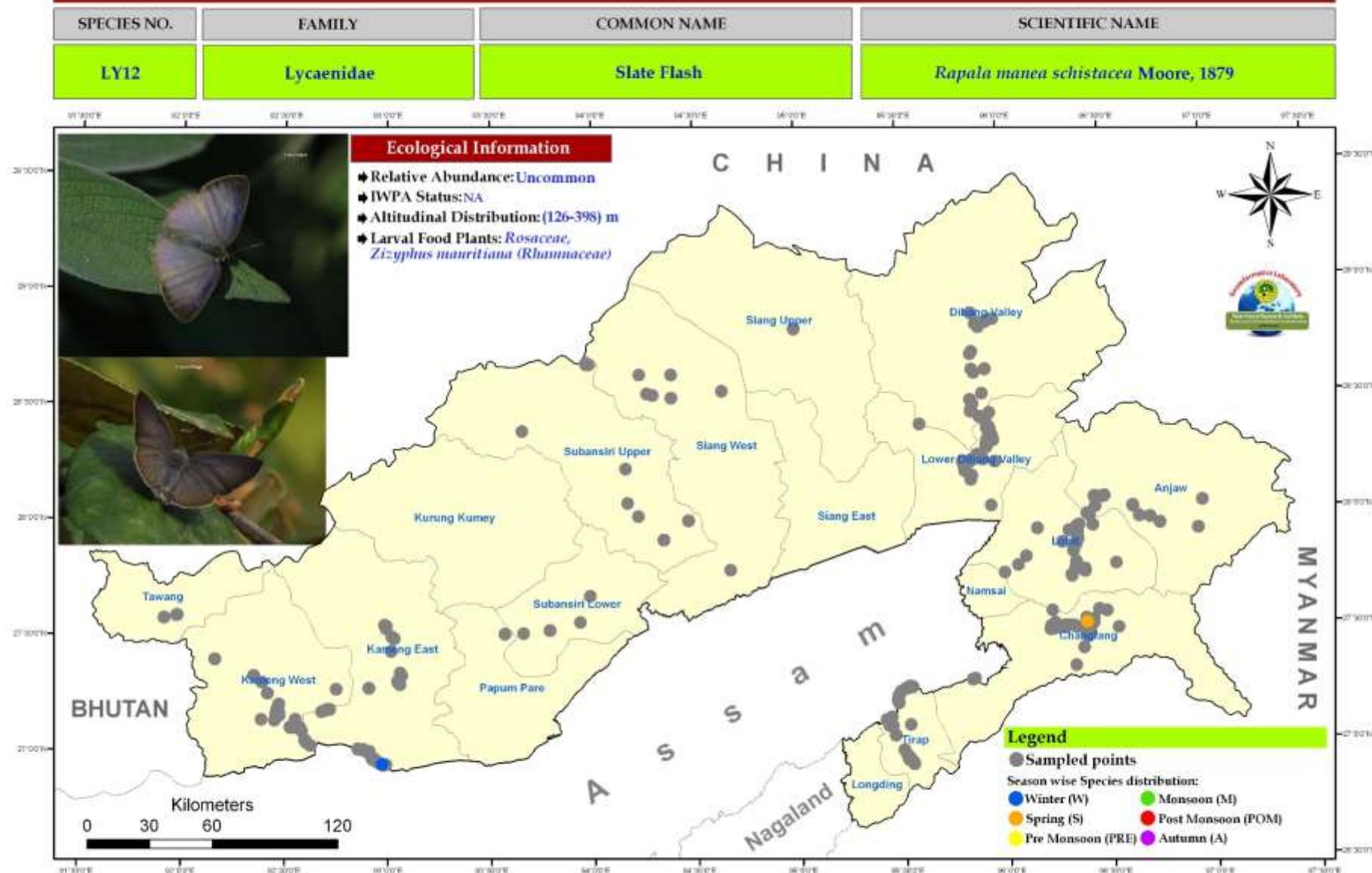
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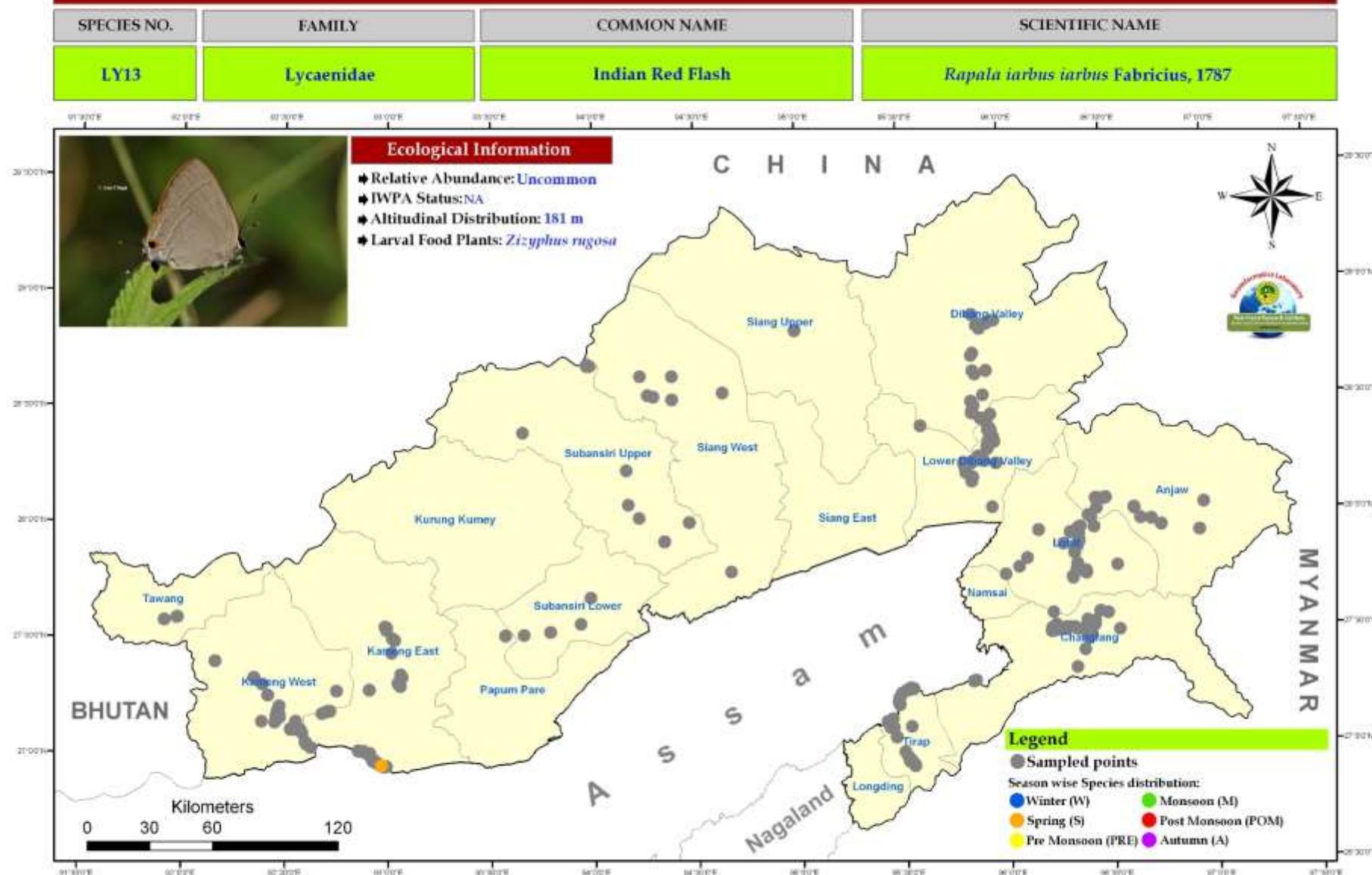
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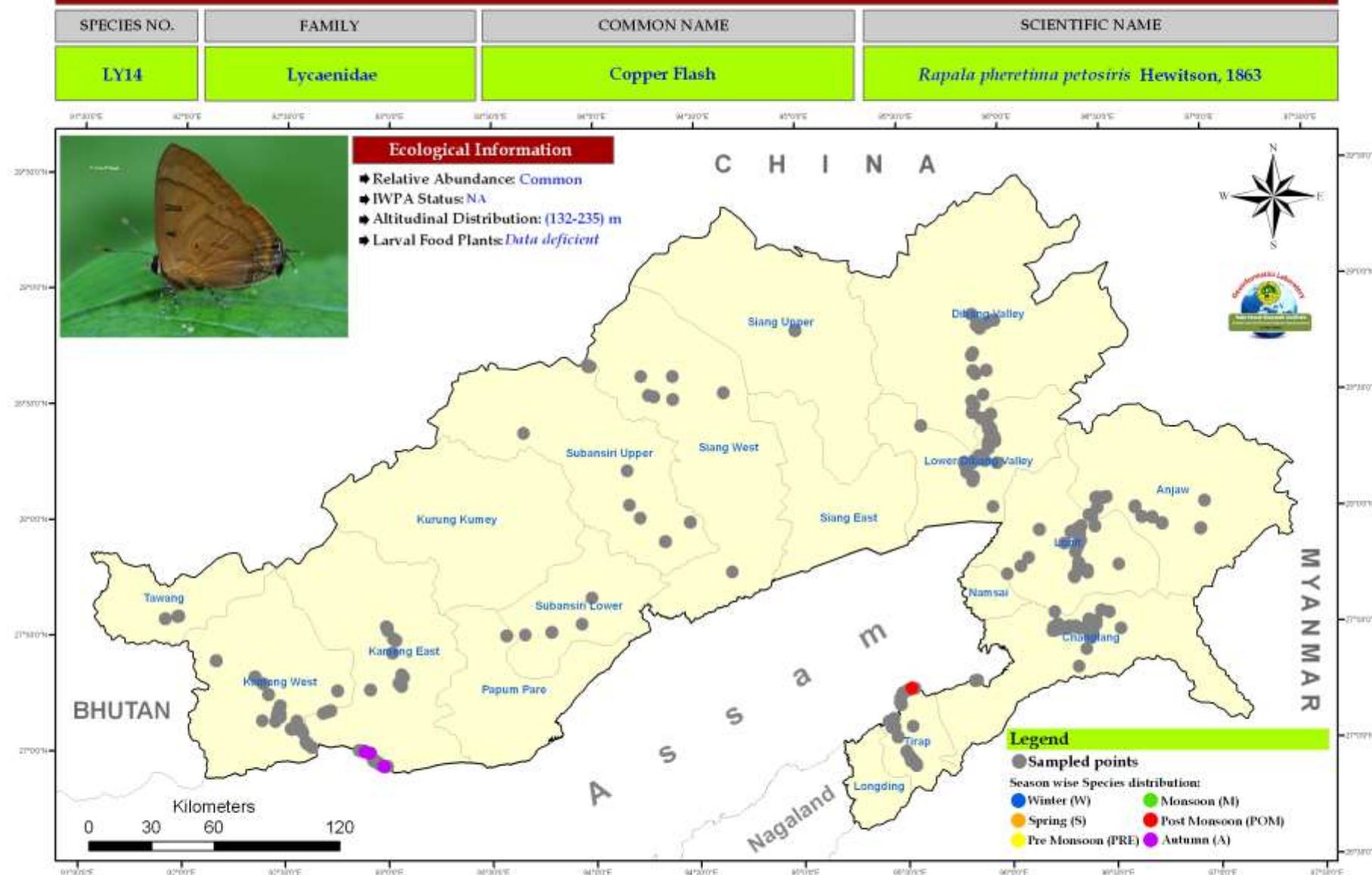
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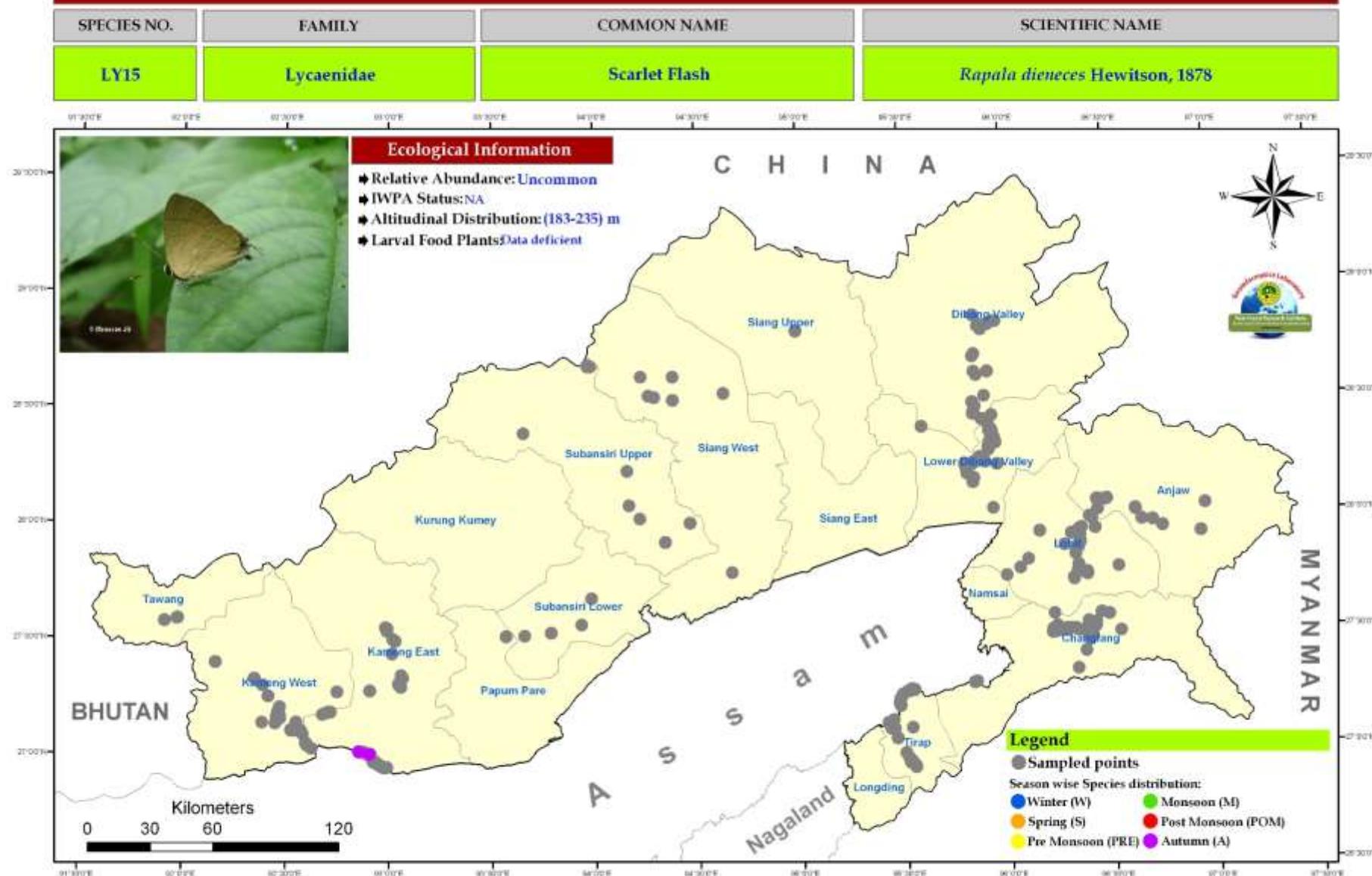
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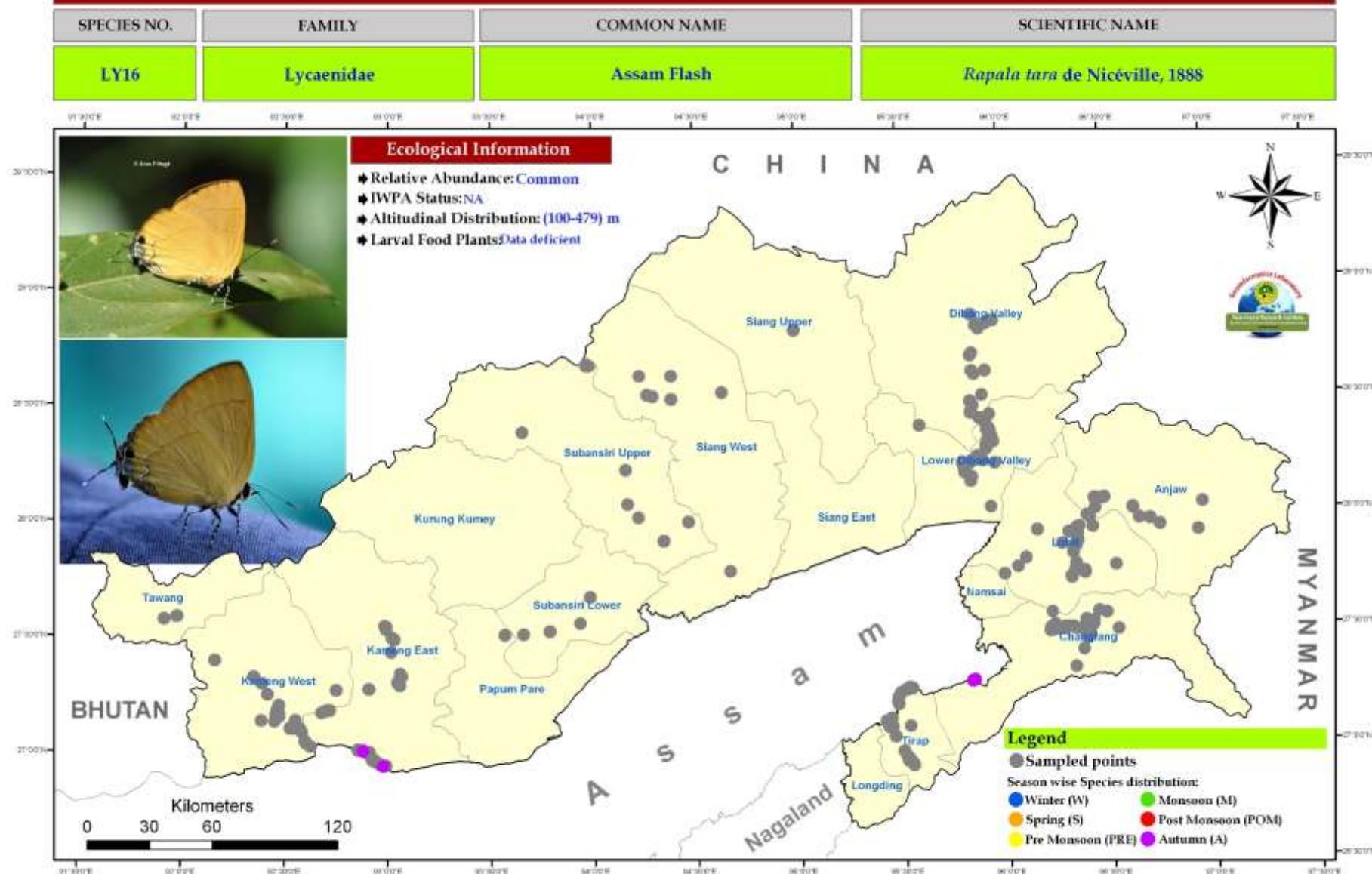
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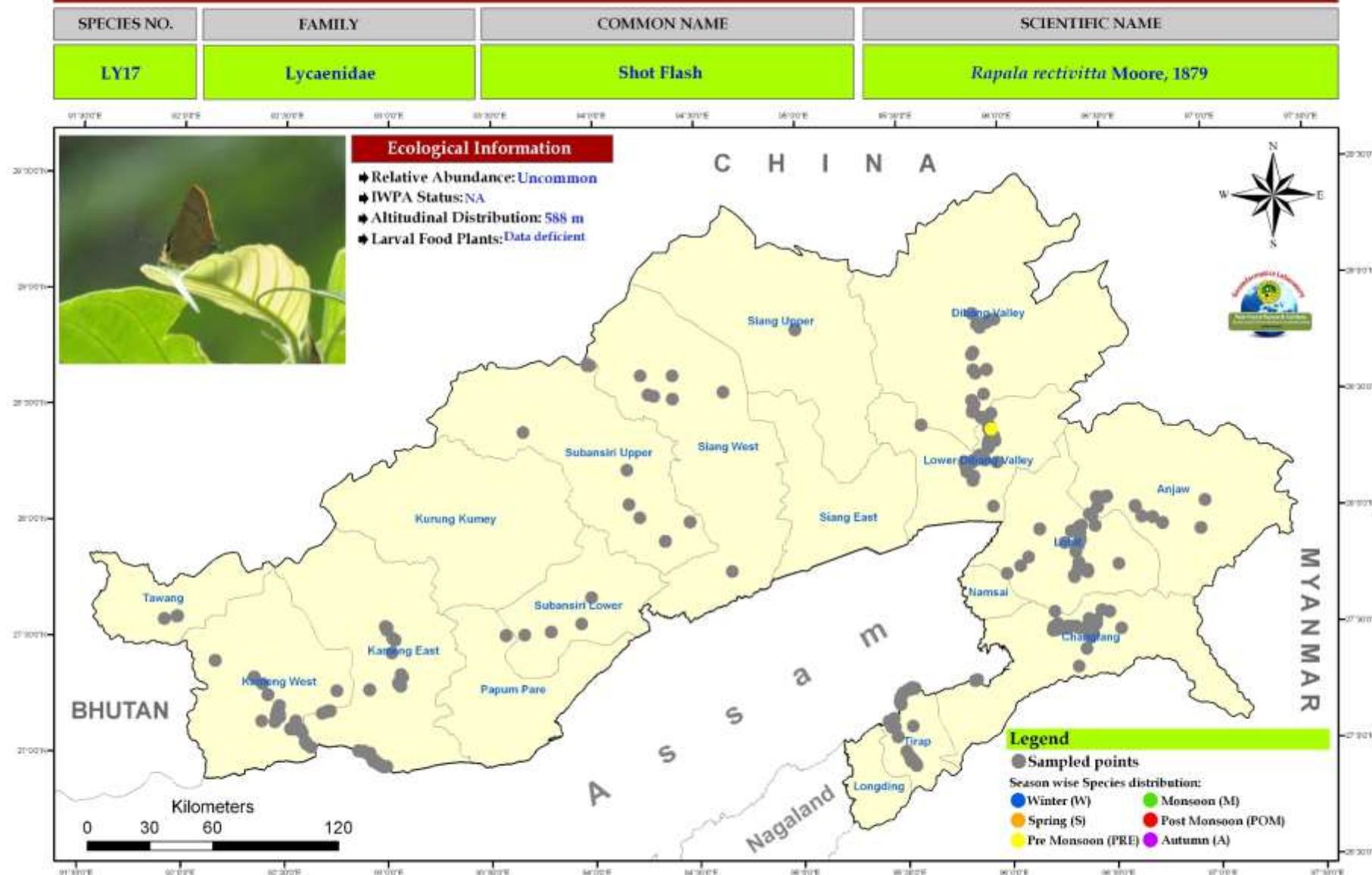
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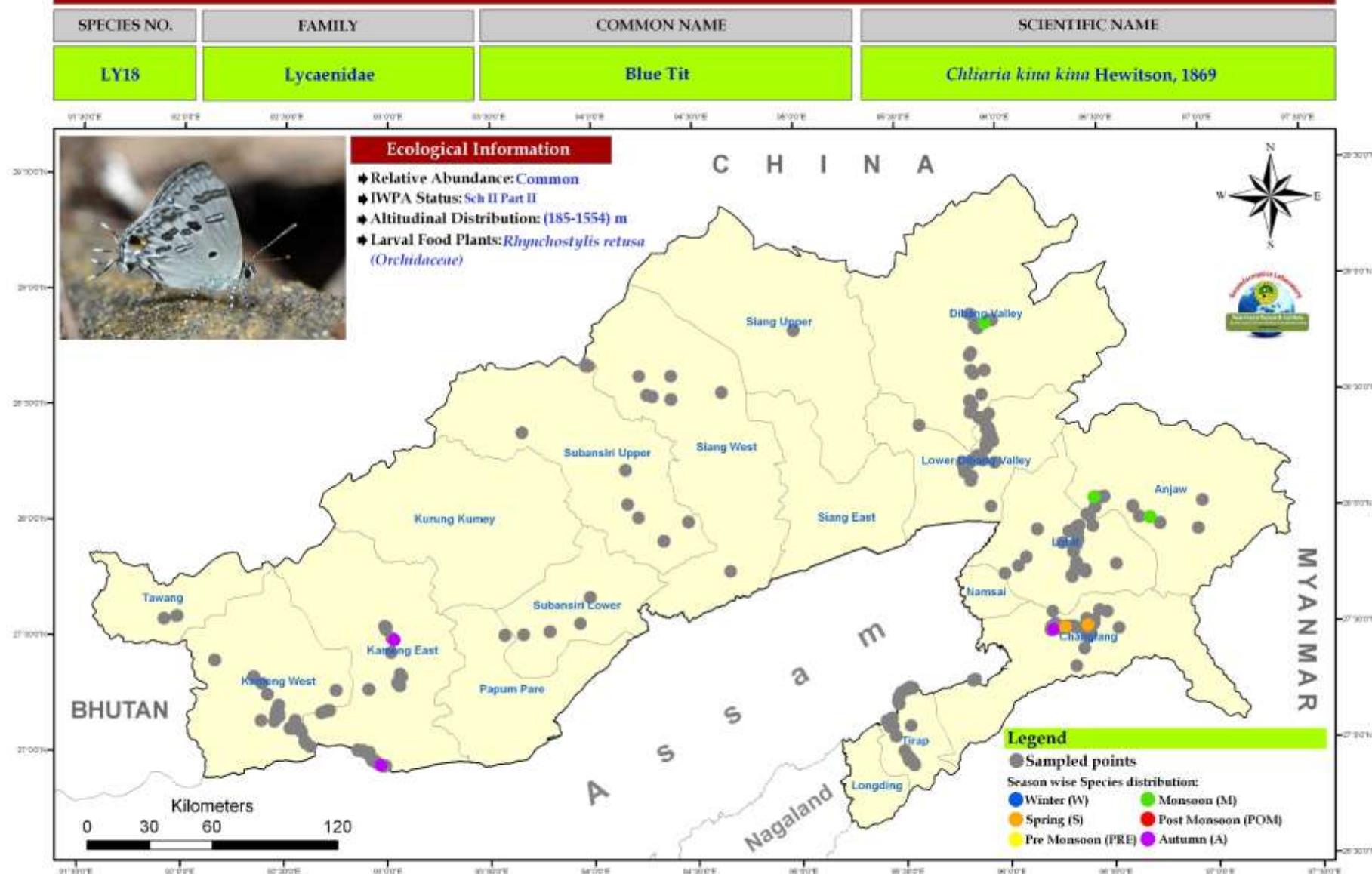
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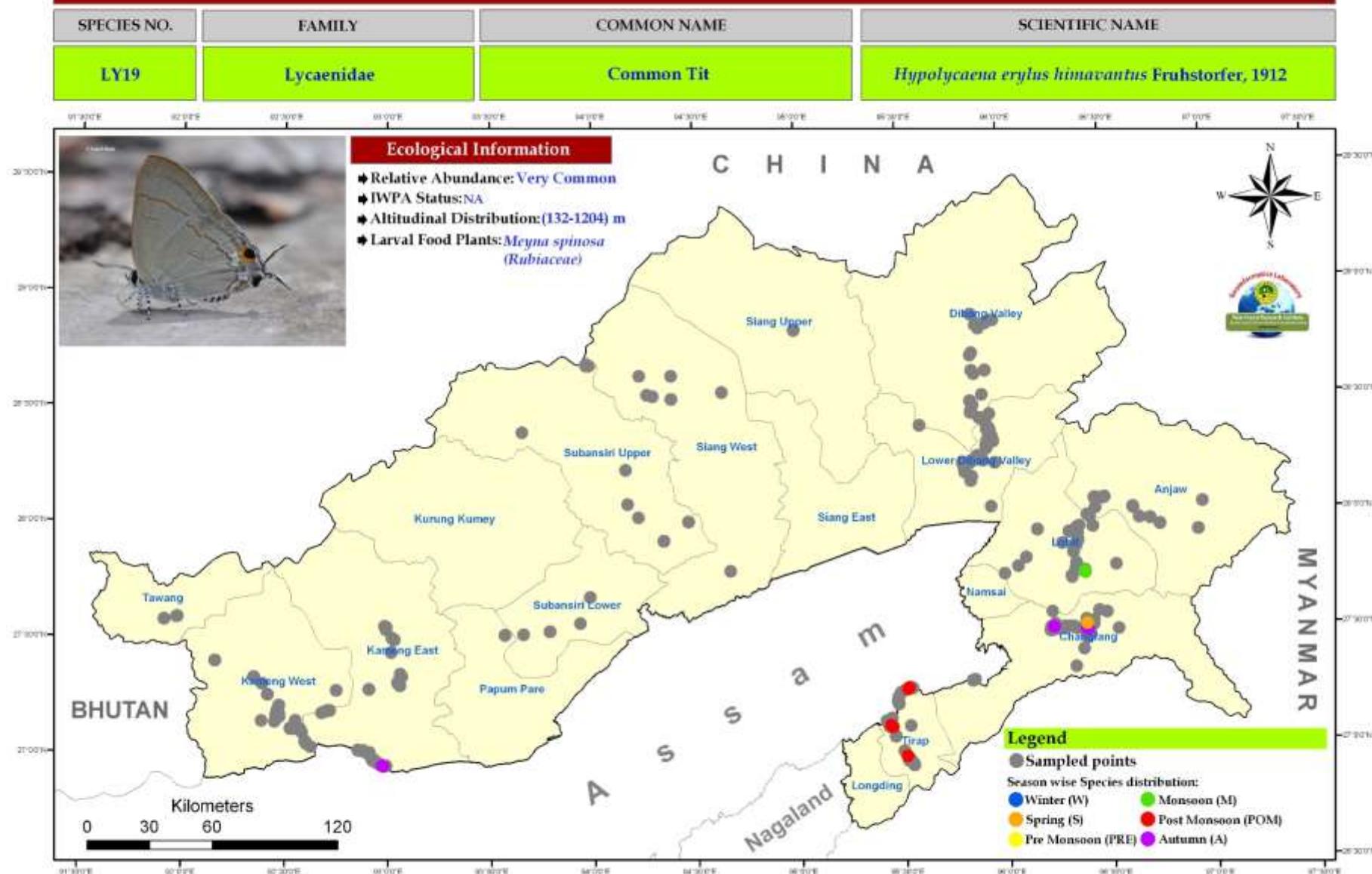
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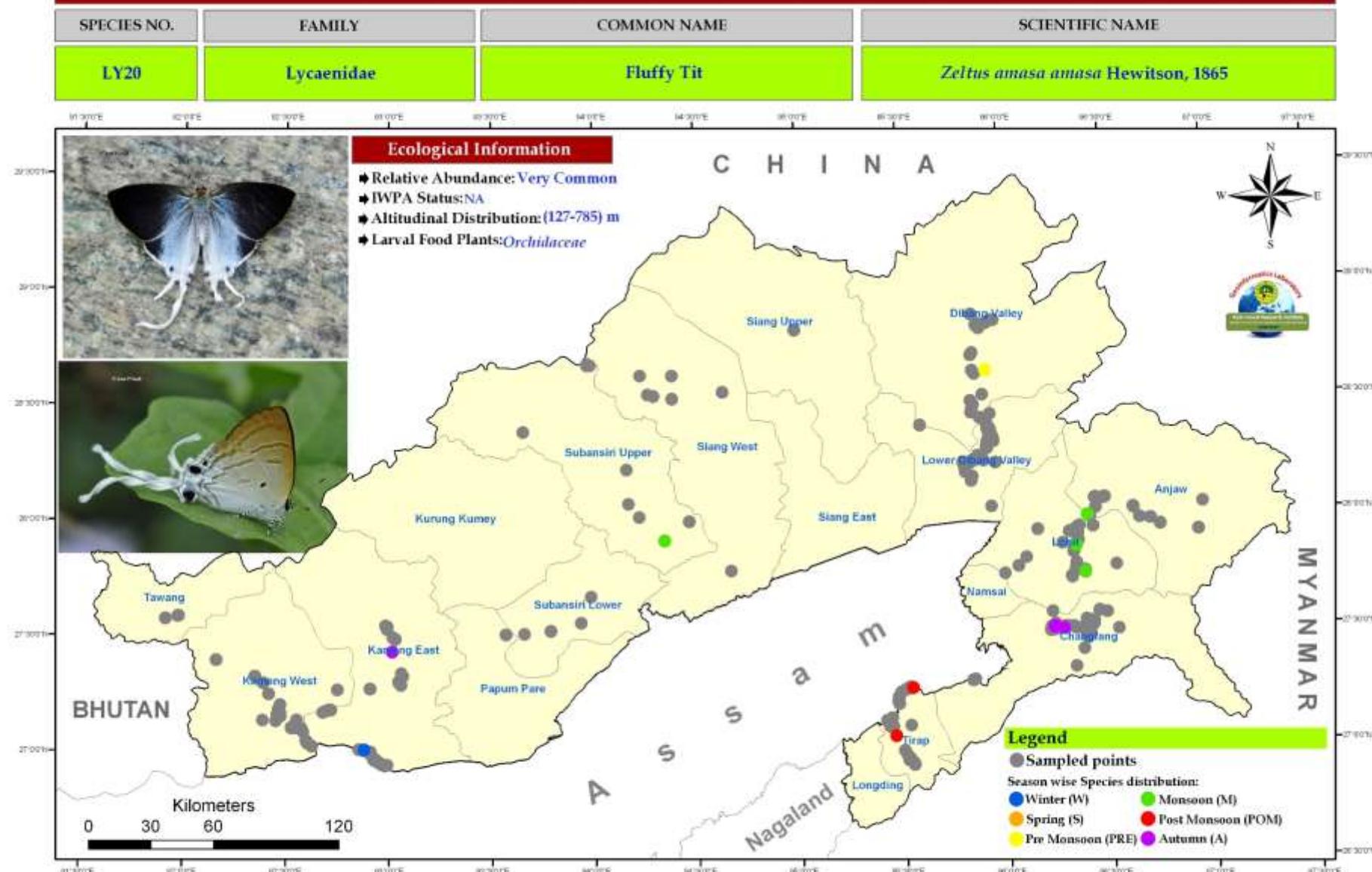
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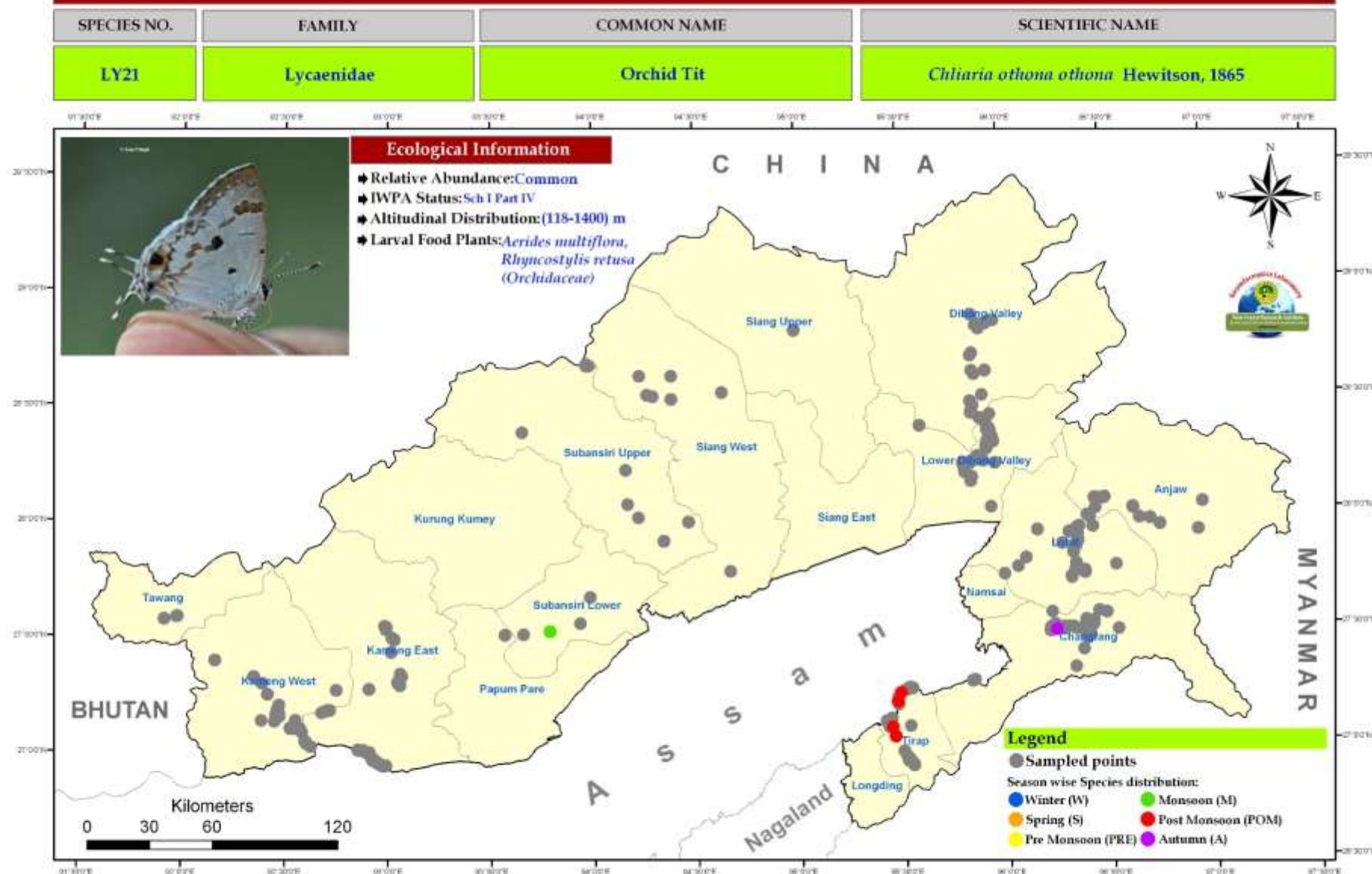
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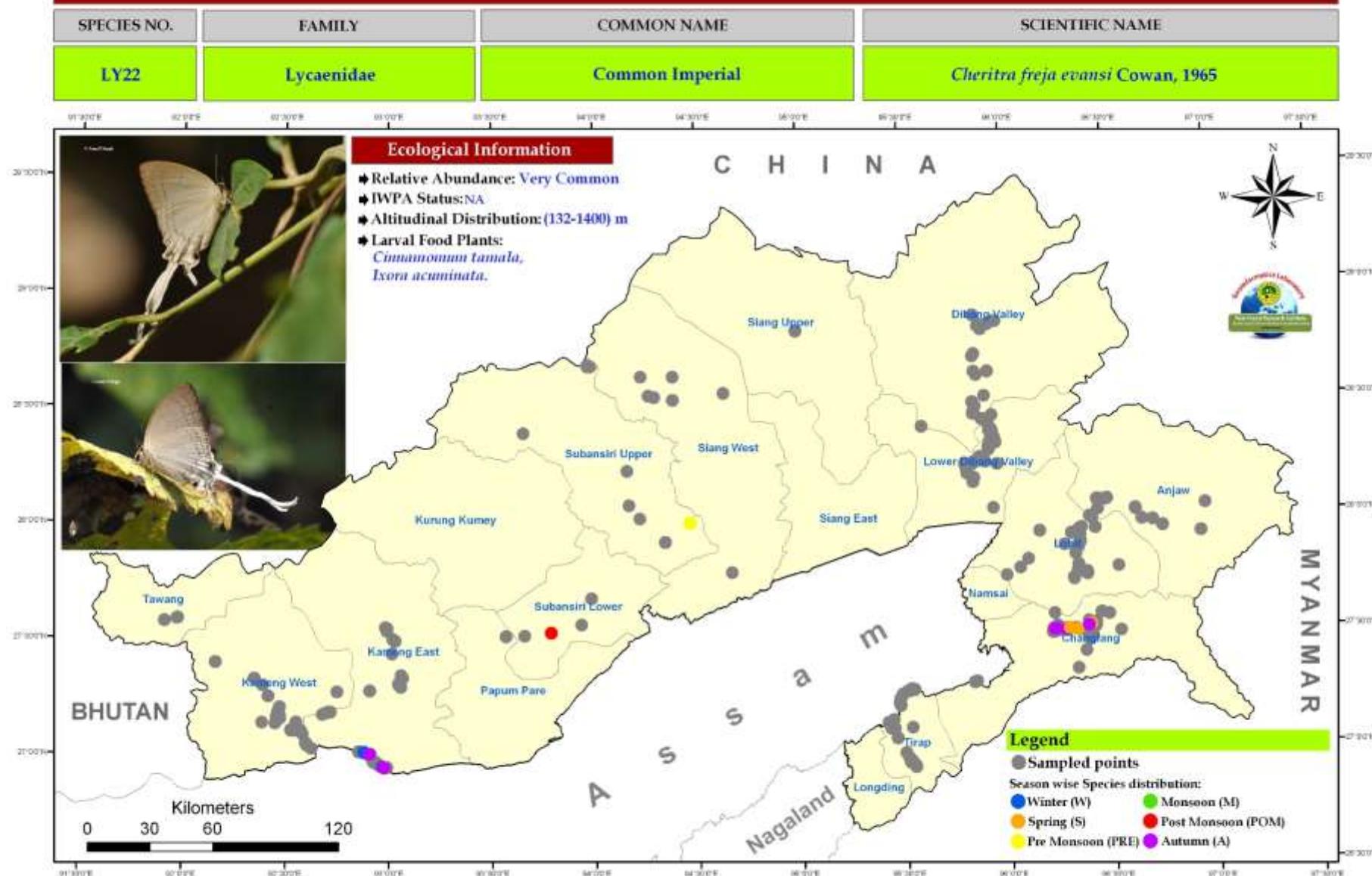
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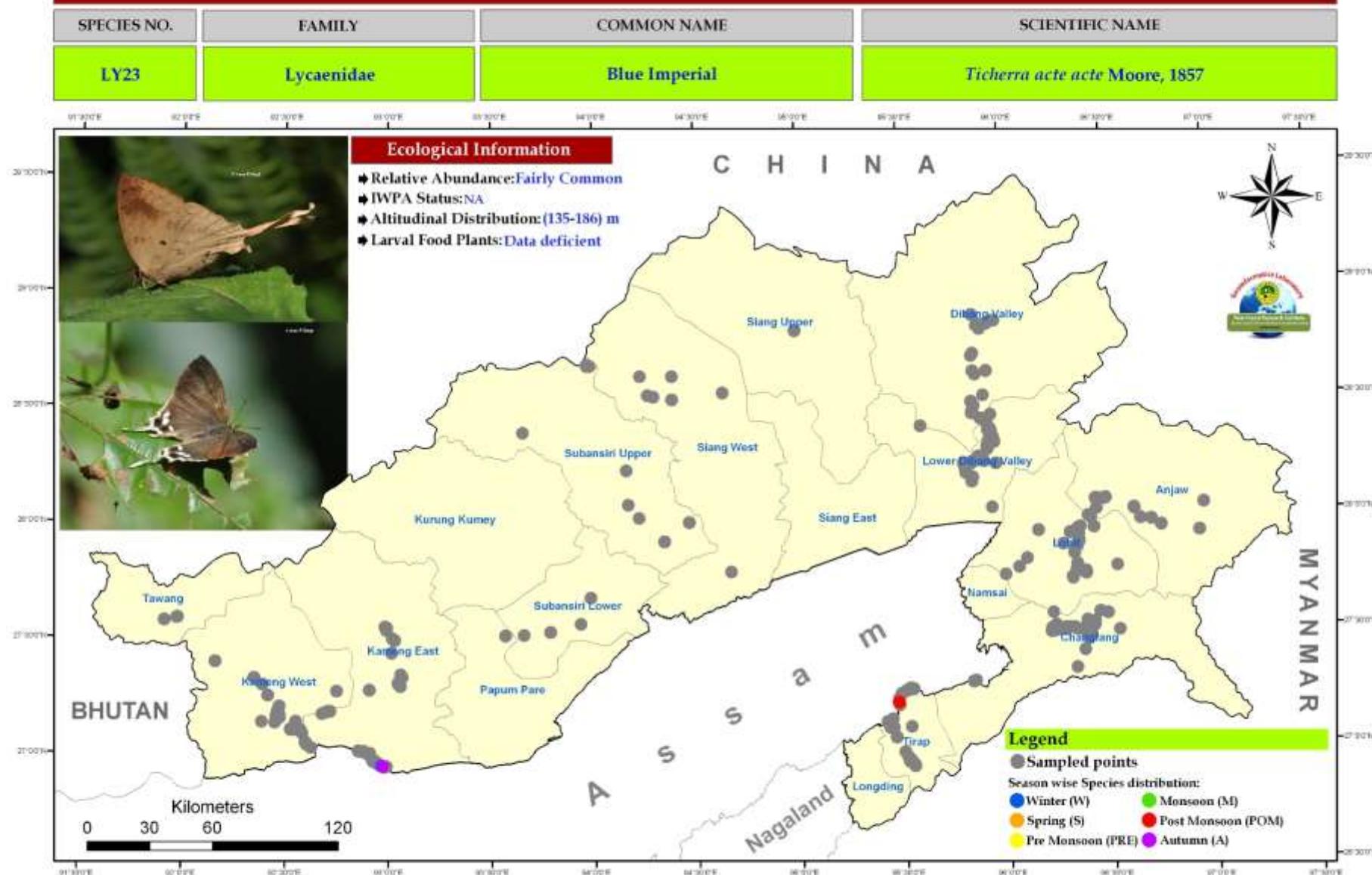
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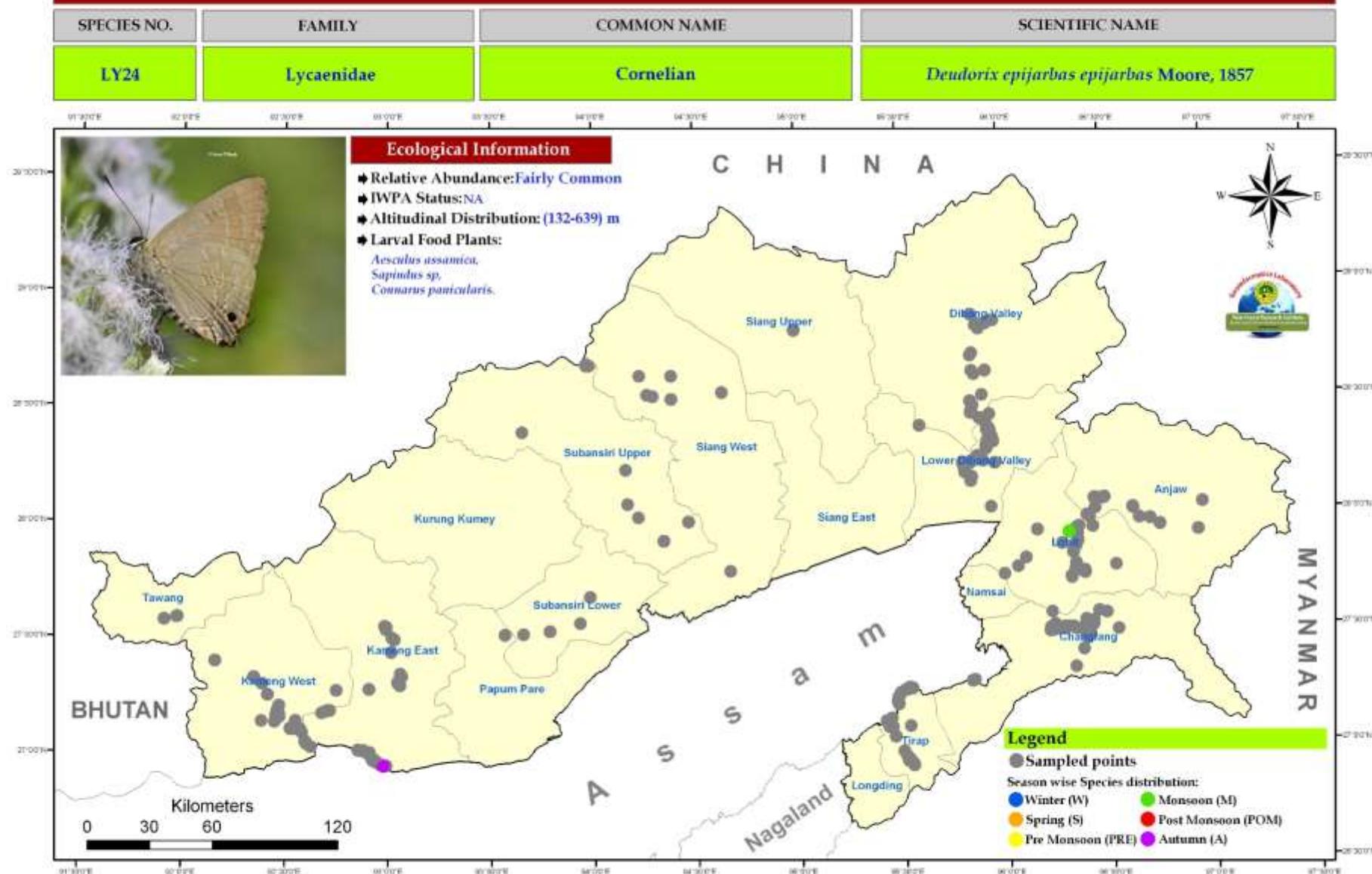
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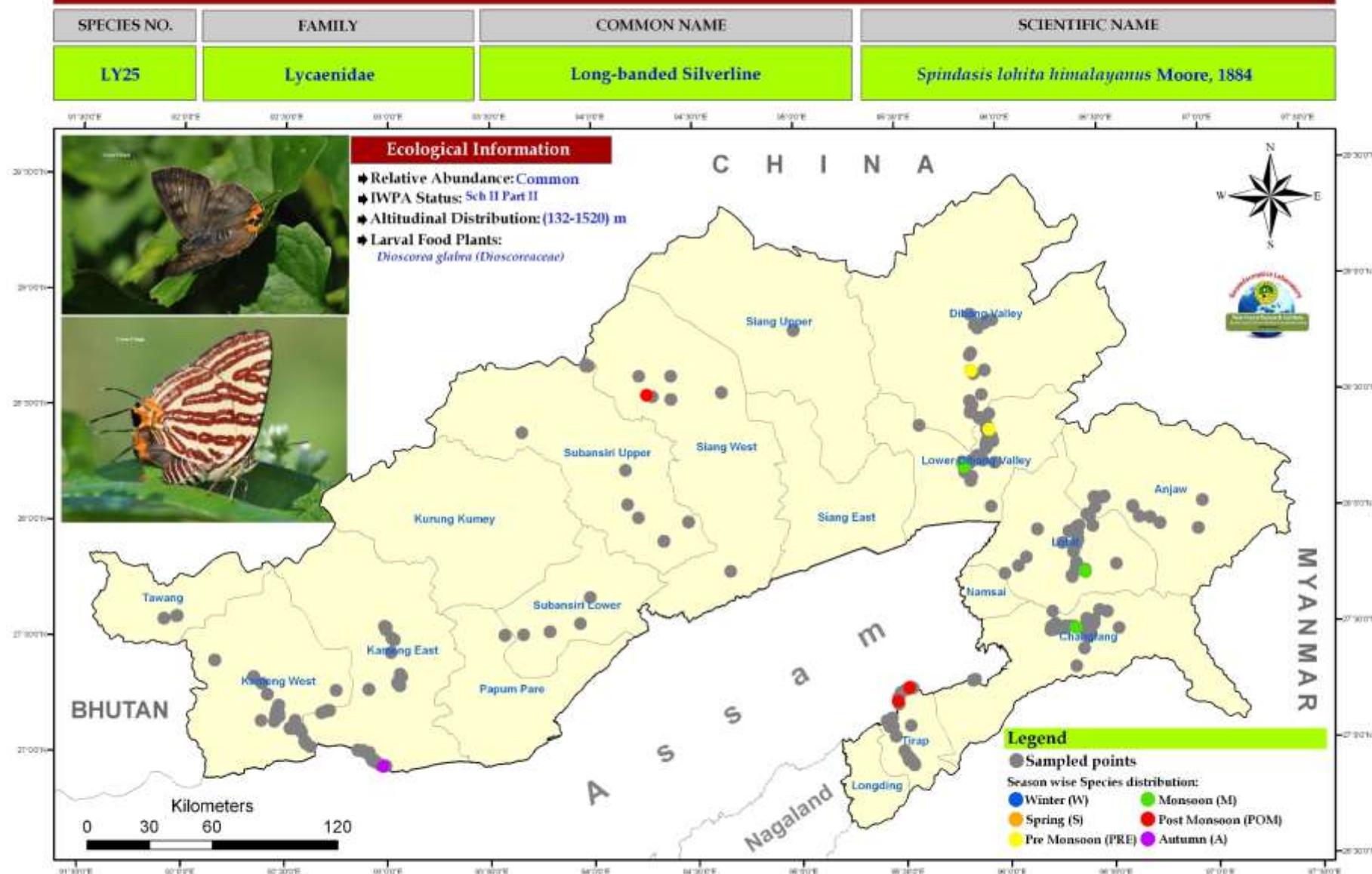
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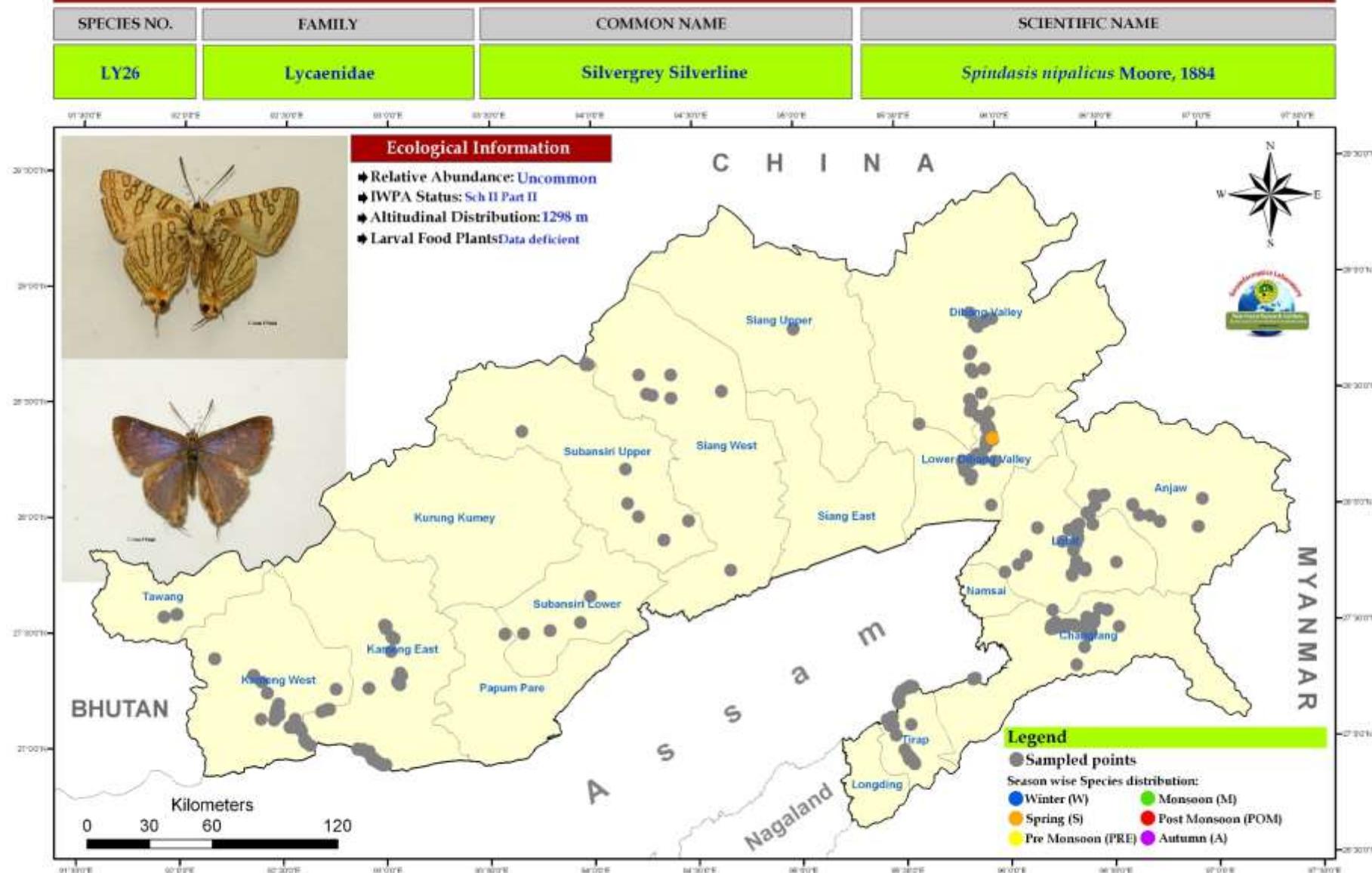
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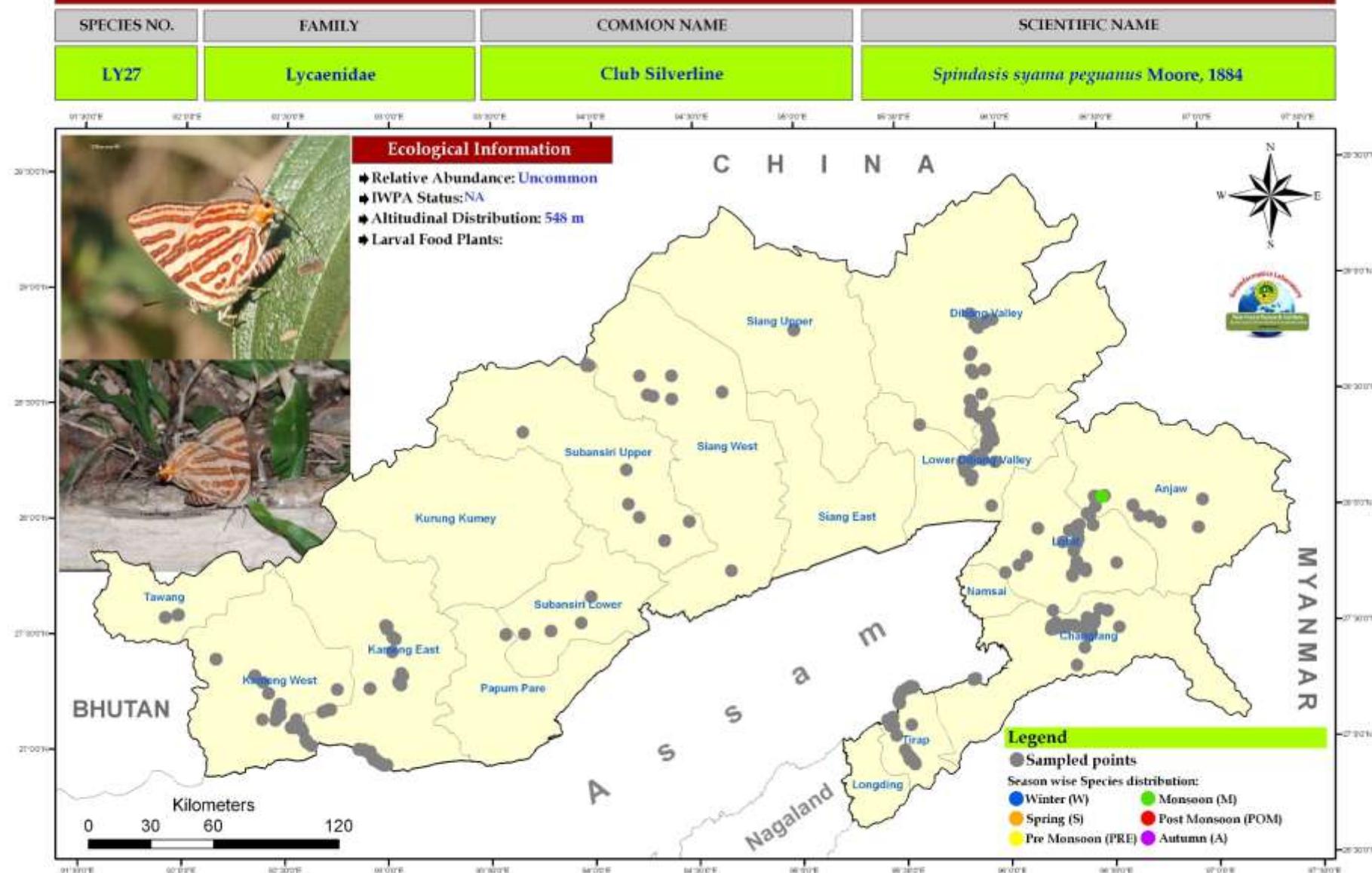
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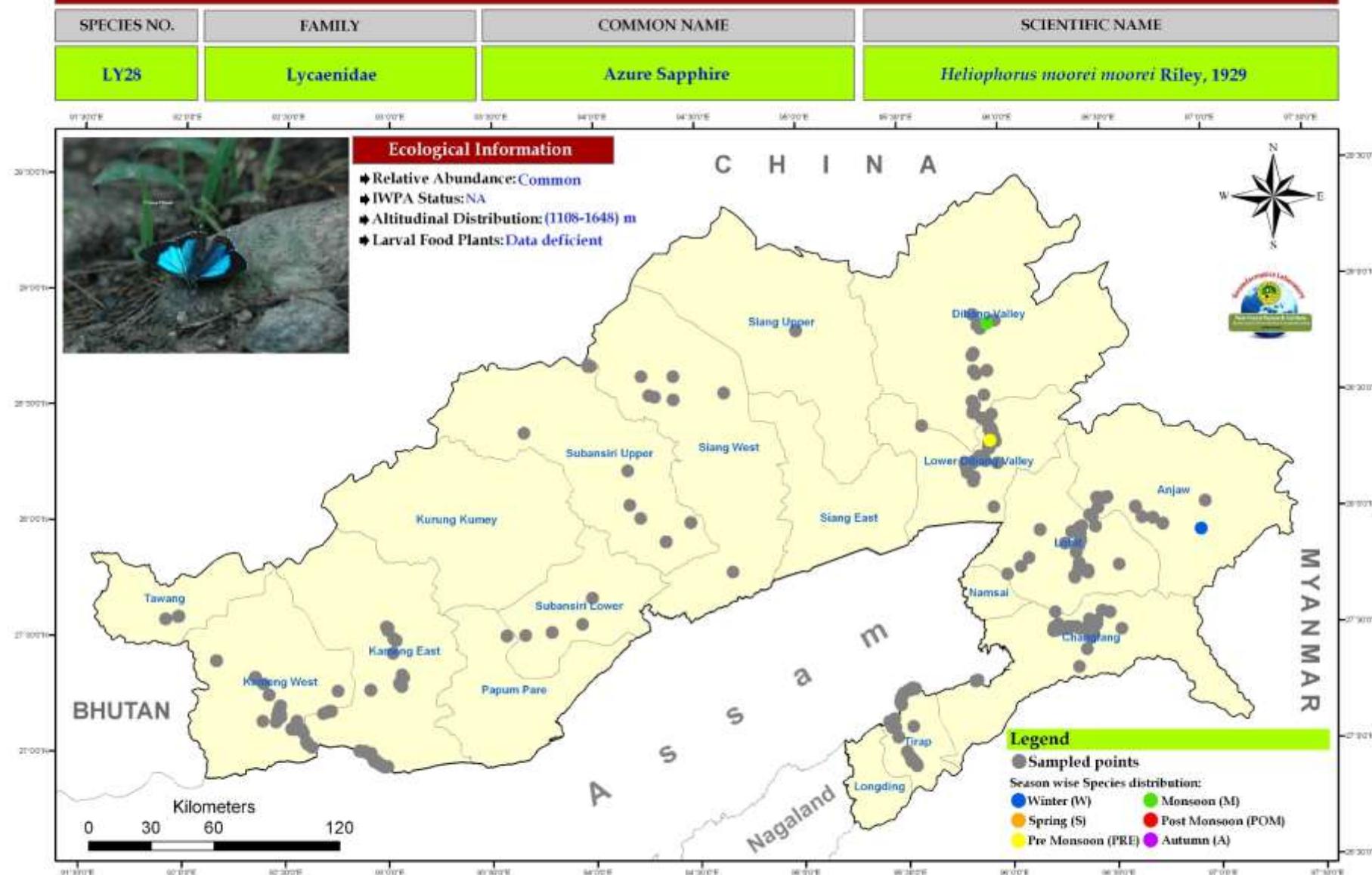
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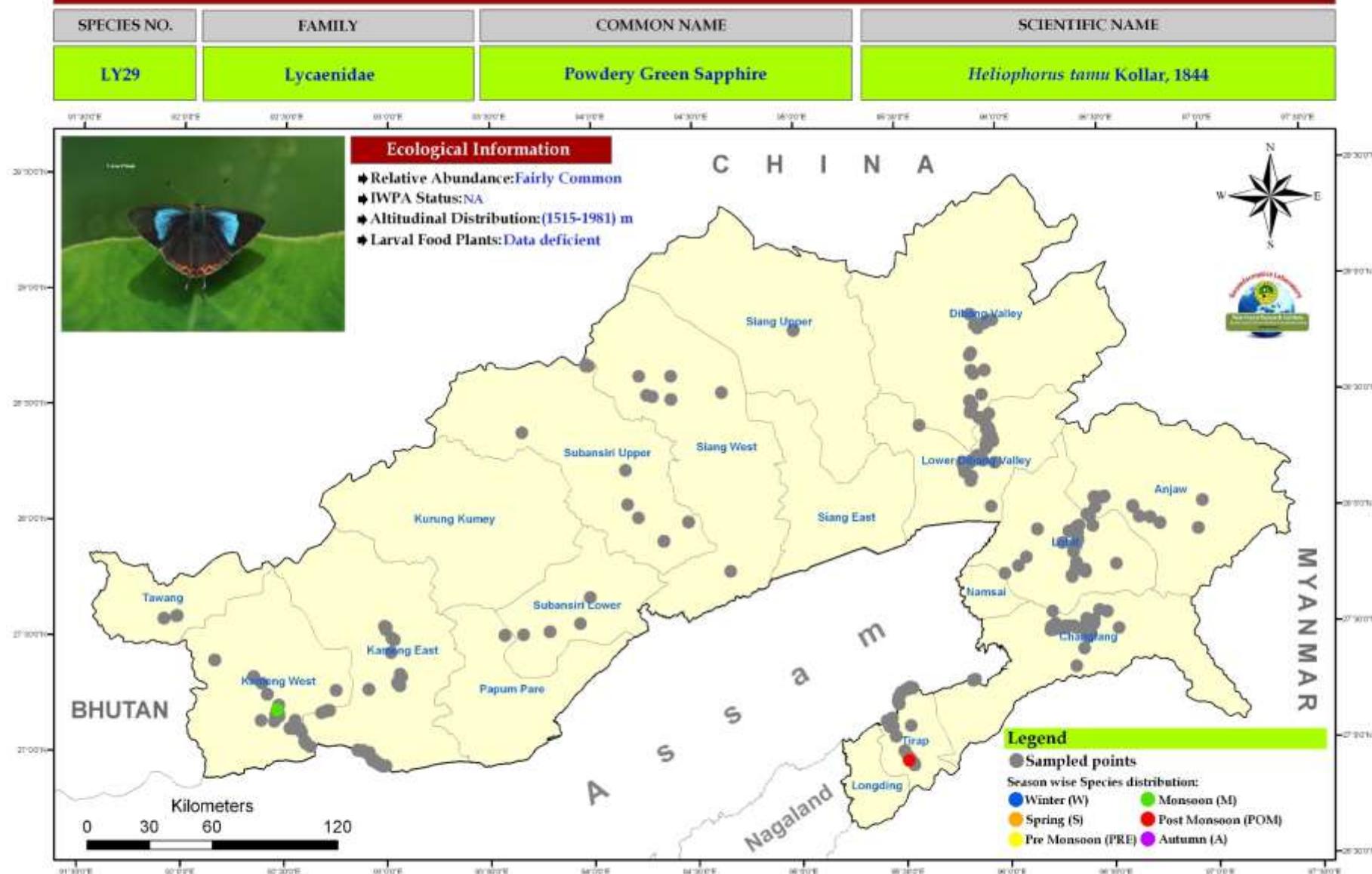
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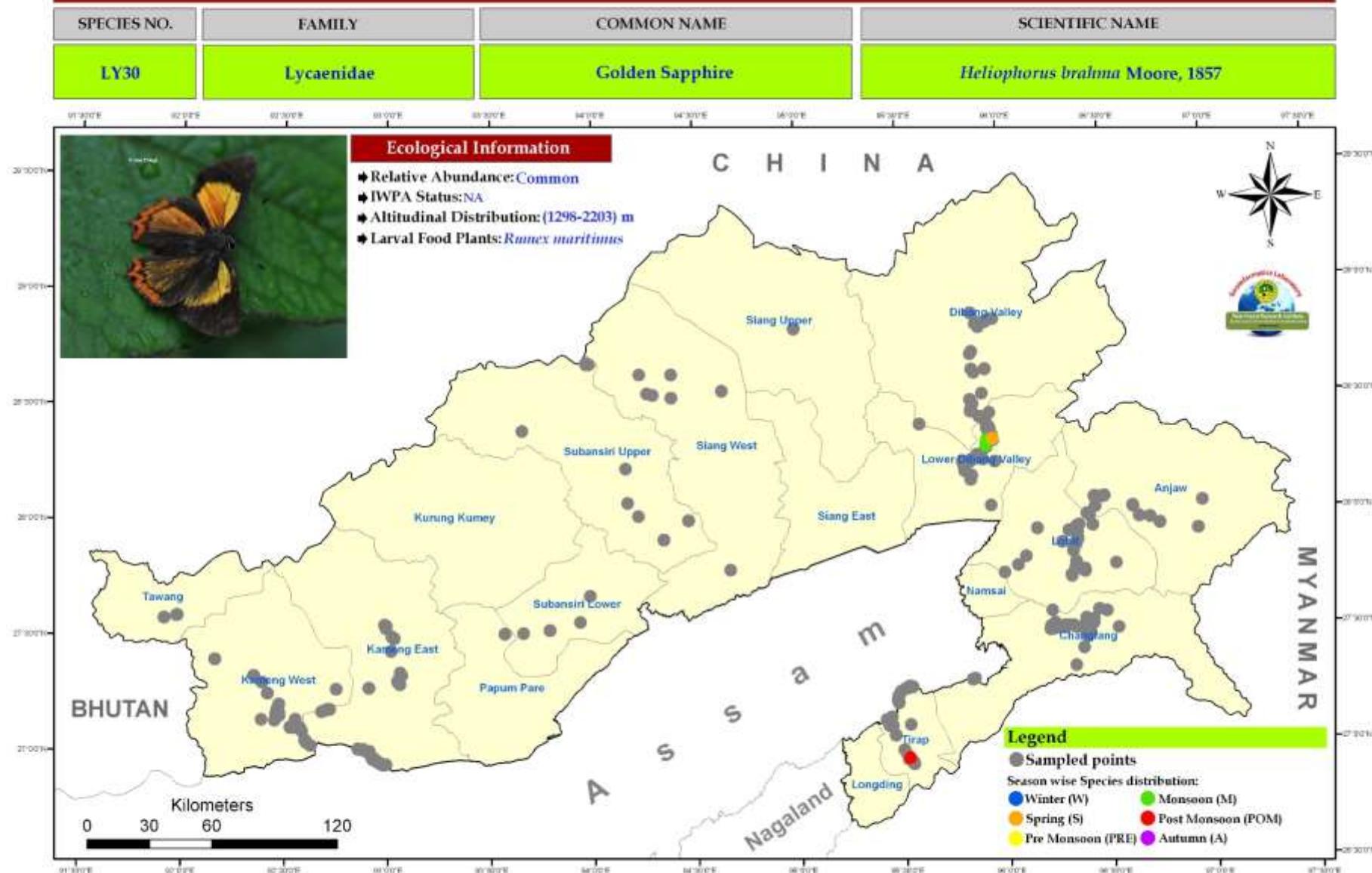
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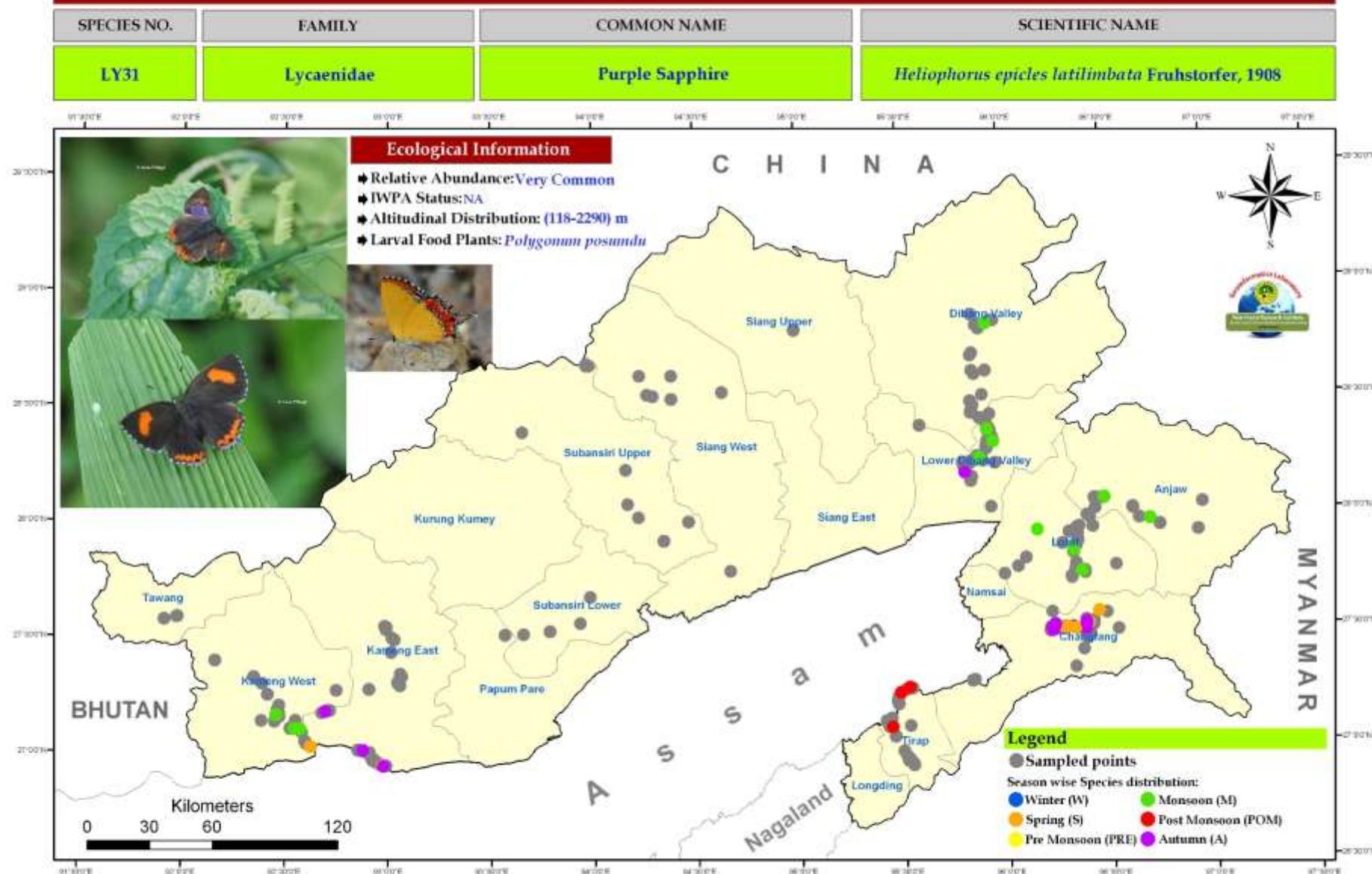
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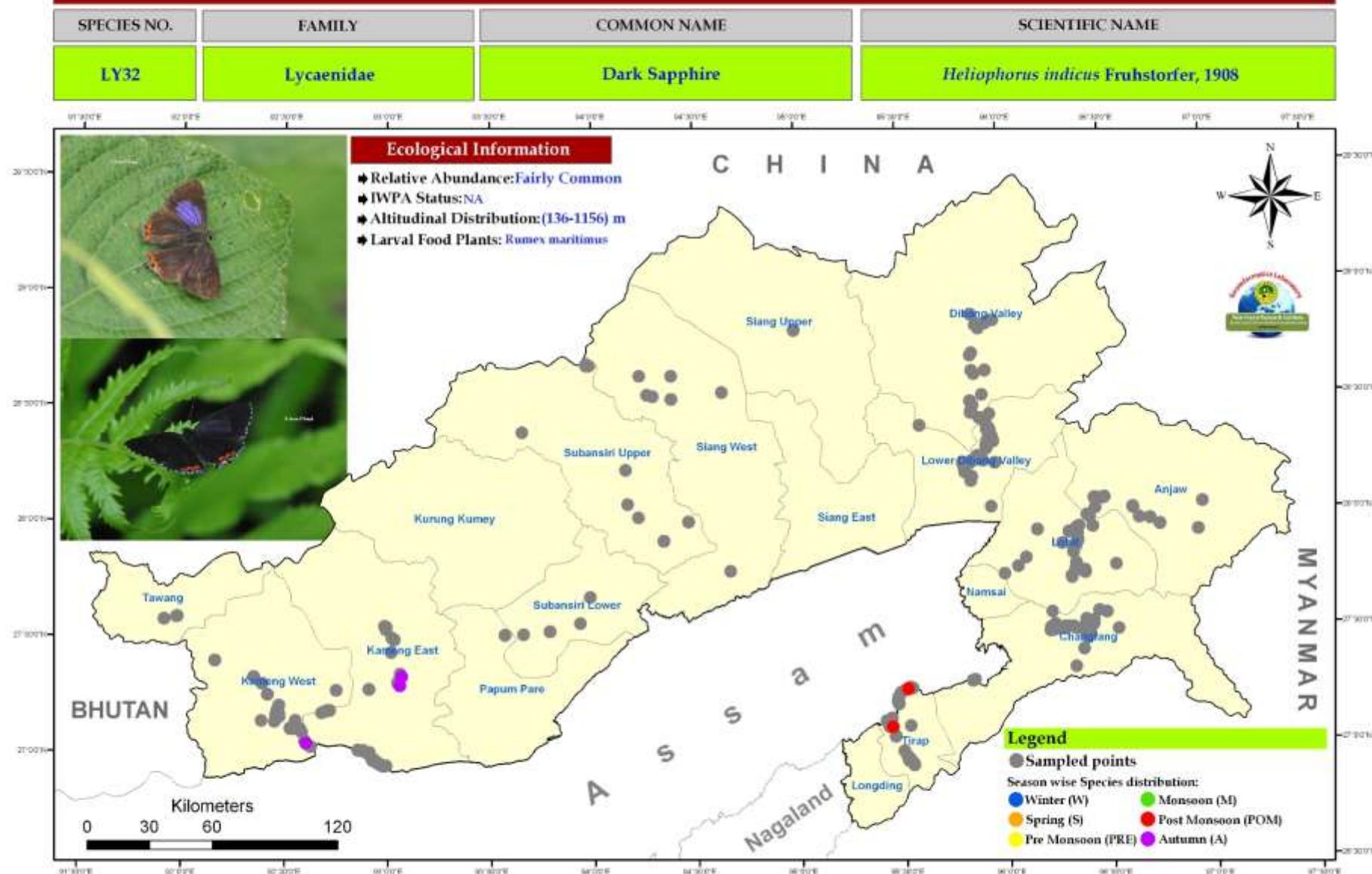
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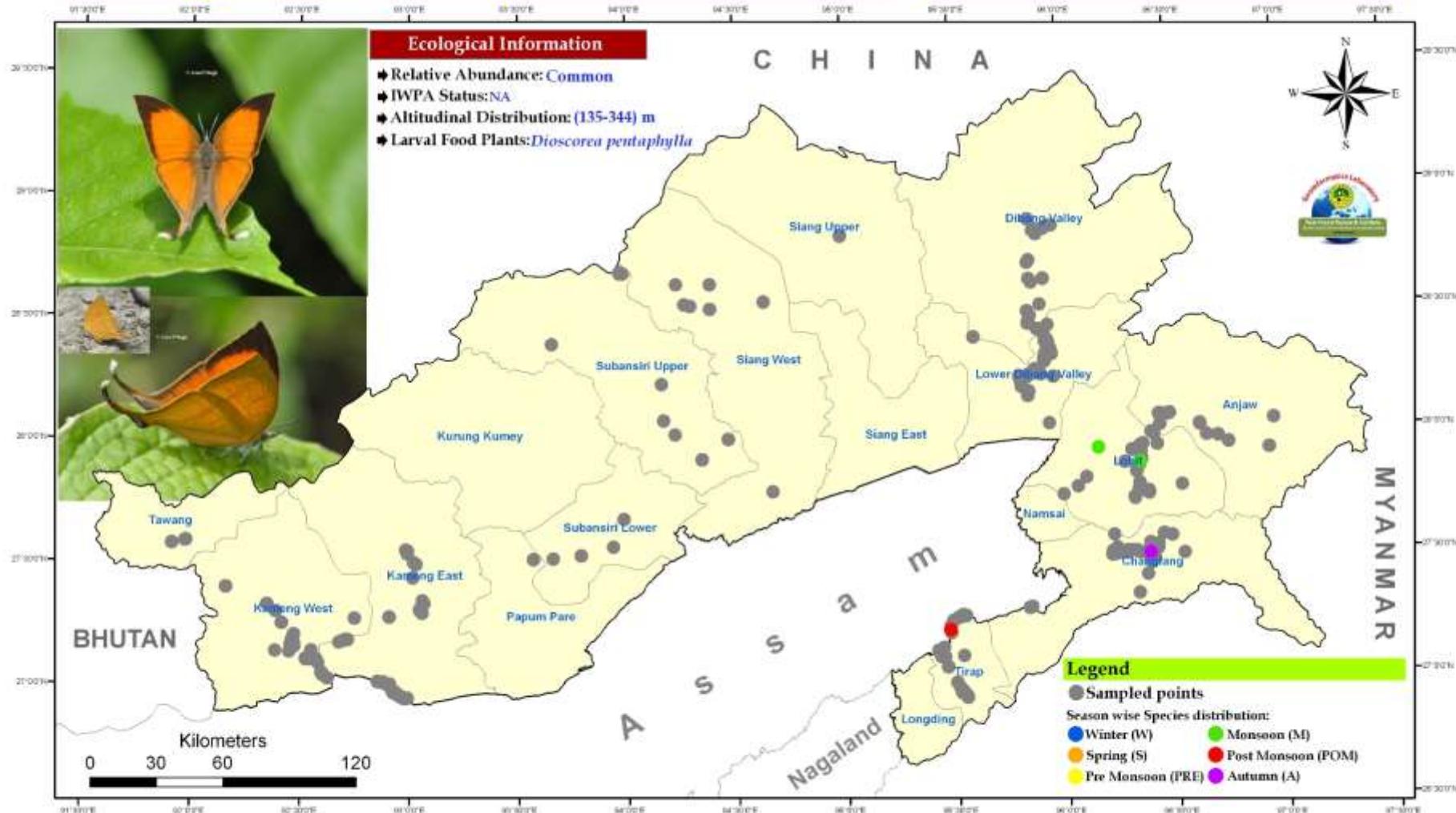


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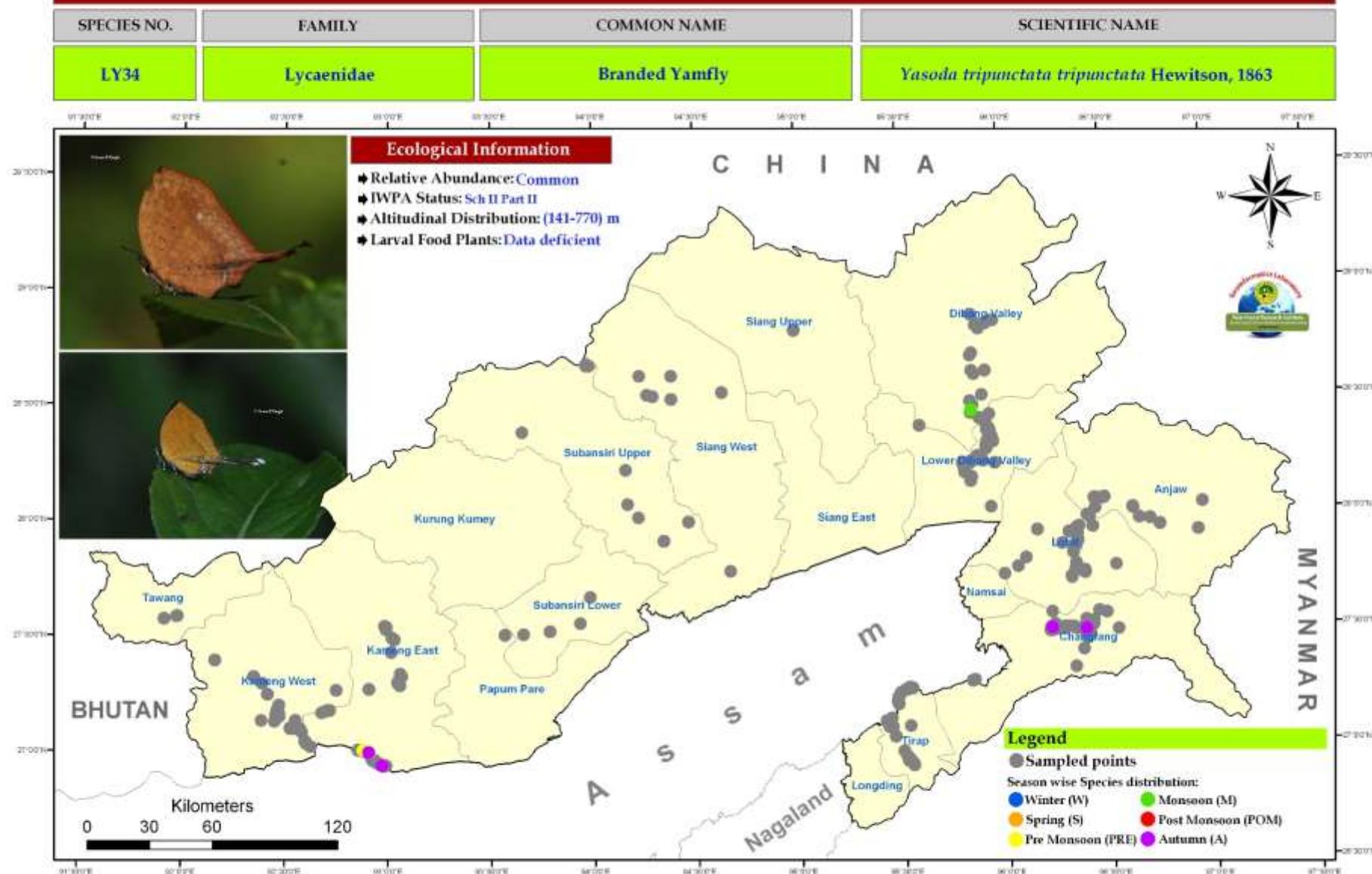


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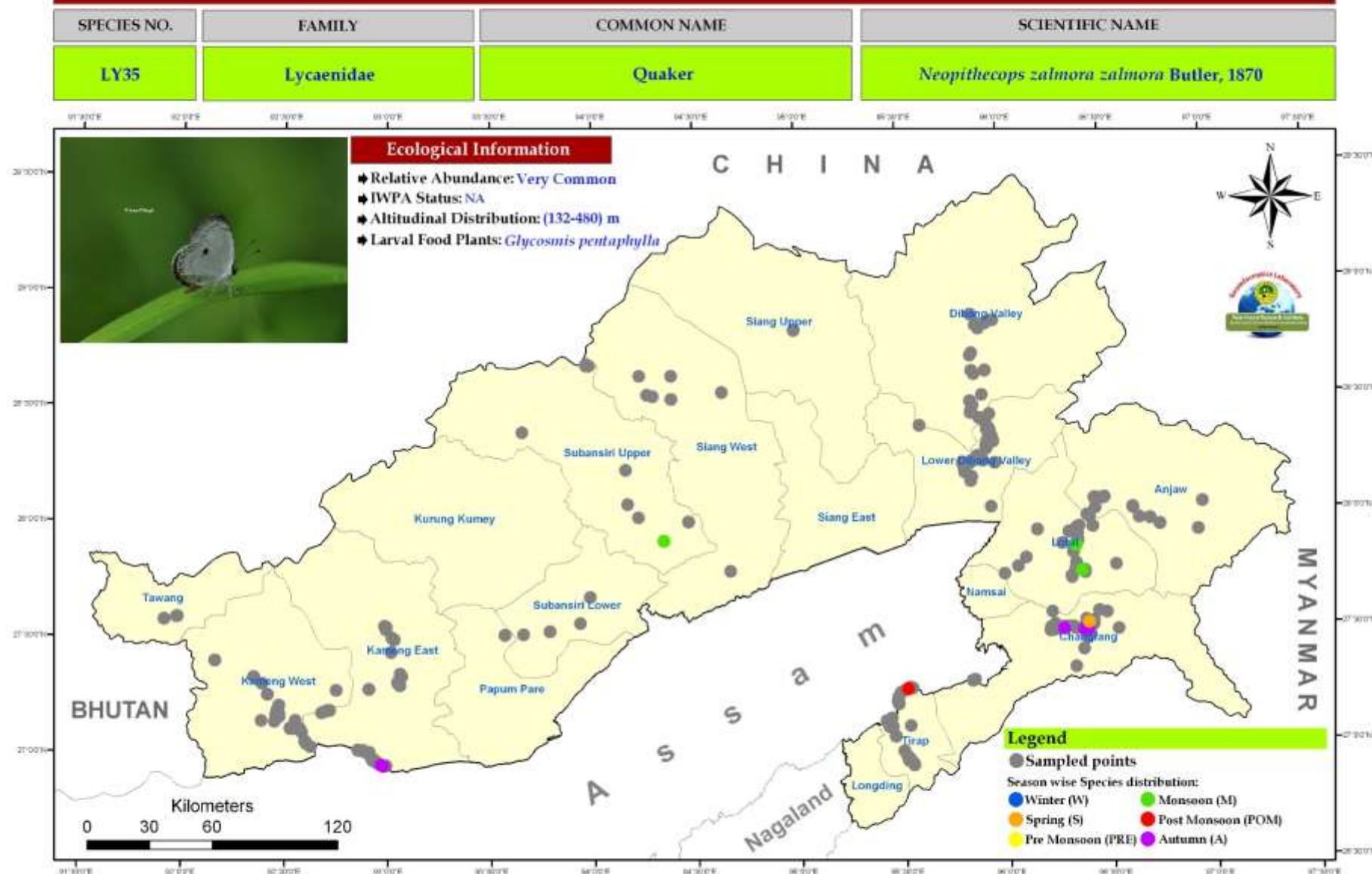
SPECIES NO.	FAMILY	COMMON NAME	SCIENTIFIC NAME
LY33	Lycaenidae	Yamfly	<i>Loxura atymnus continentalis</i> Fruhstorfer, 1912



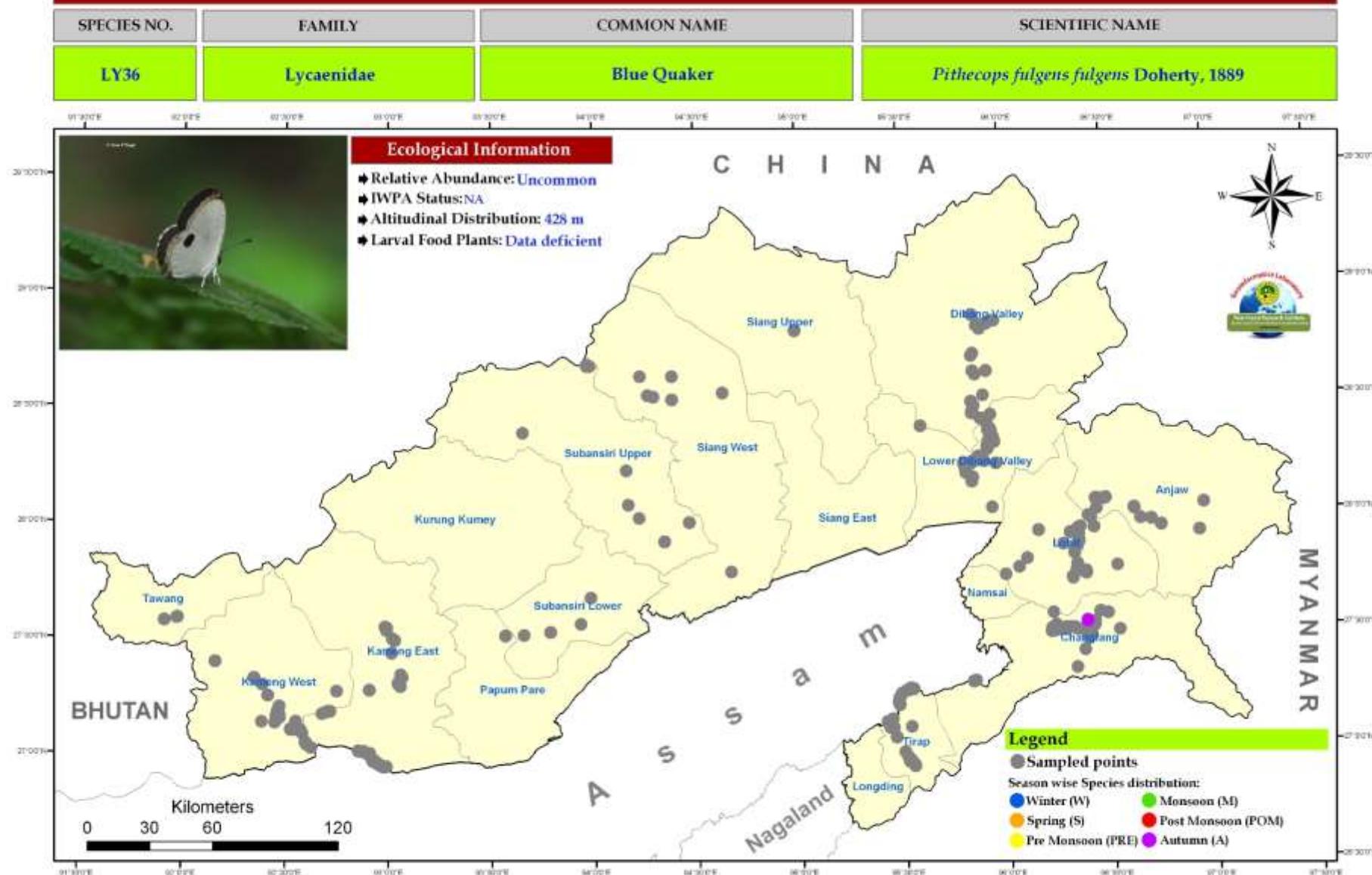
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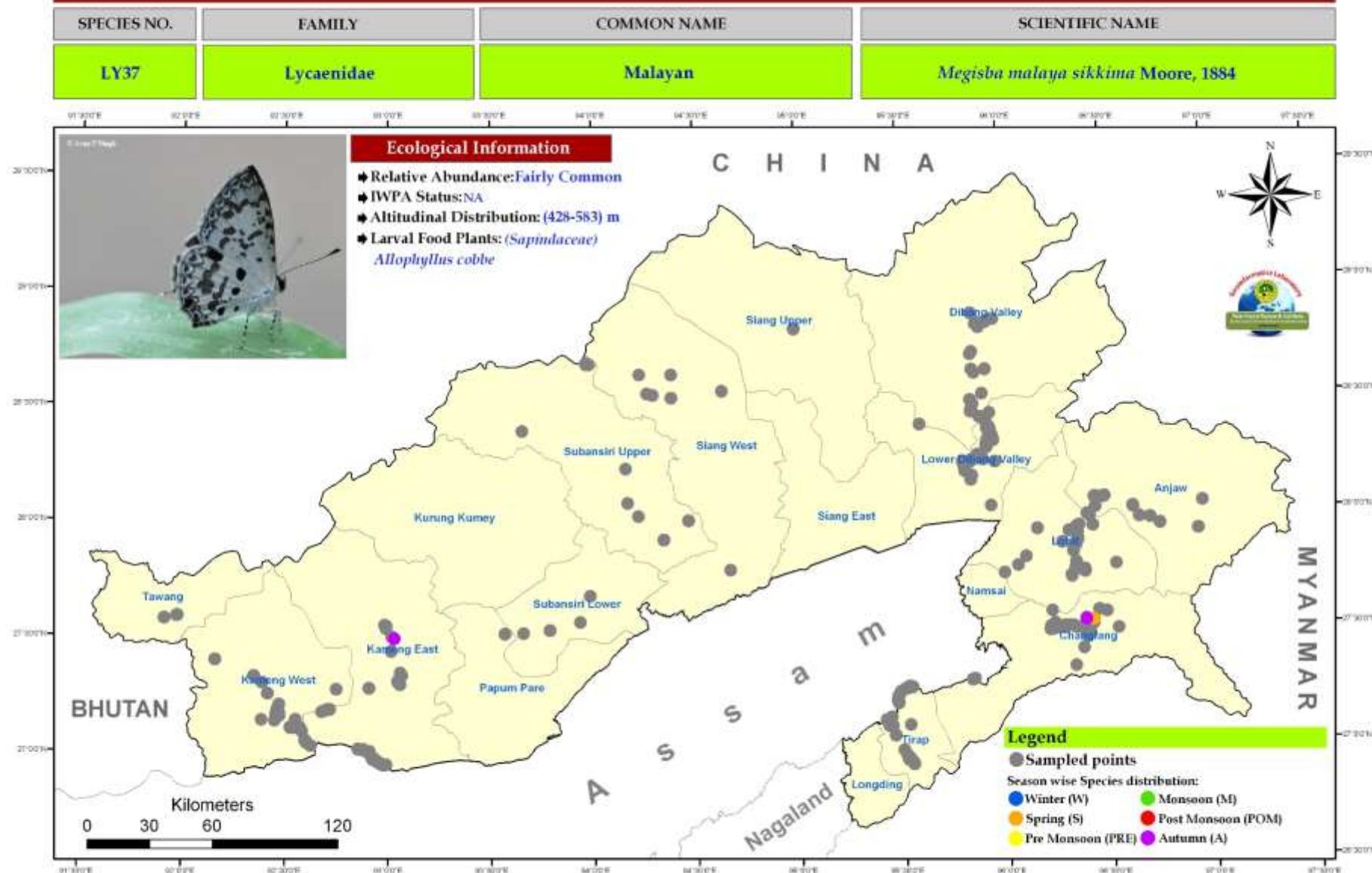
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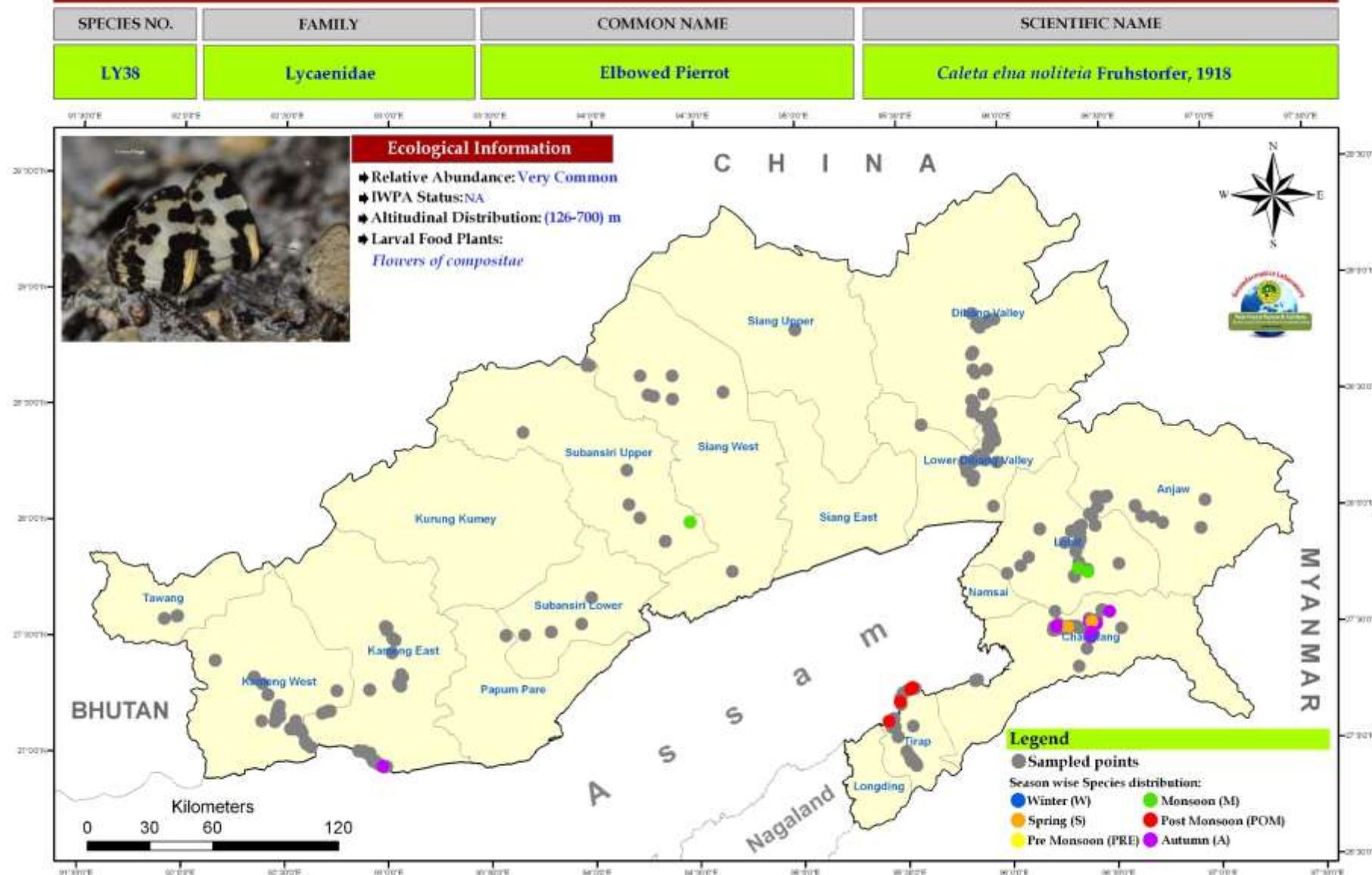
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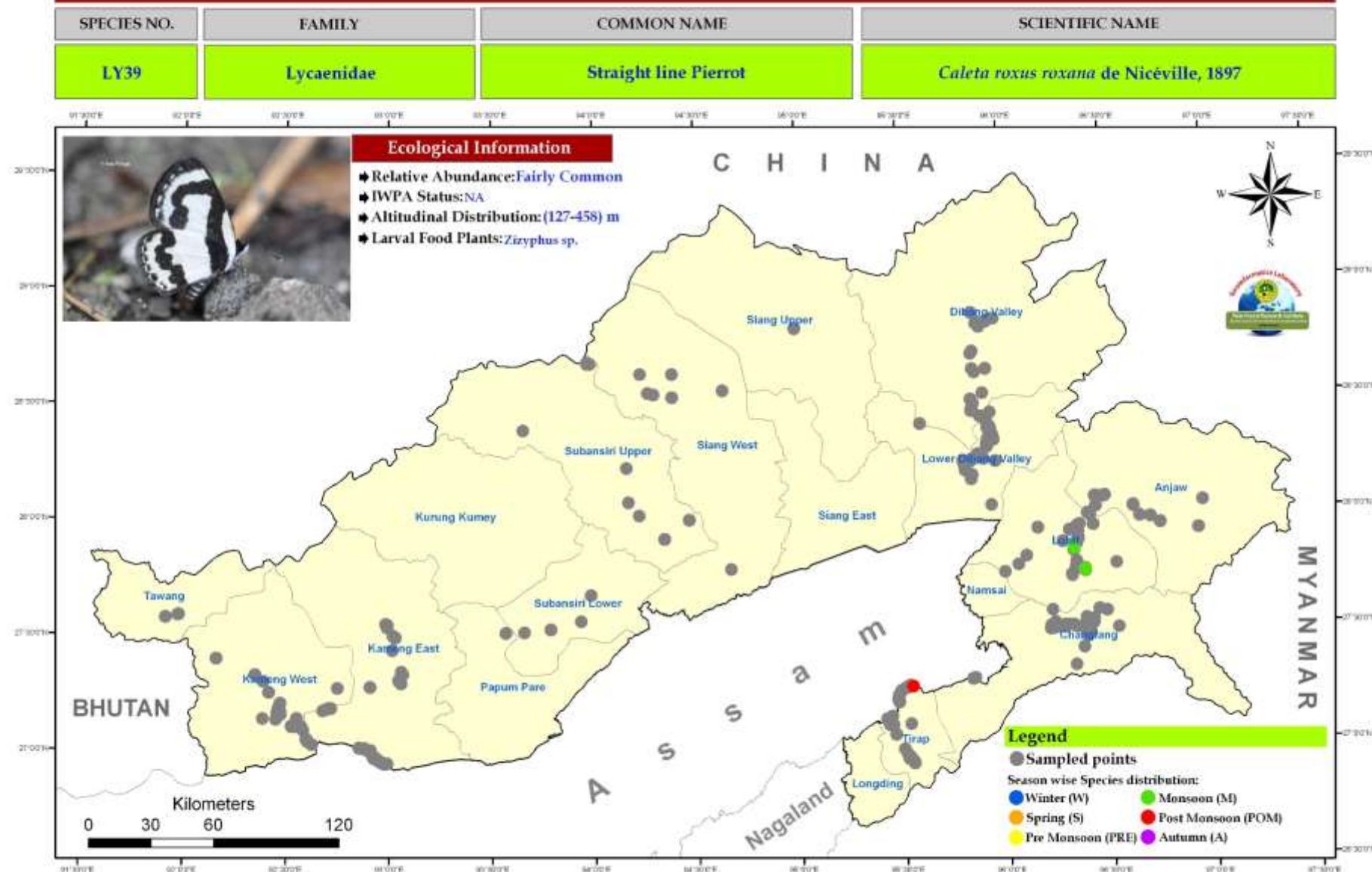
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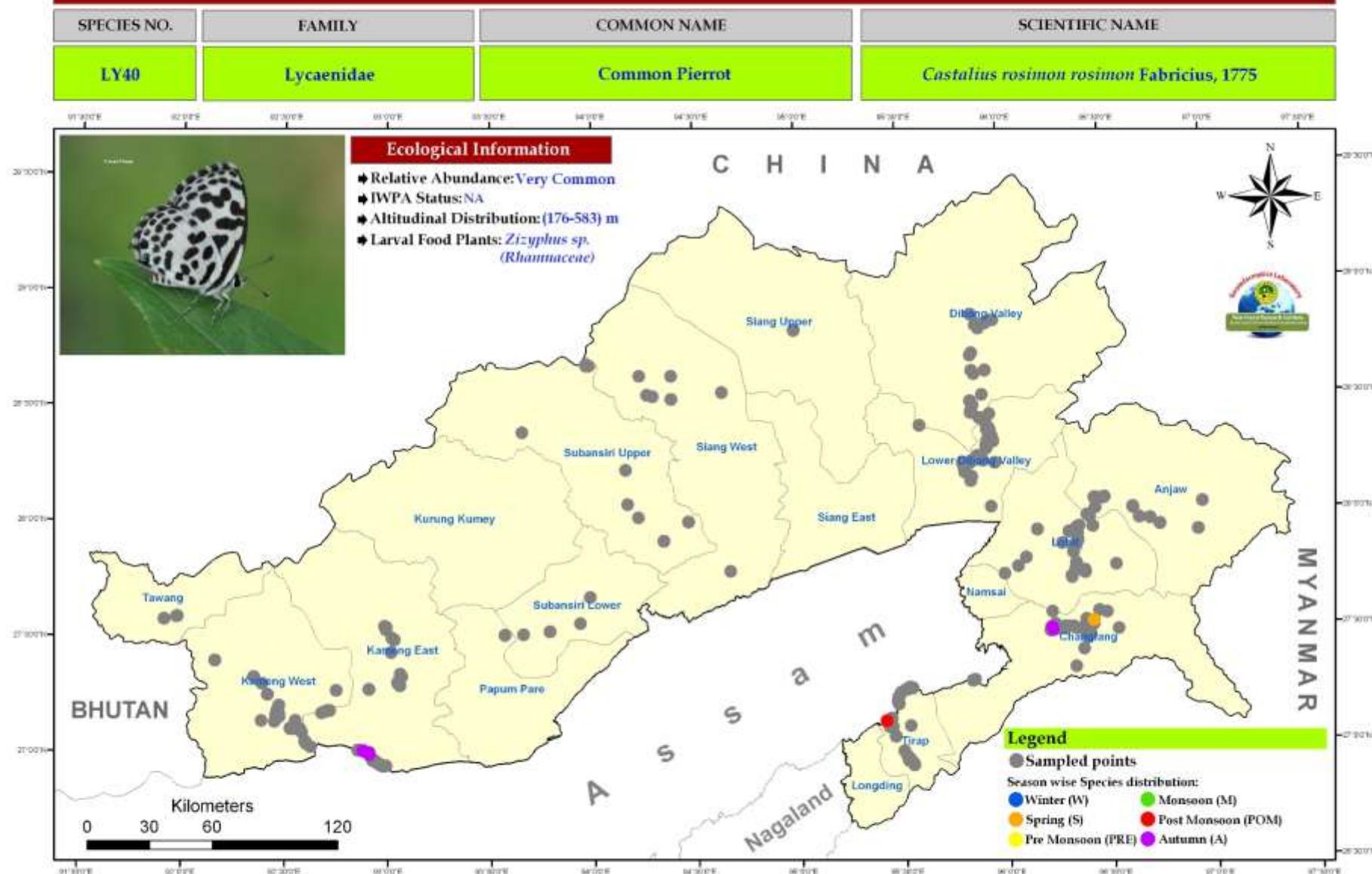
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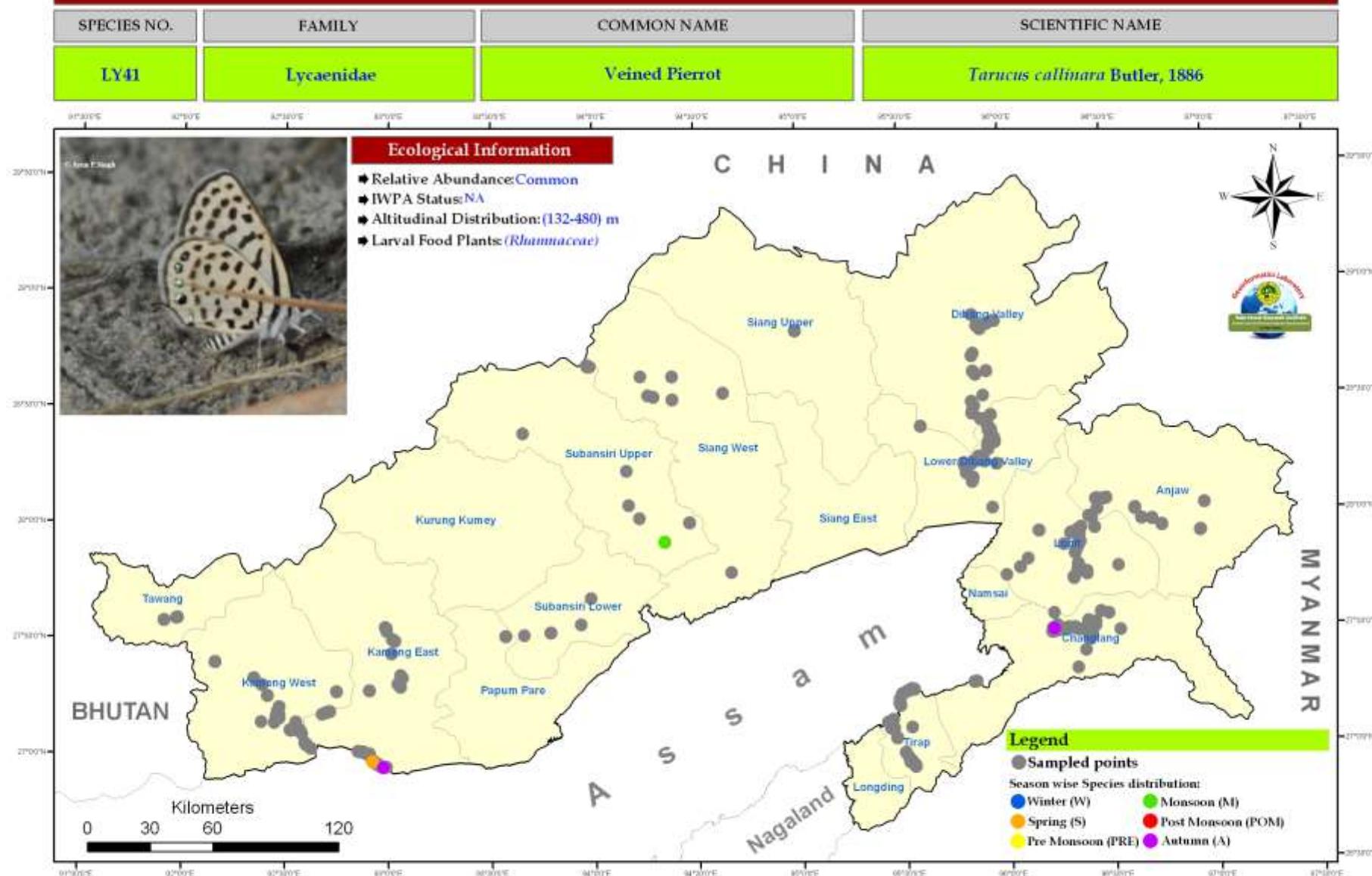
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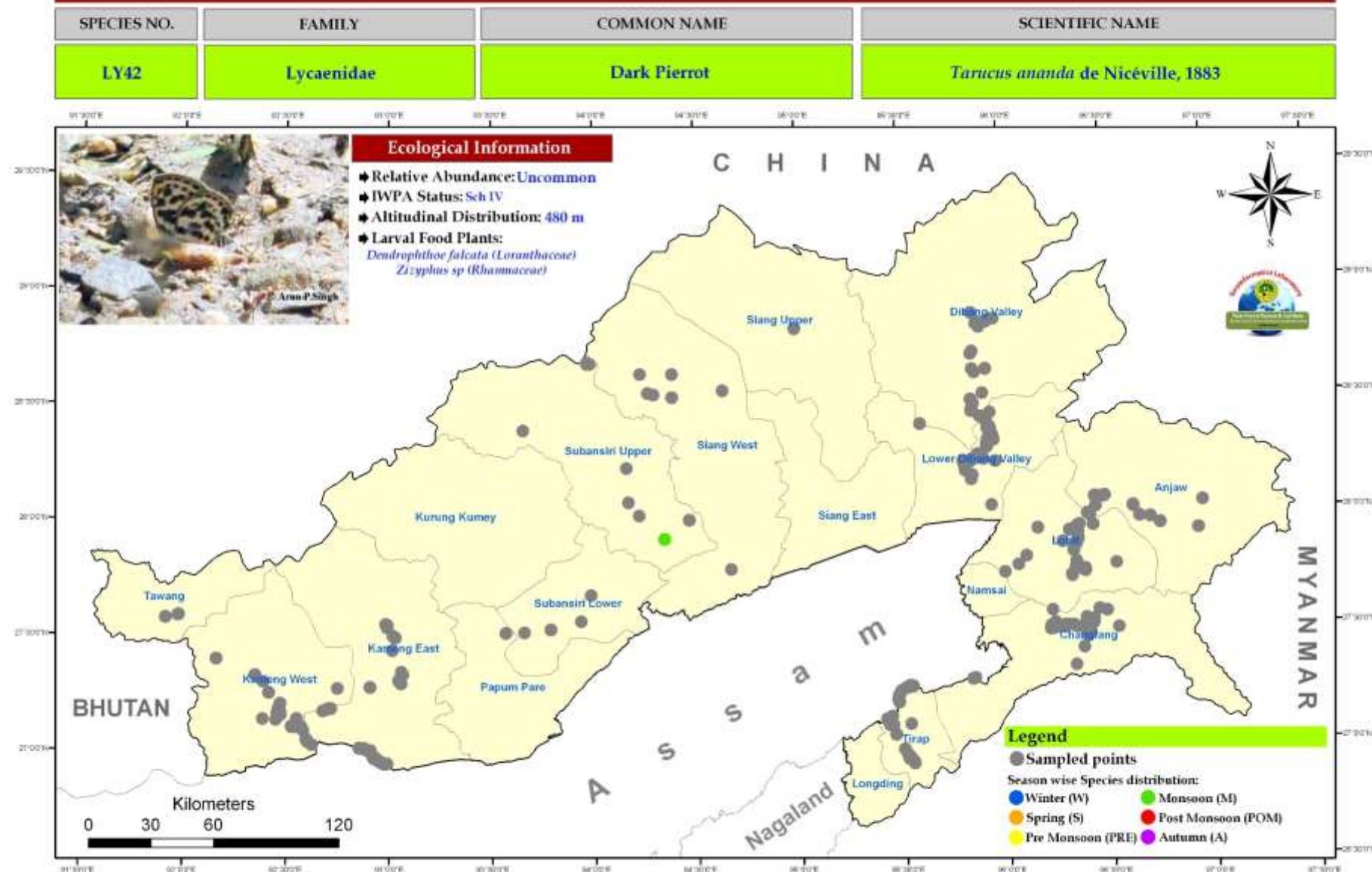
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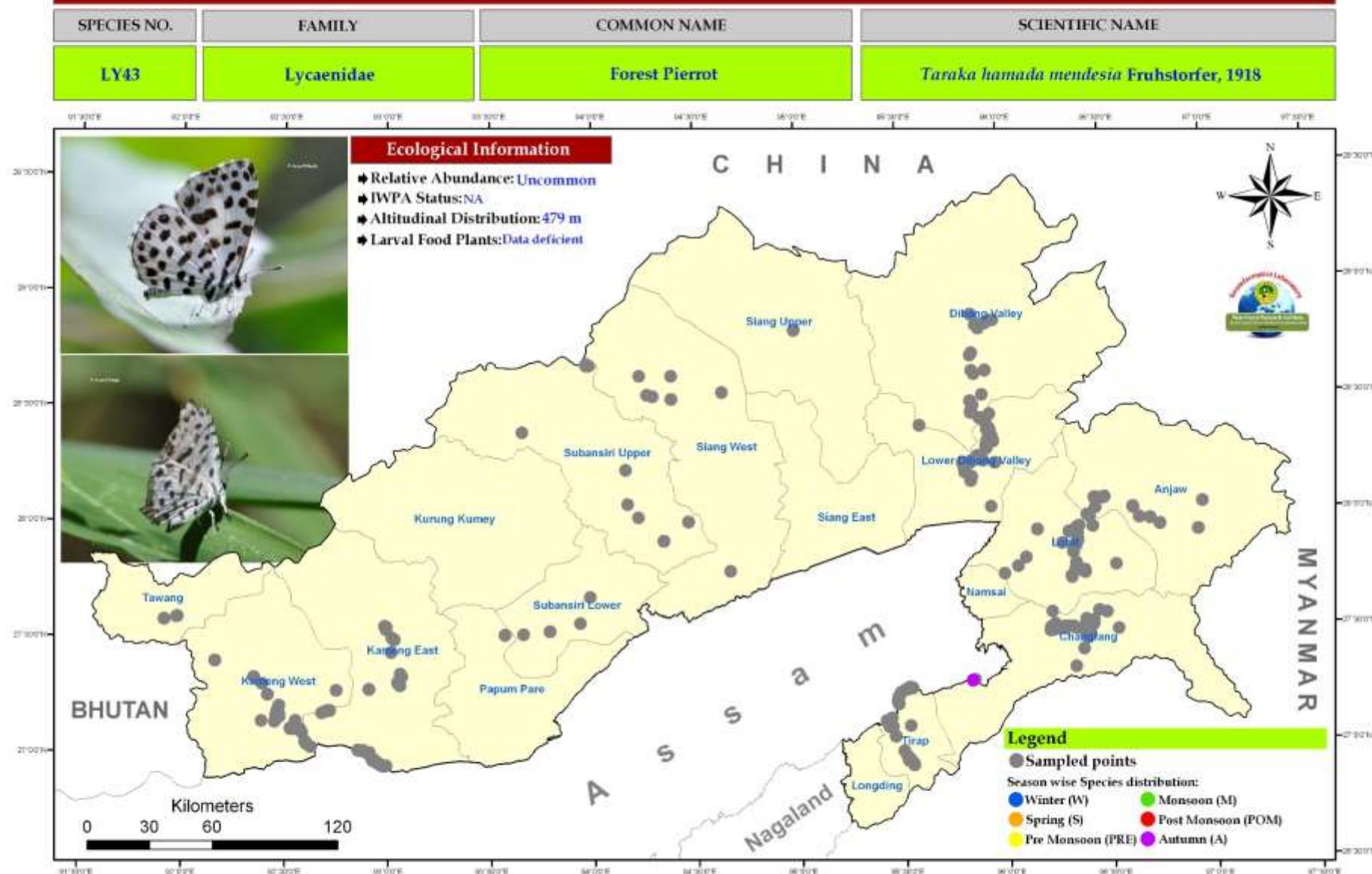
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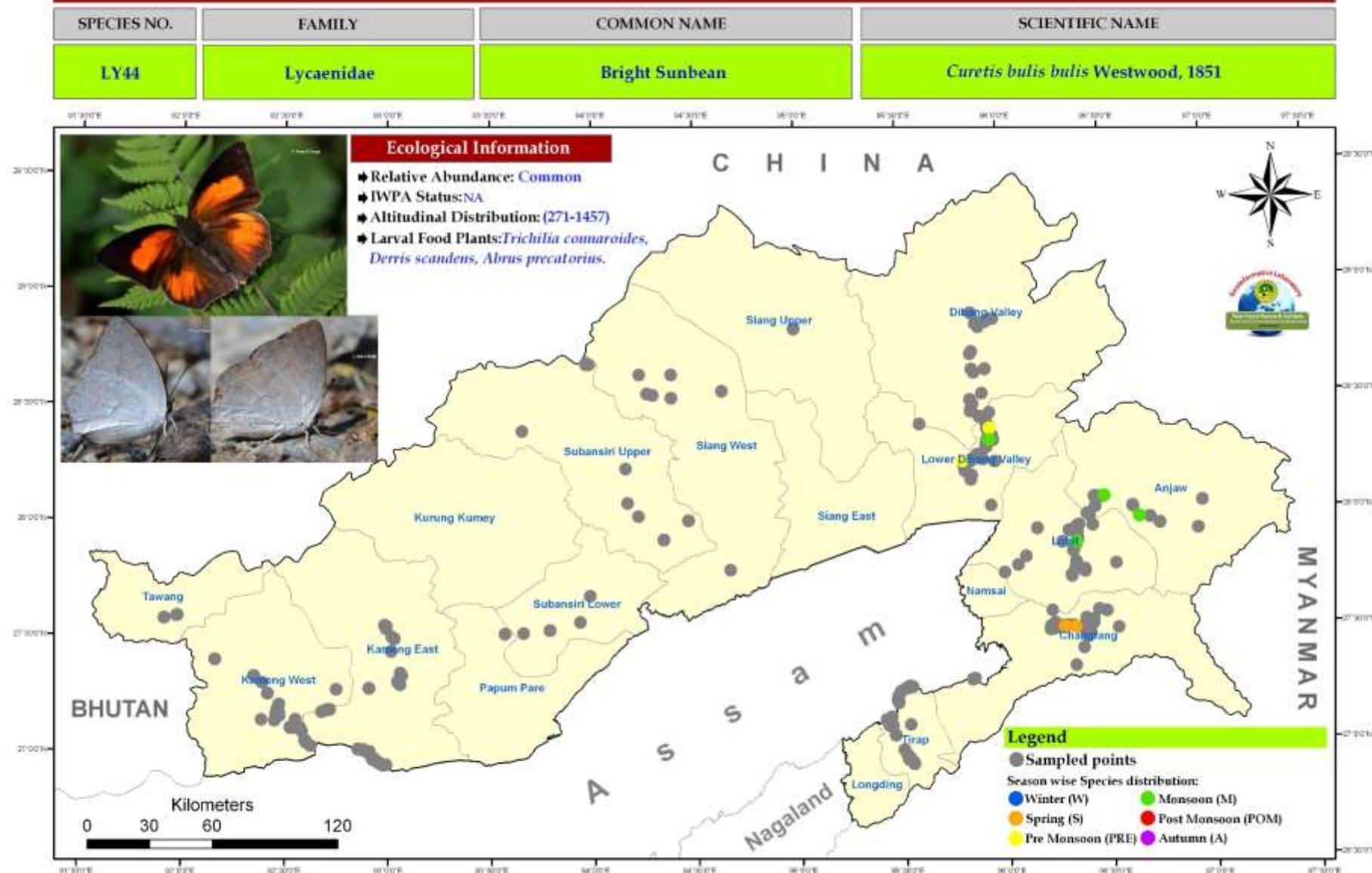
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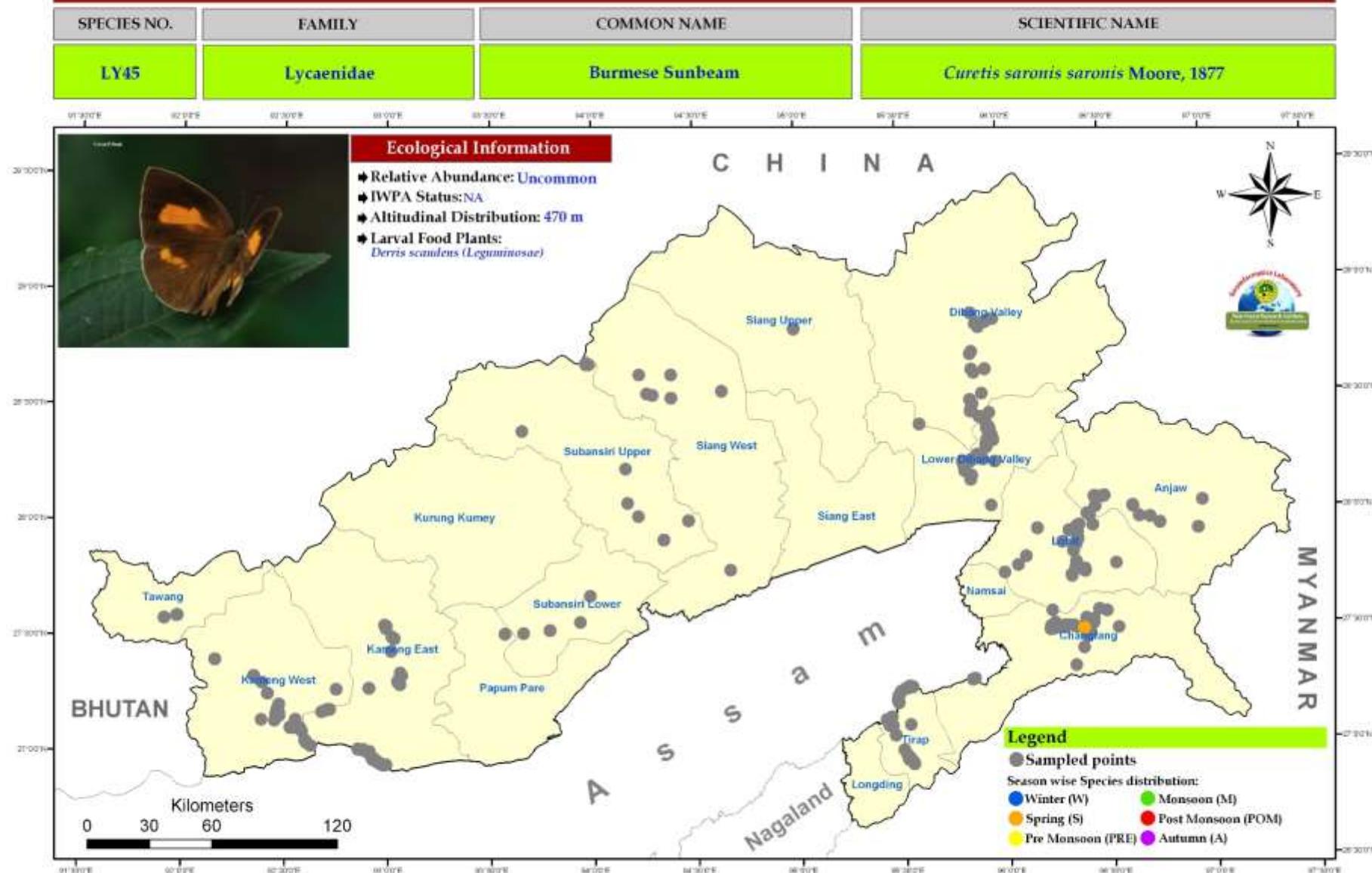
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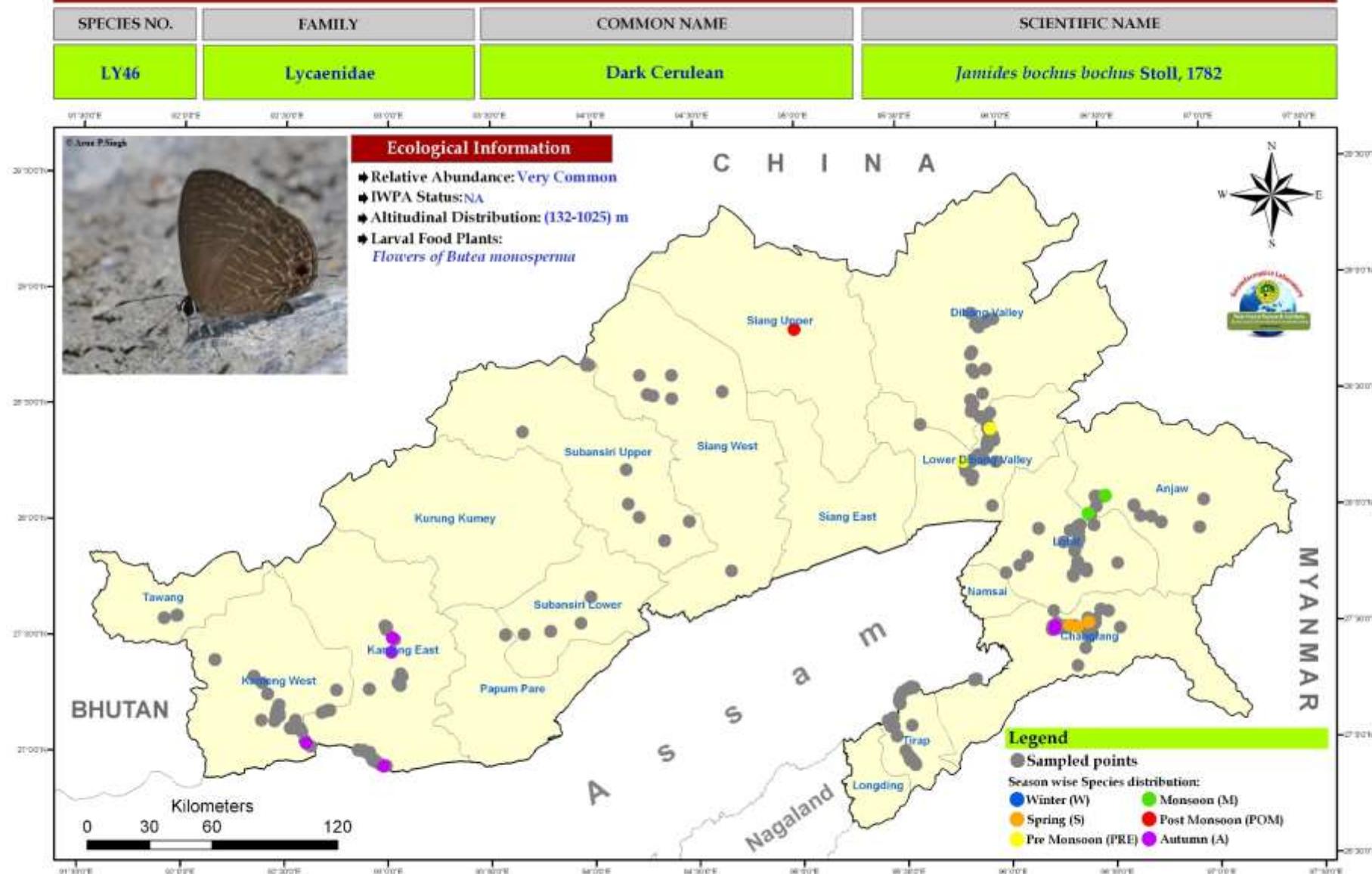
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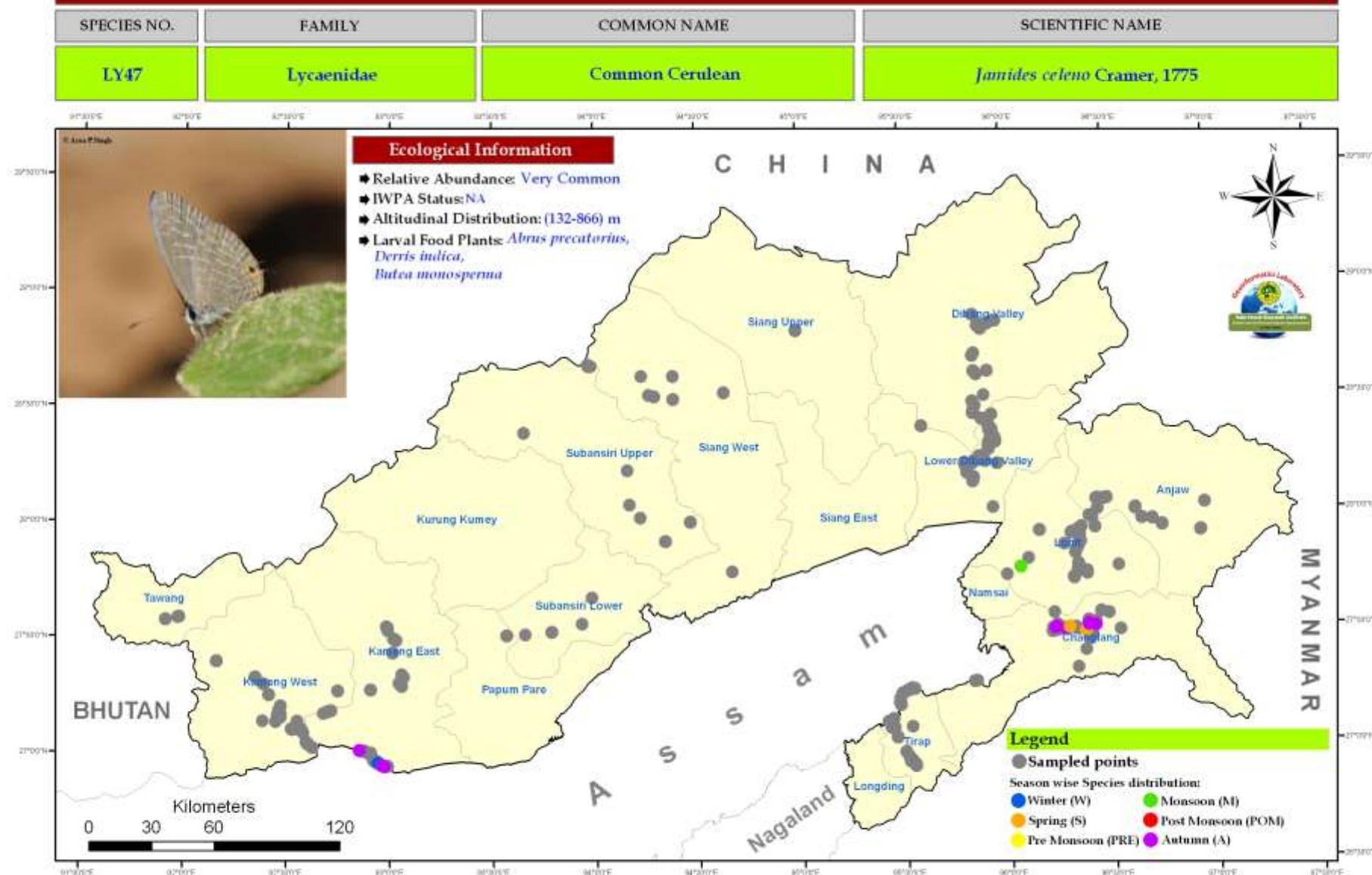
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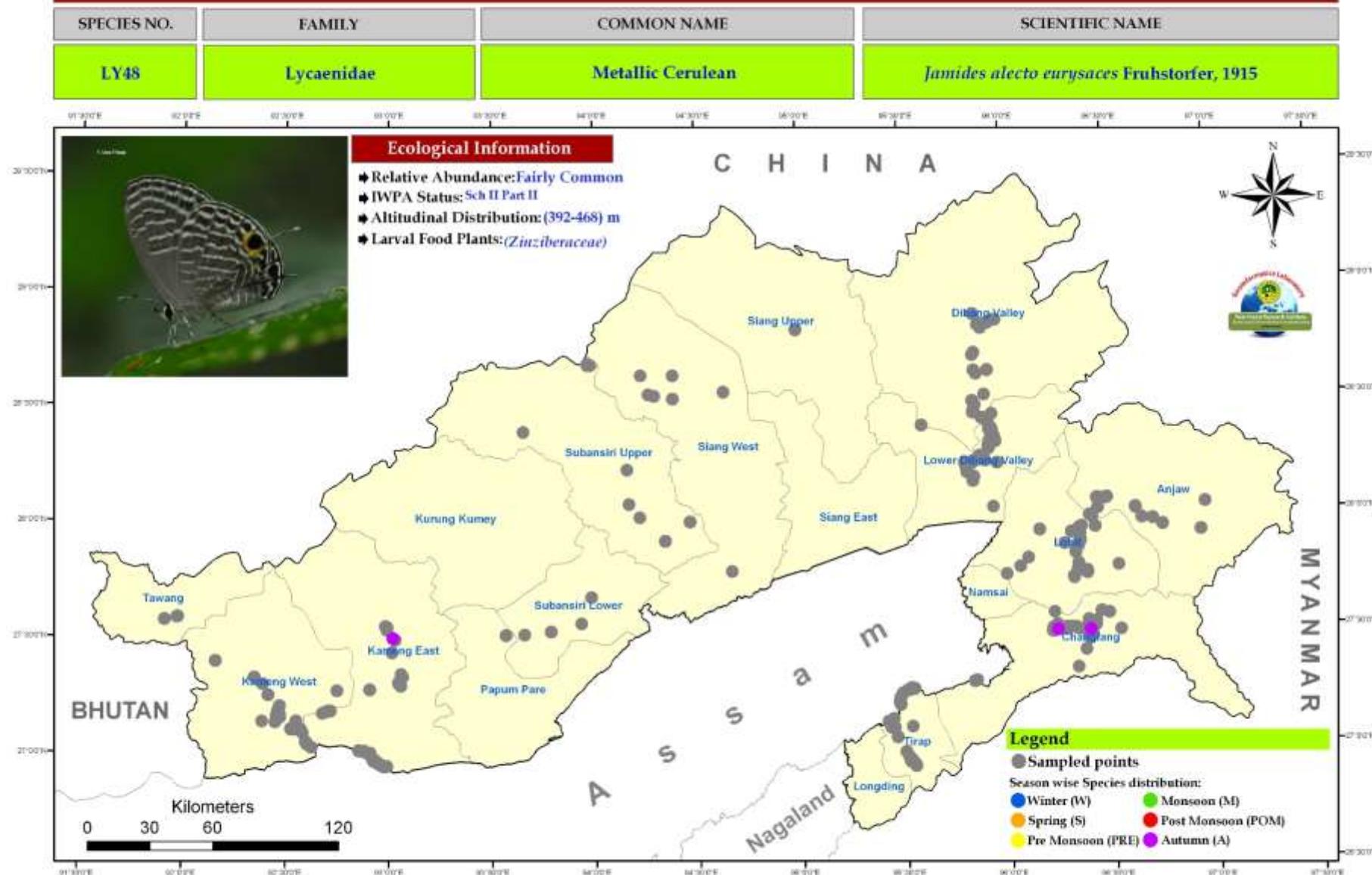
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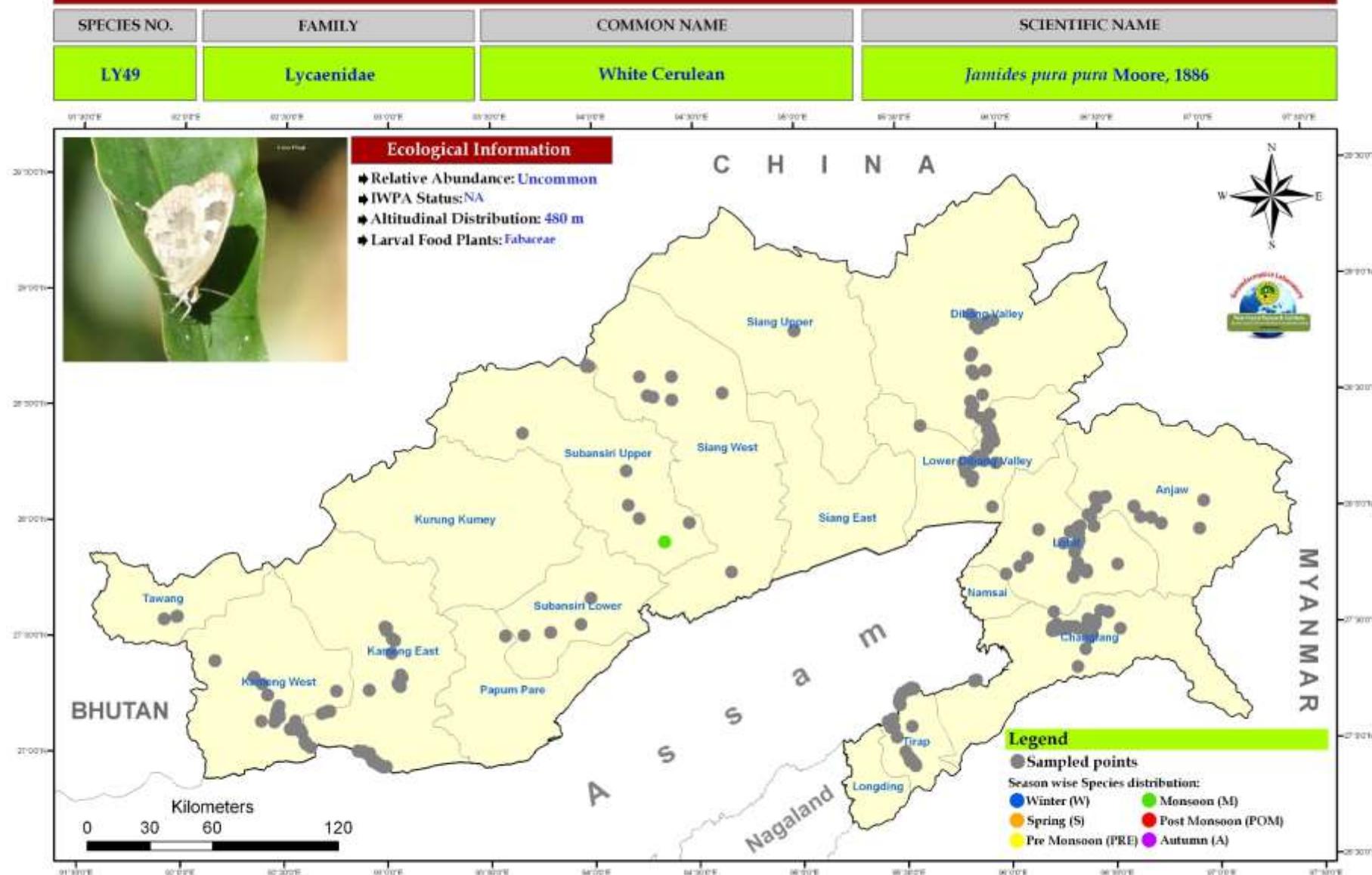
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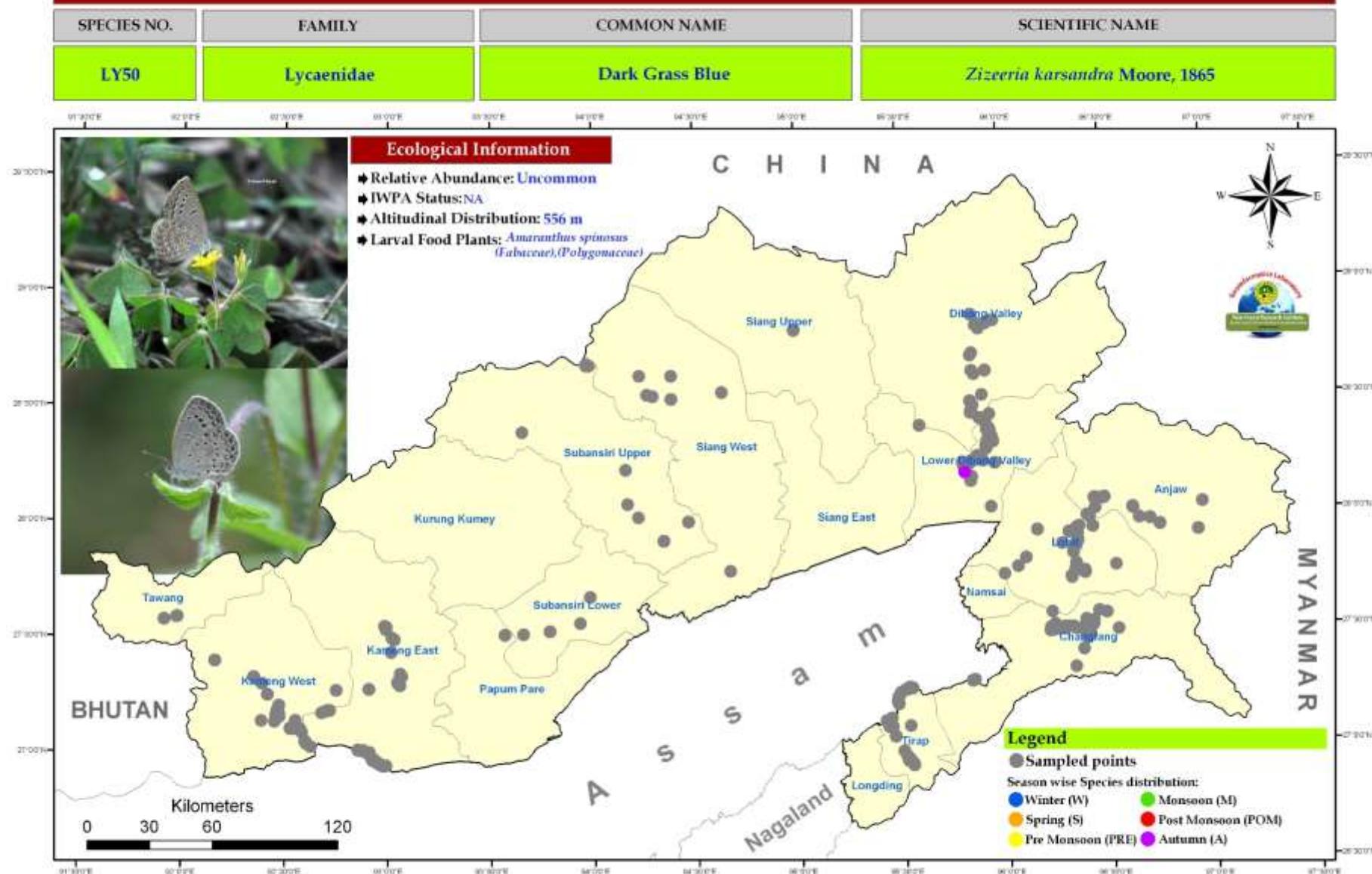
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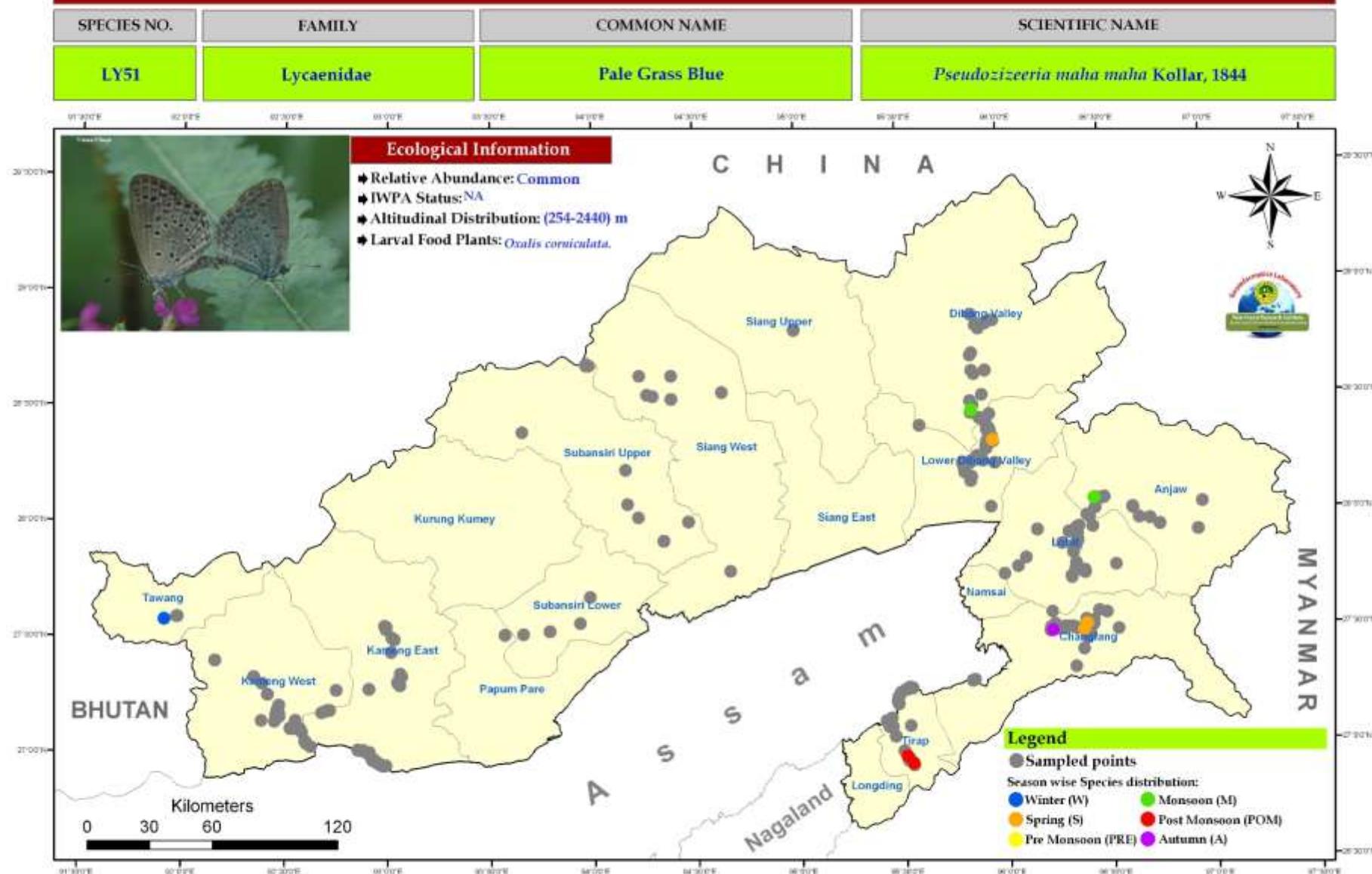
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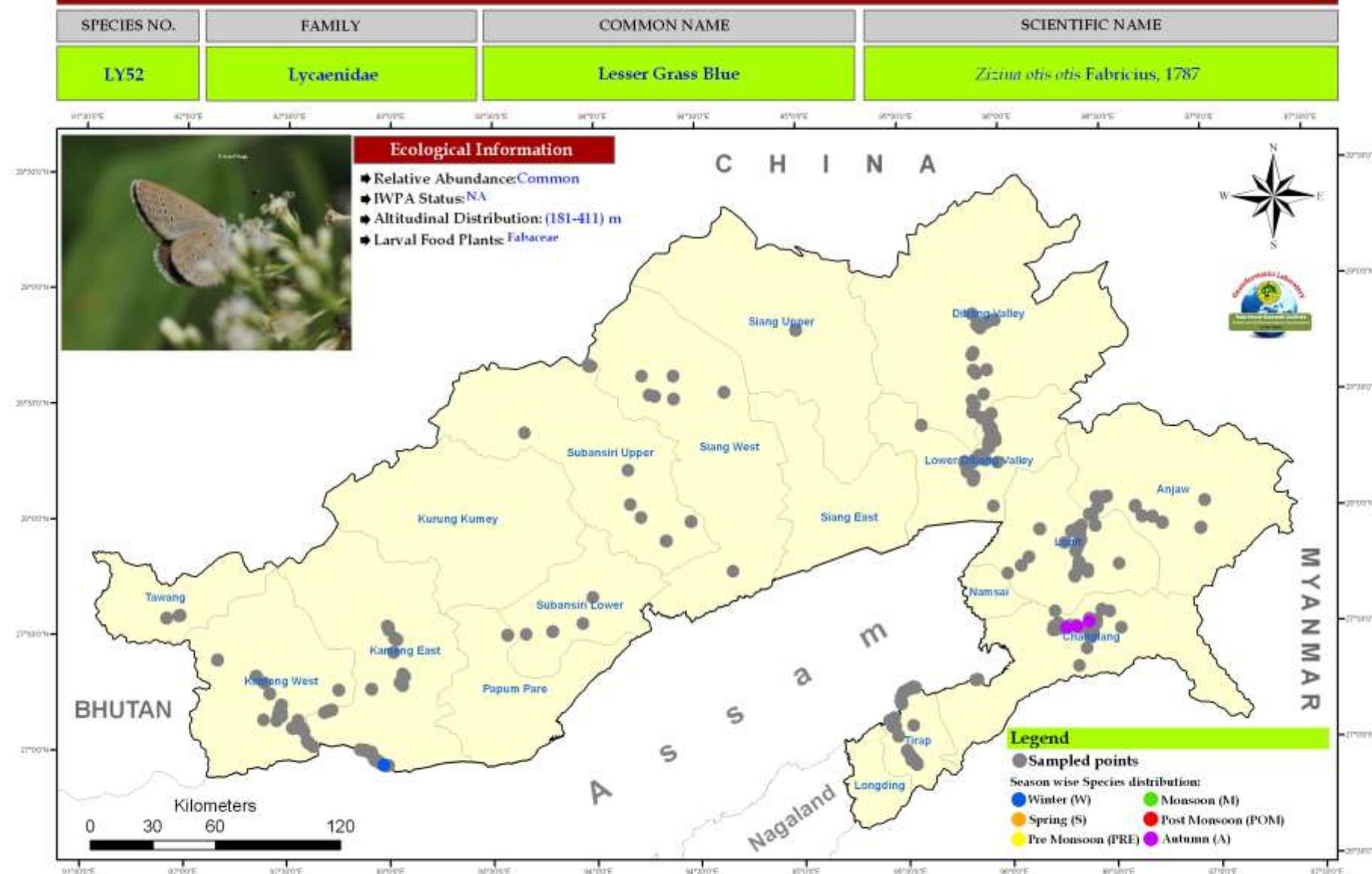
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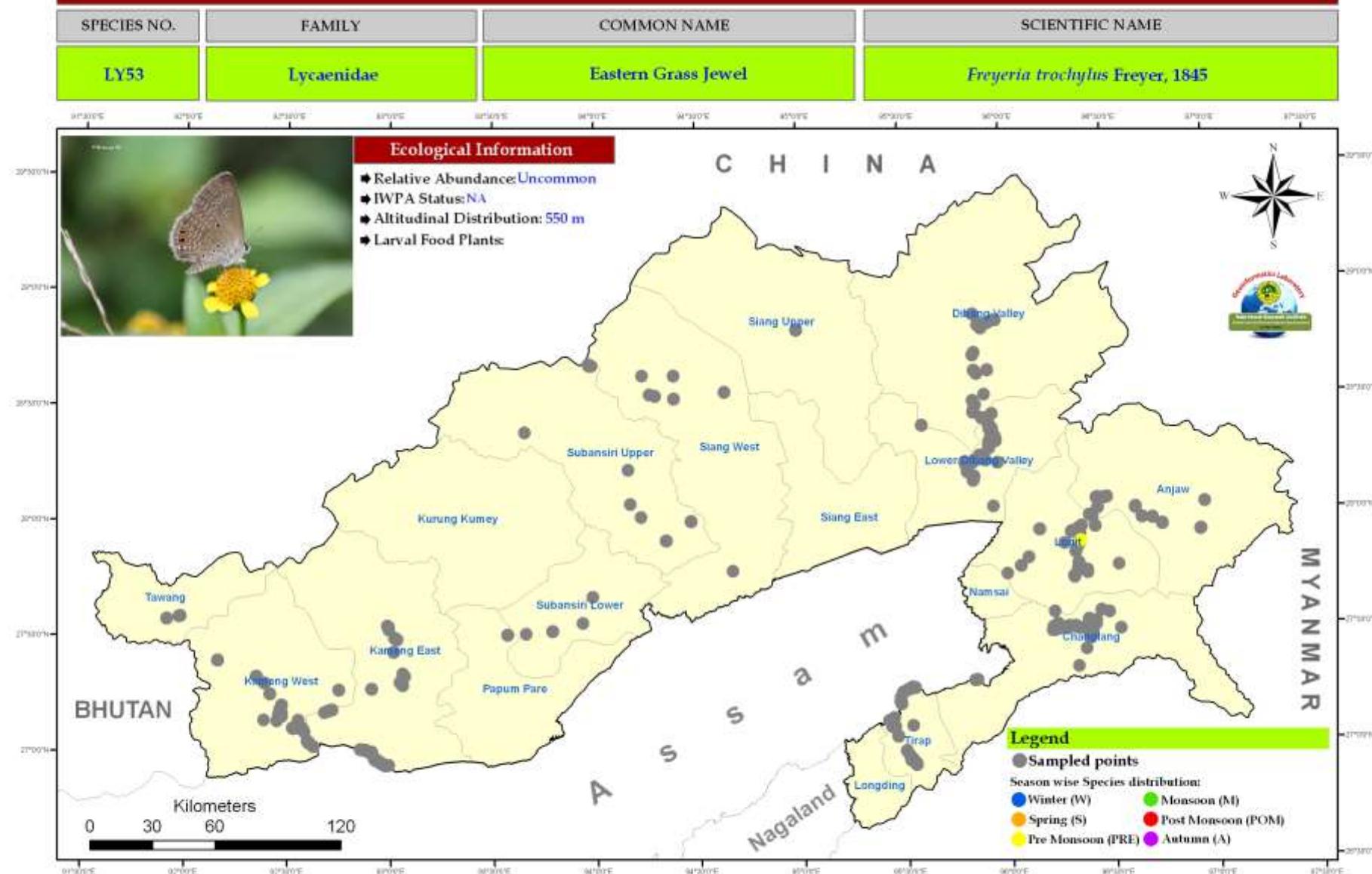
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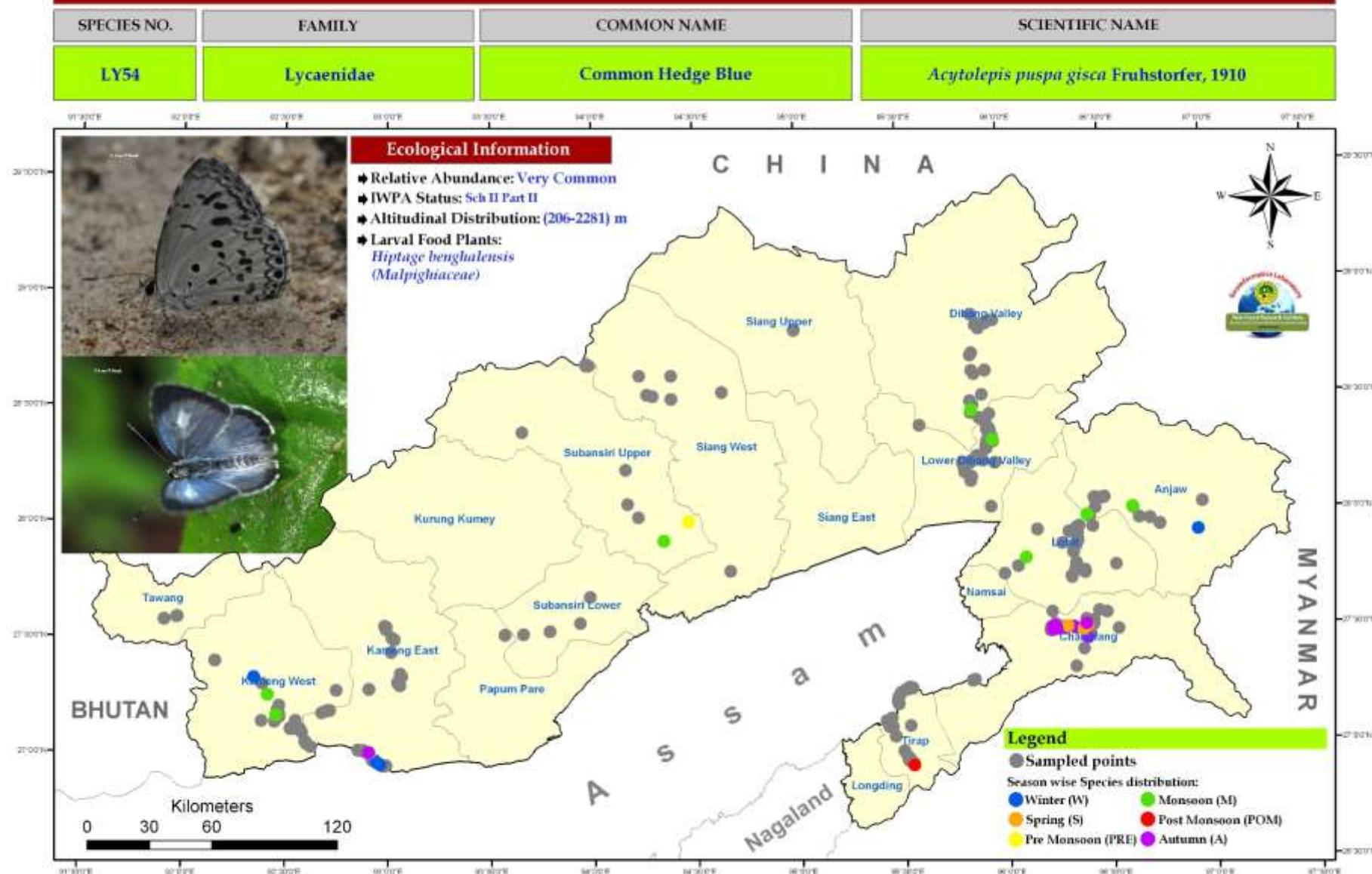
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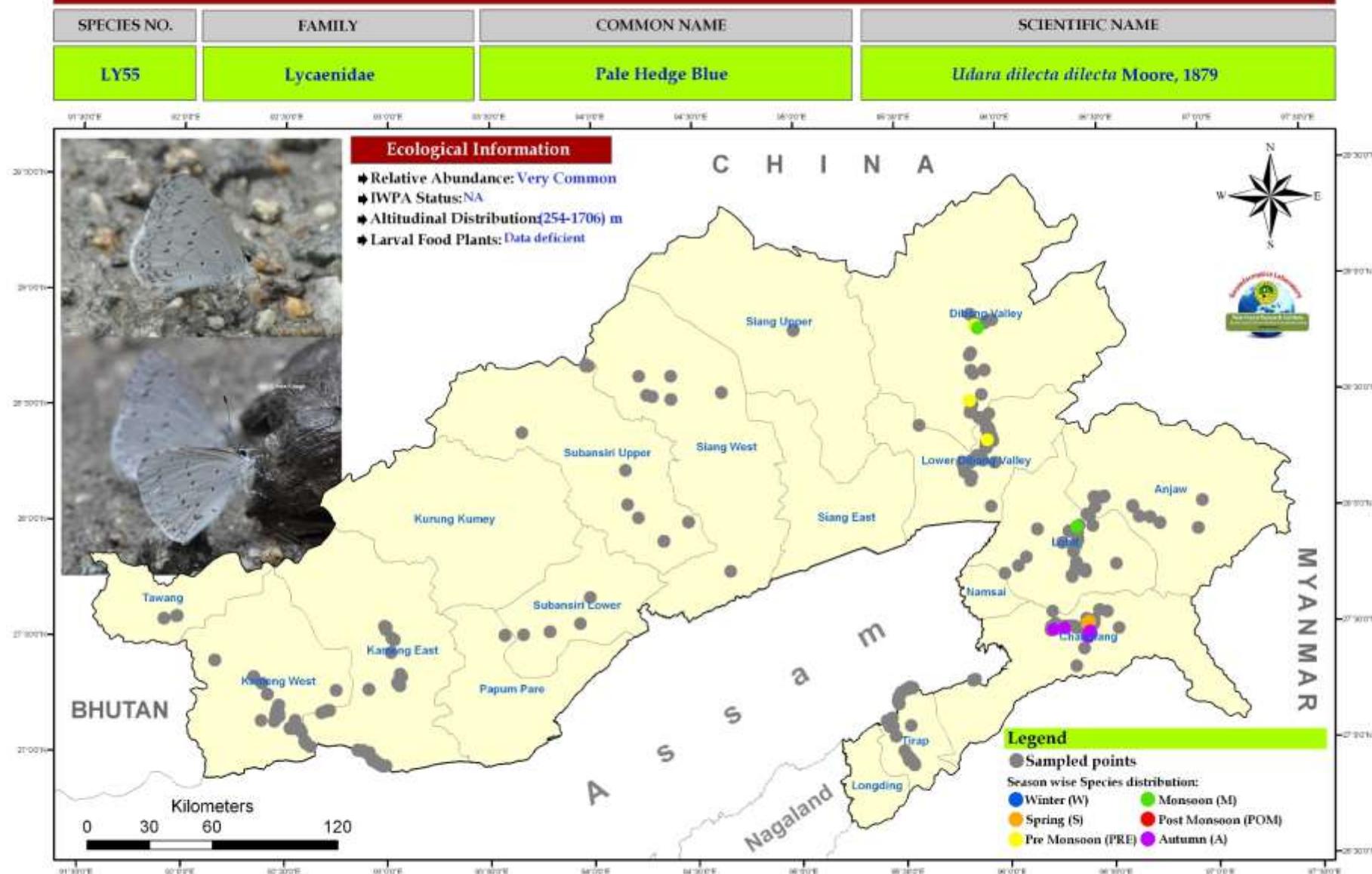
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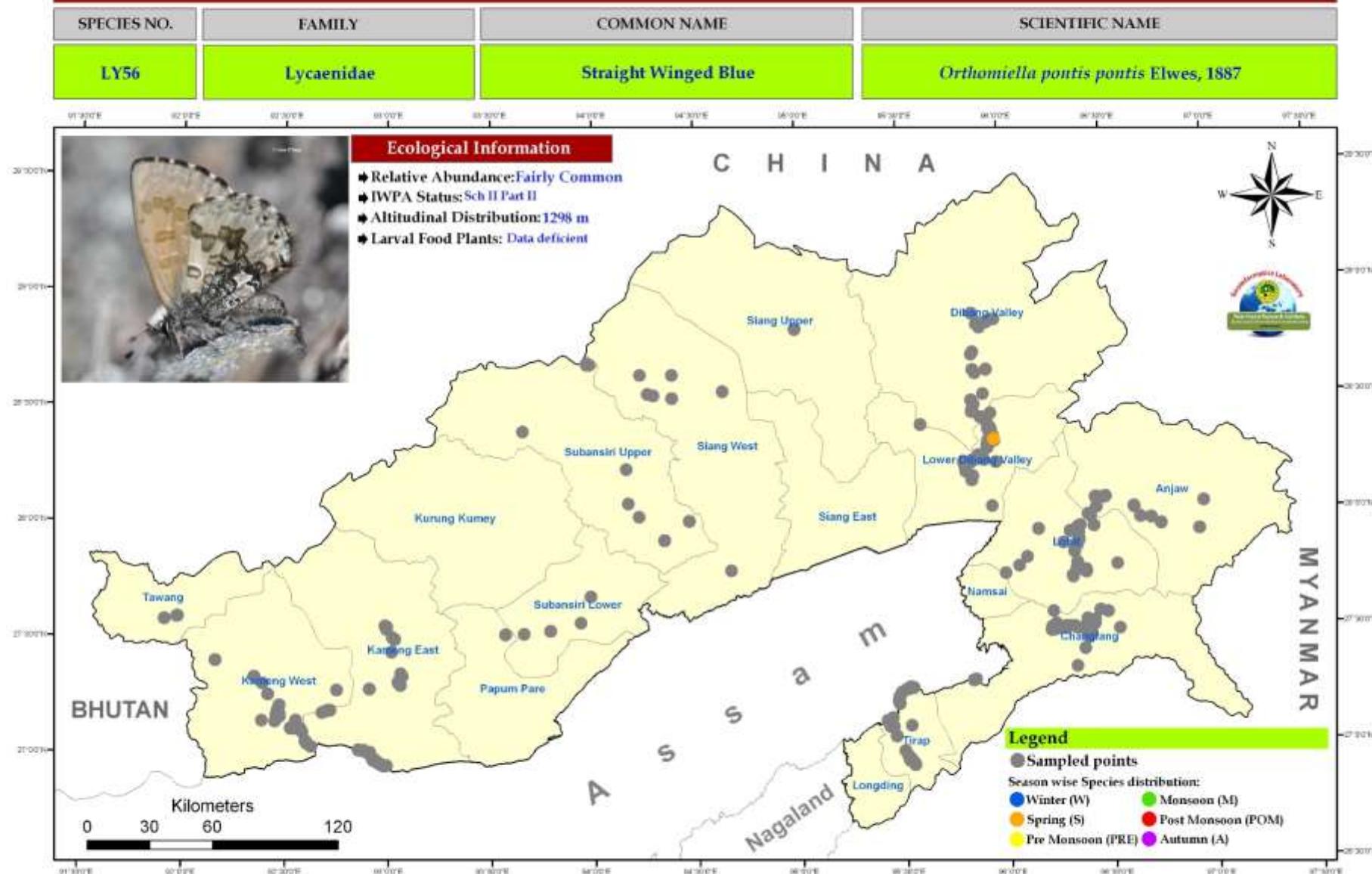
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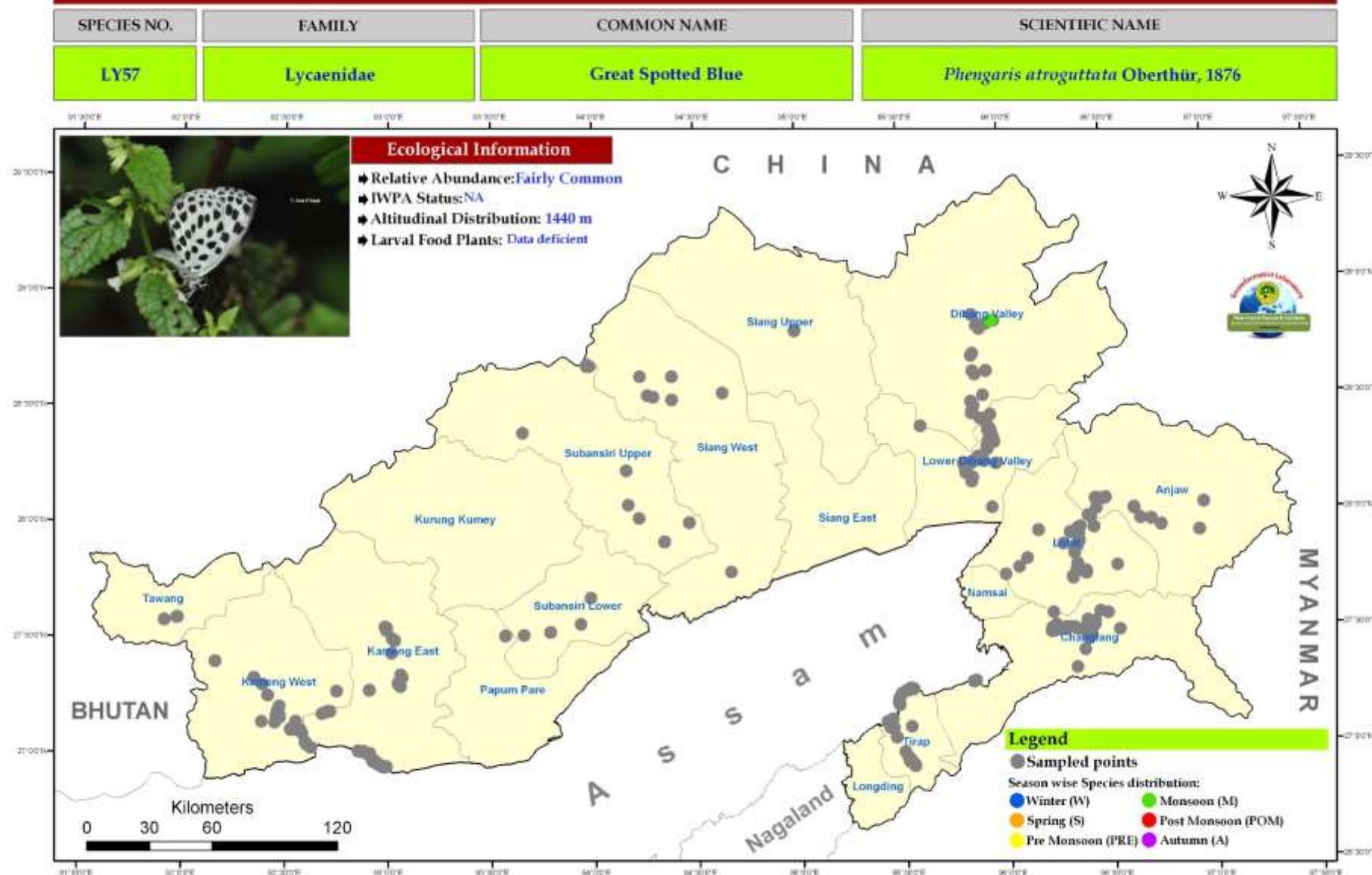
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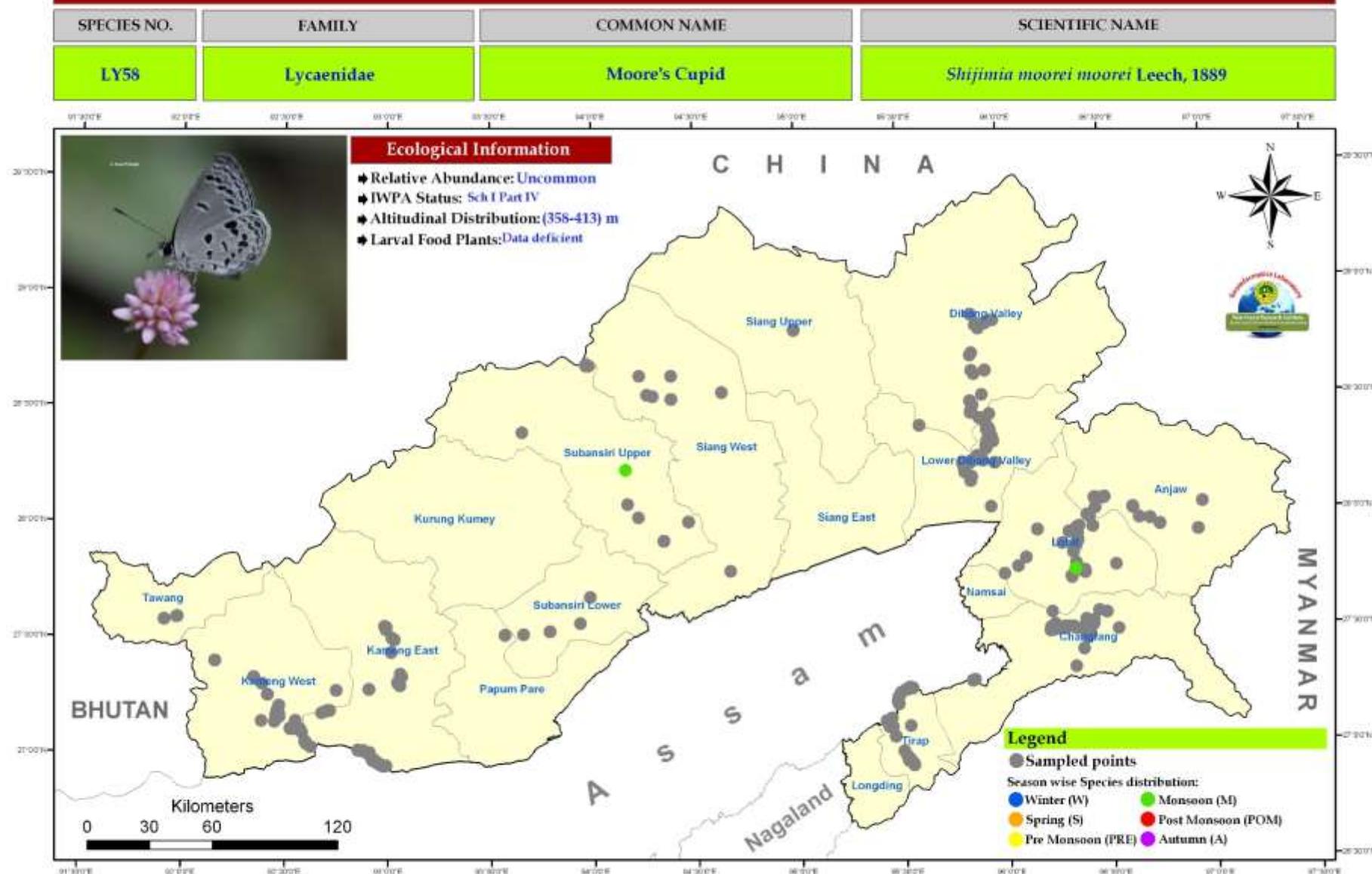
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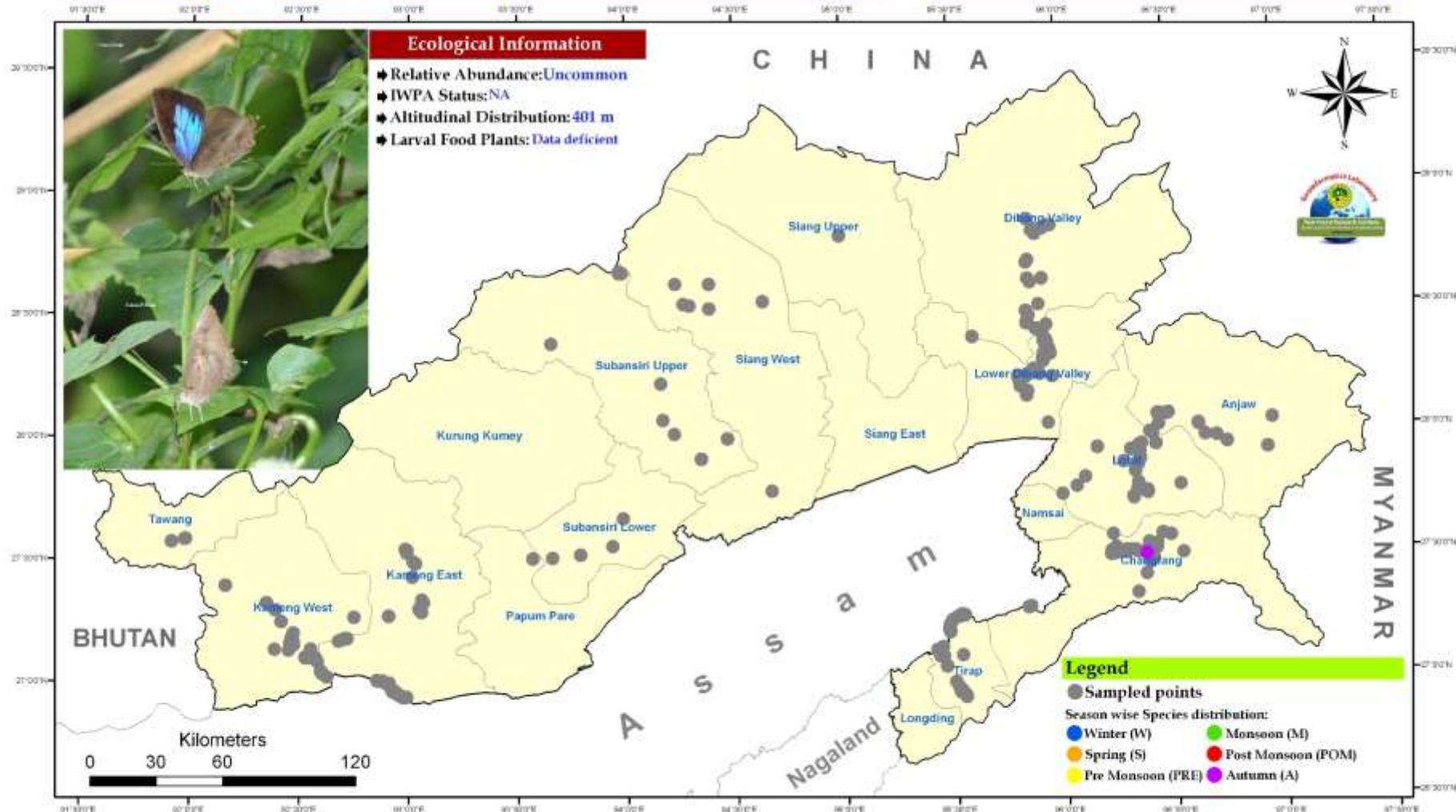


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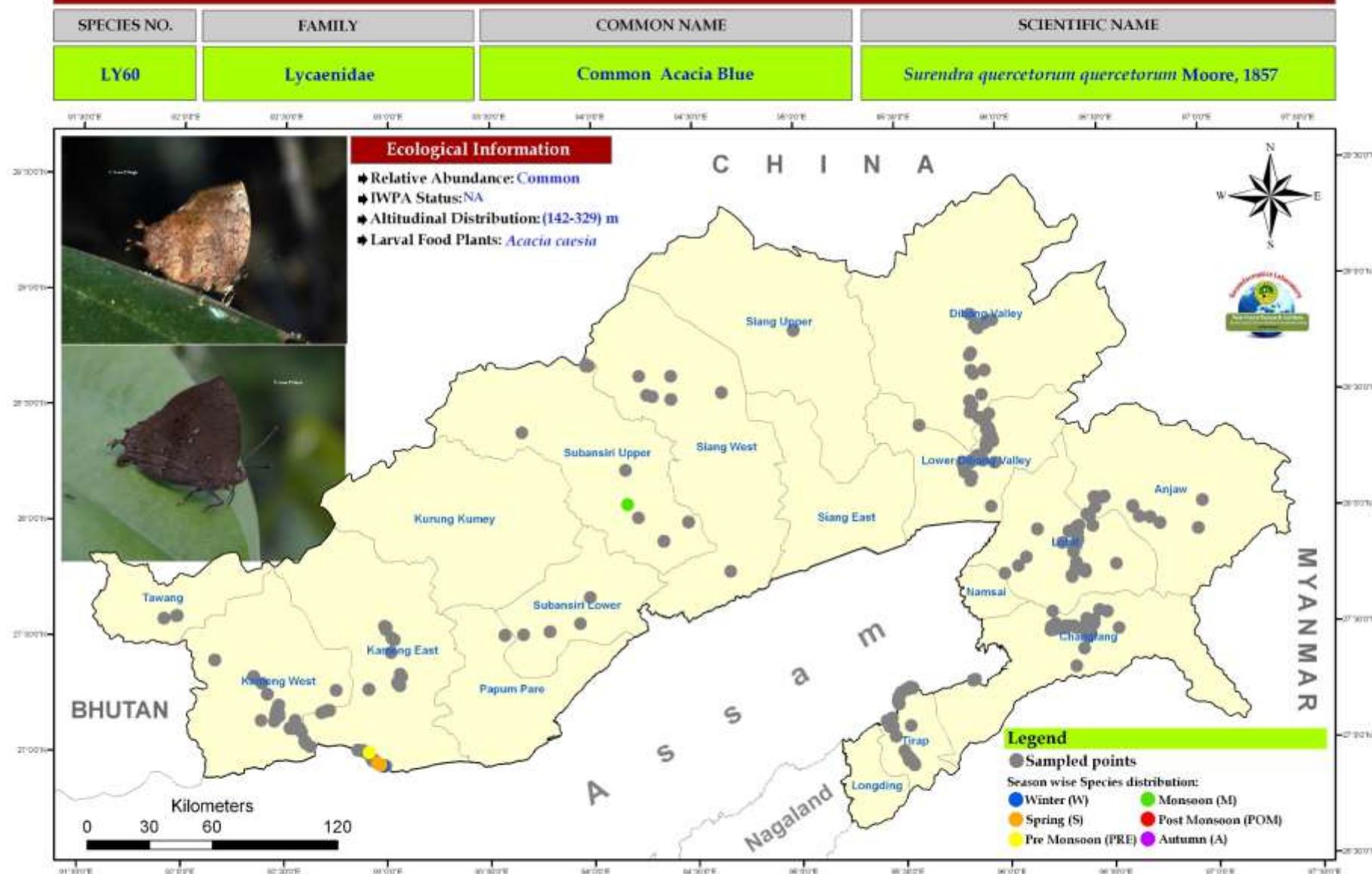


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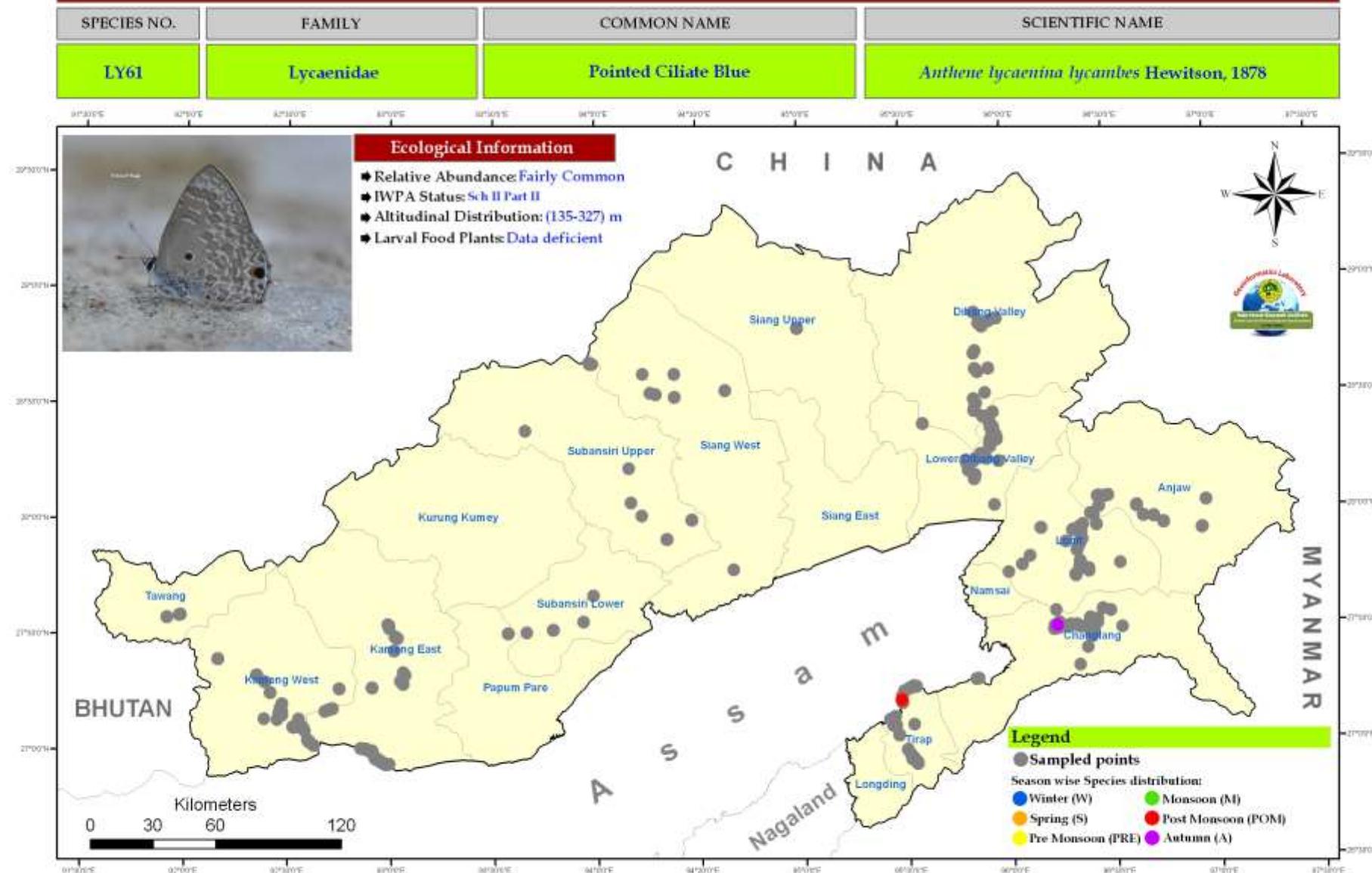
SPECIES NO.	FAMILY	COMMON NAME	SCIENTIFIC NAME
LY59	Lycaenidae	Glazed Oakblue	<i>Arhopala paralea</i> Evans, 1925



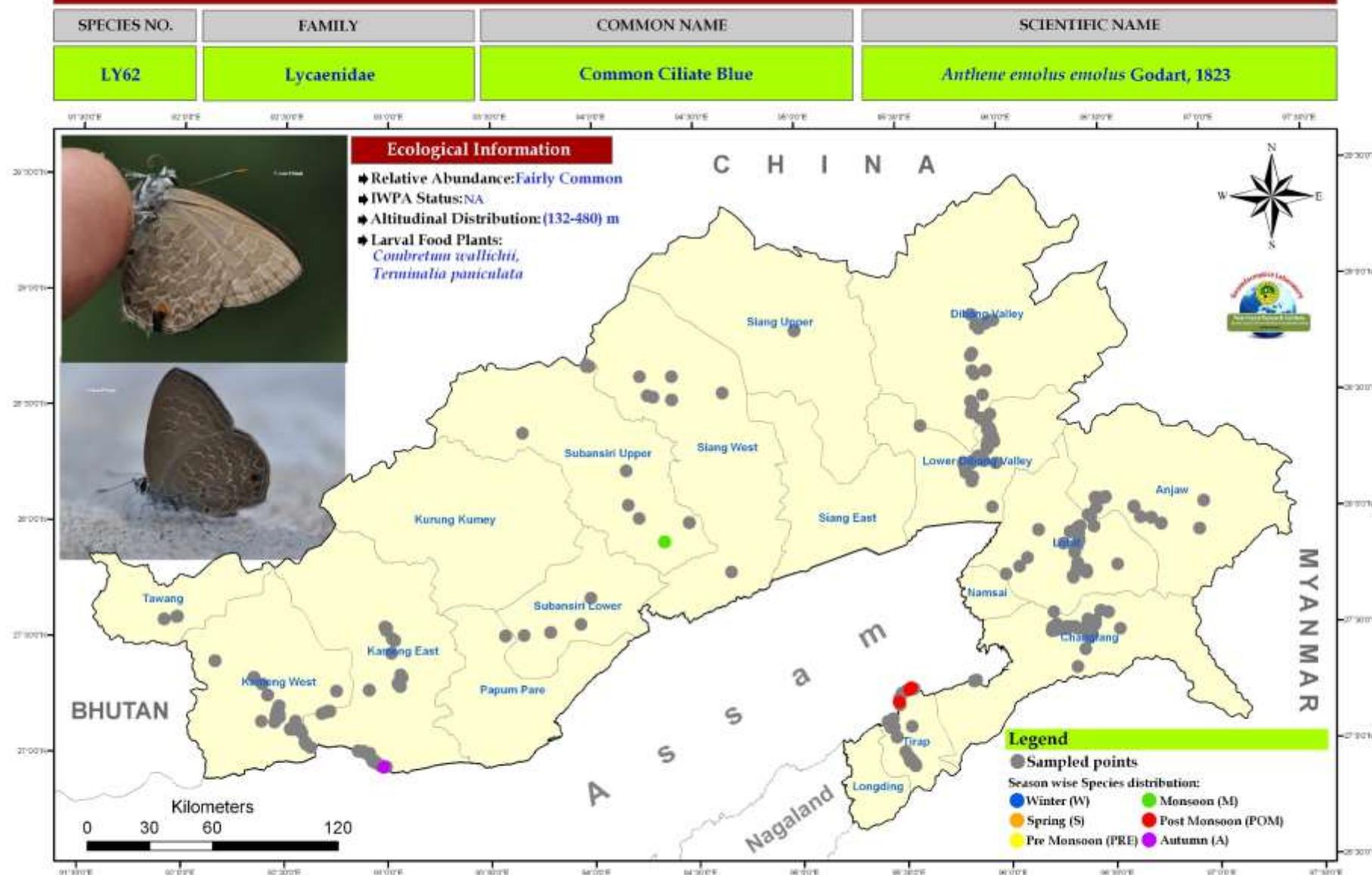
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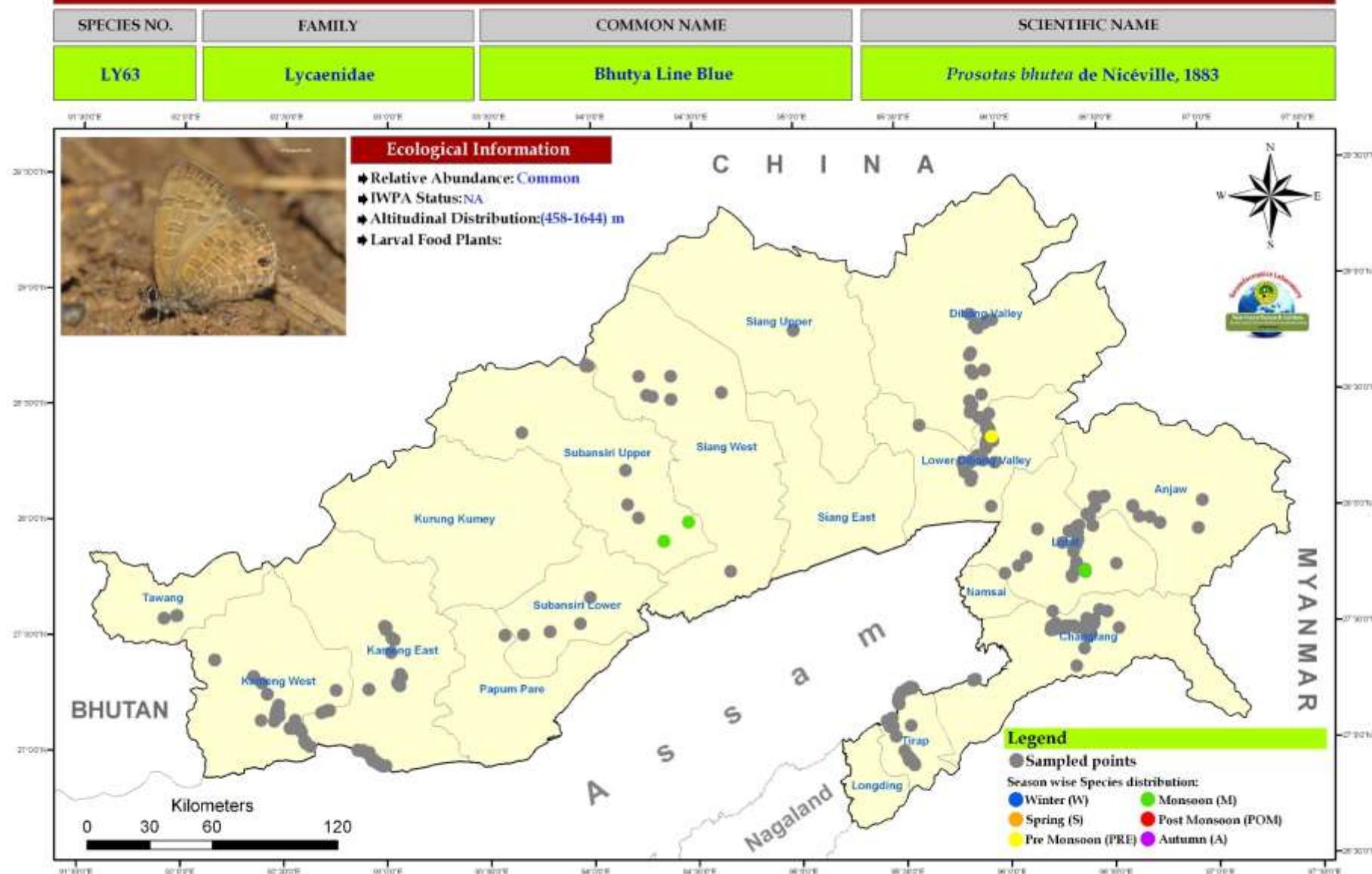
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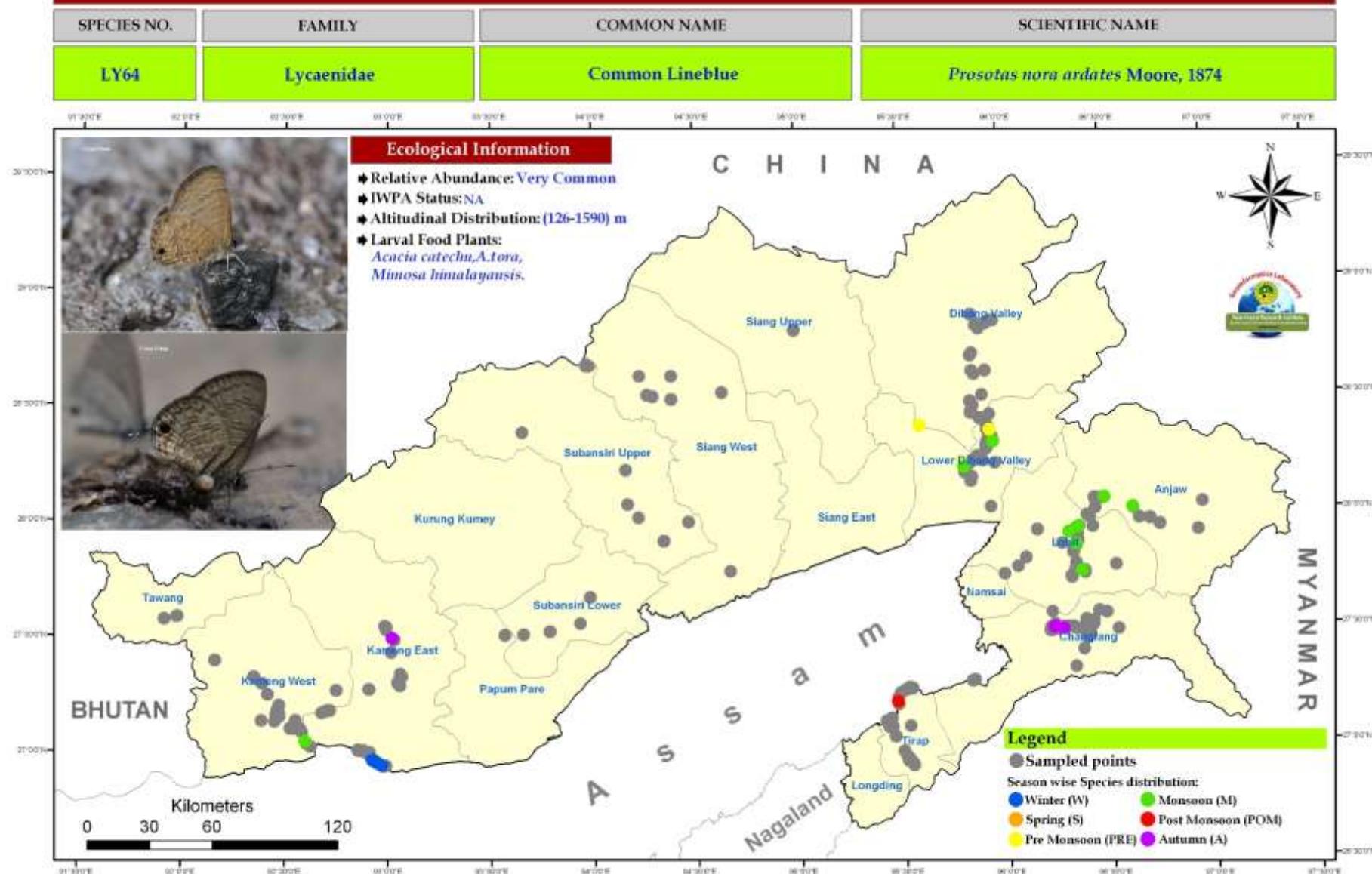
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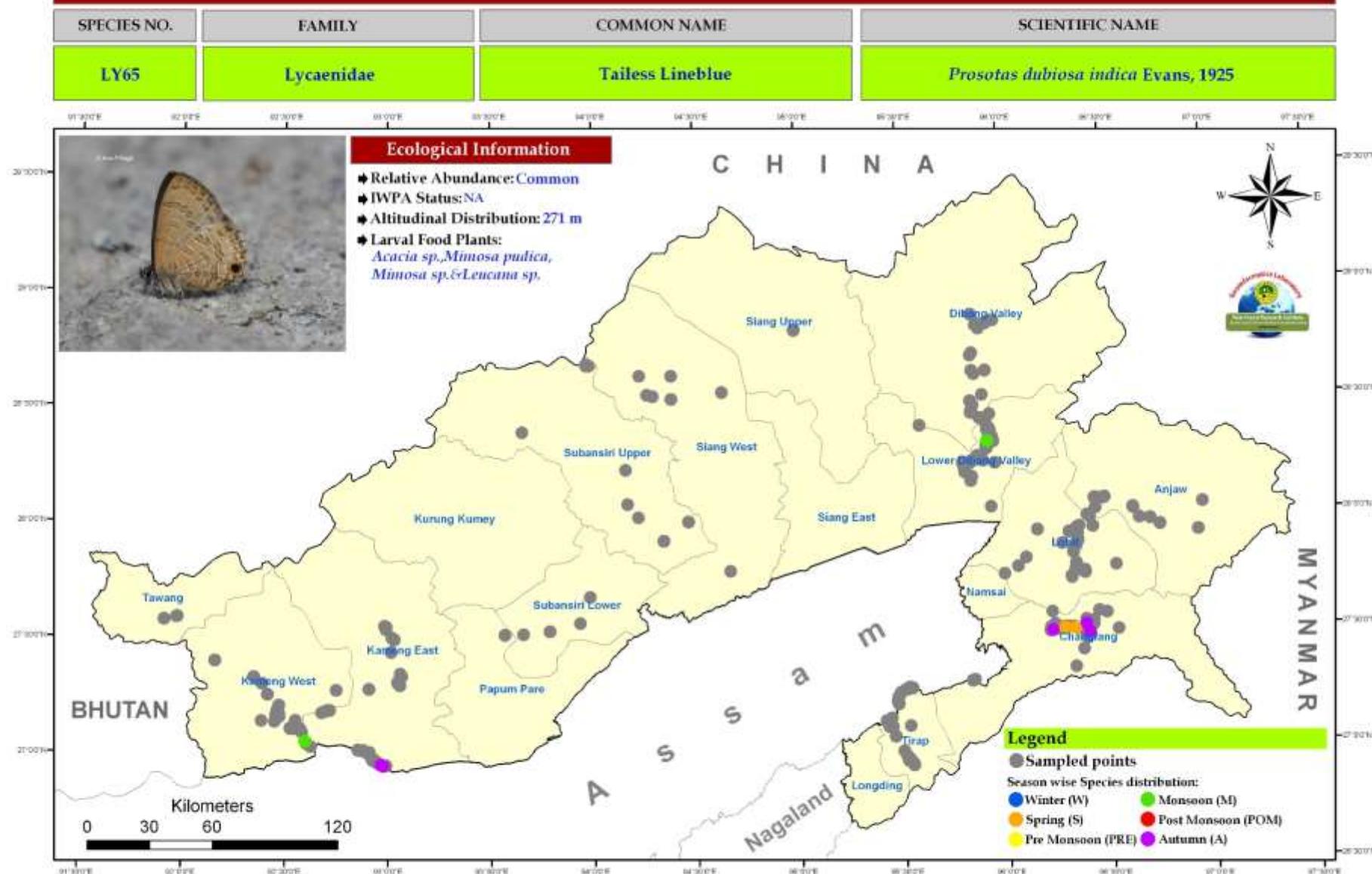
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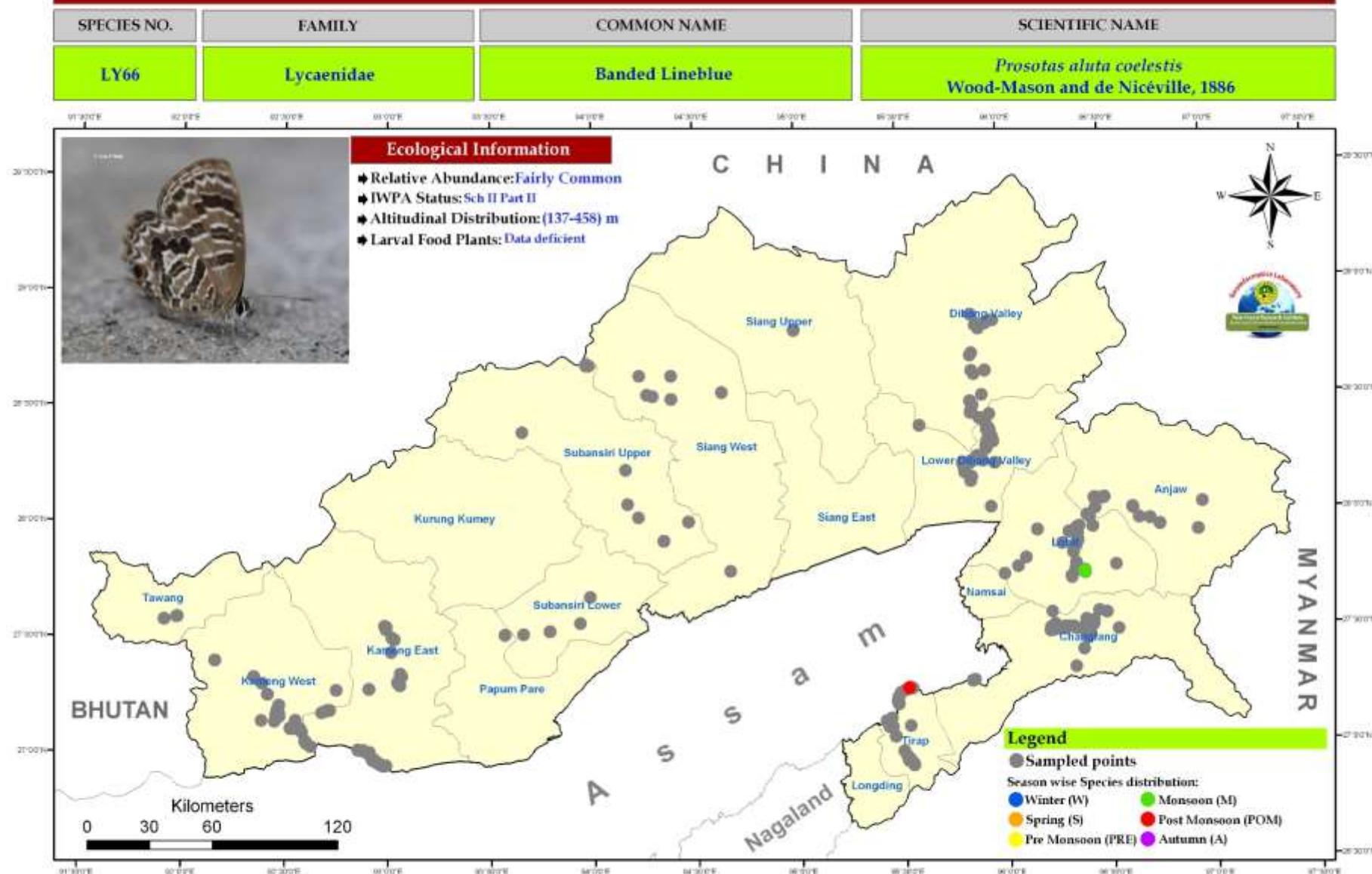
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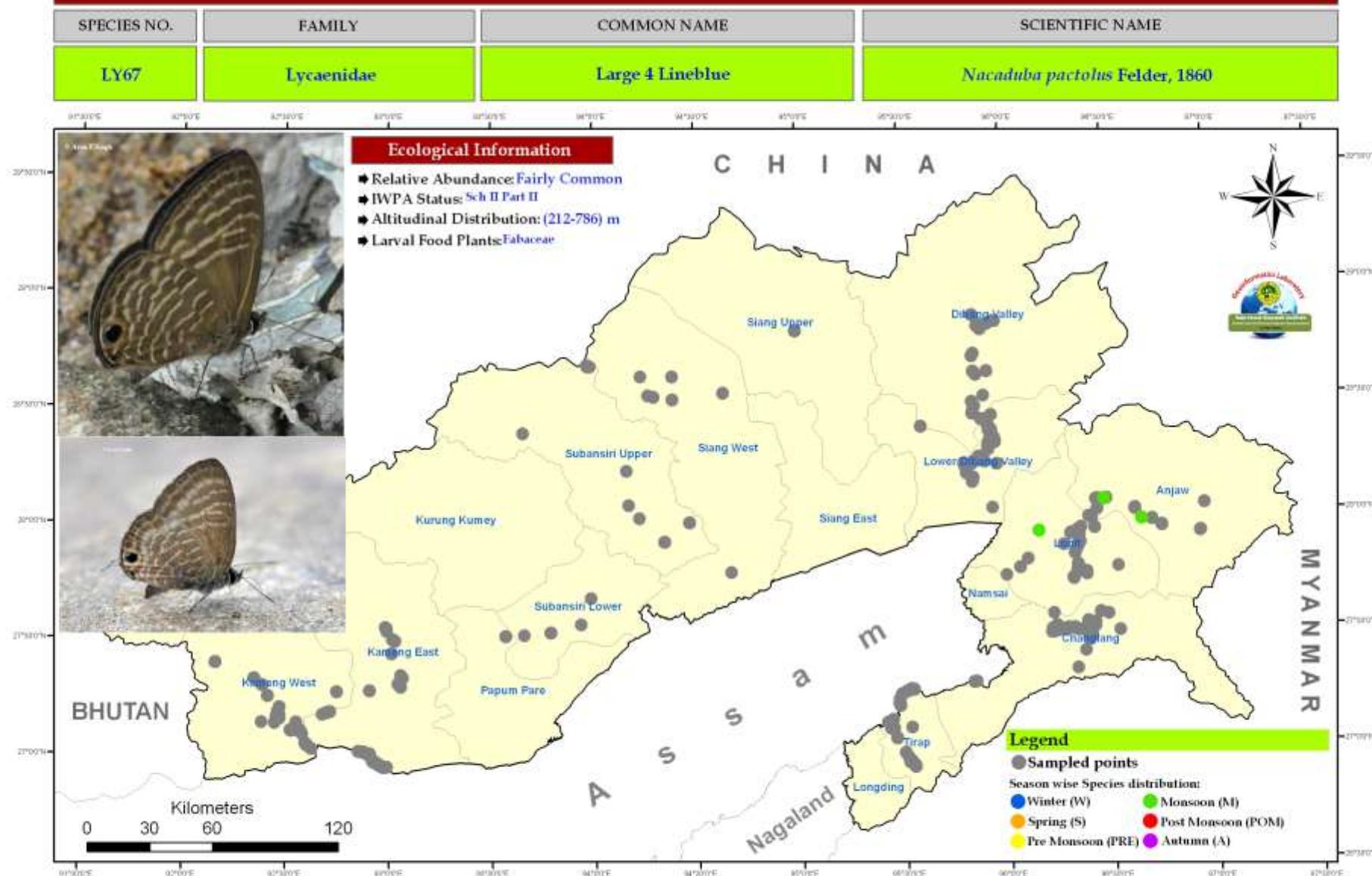
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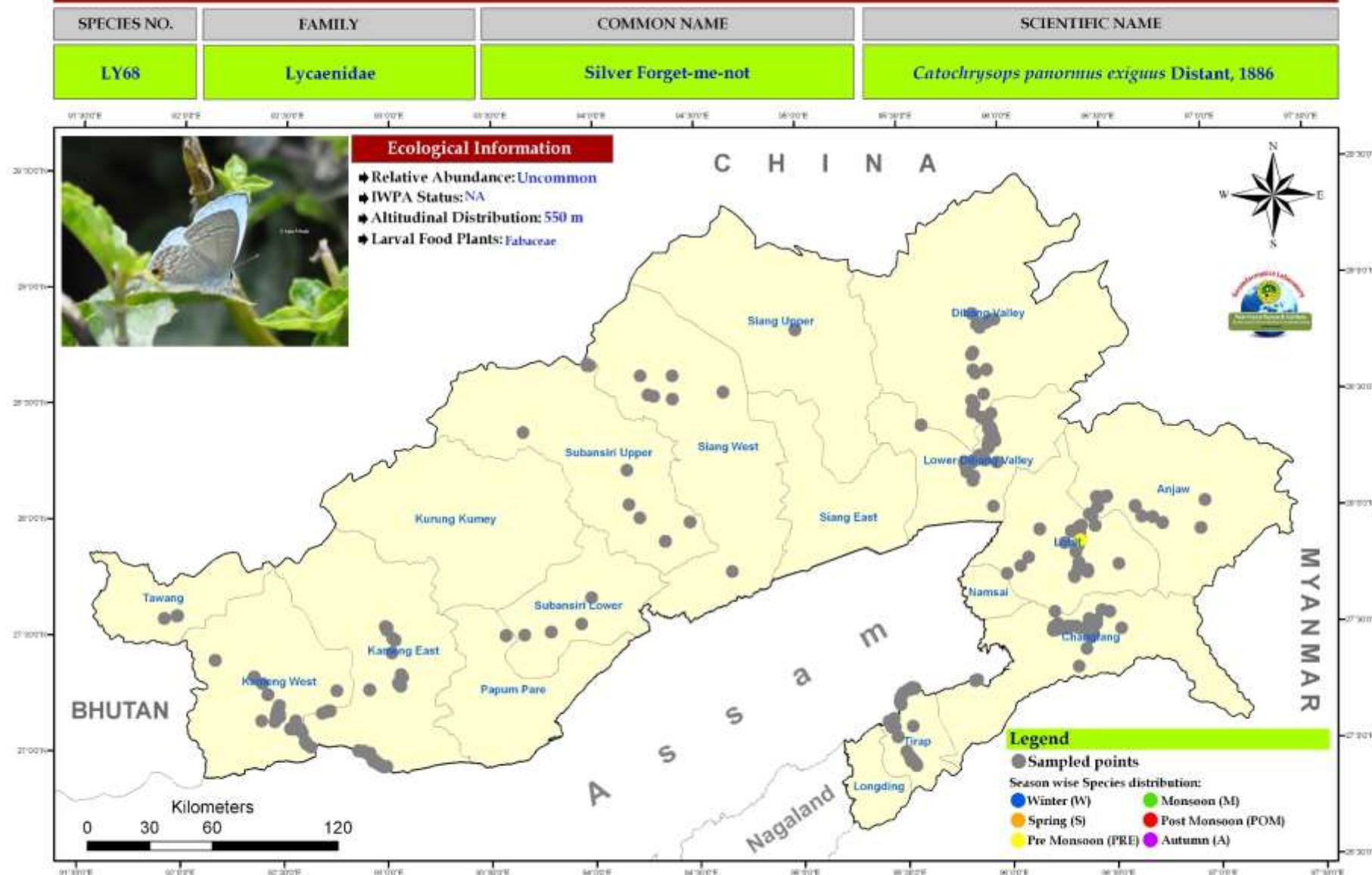
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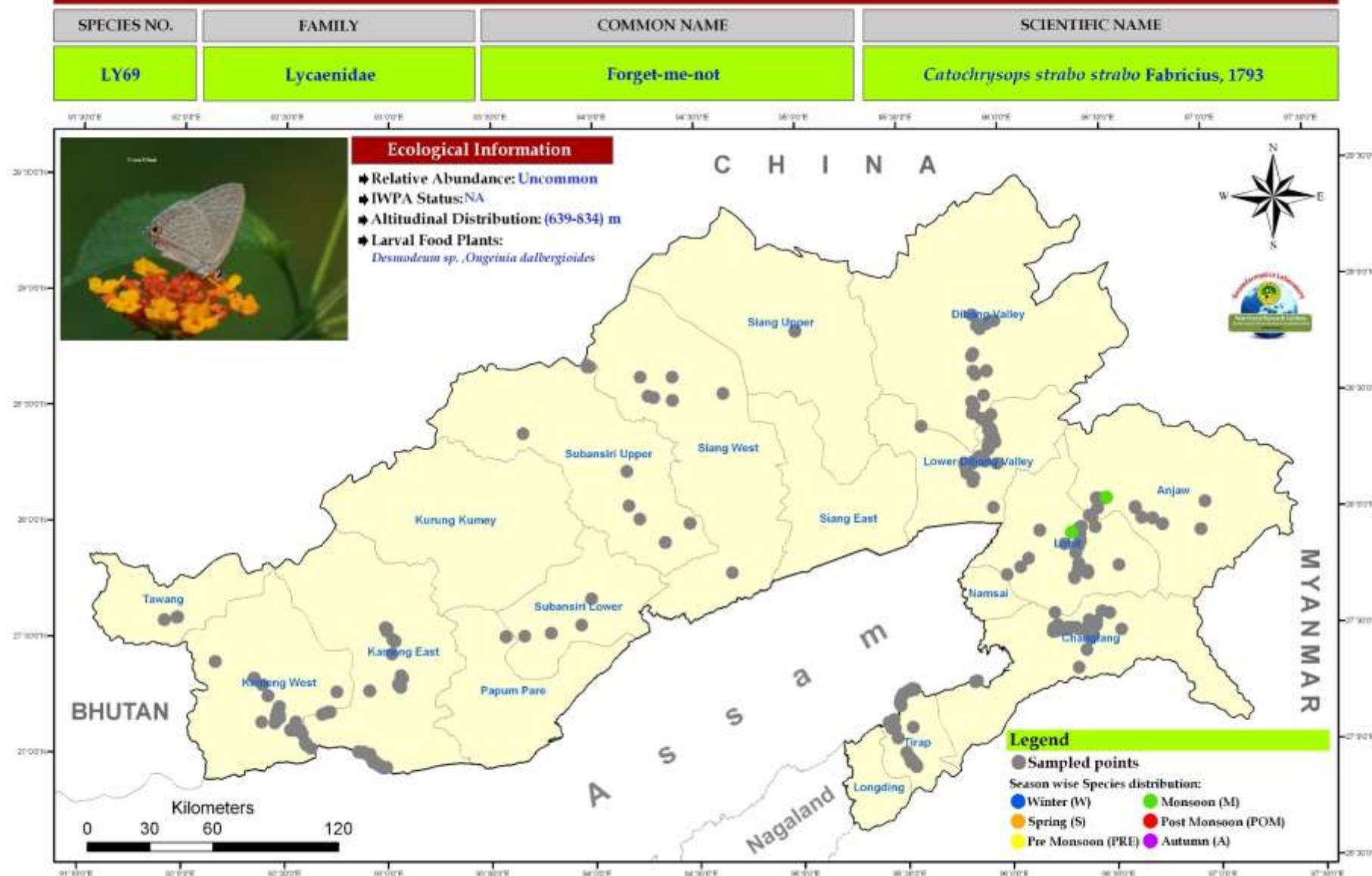
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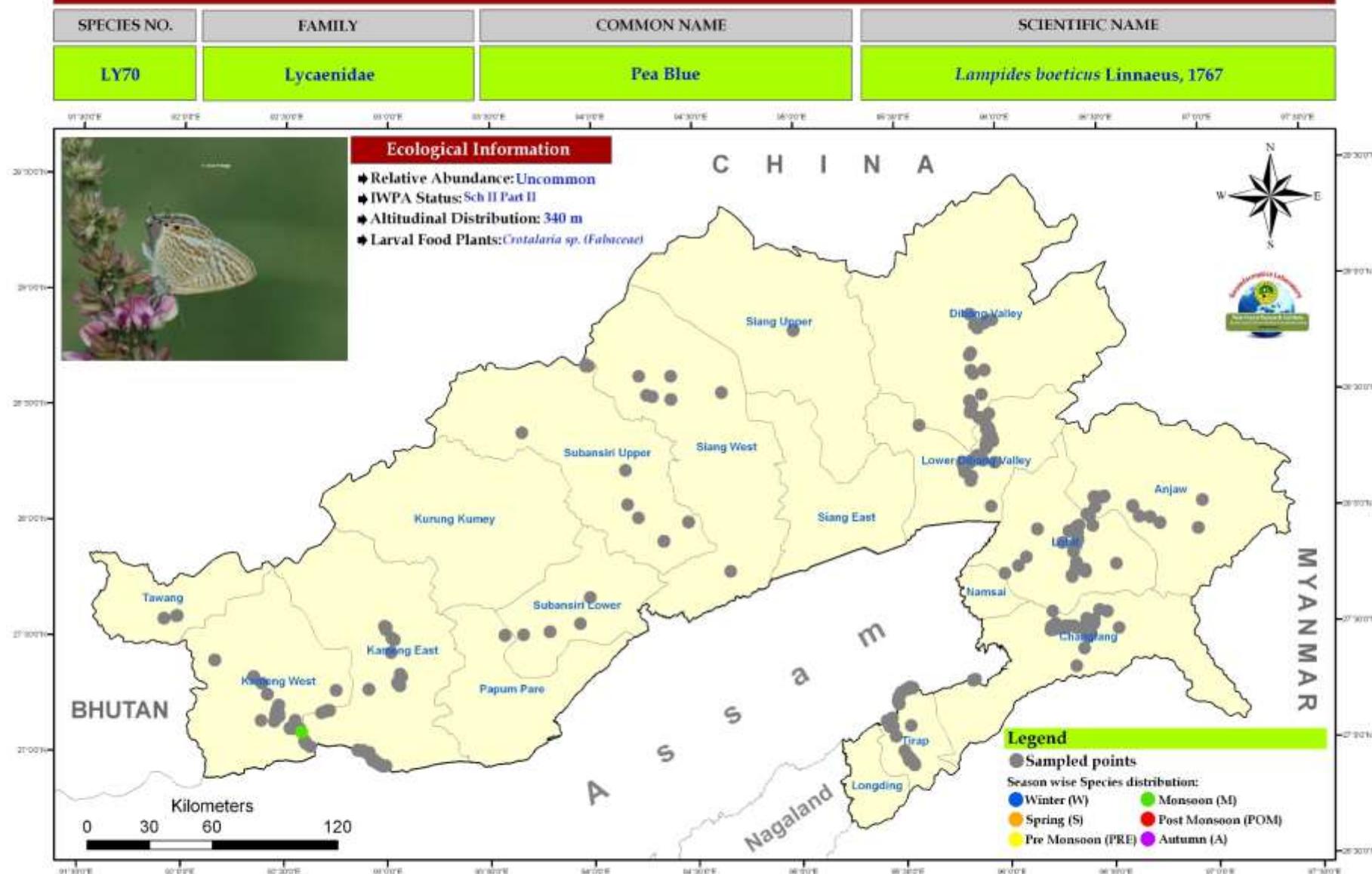
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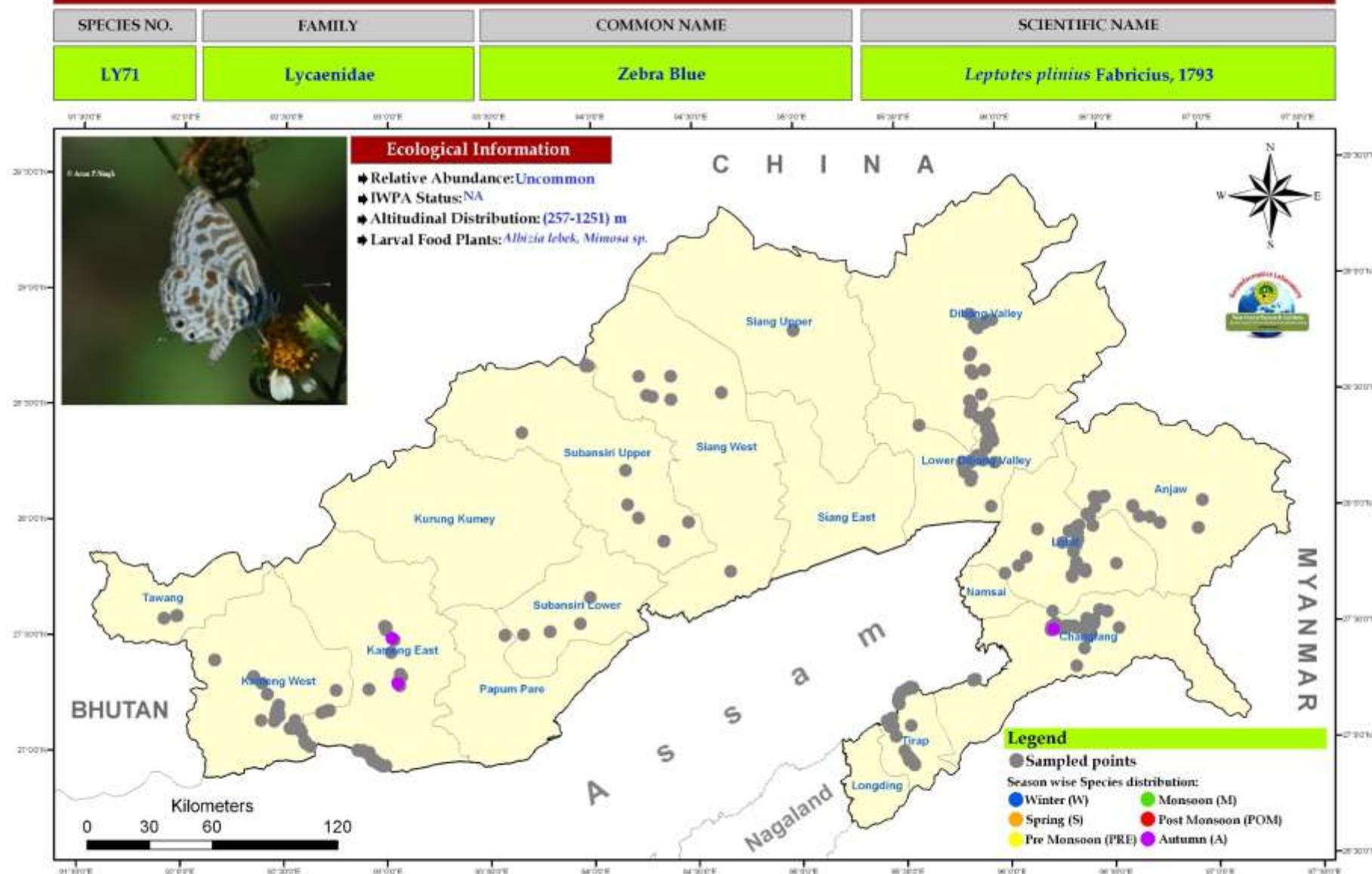
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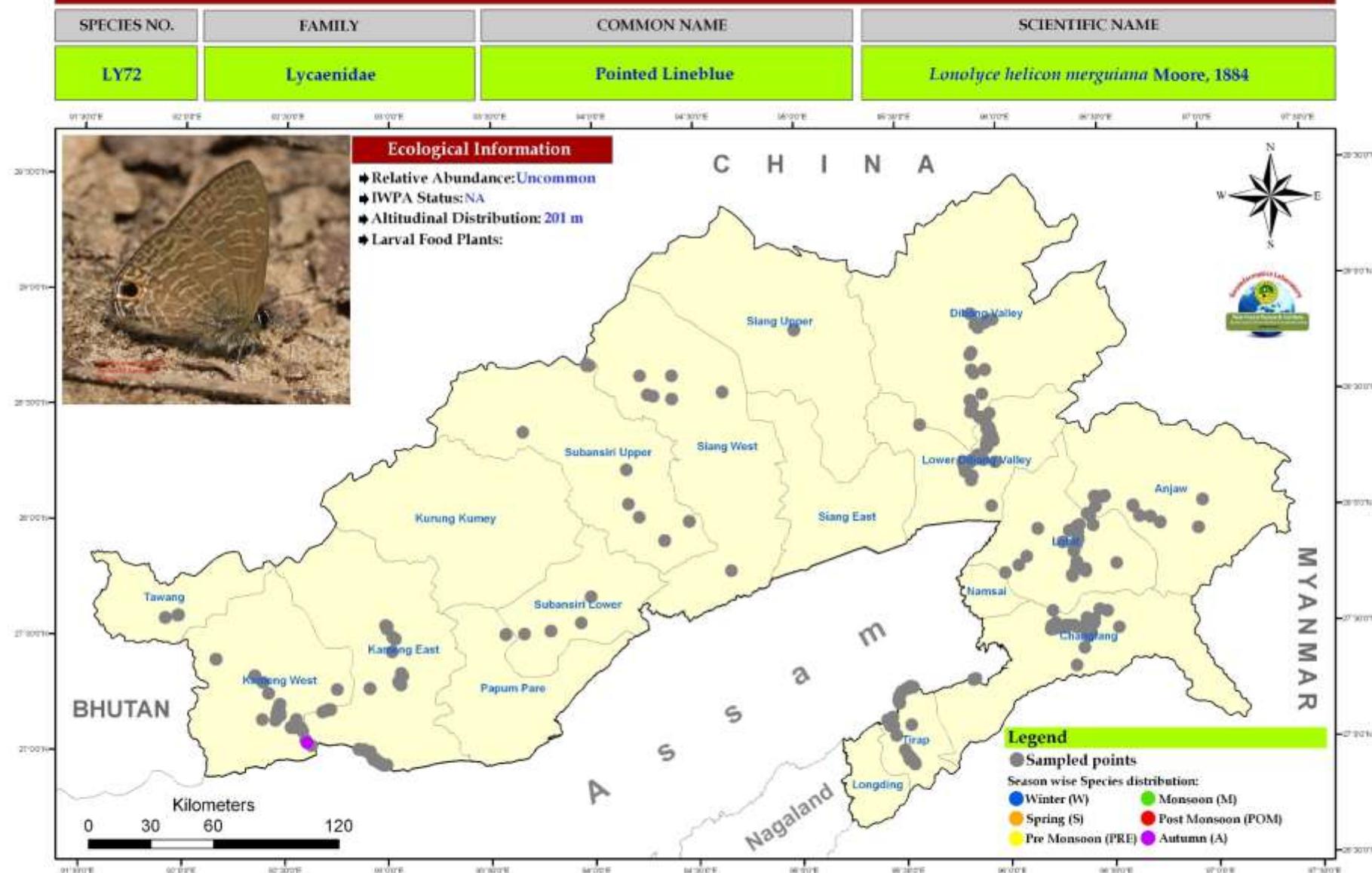
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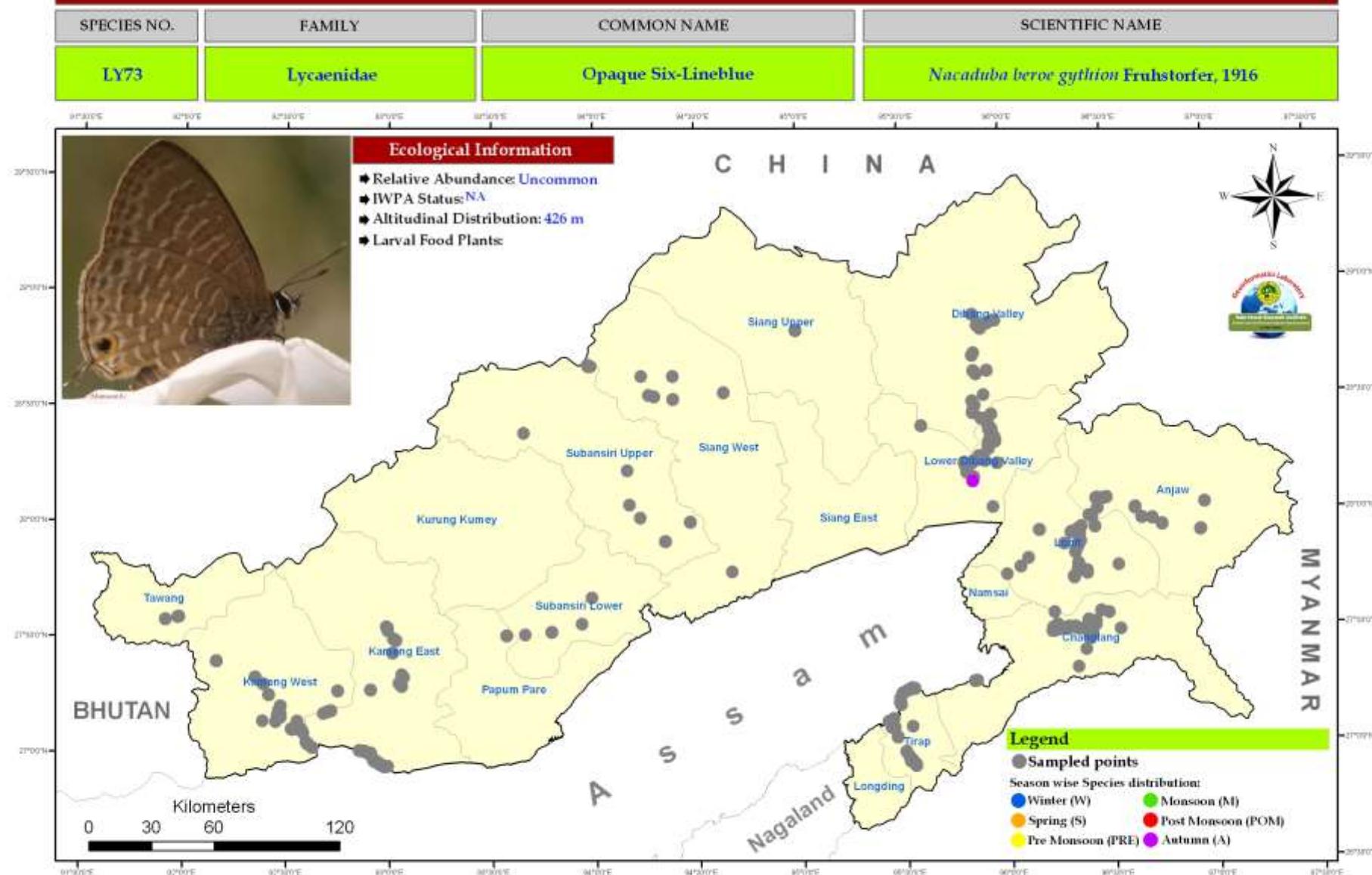
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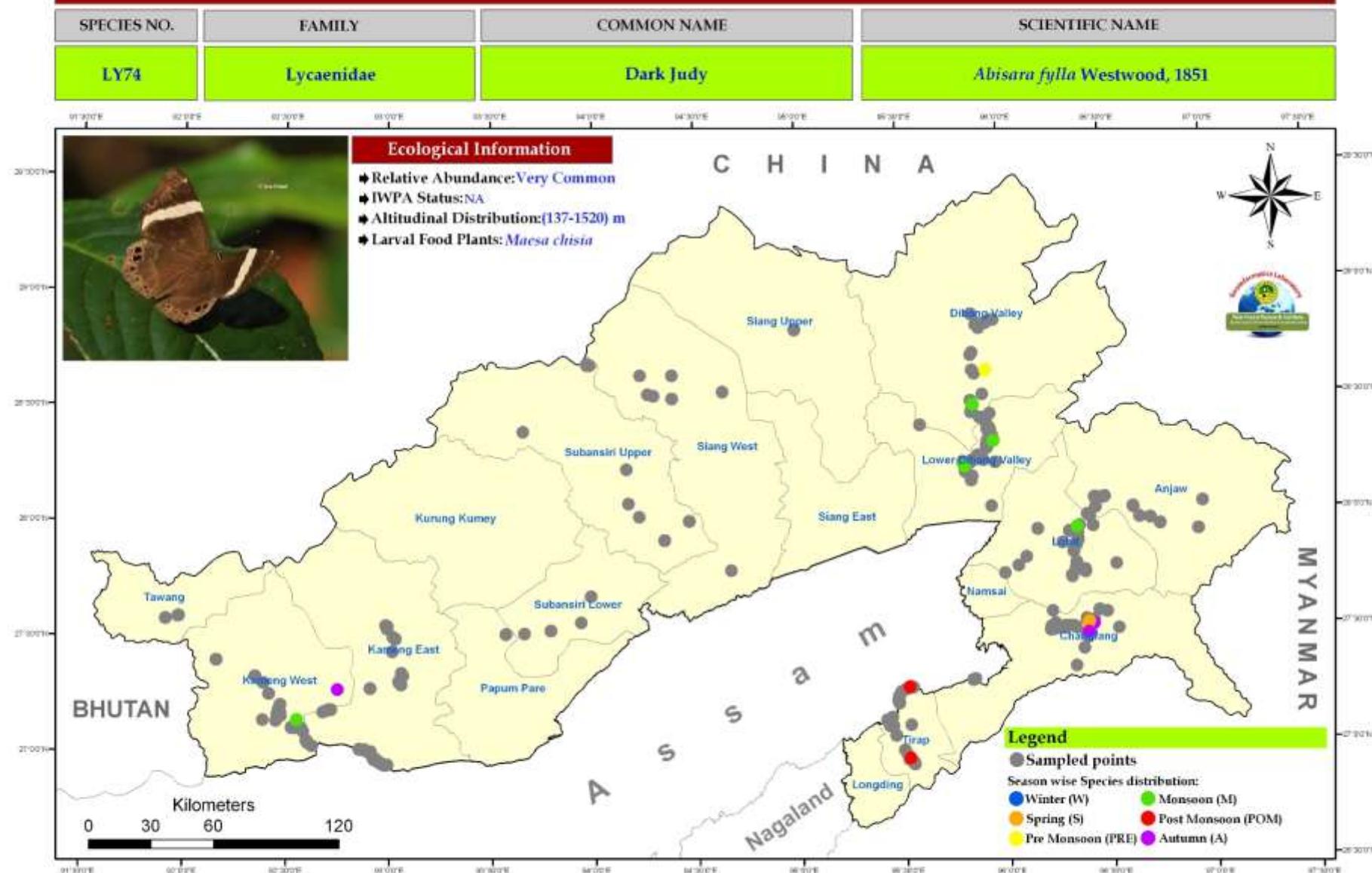
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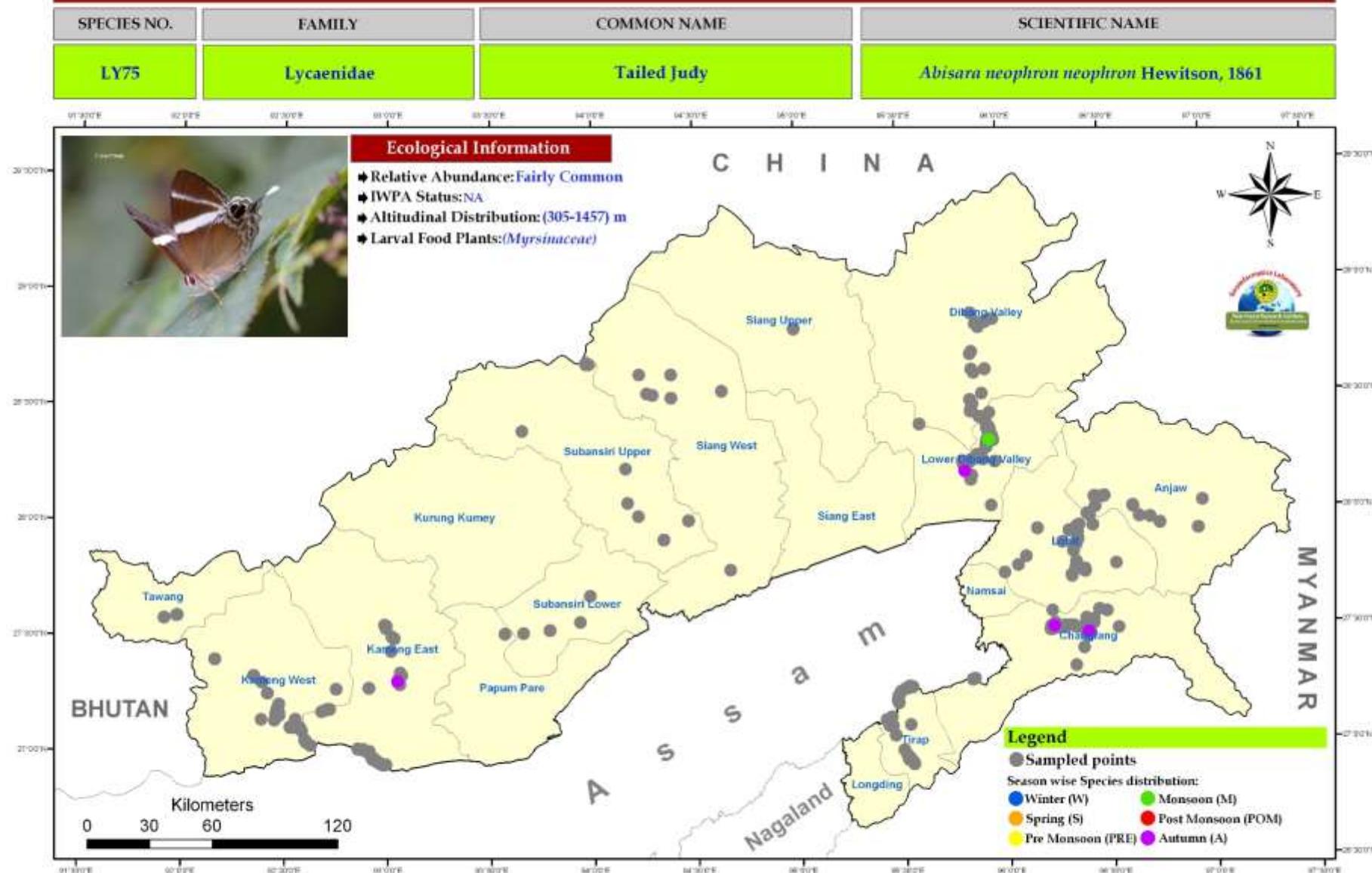
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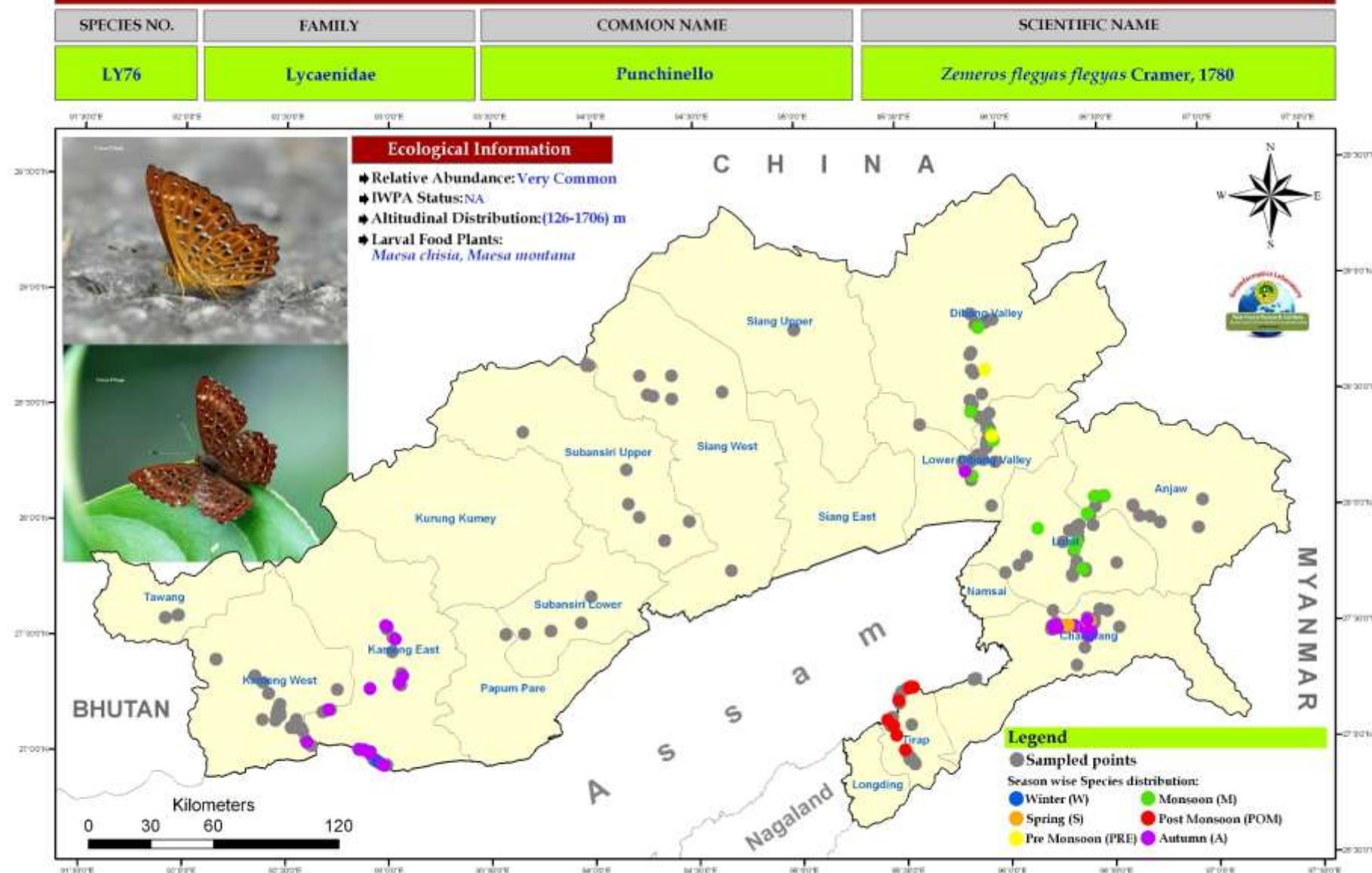
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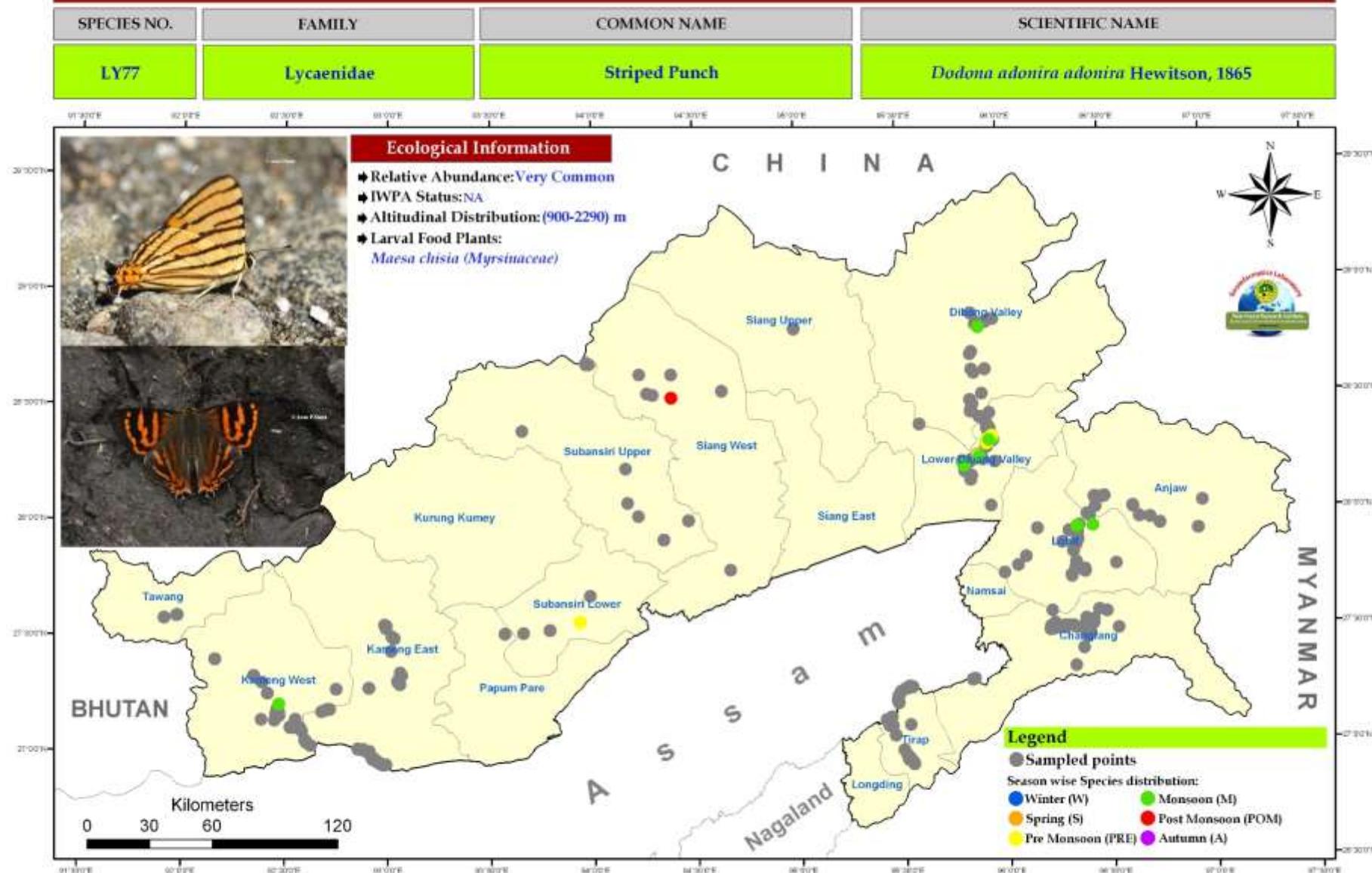
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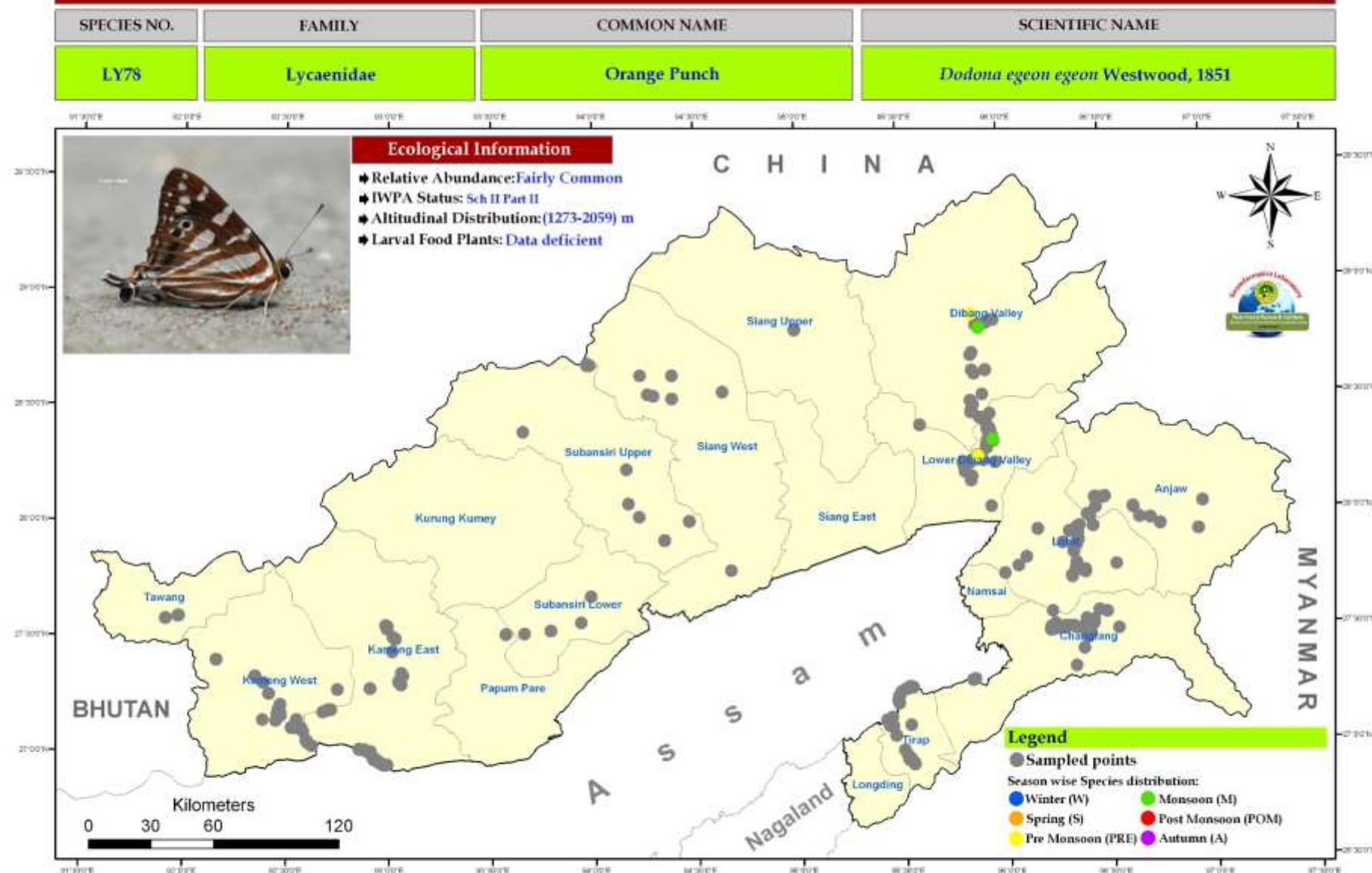
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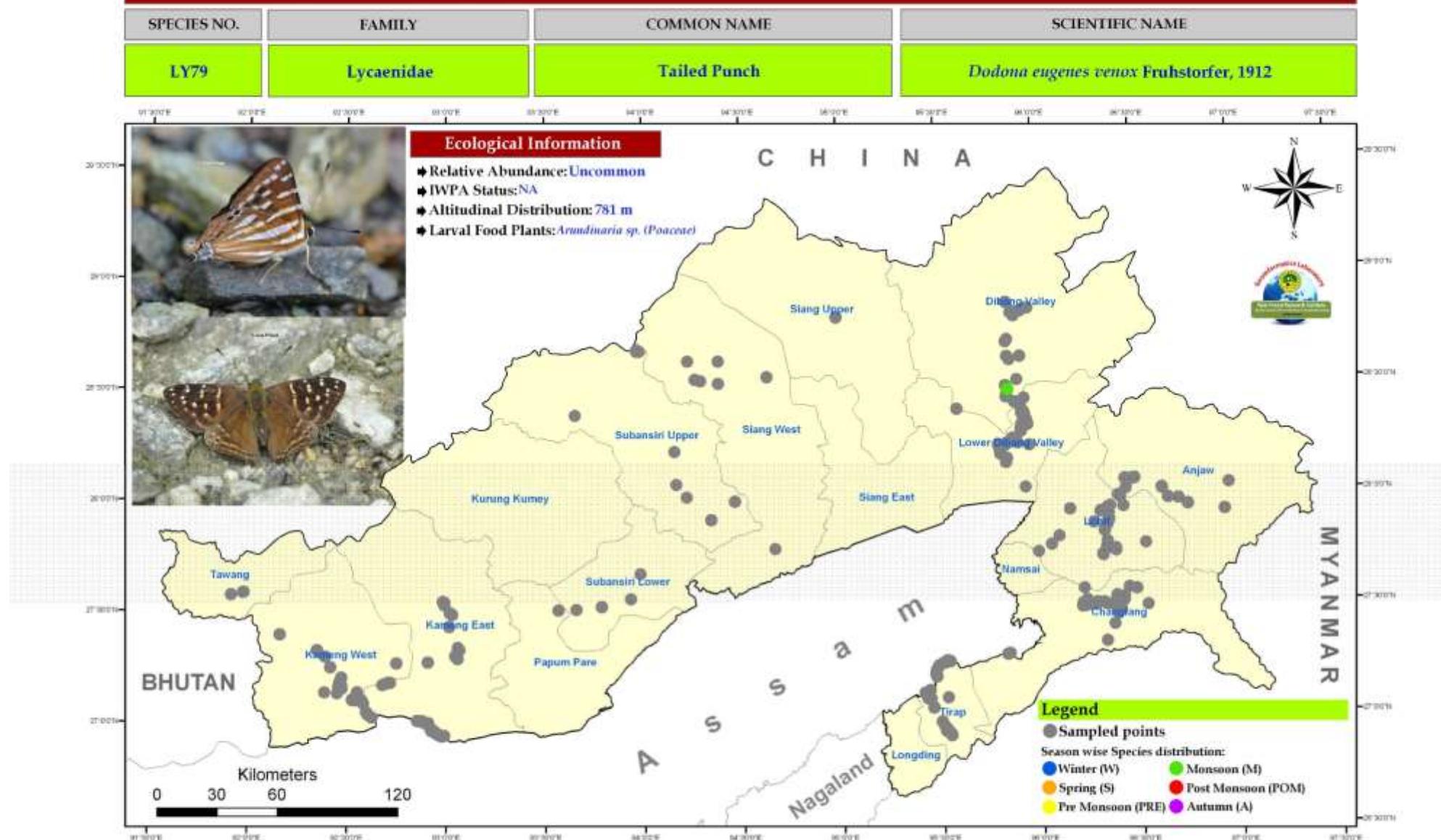
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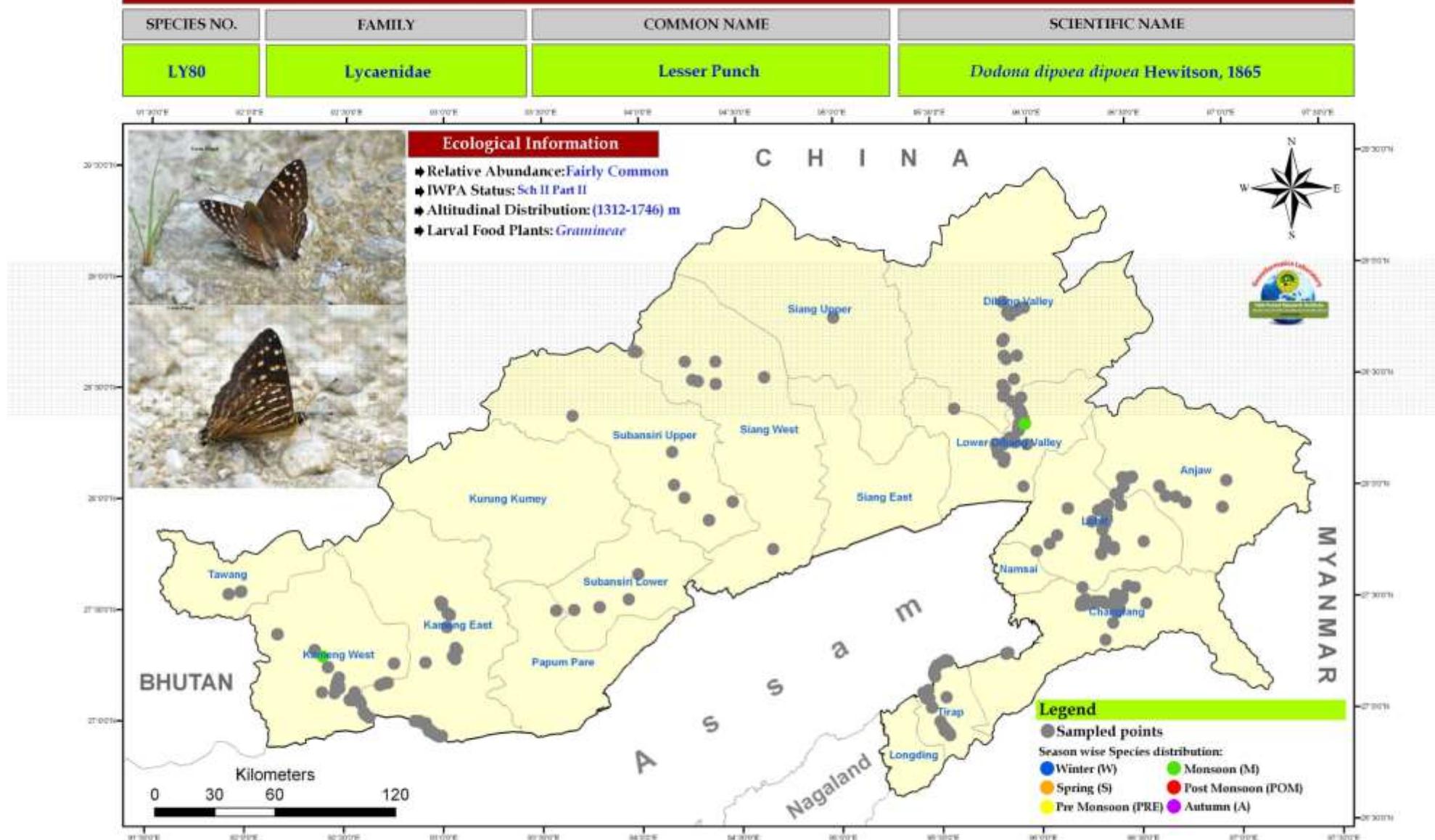
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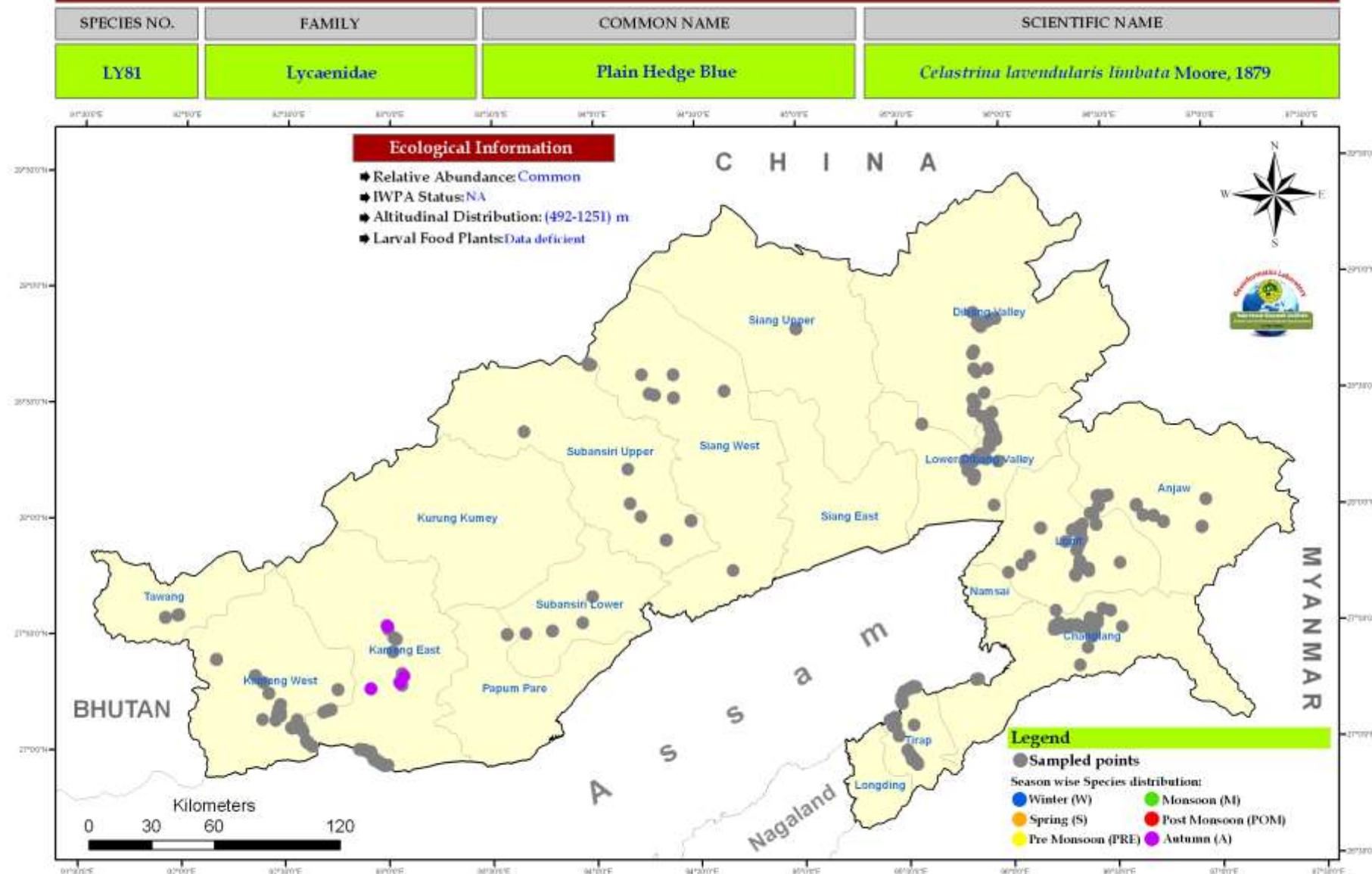
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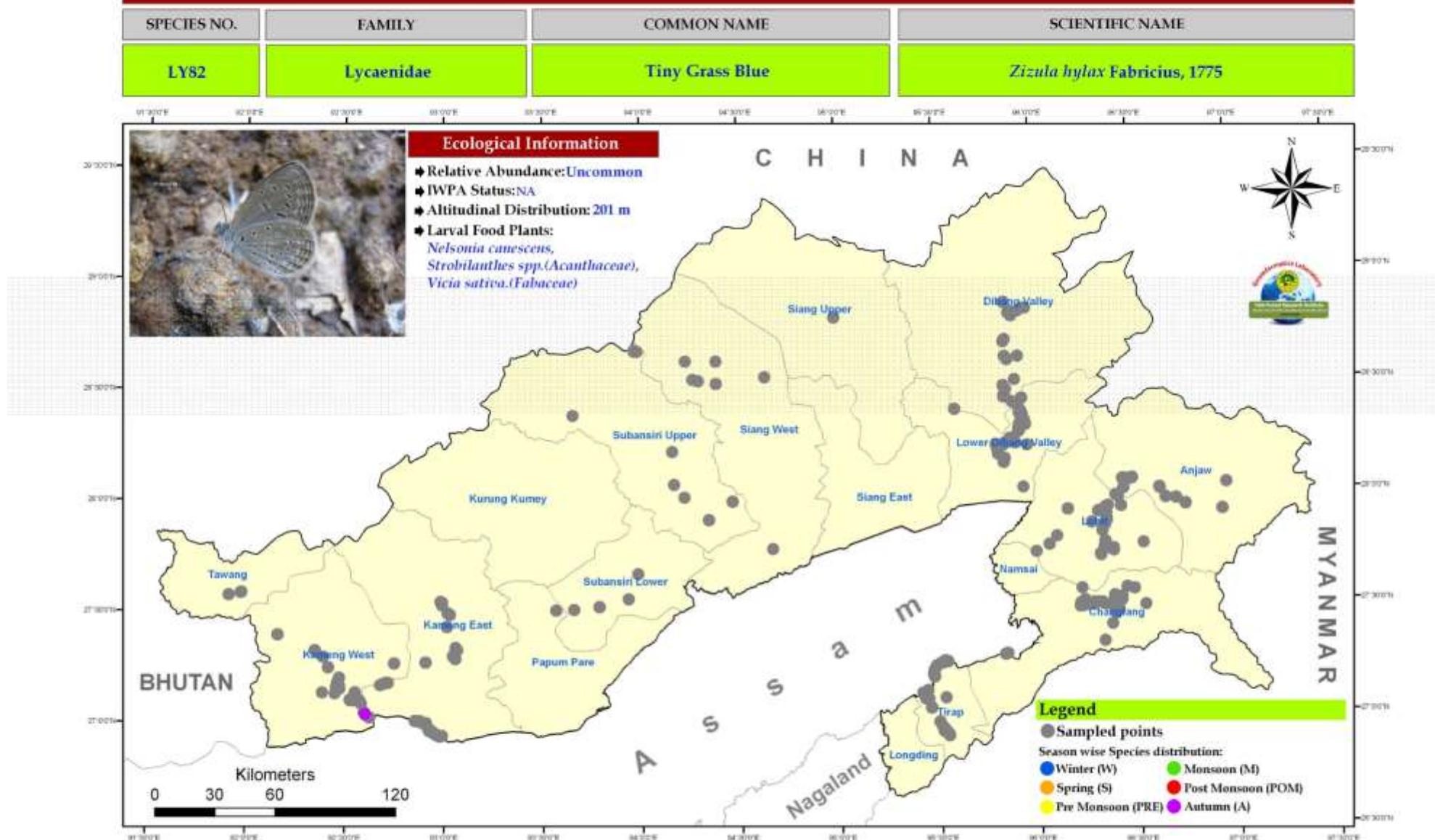
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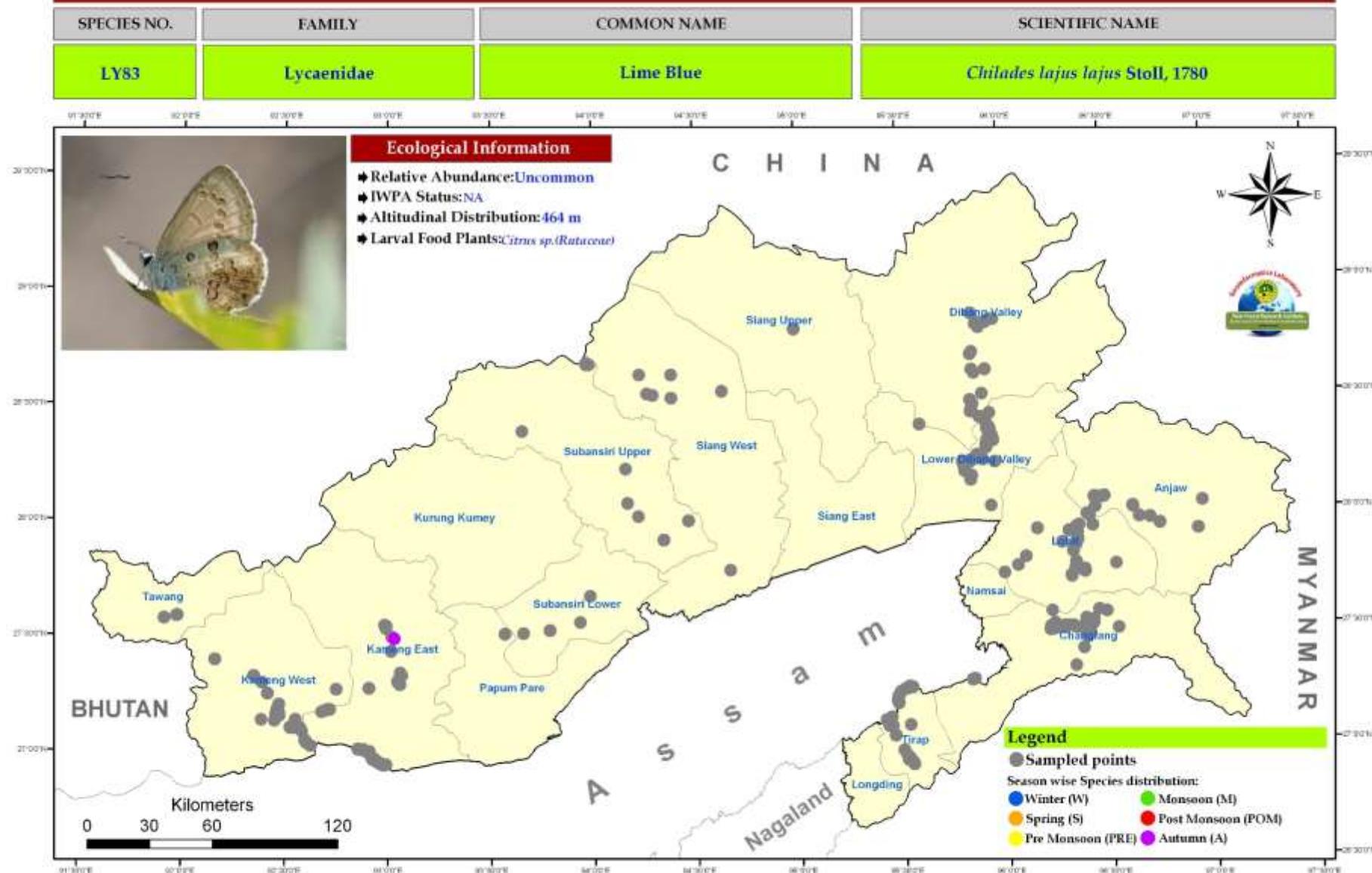
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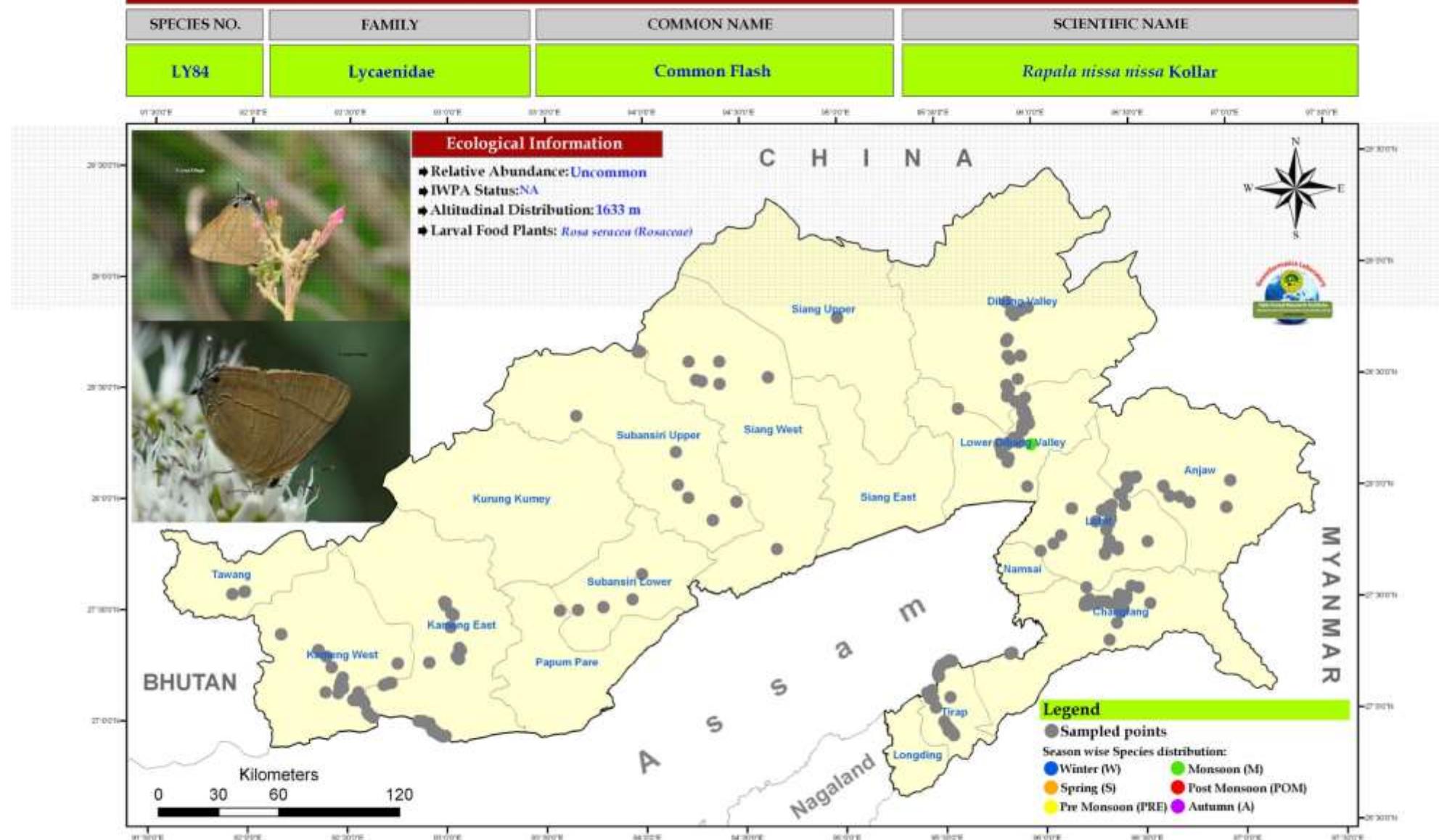
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SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA

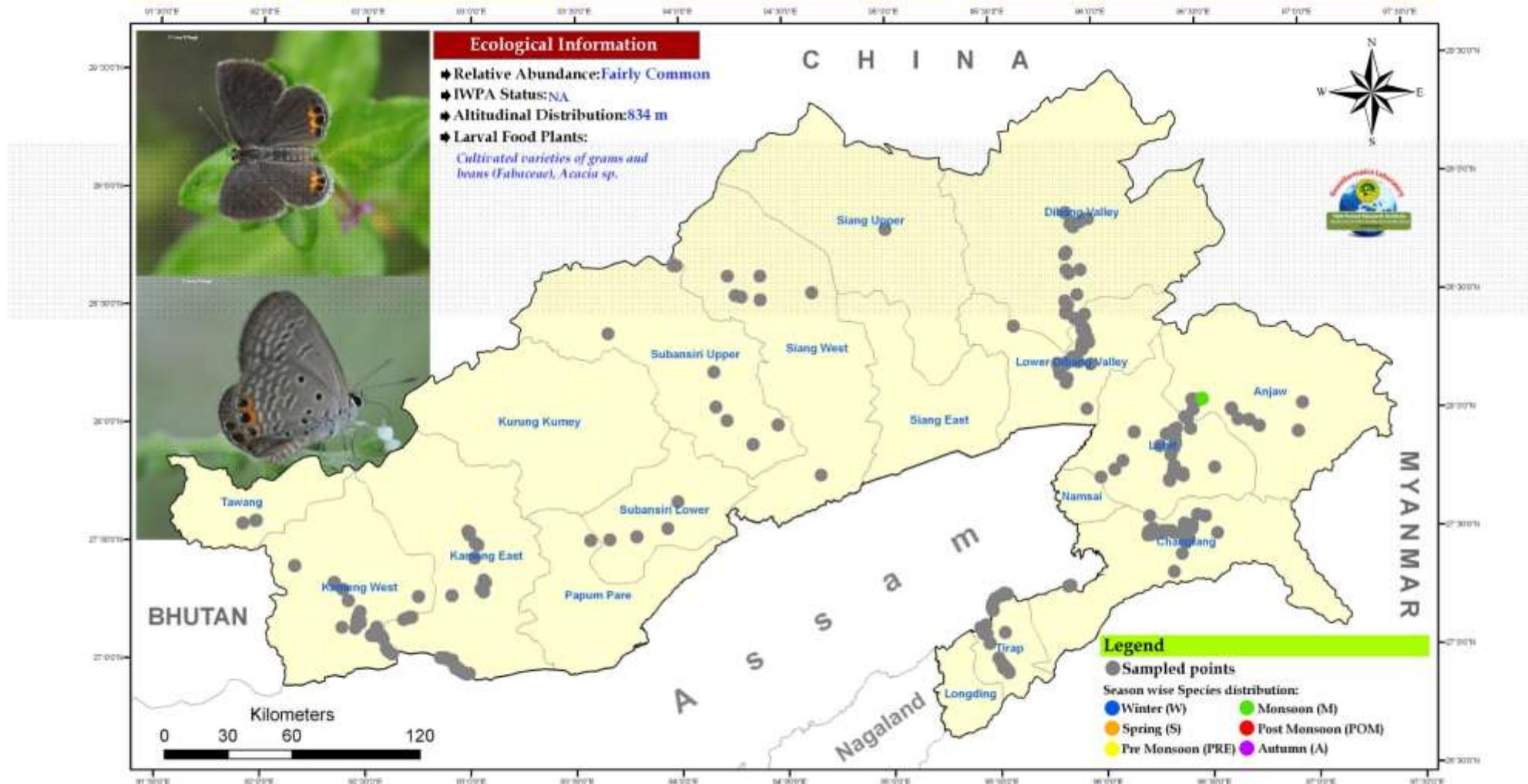


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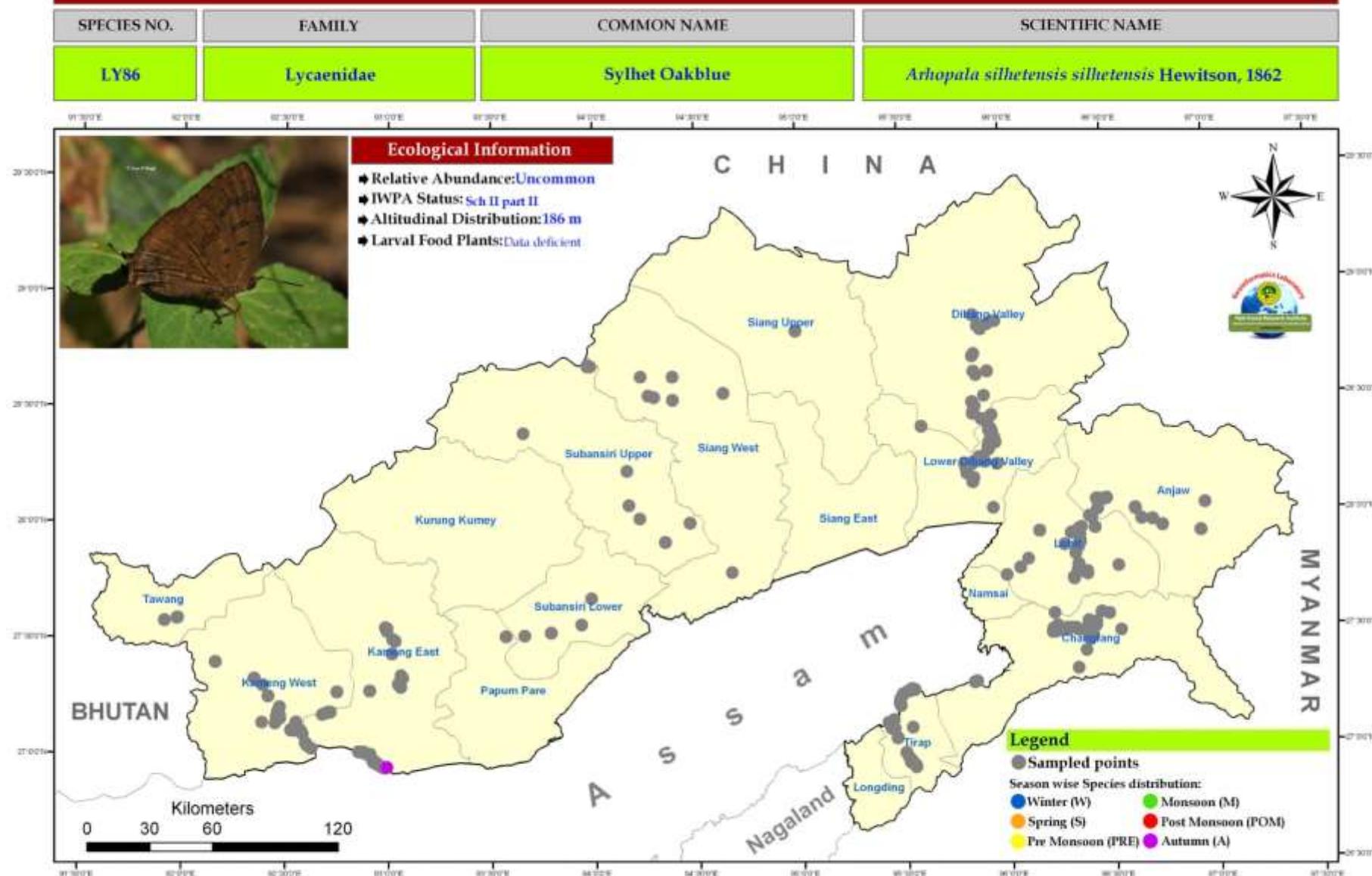


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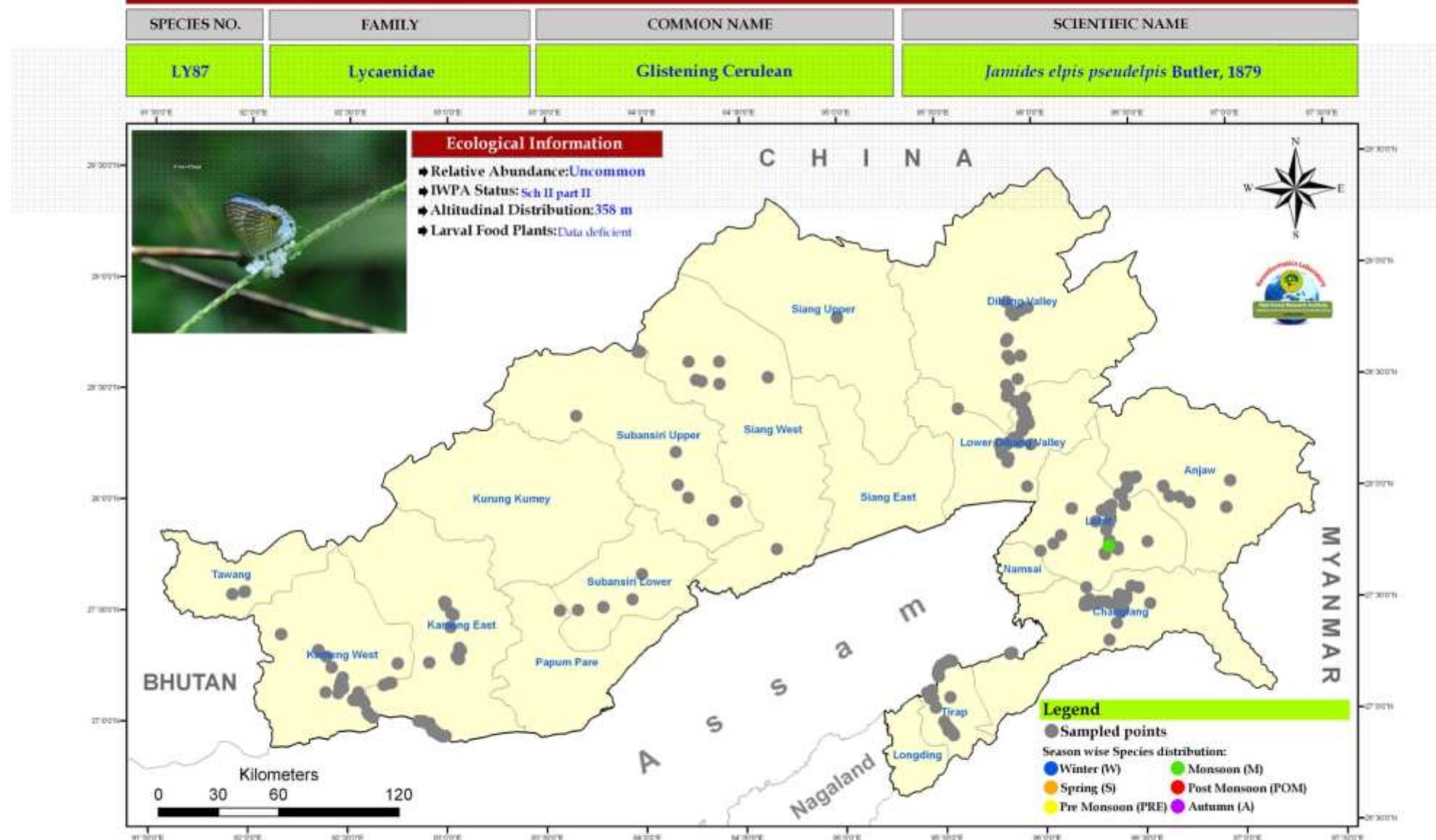
SPECIES NO.	FAMILY	COMMON NAME	SCIENTIFIC NAME
LY85	Lycaenidae	Plains Cupid	<i>Chilades pandava pandava</i> Horsfield, 1829



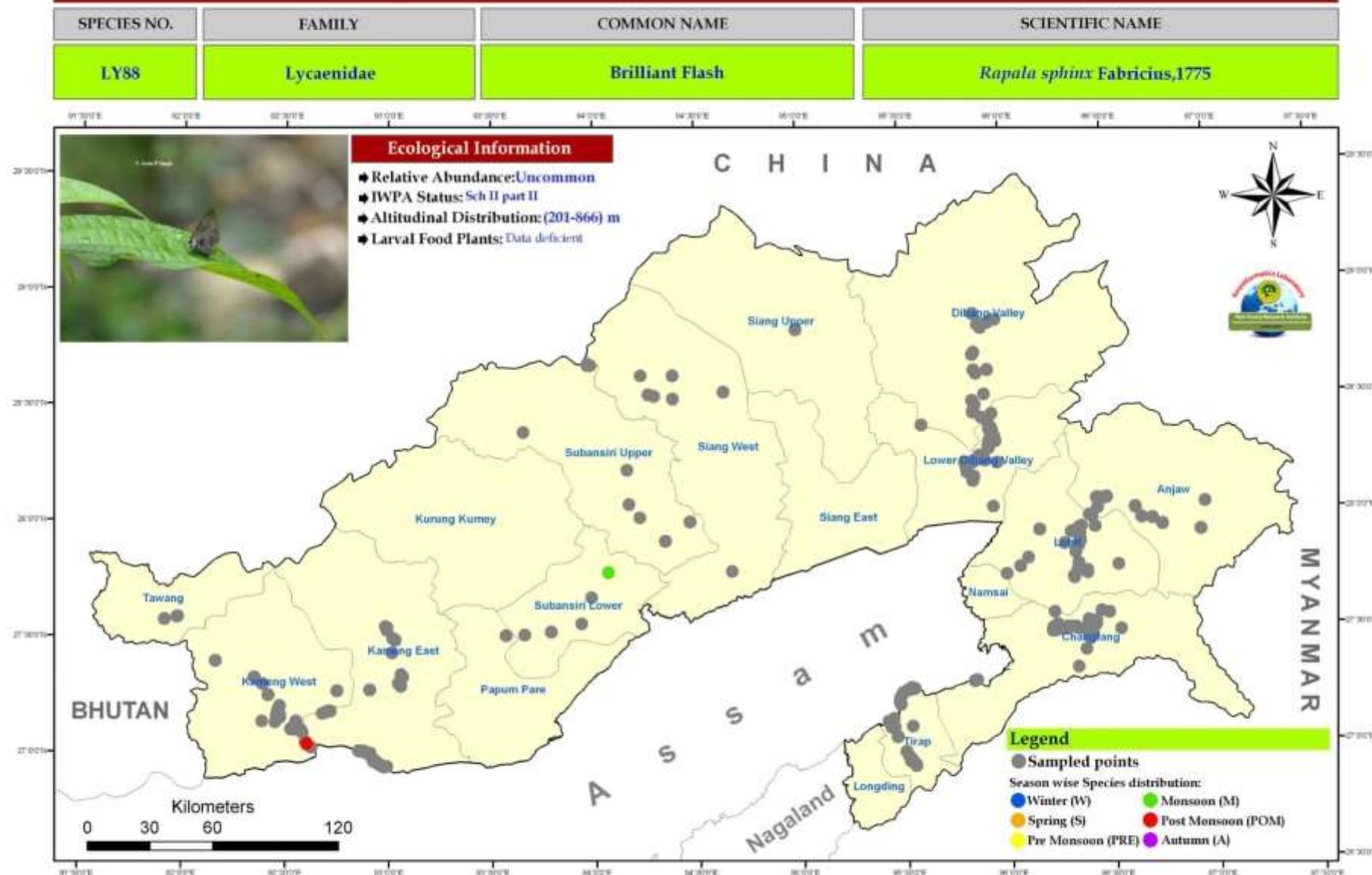
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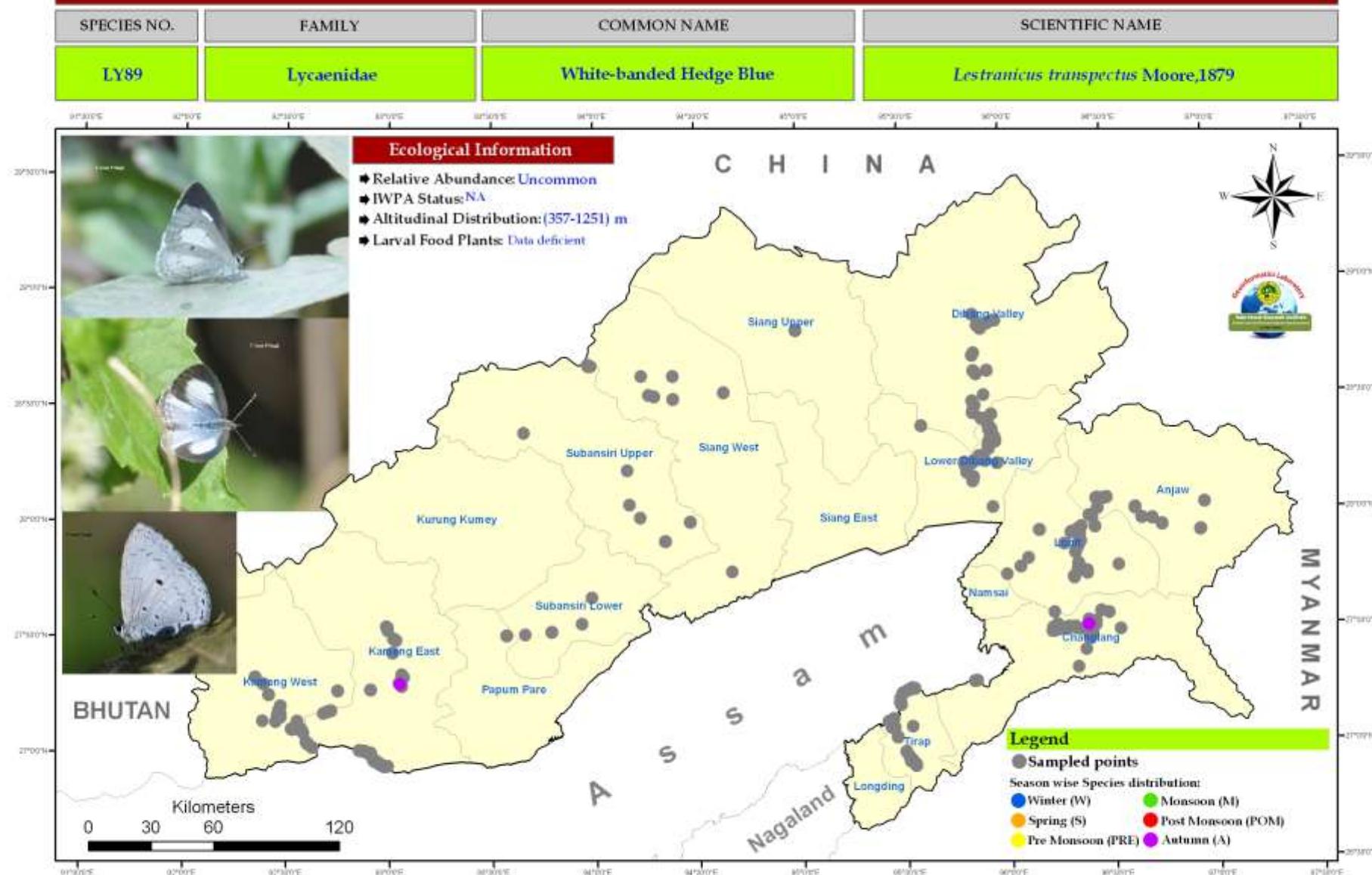
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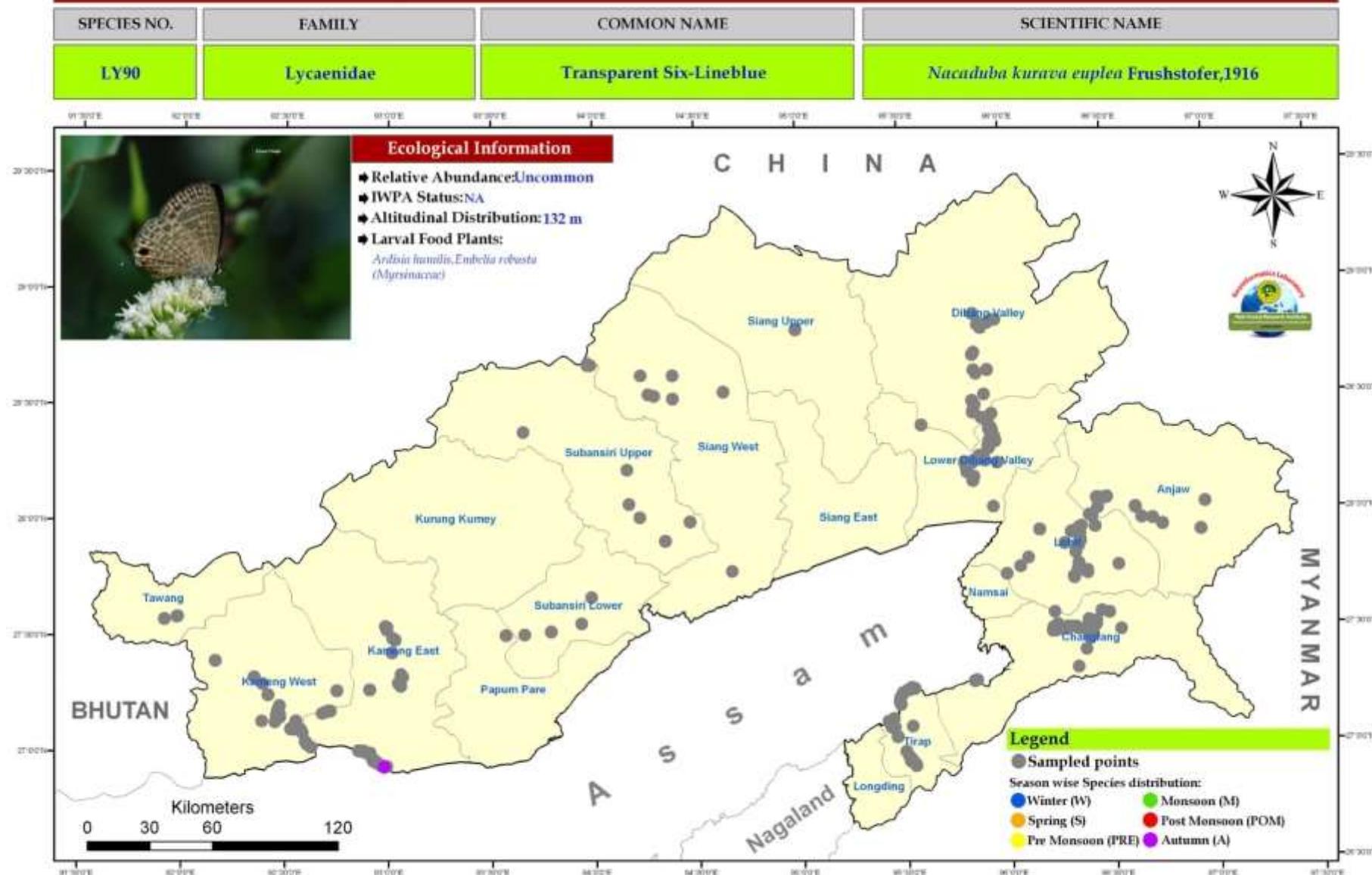
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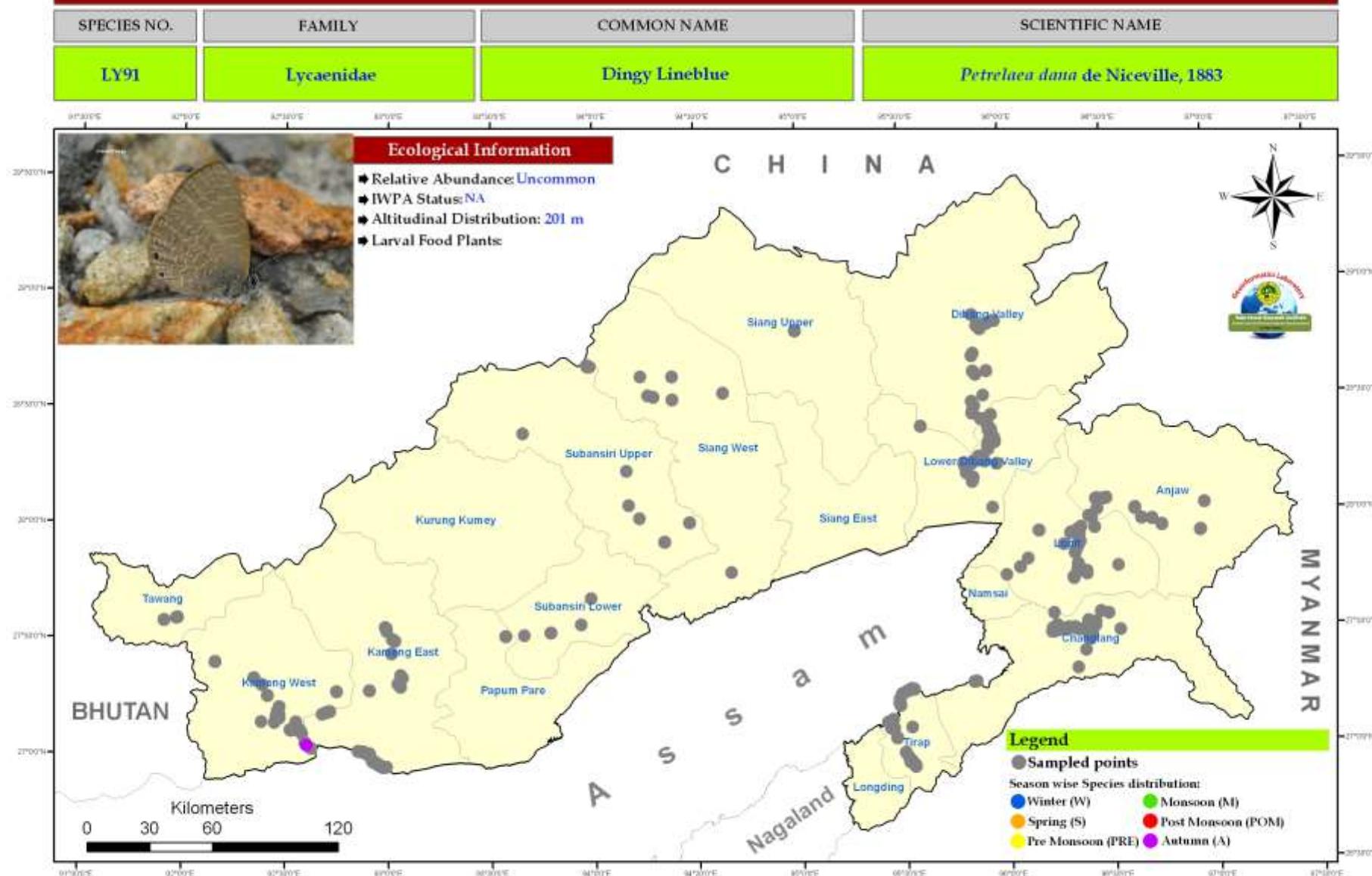
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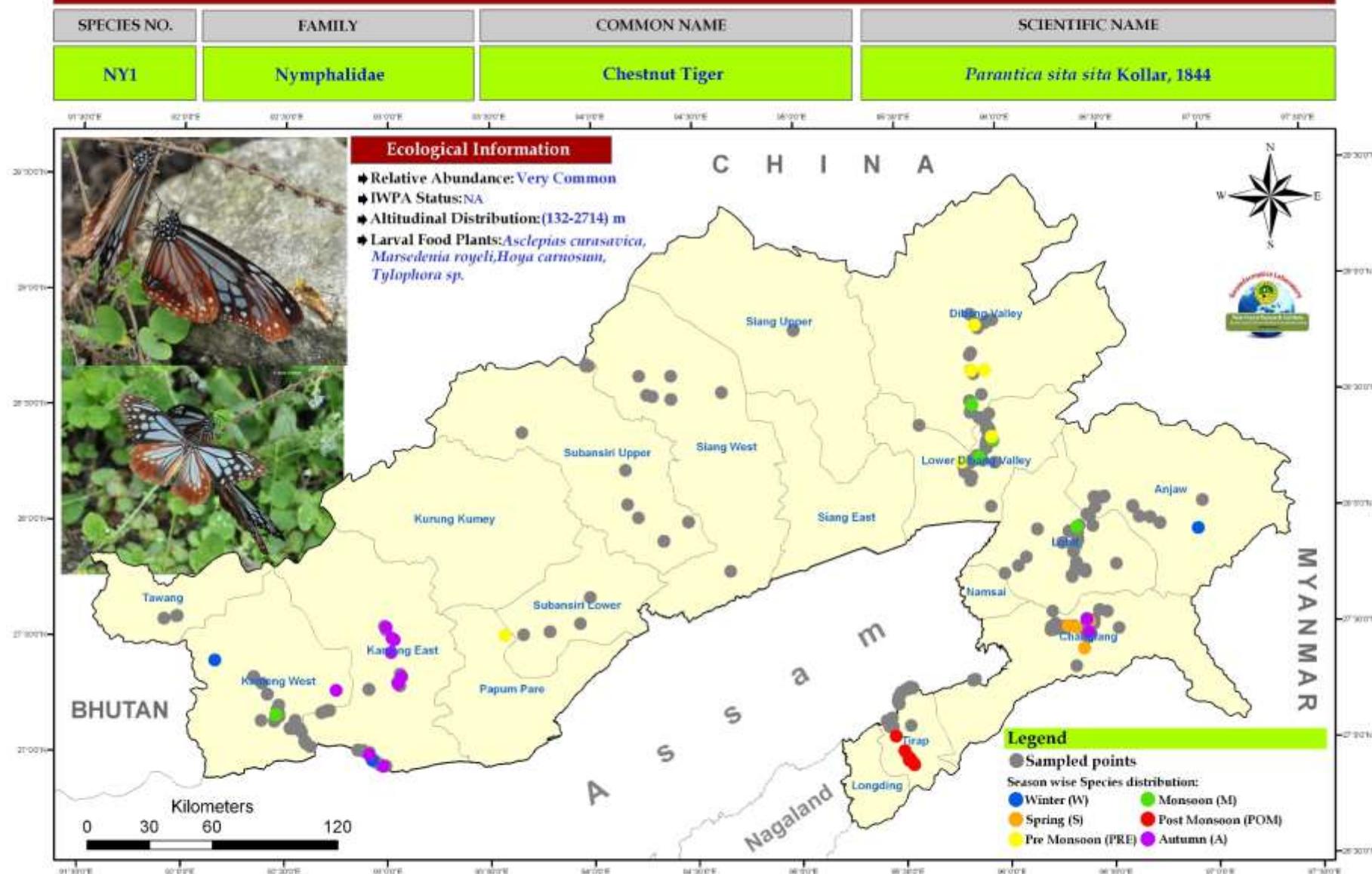
Butterfly Distribution Maps

NYMPHALIDAE (Brush-footed Butterflies)

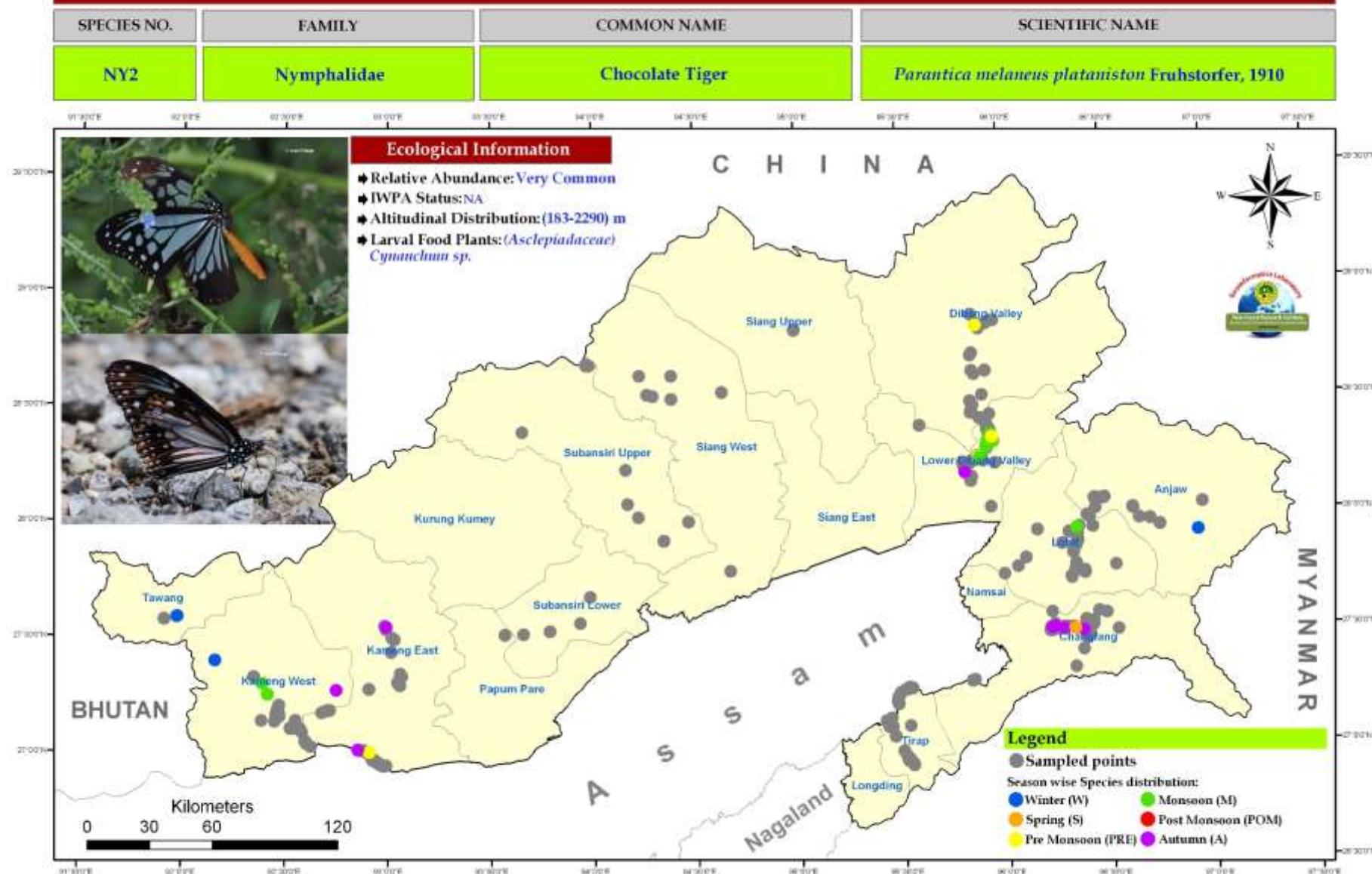
NY:1-175



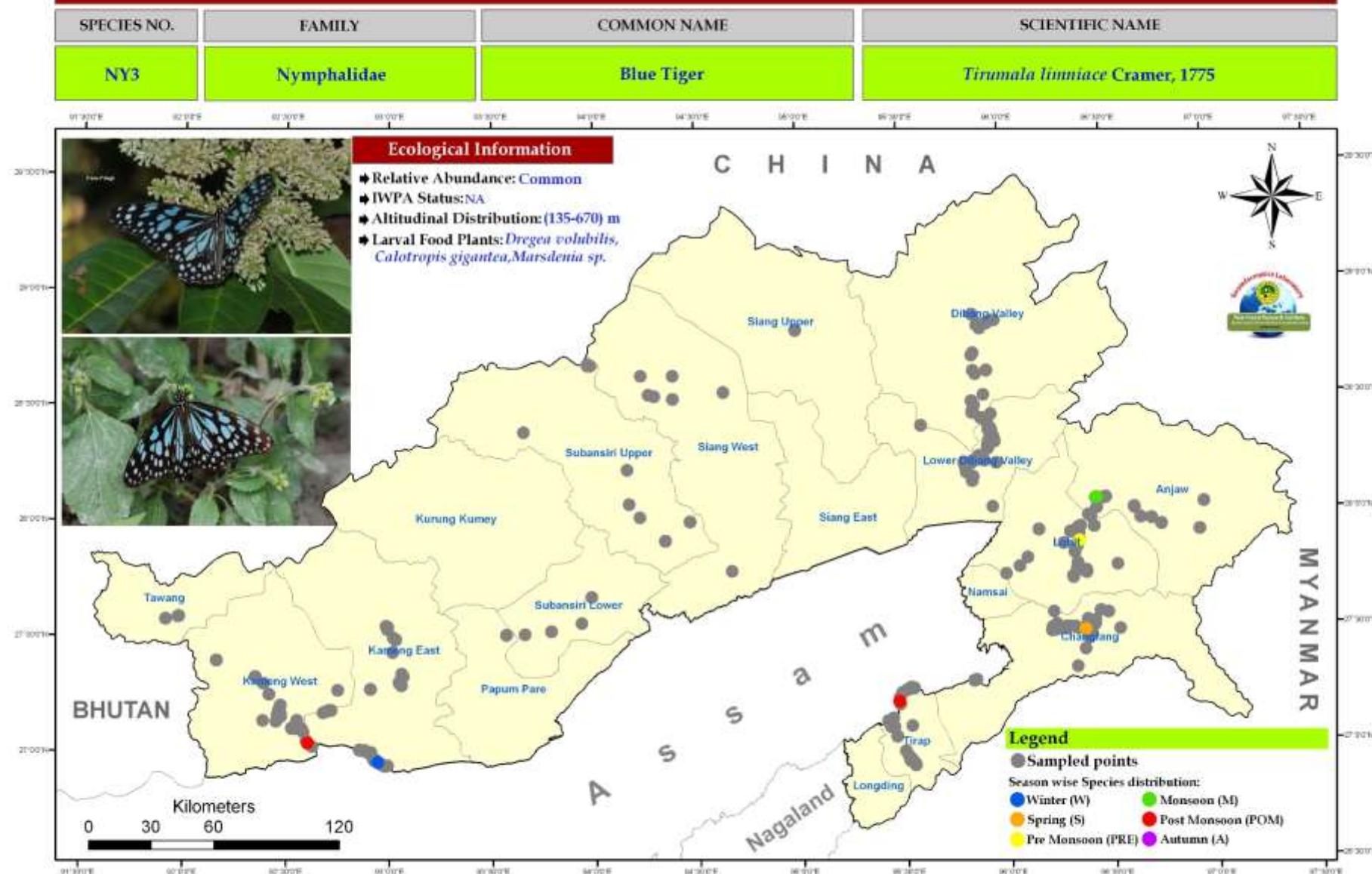
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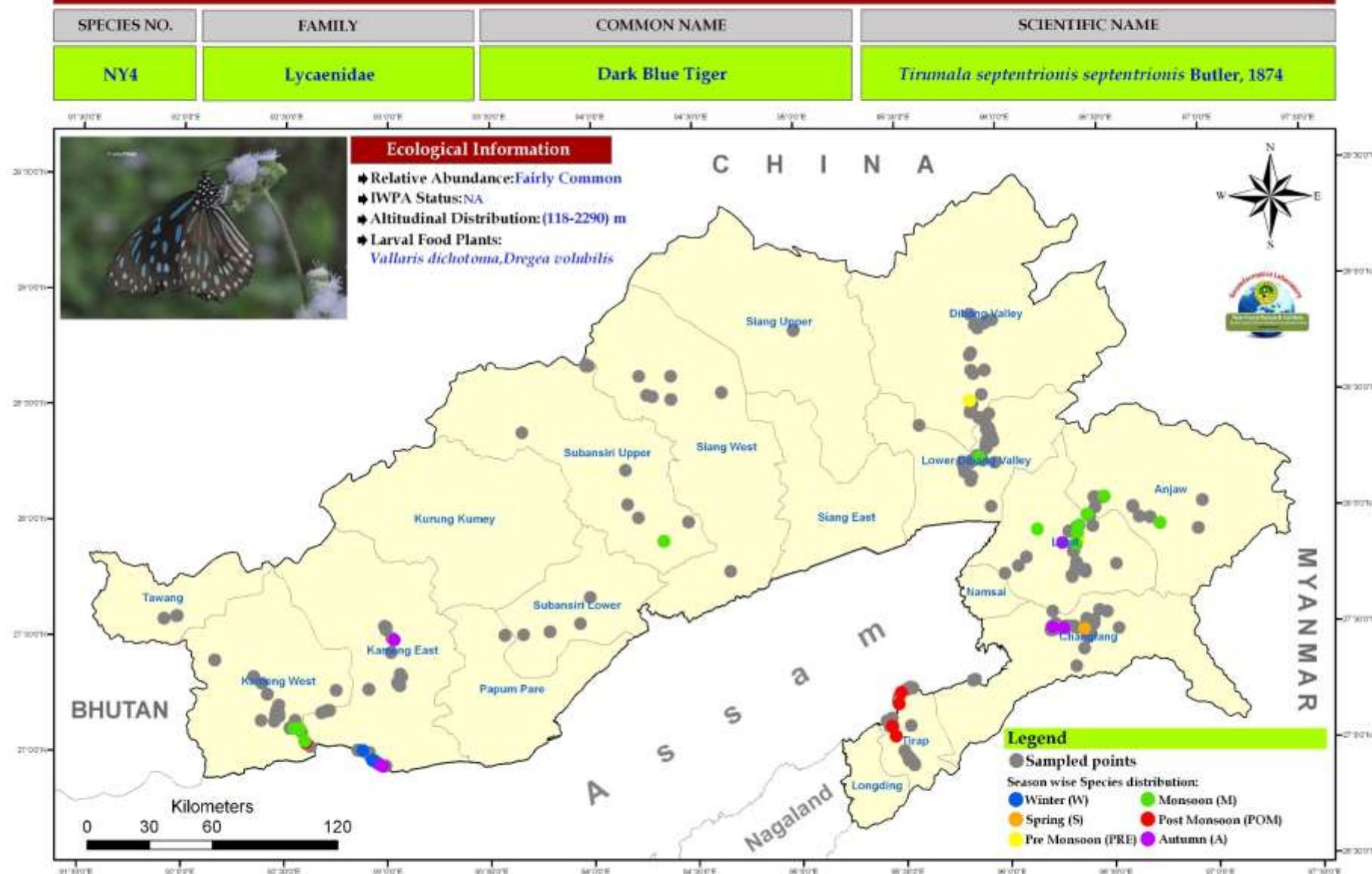
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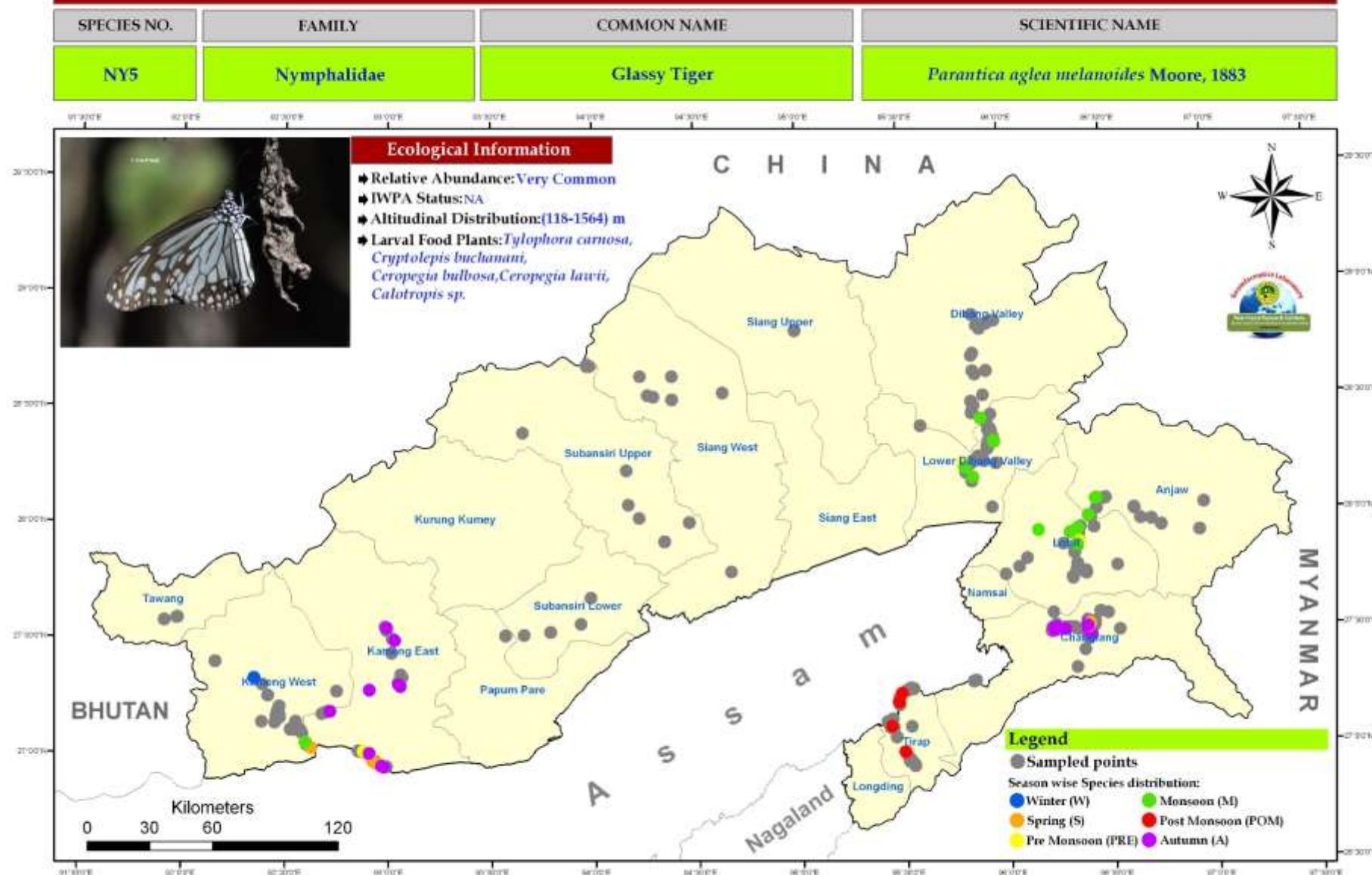
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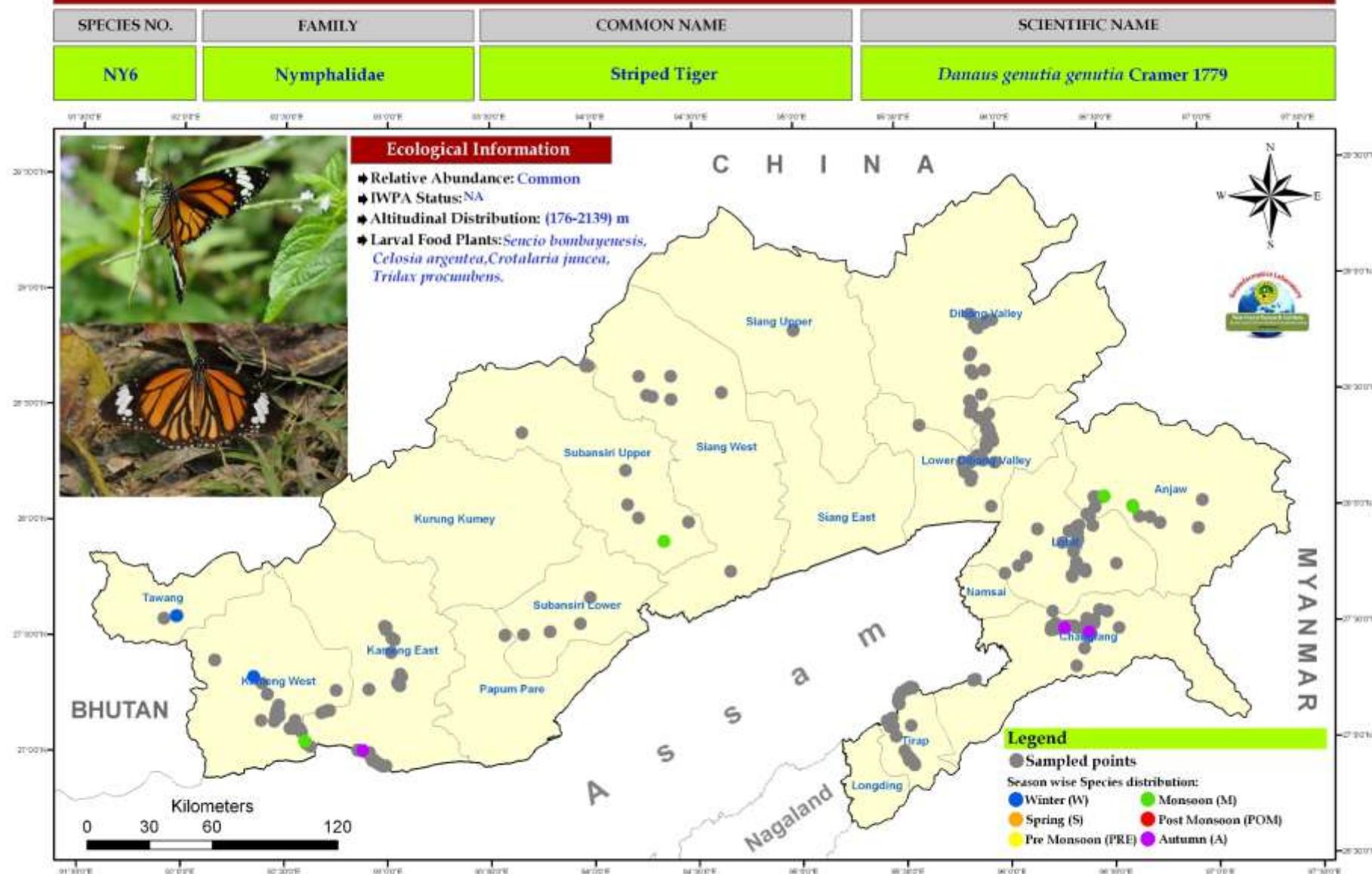
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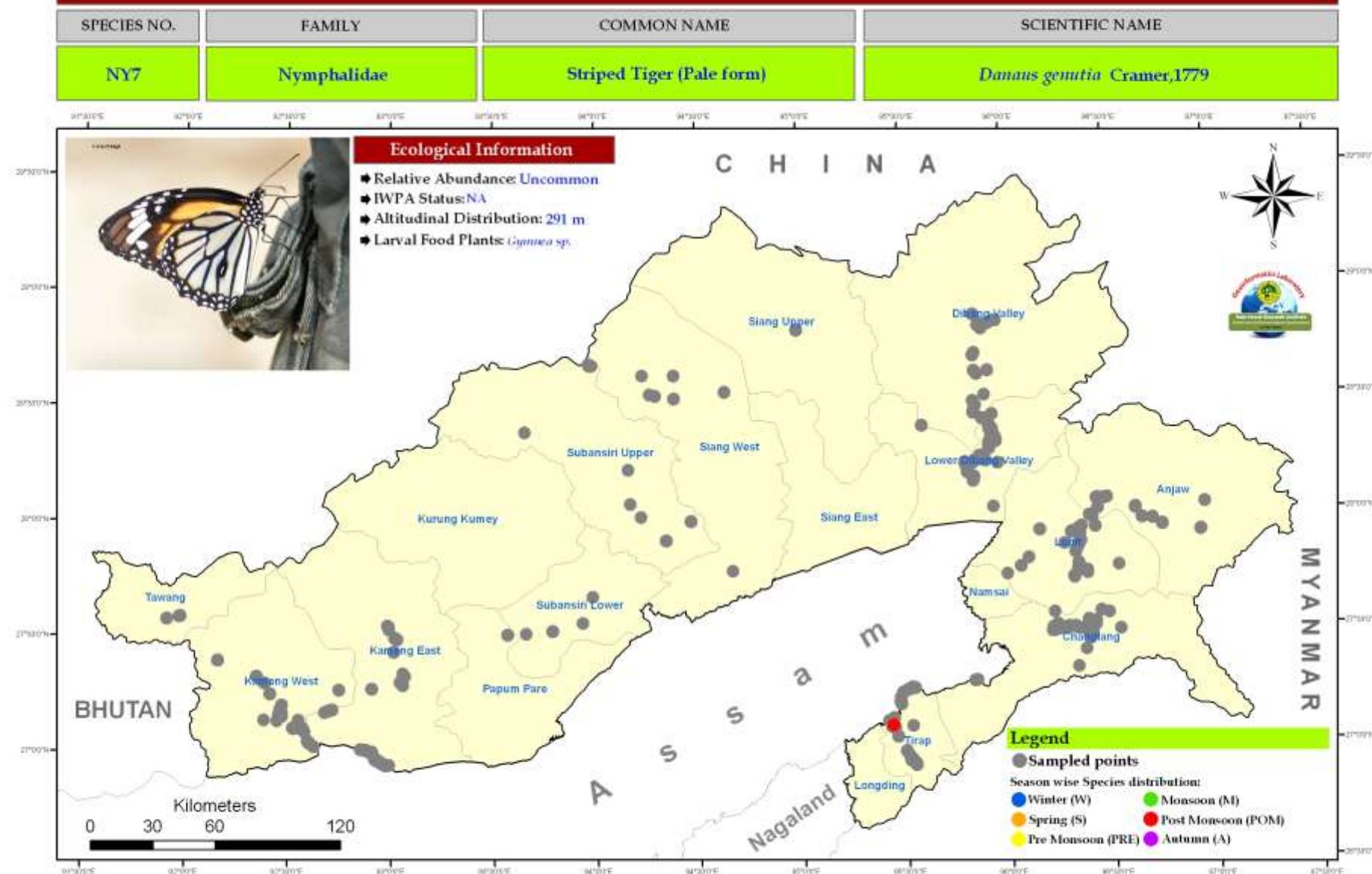
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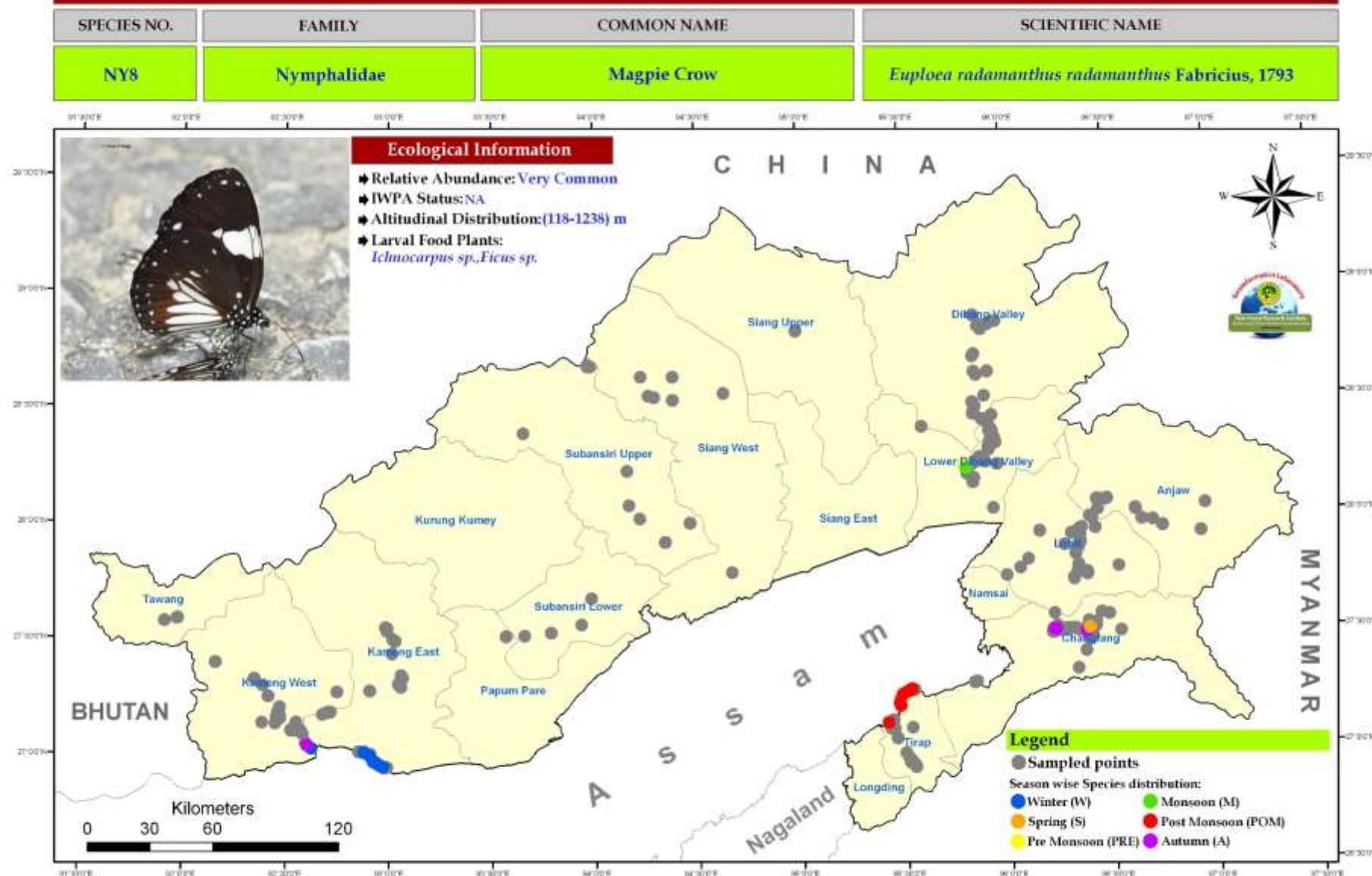
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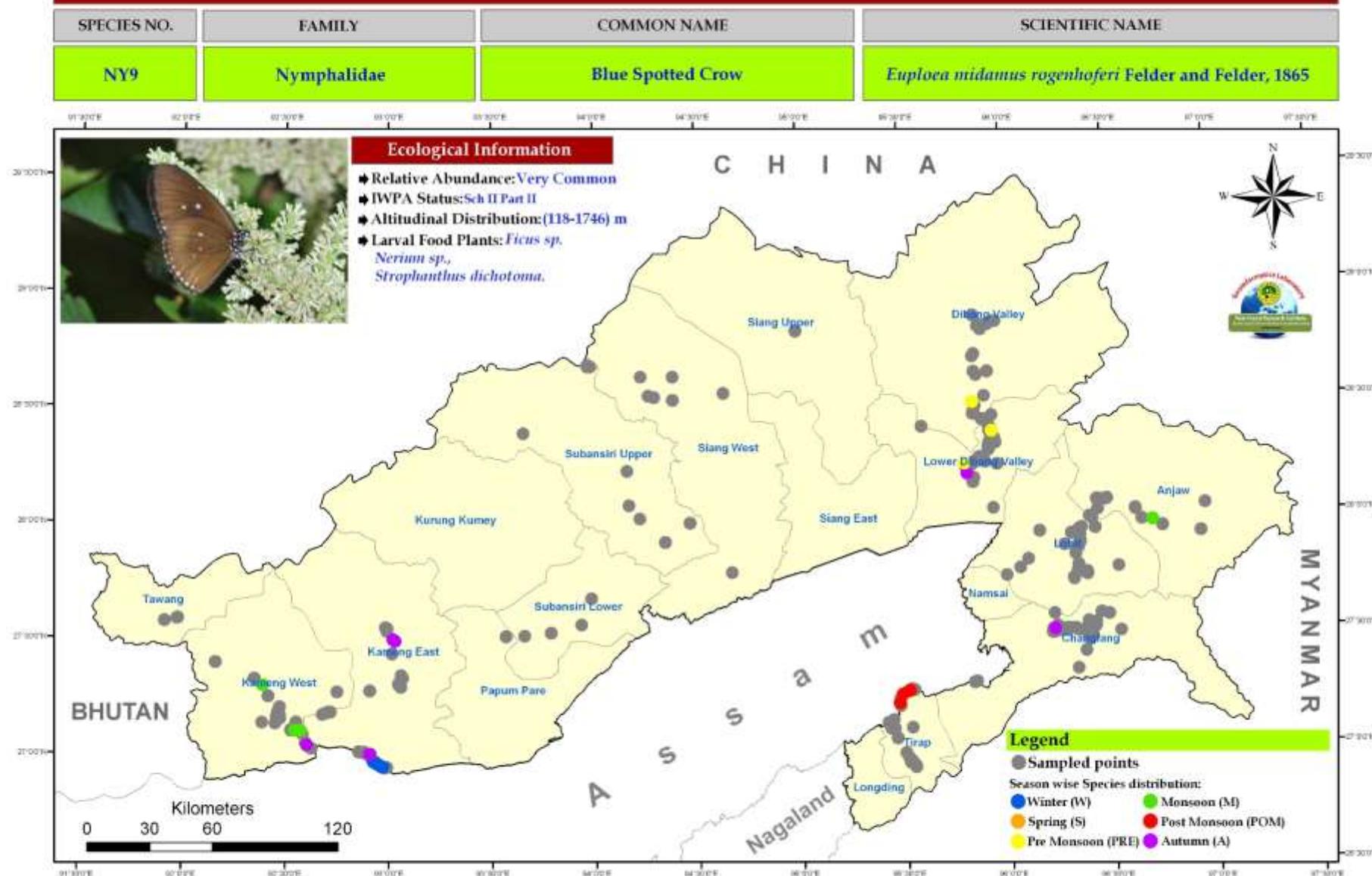
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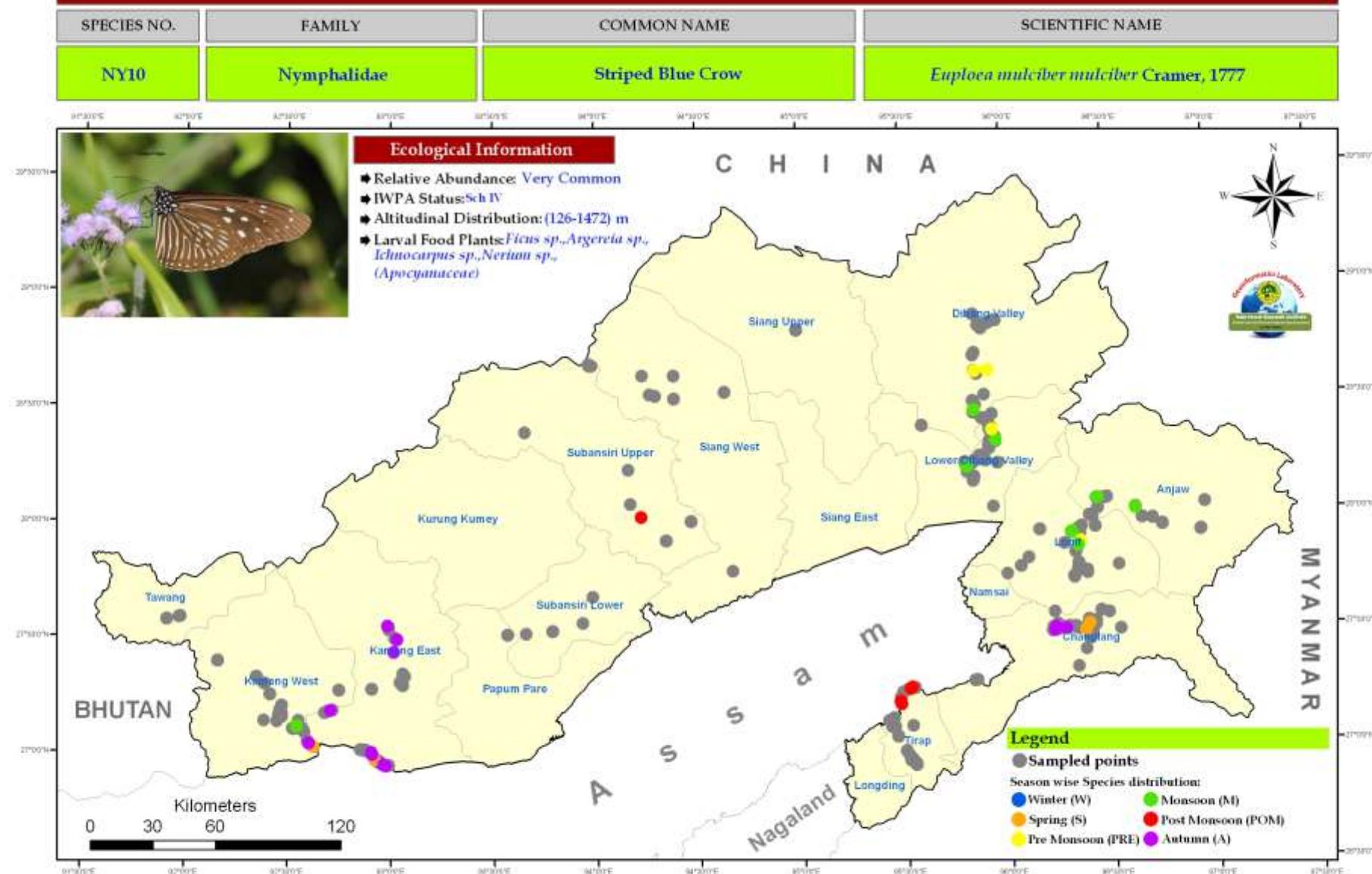
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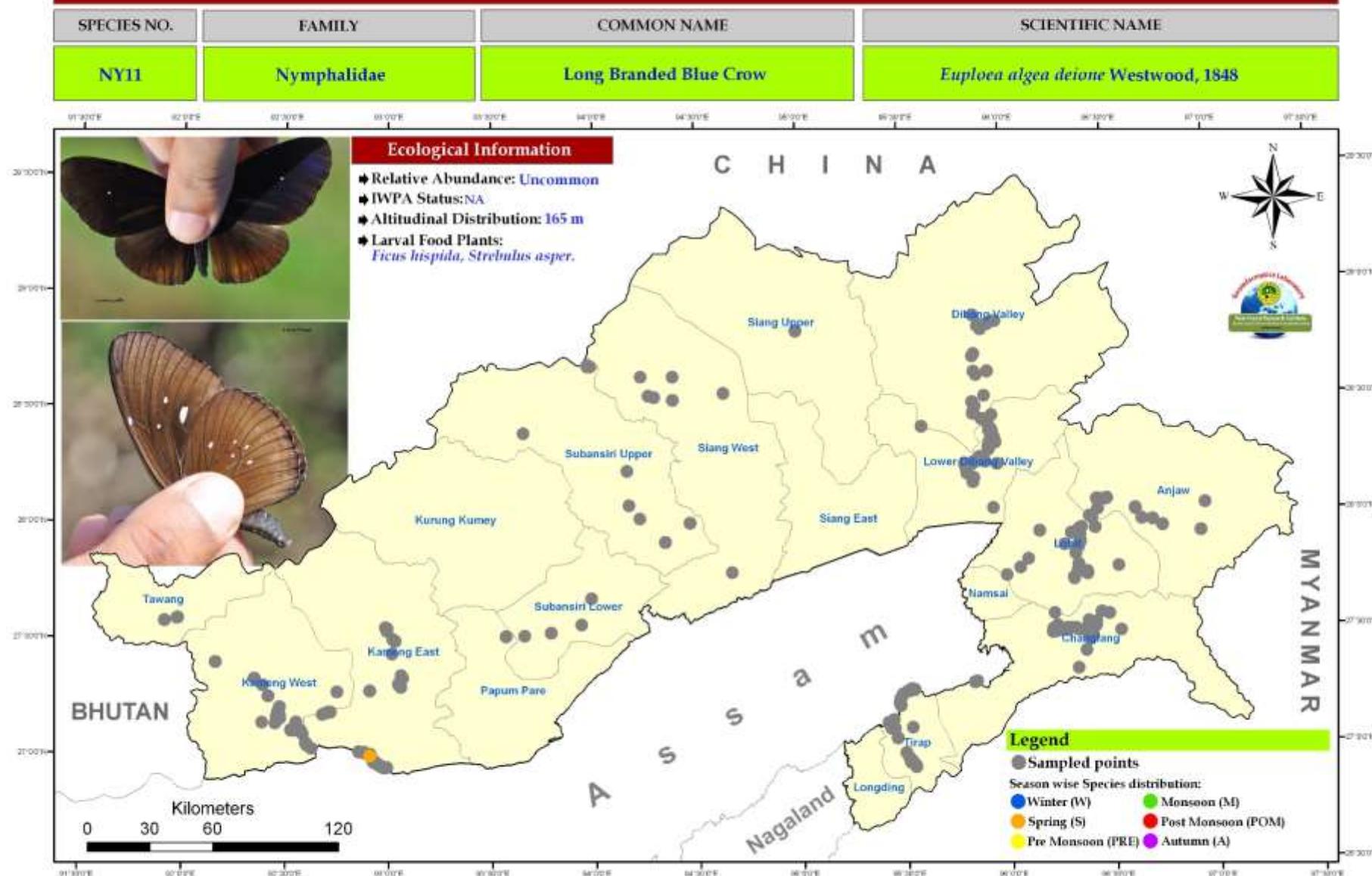
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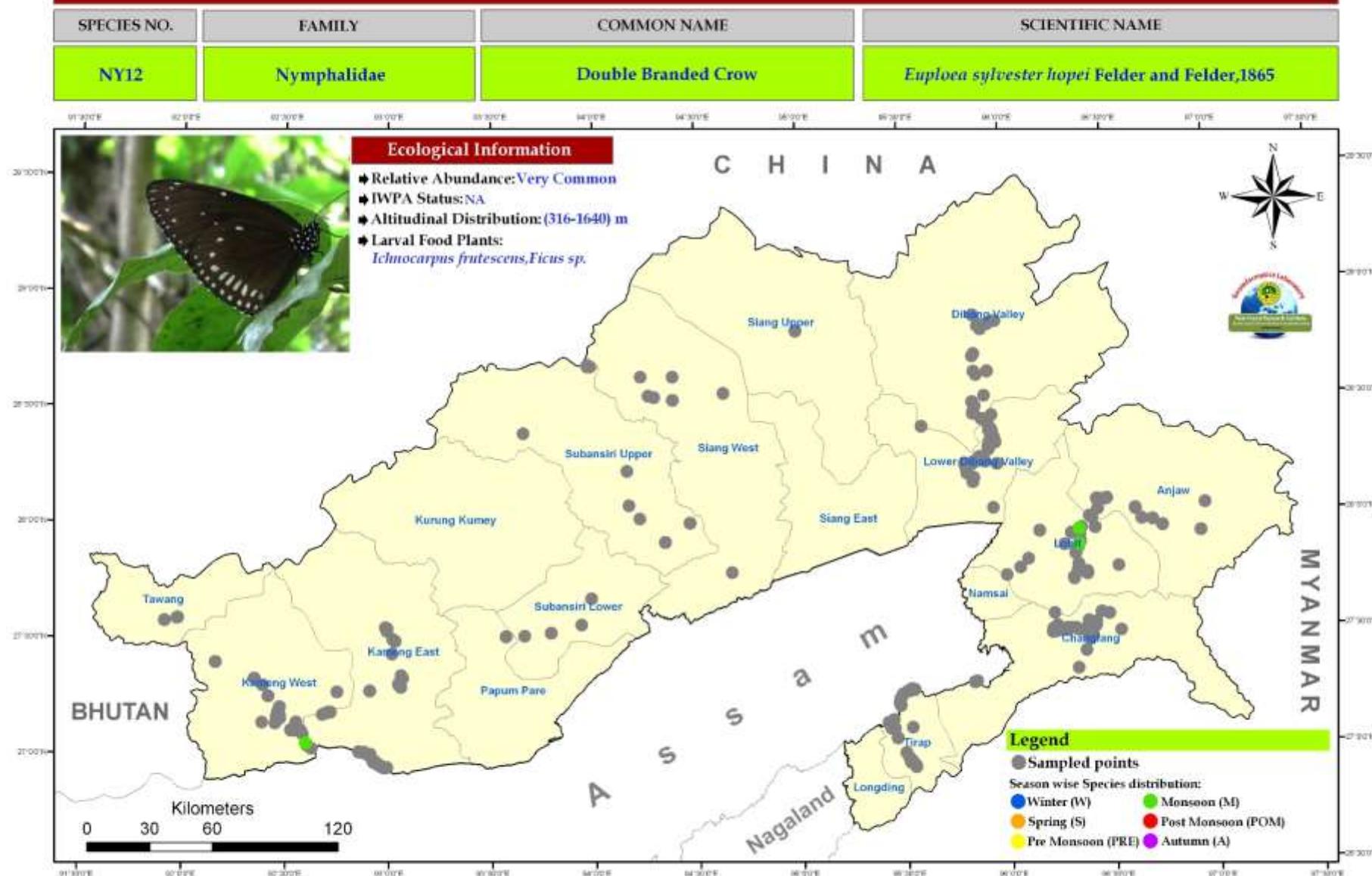
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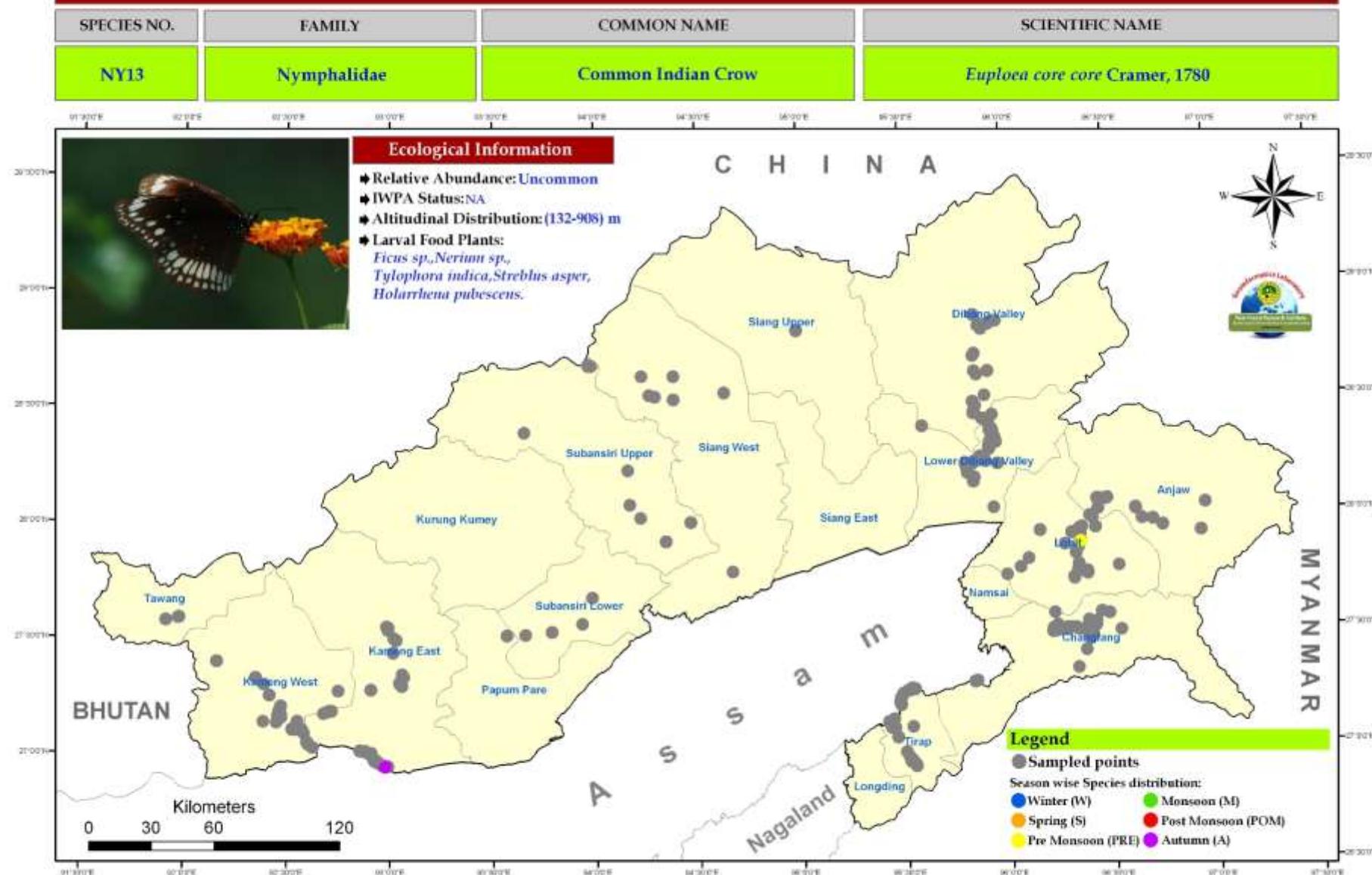
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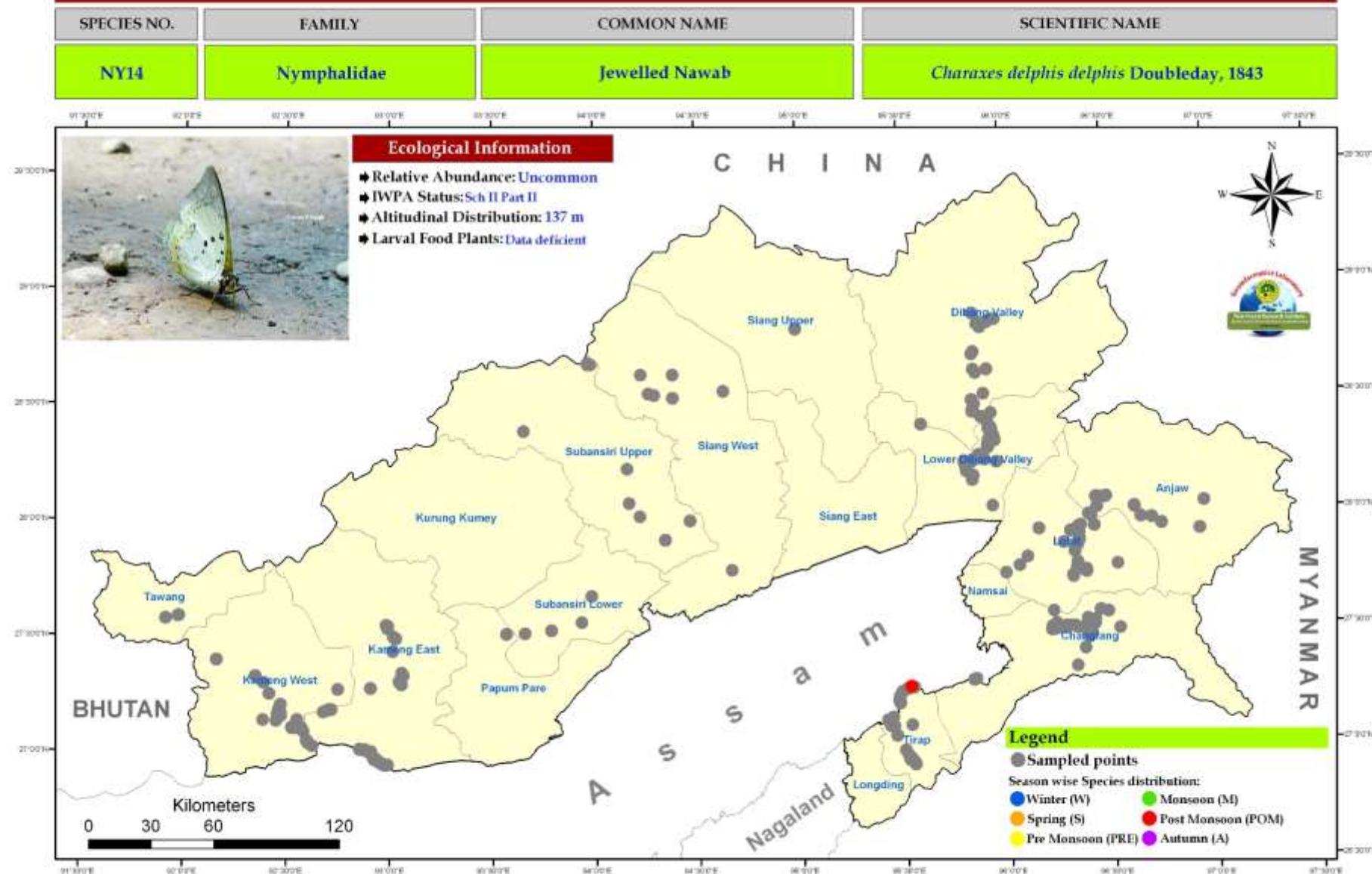
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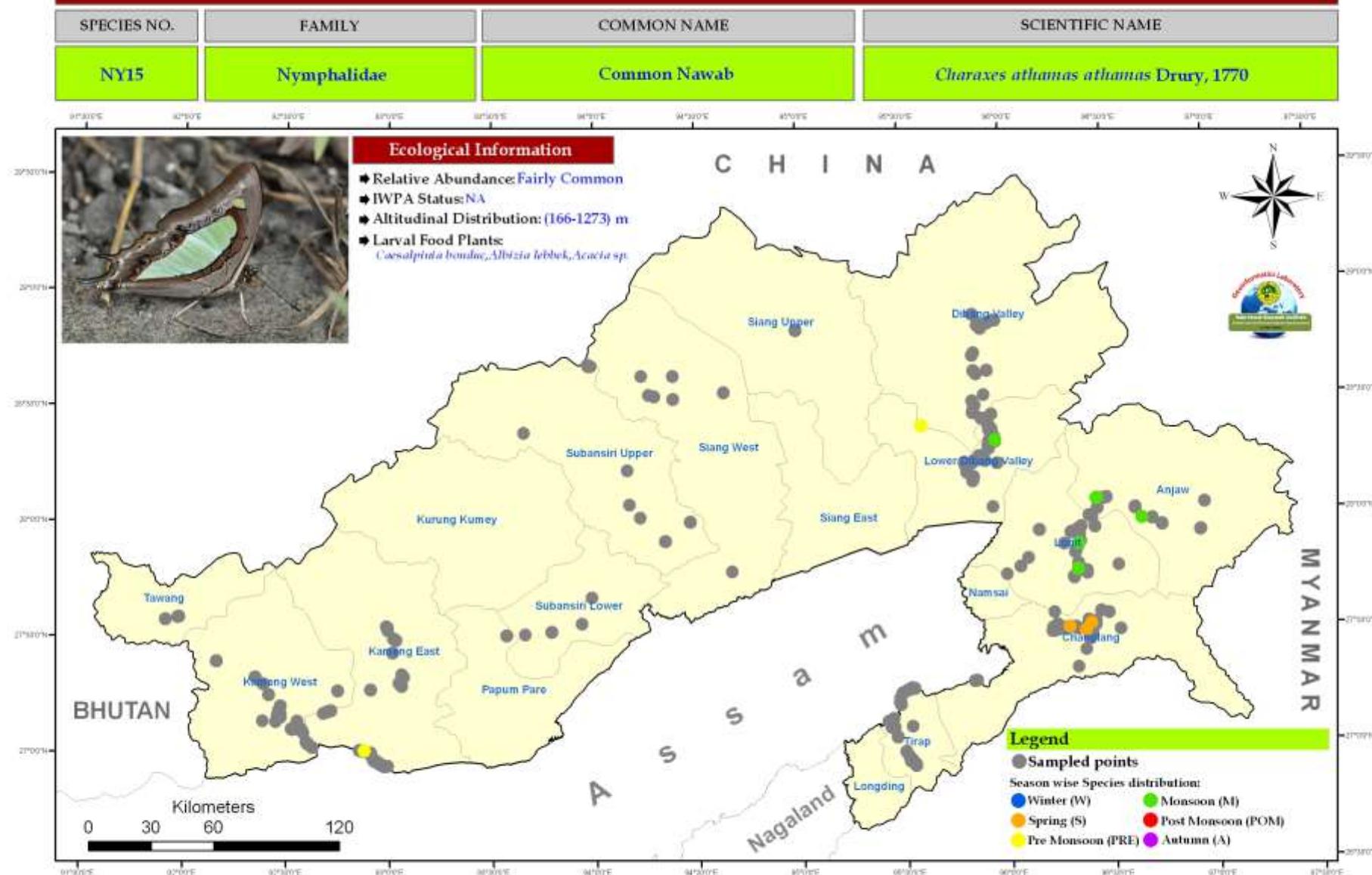
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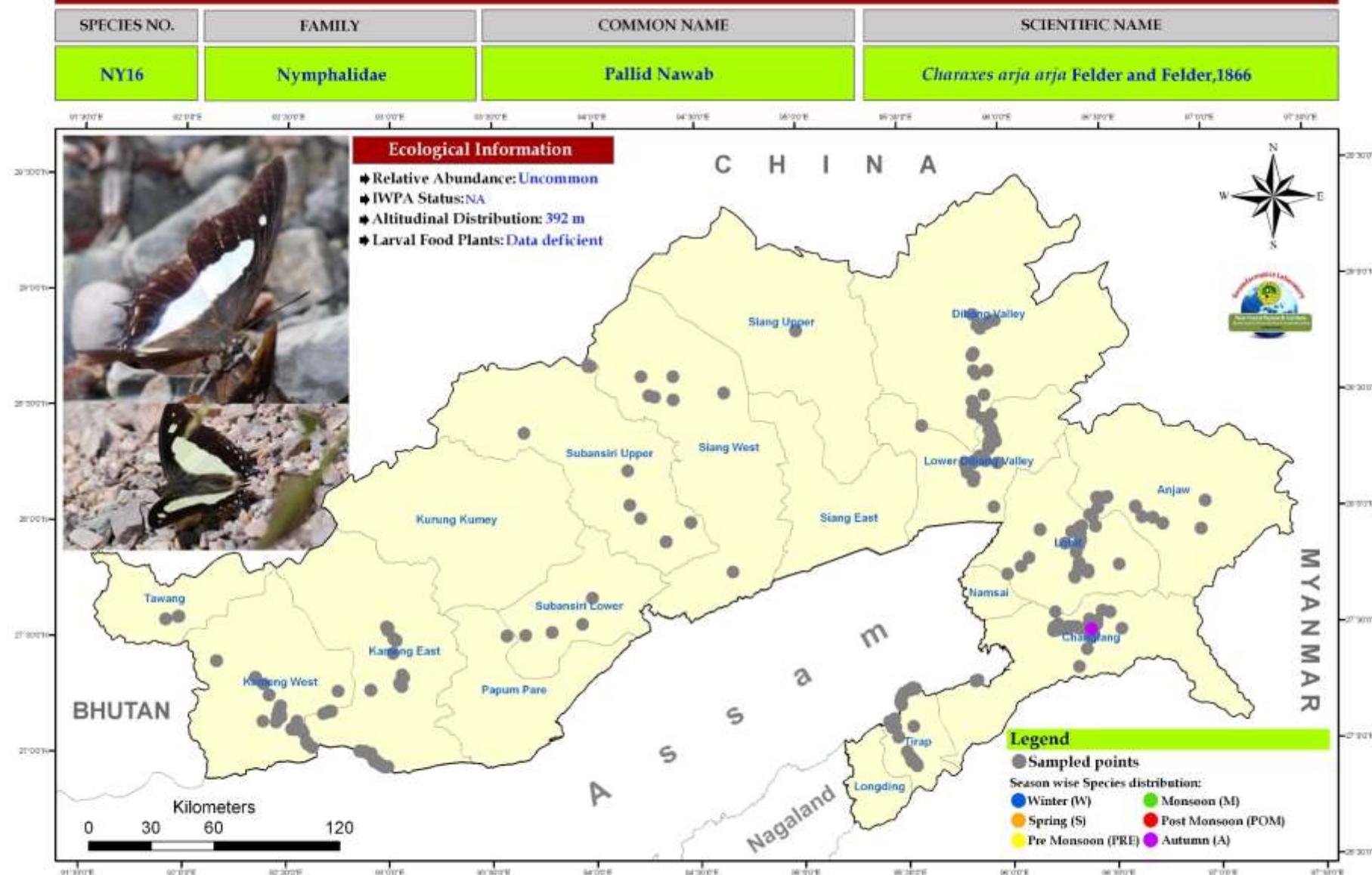
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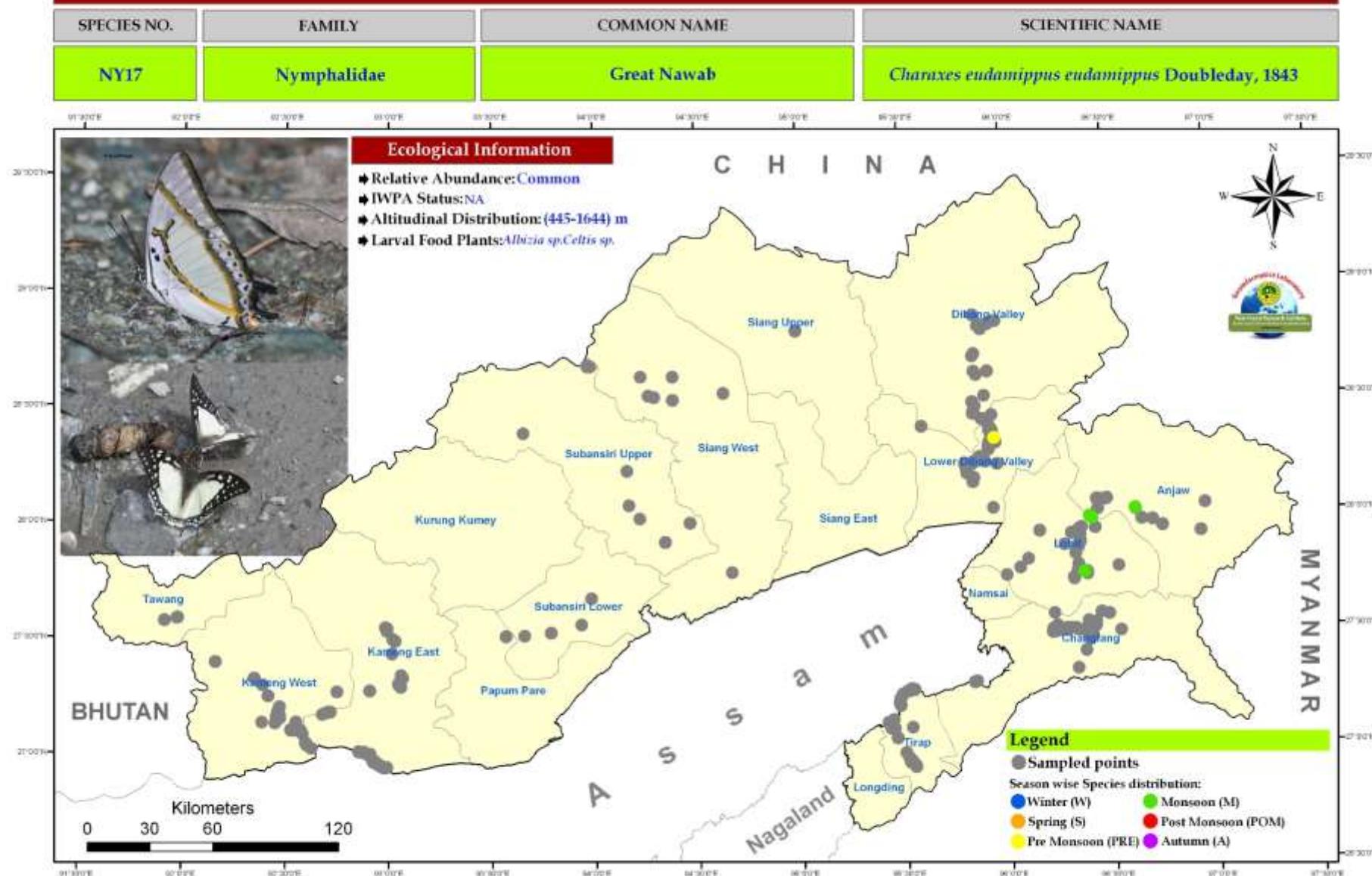
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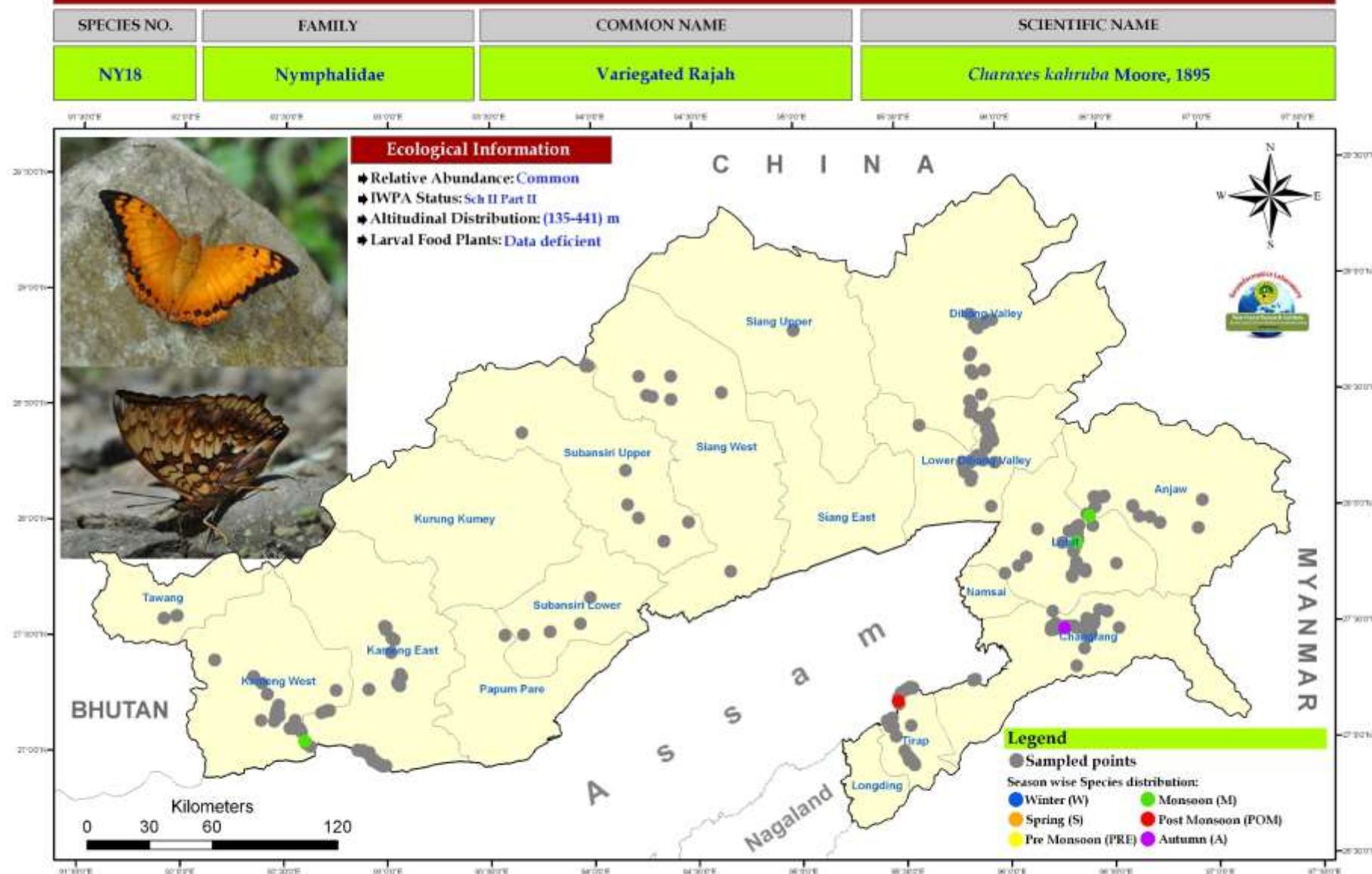
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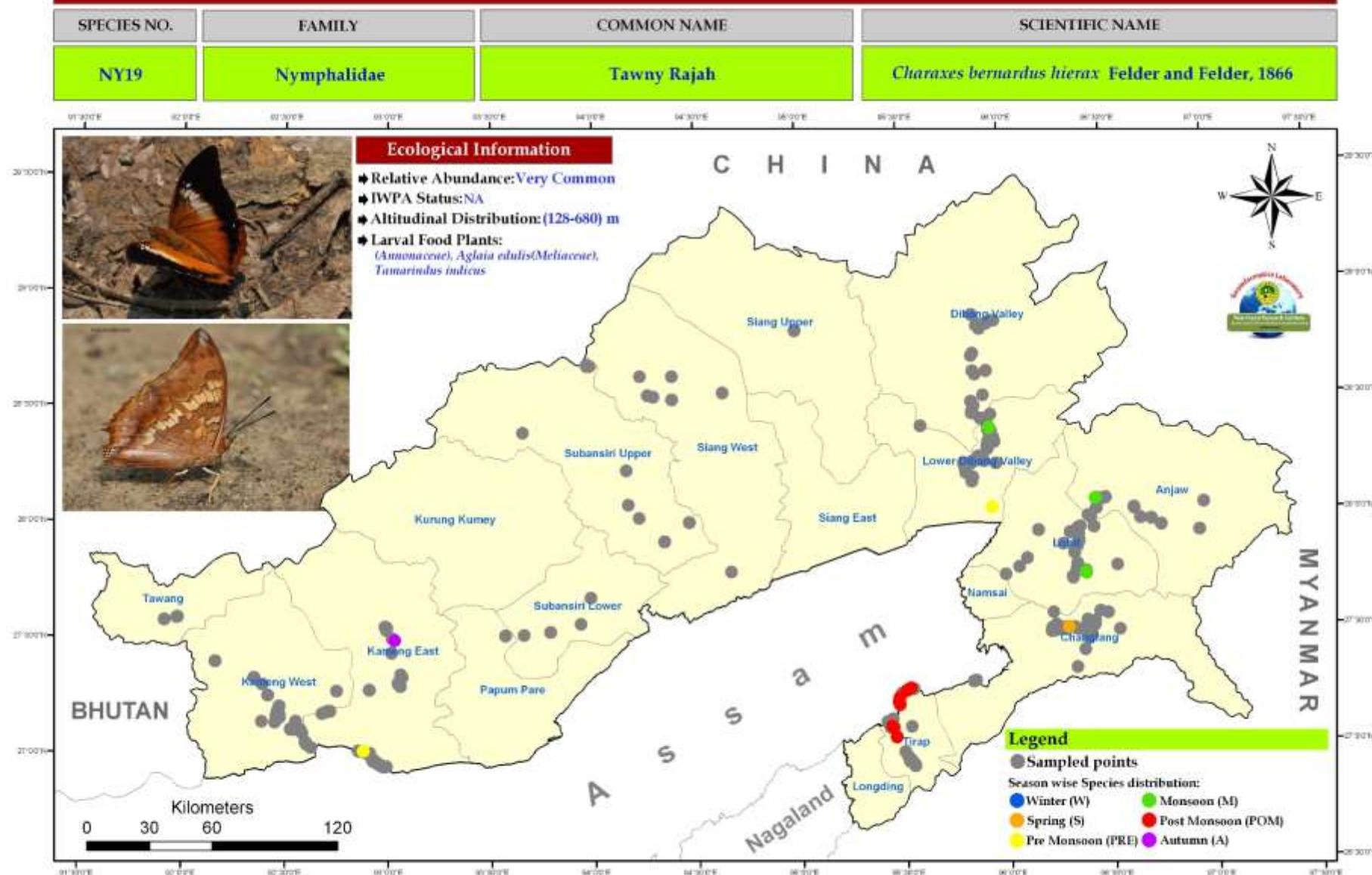
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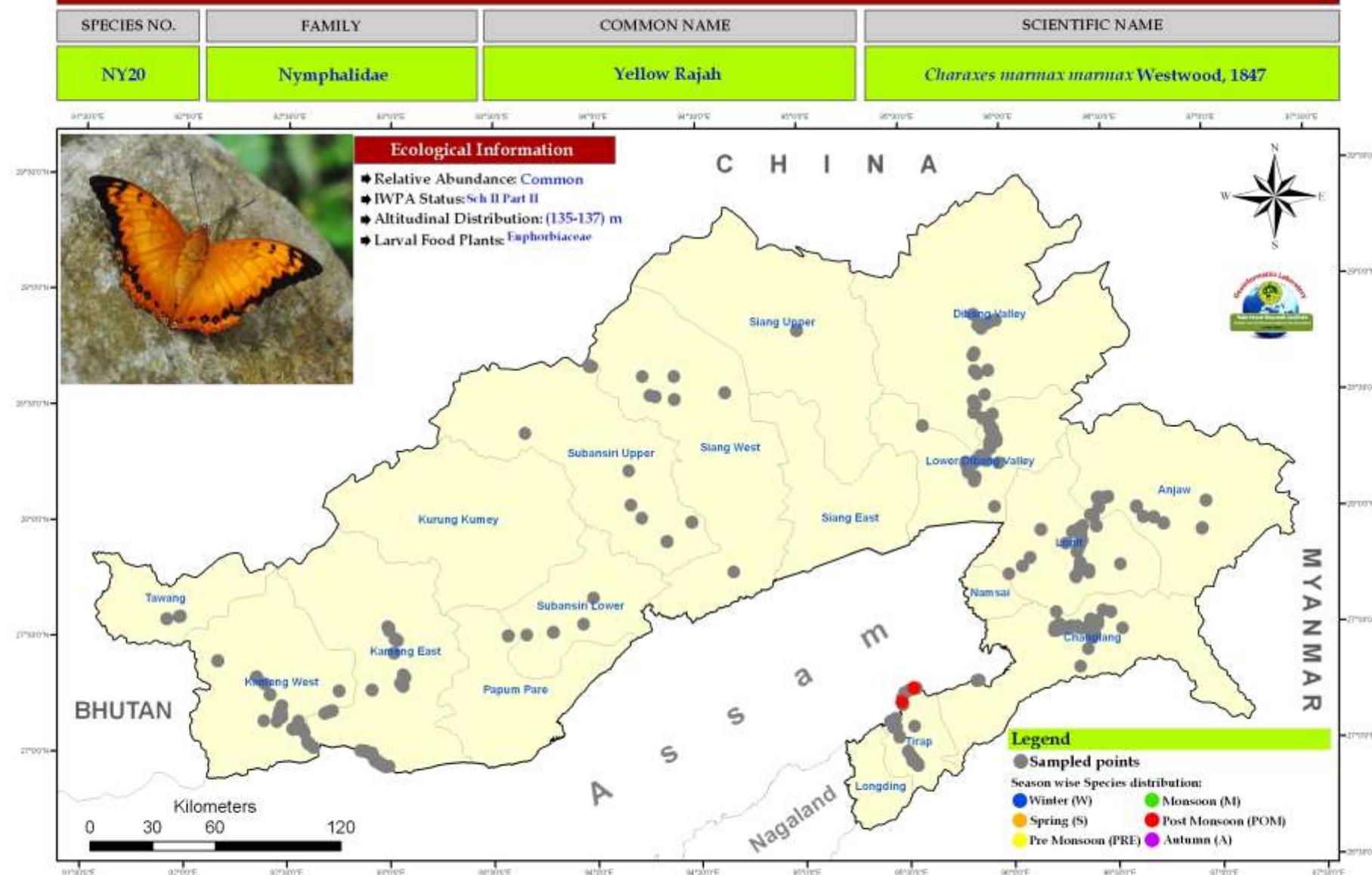
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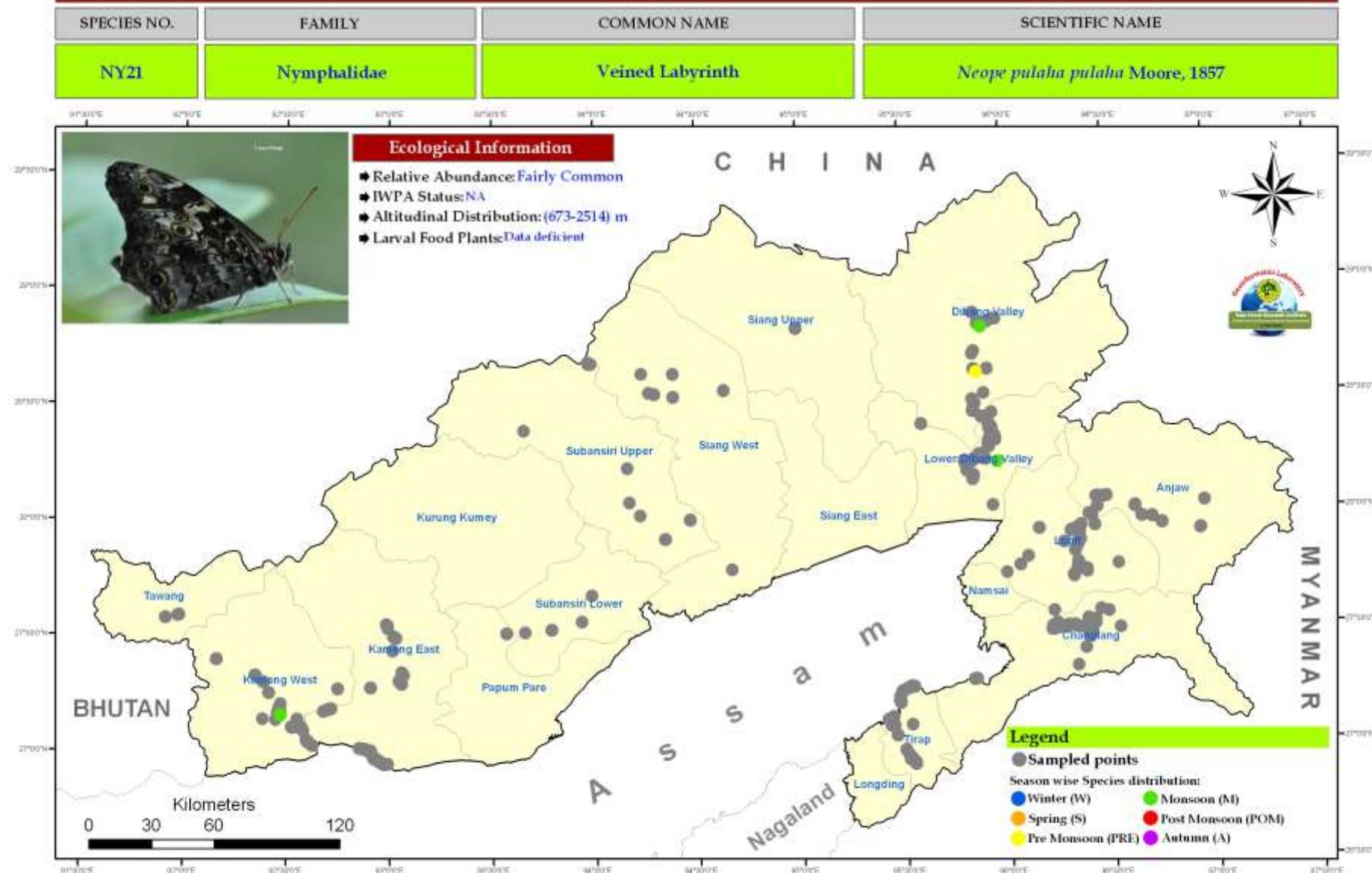
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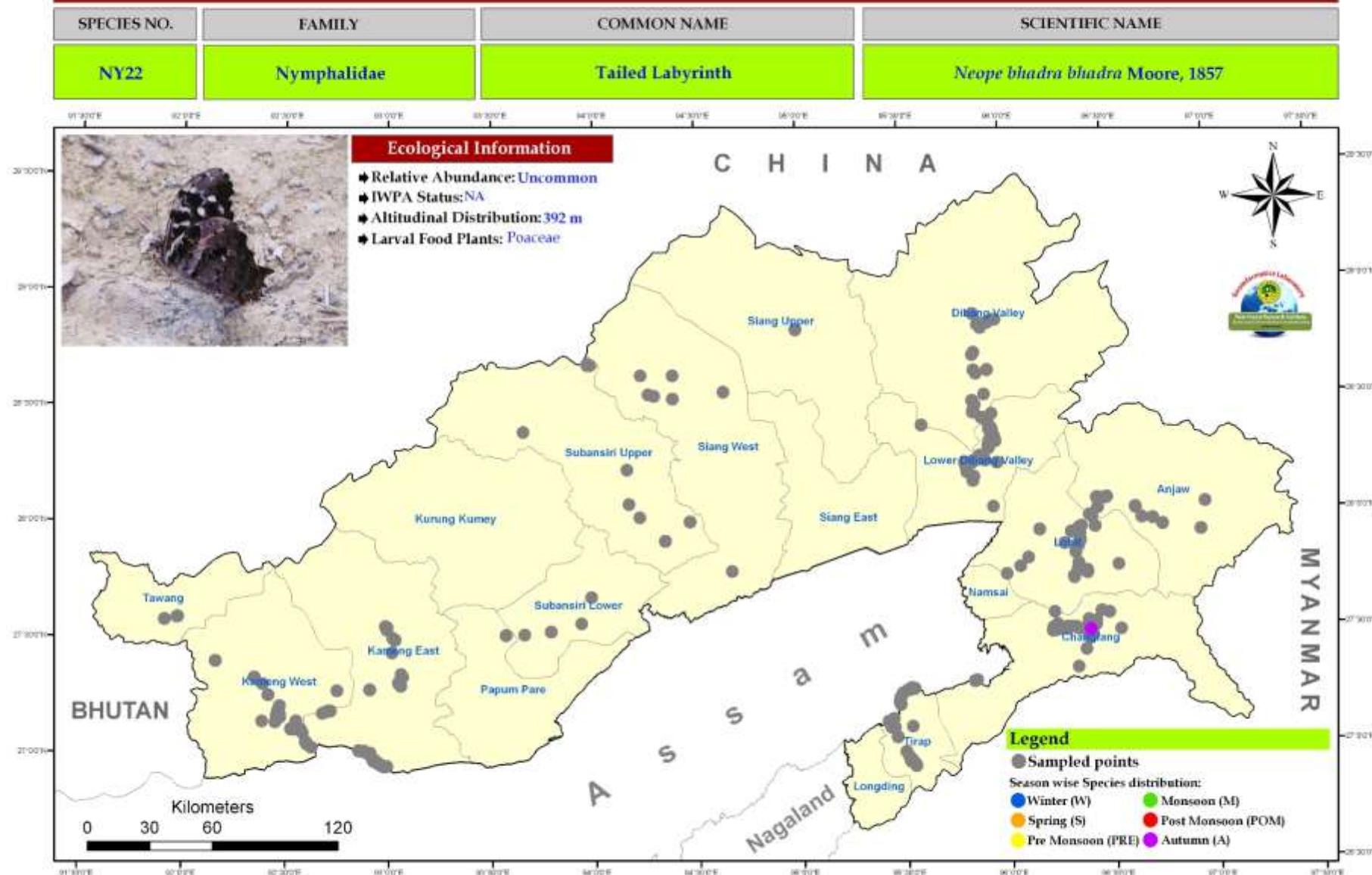
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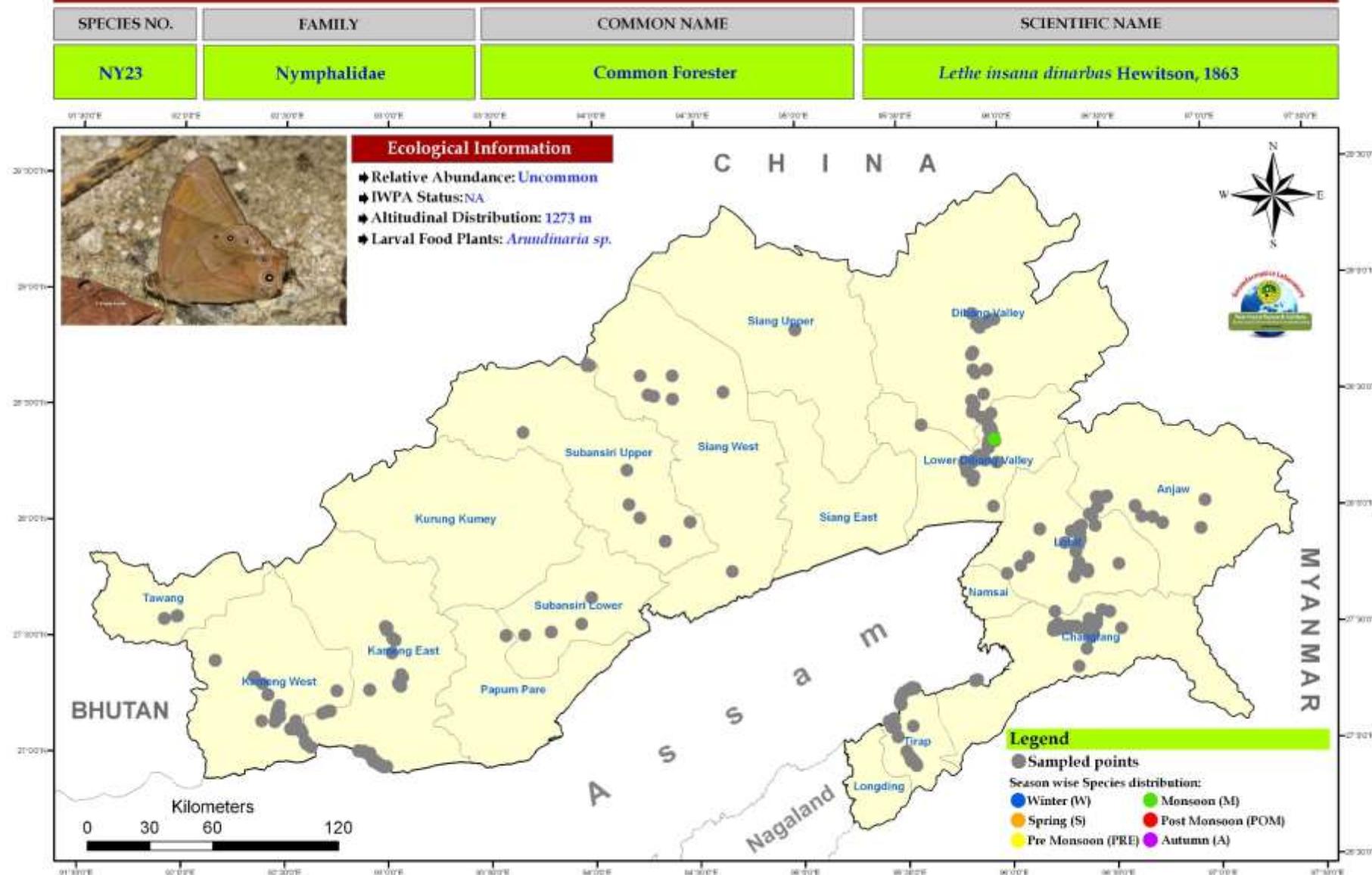
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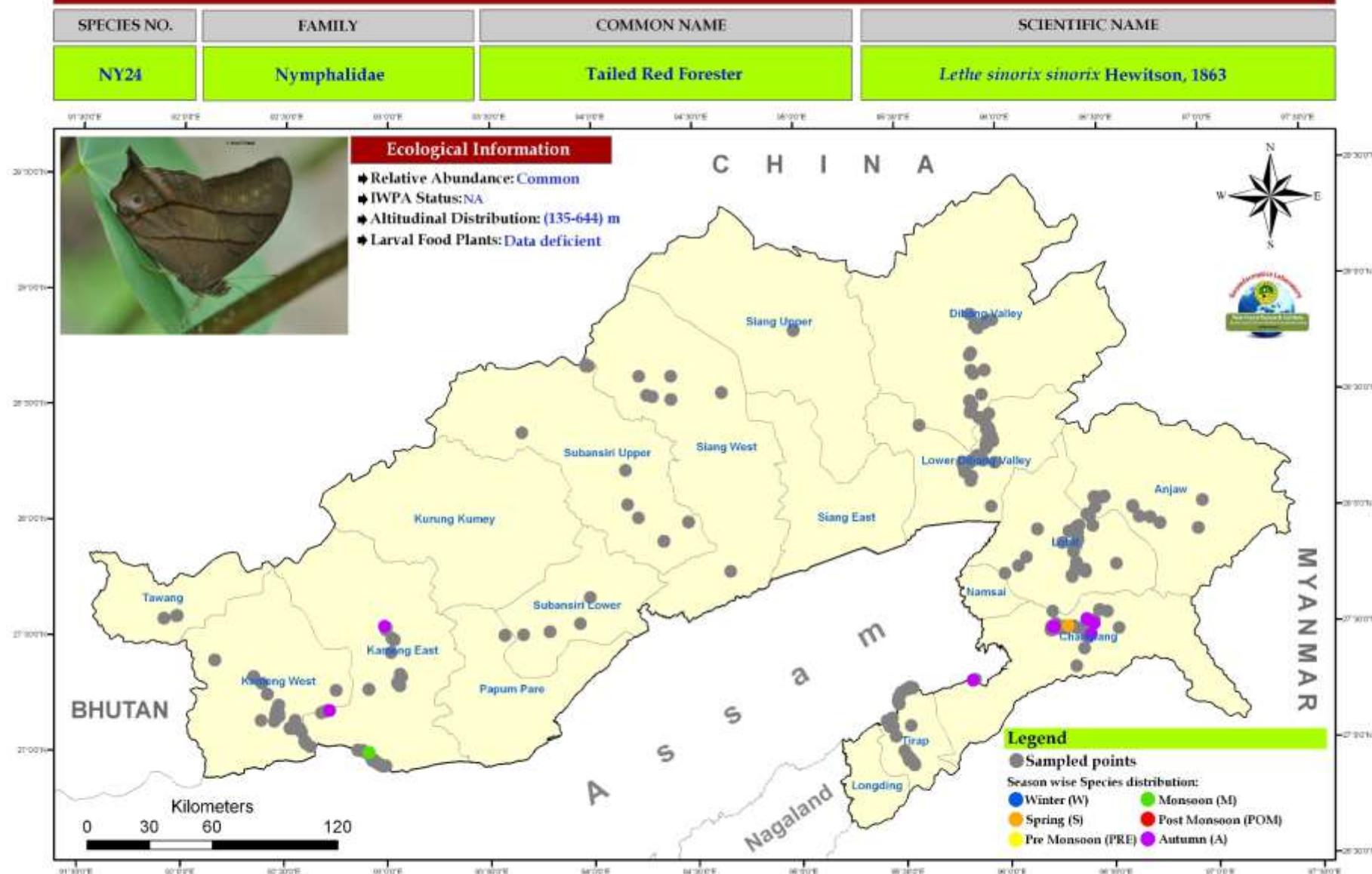
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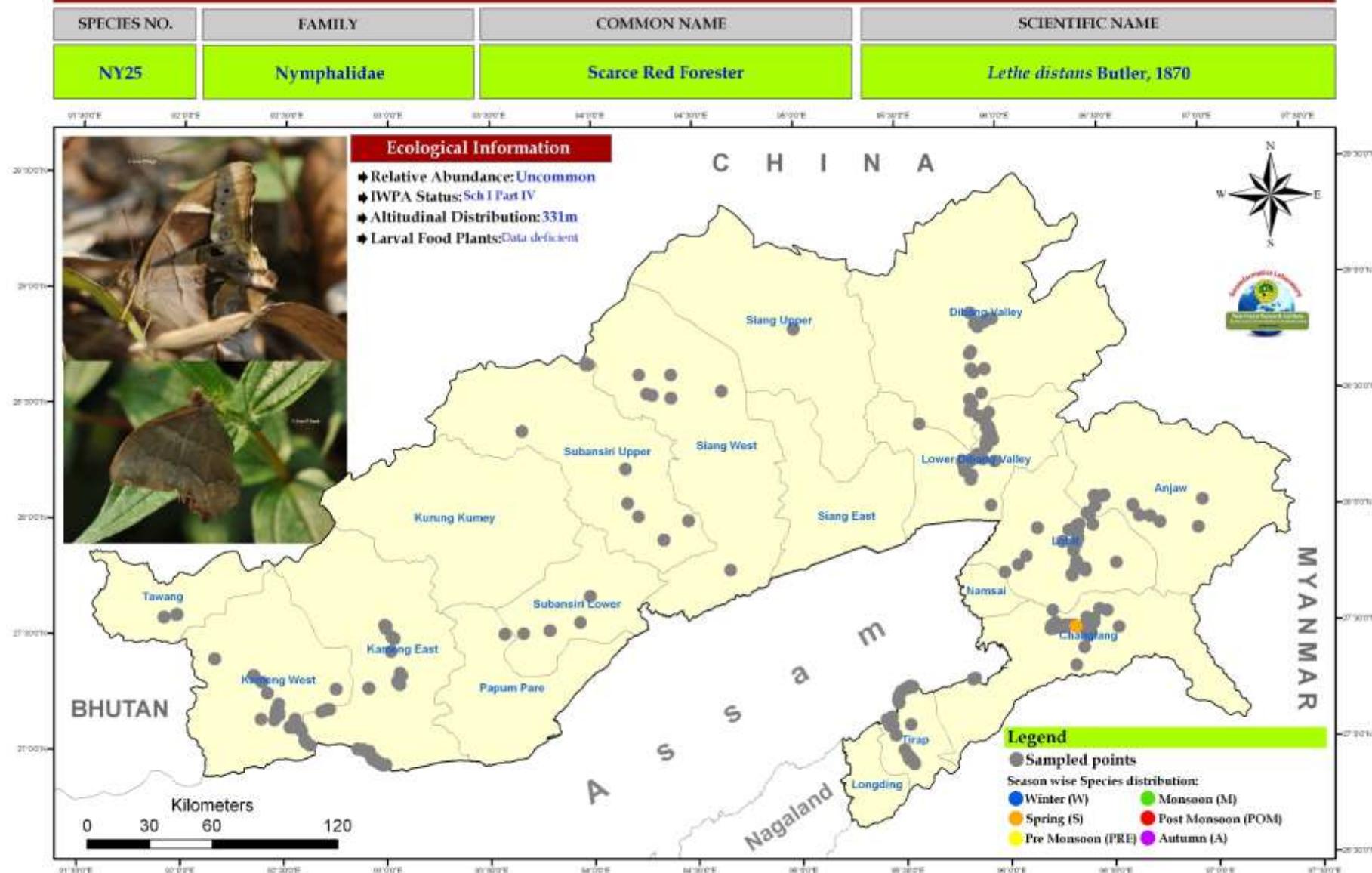
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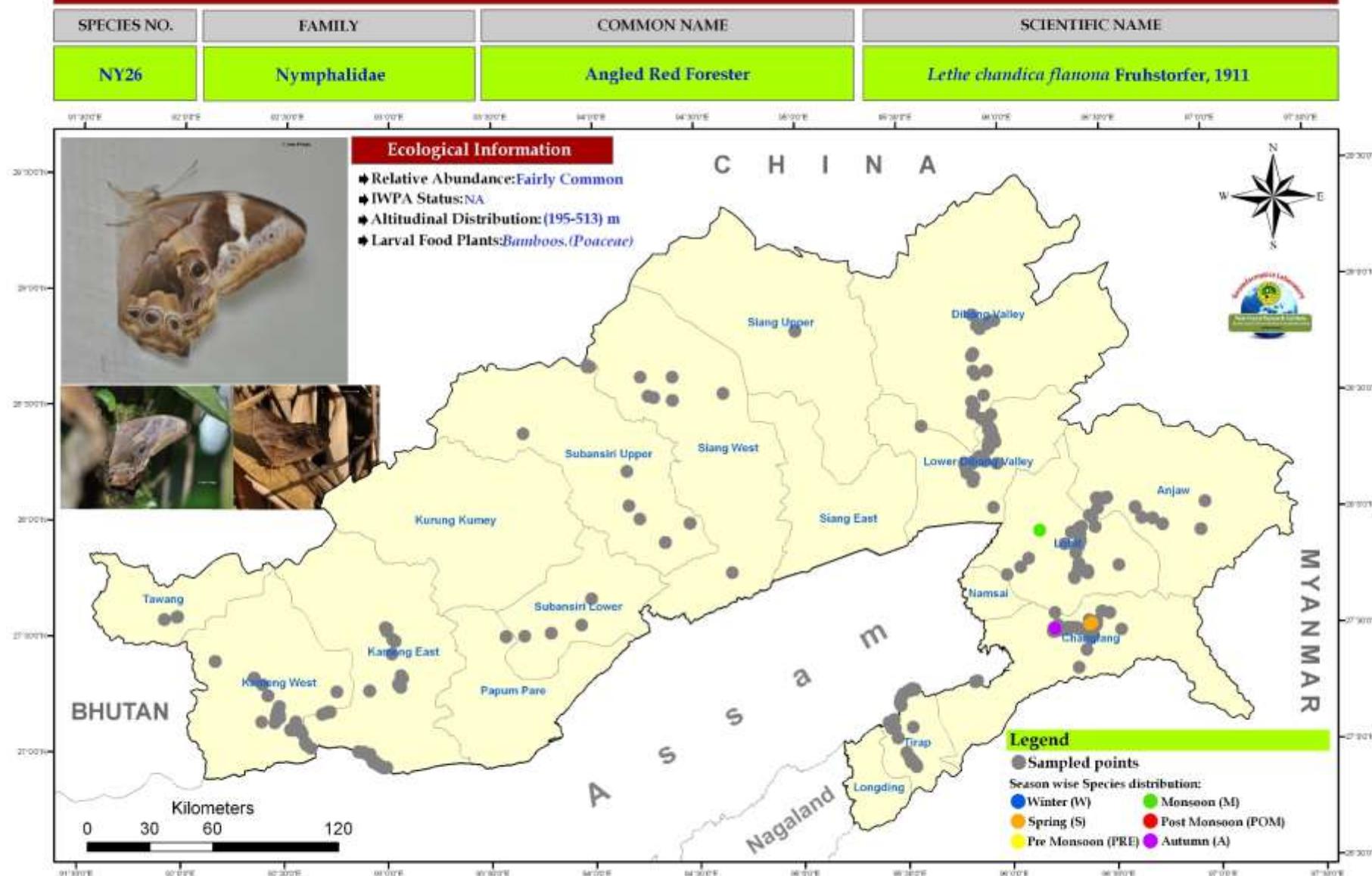
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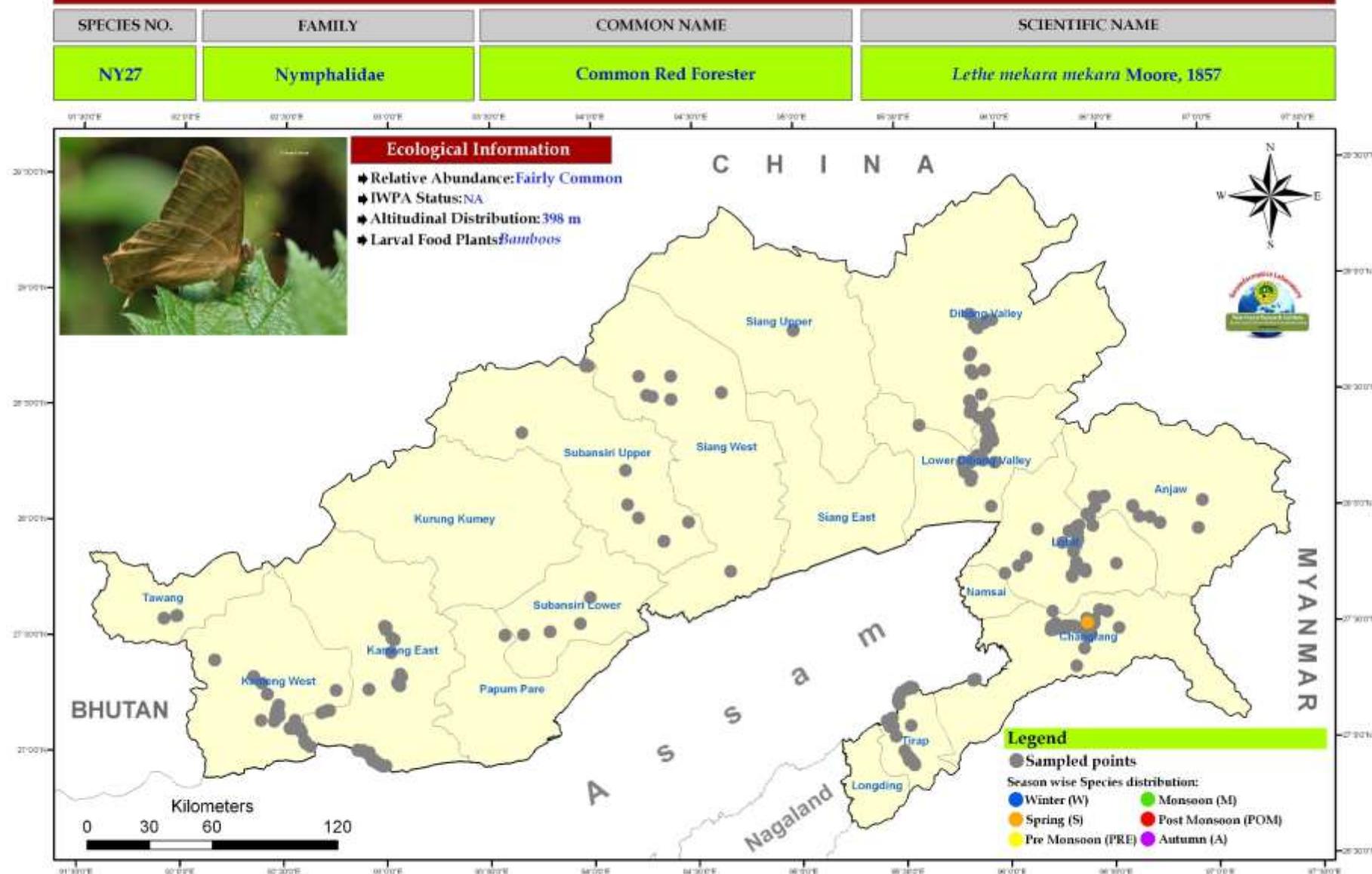
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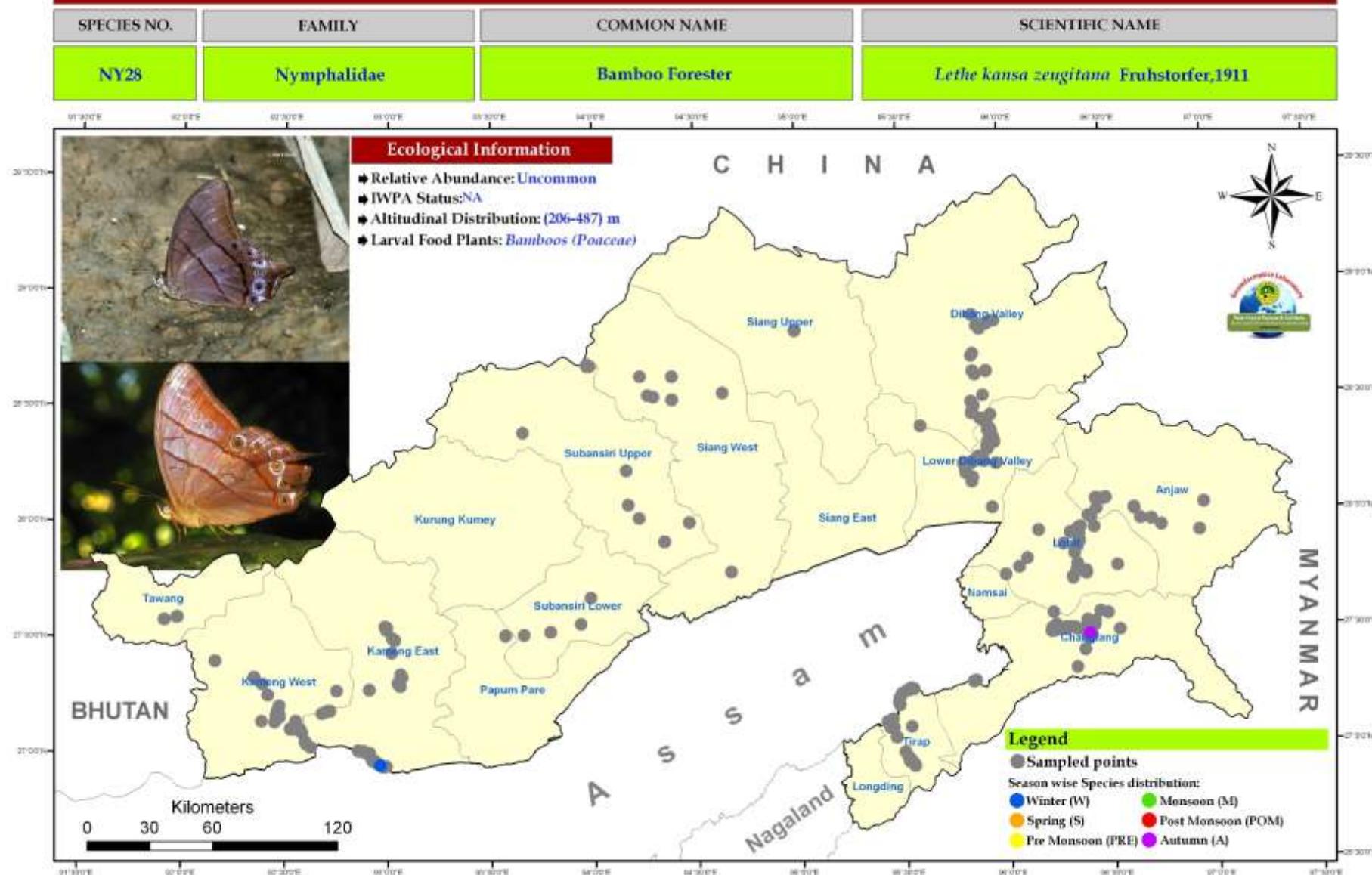
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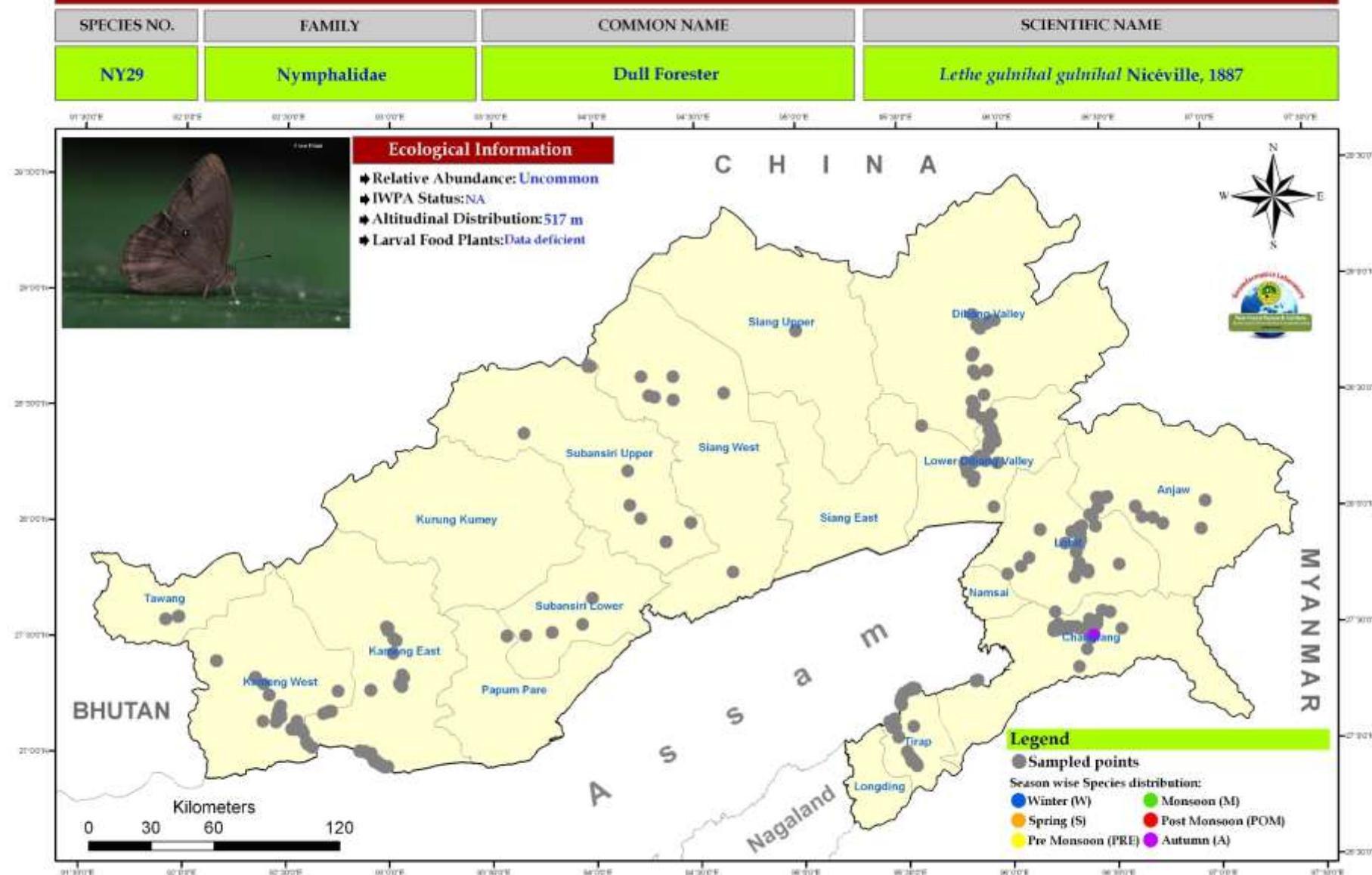
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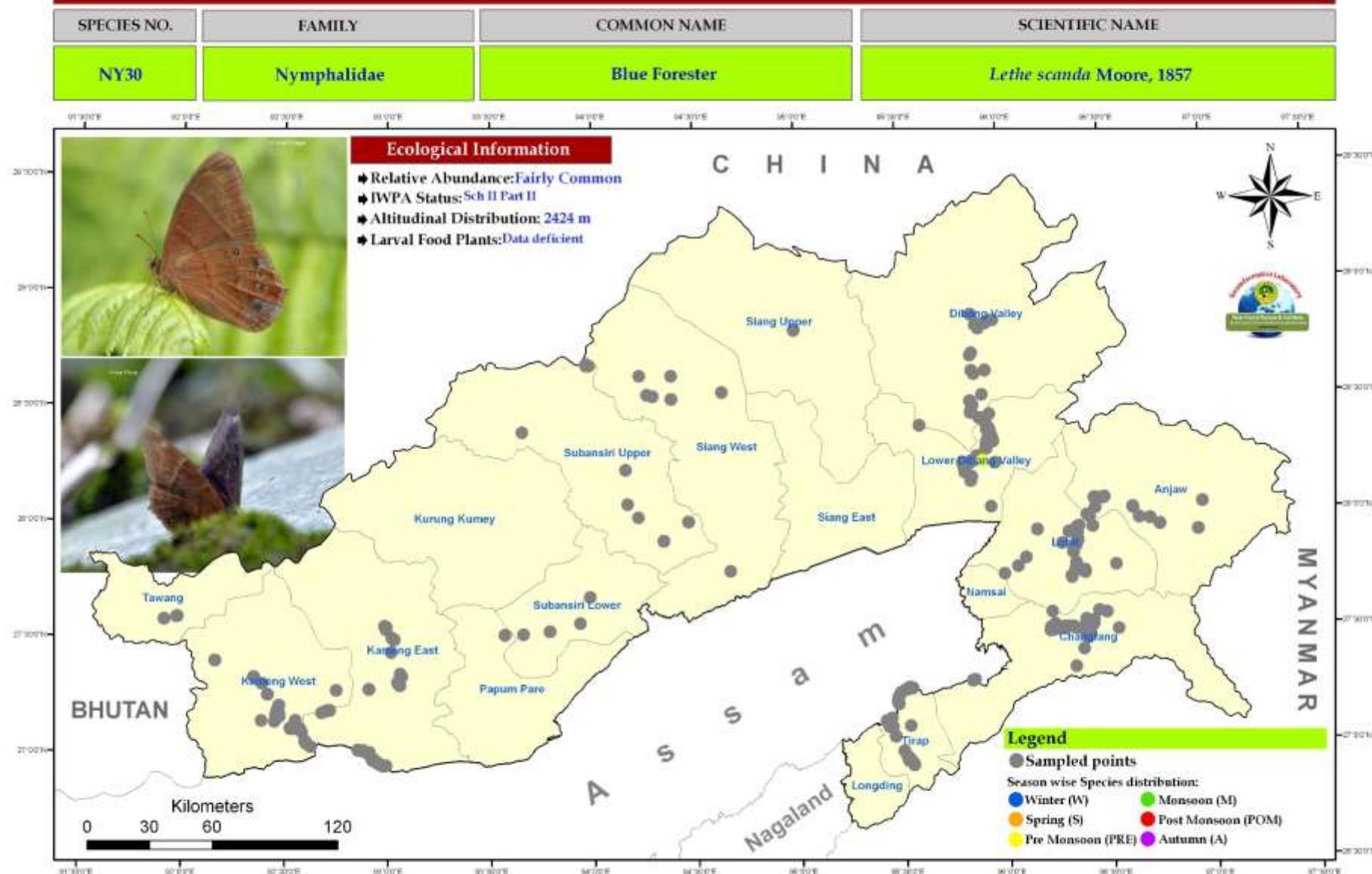
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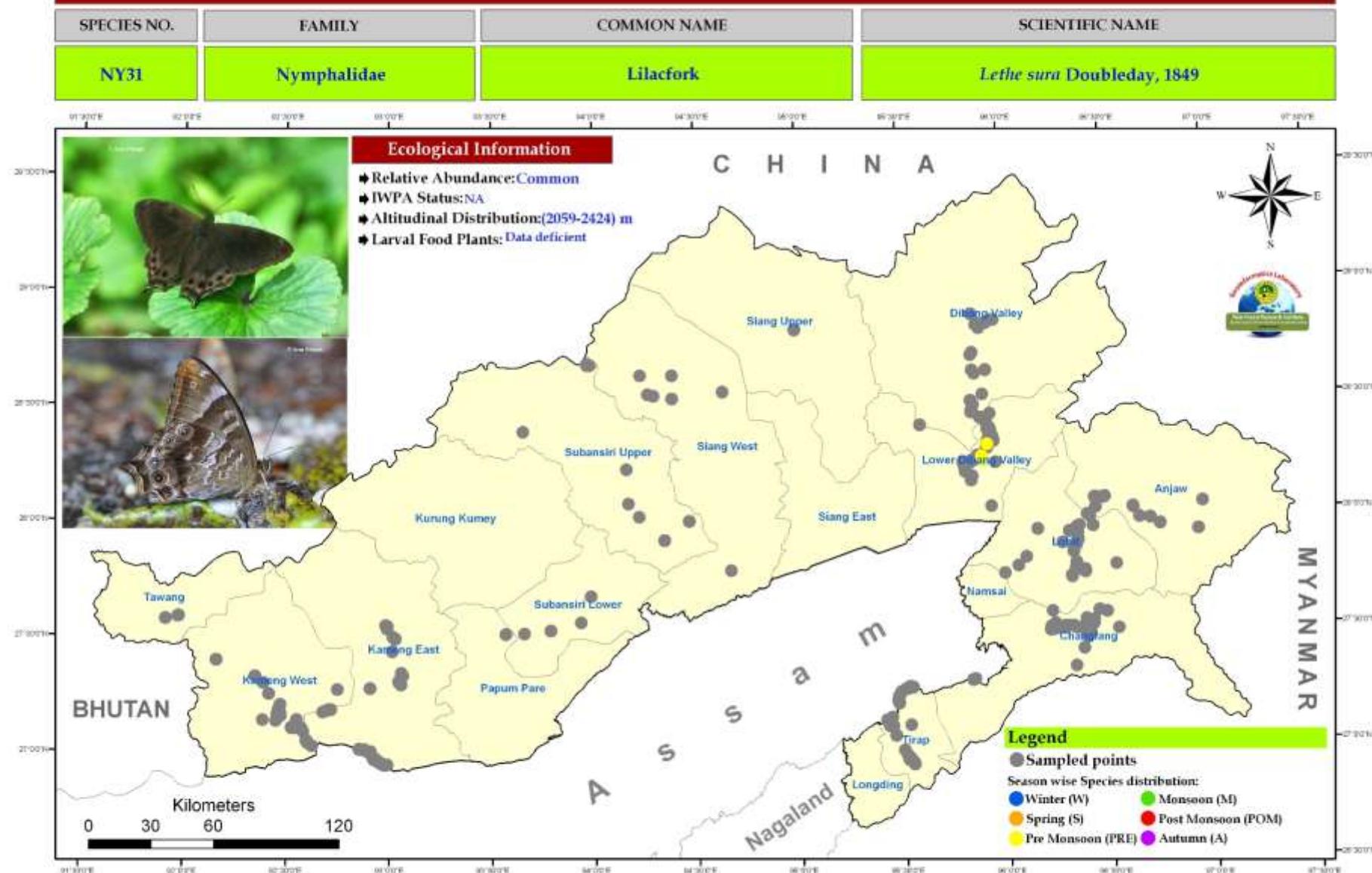
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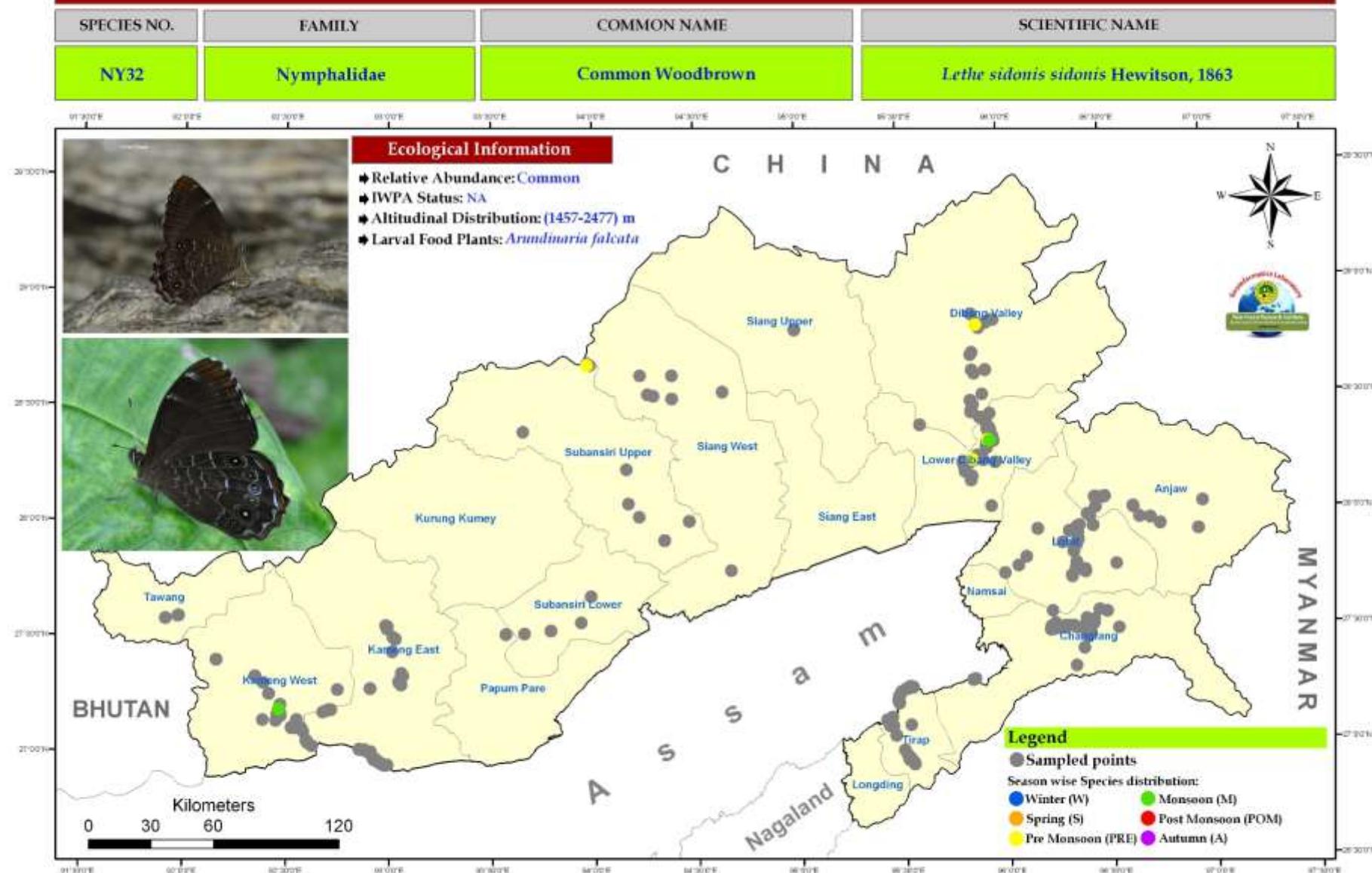
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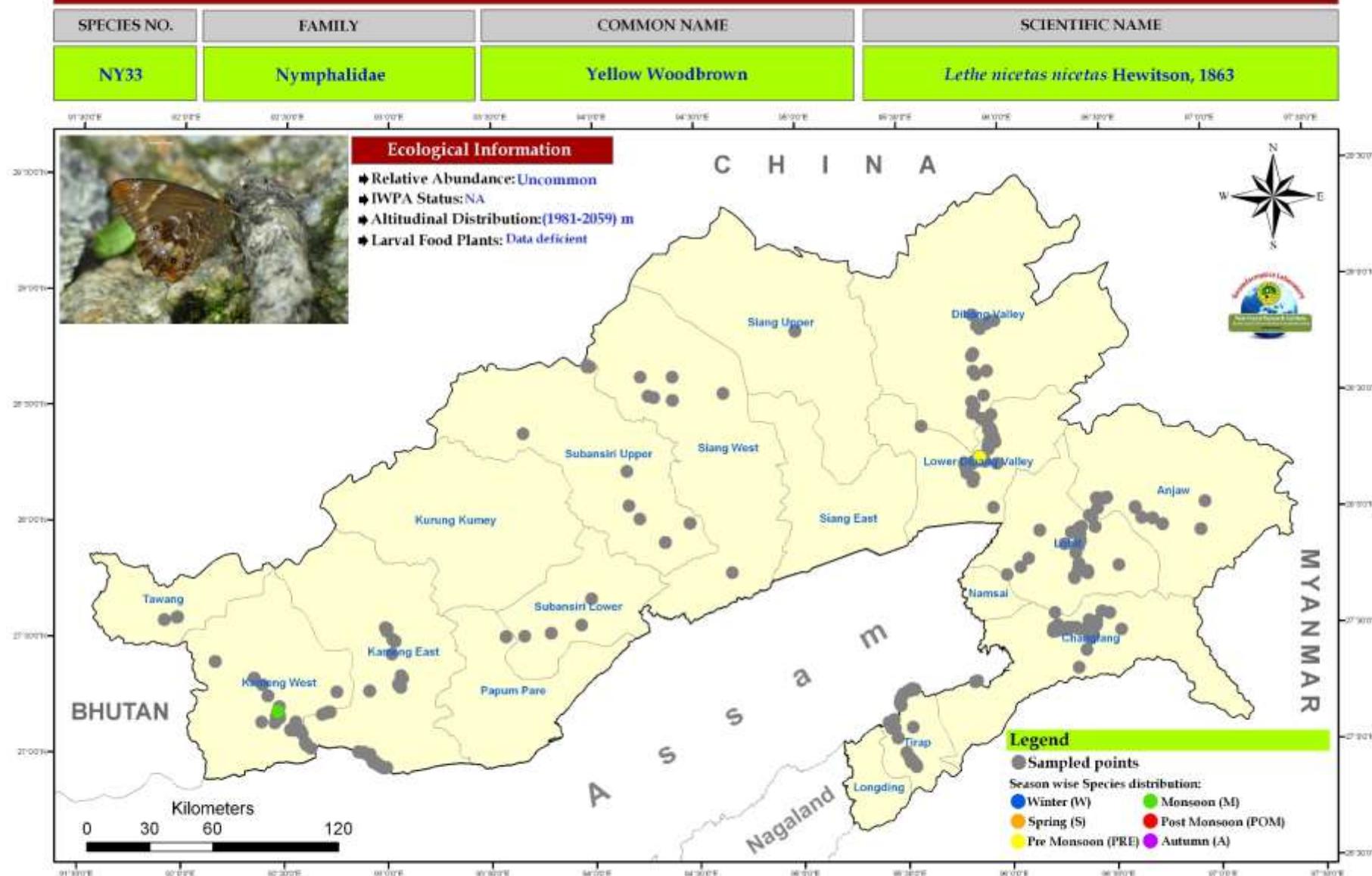
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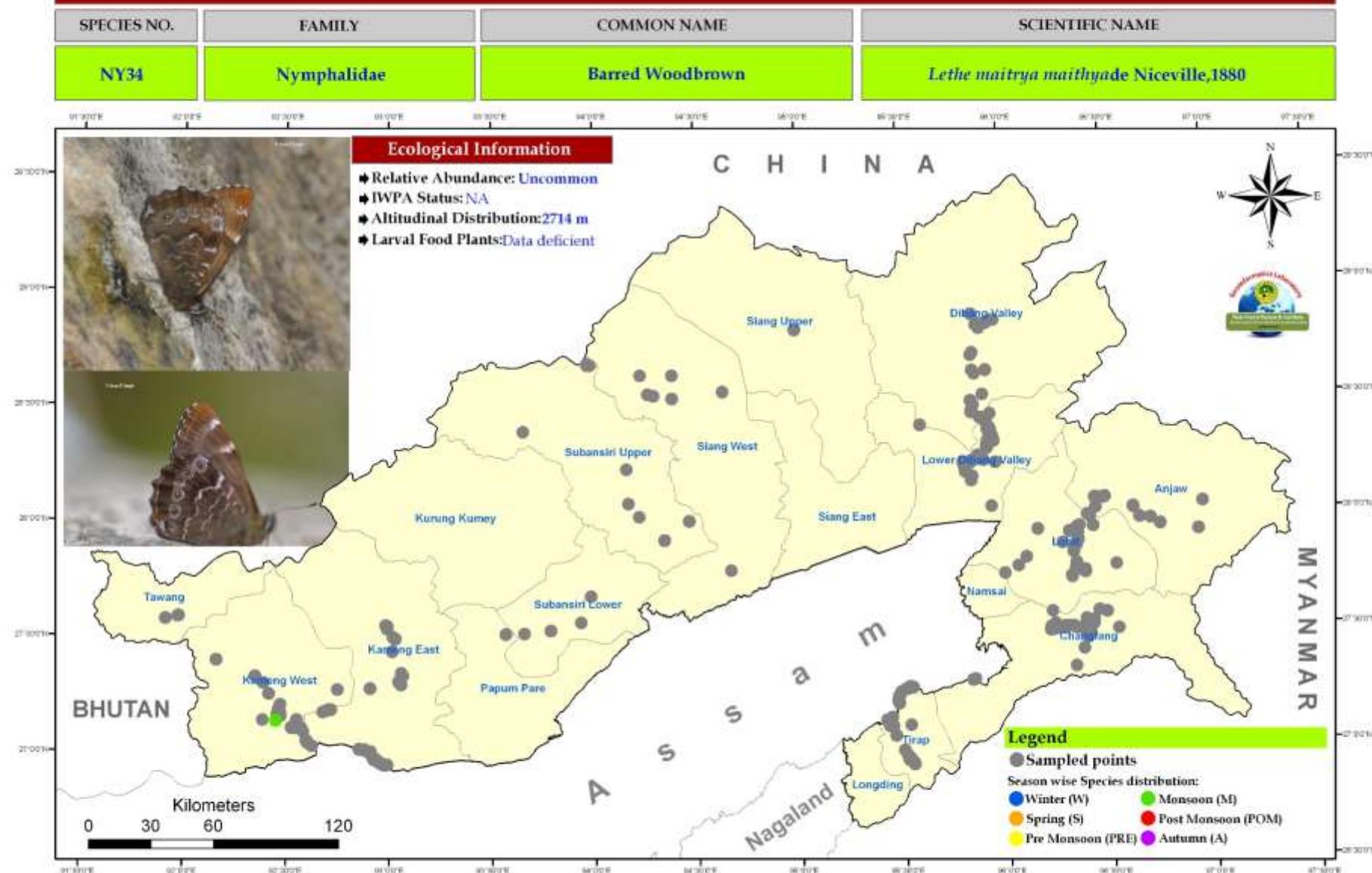
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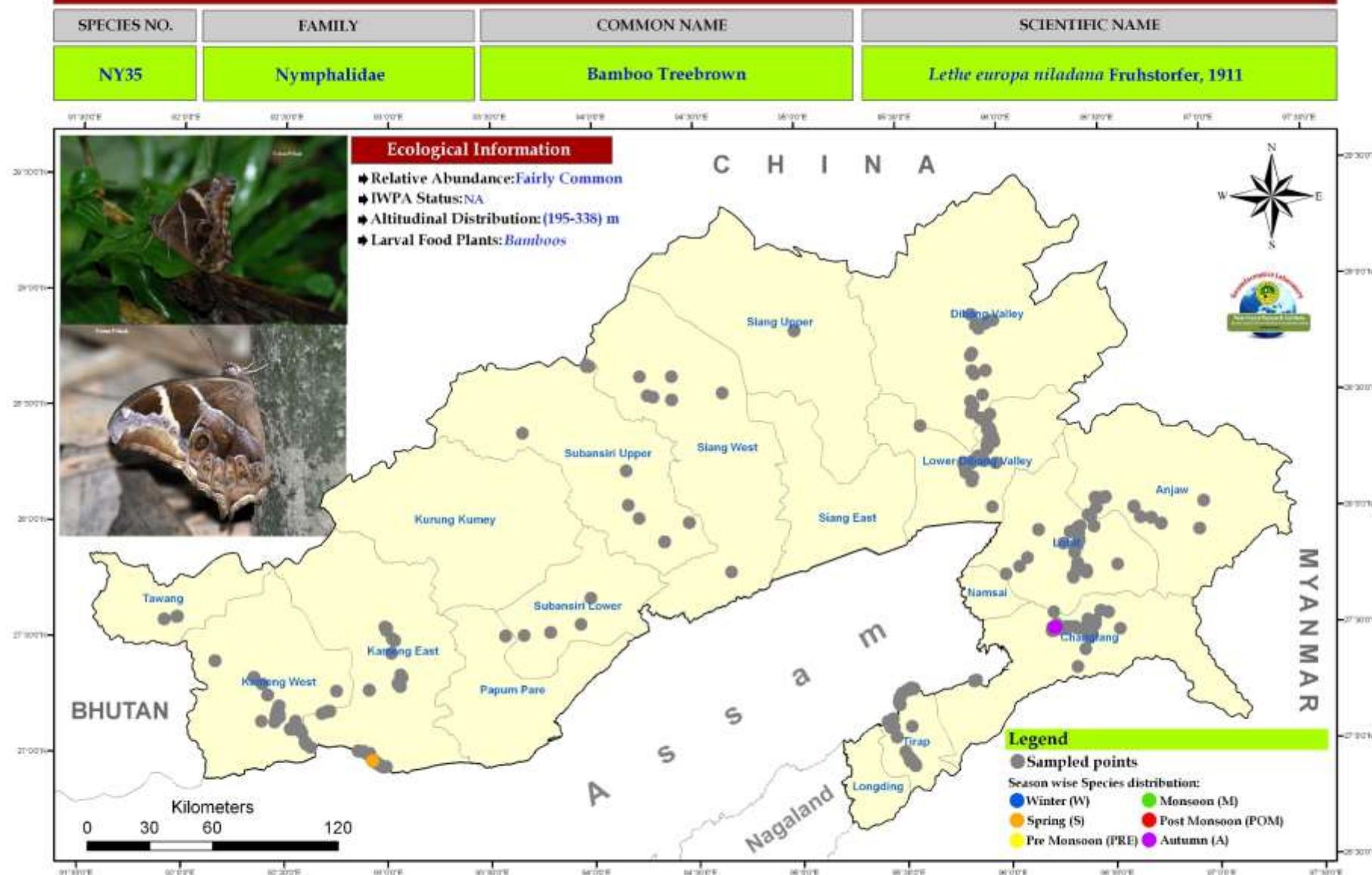
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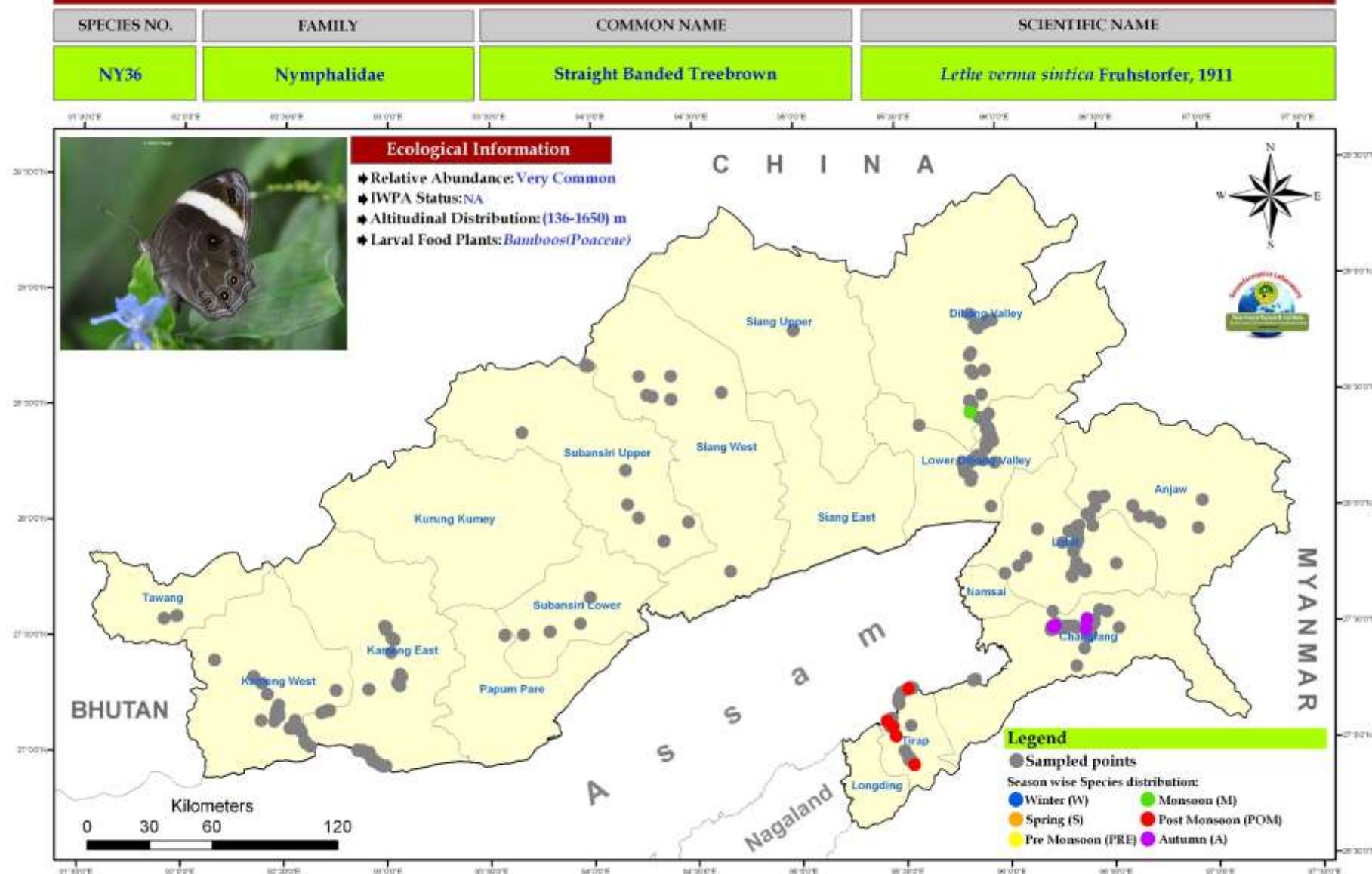
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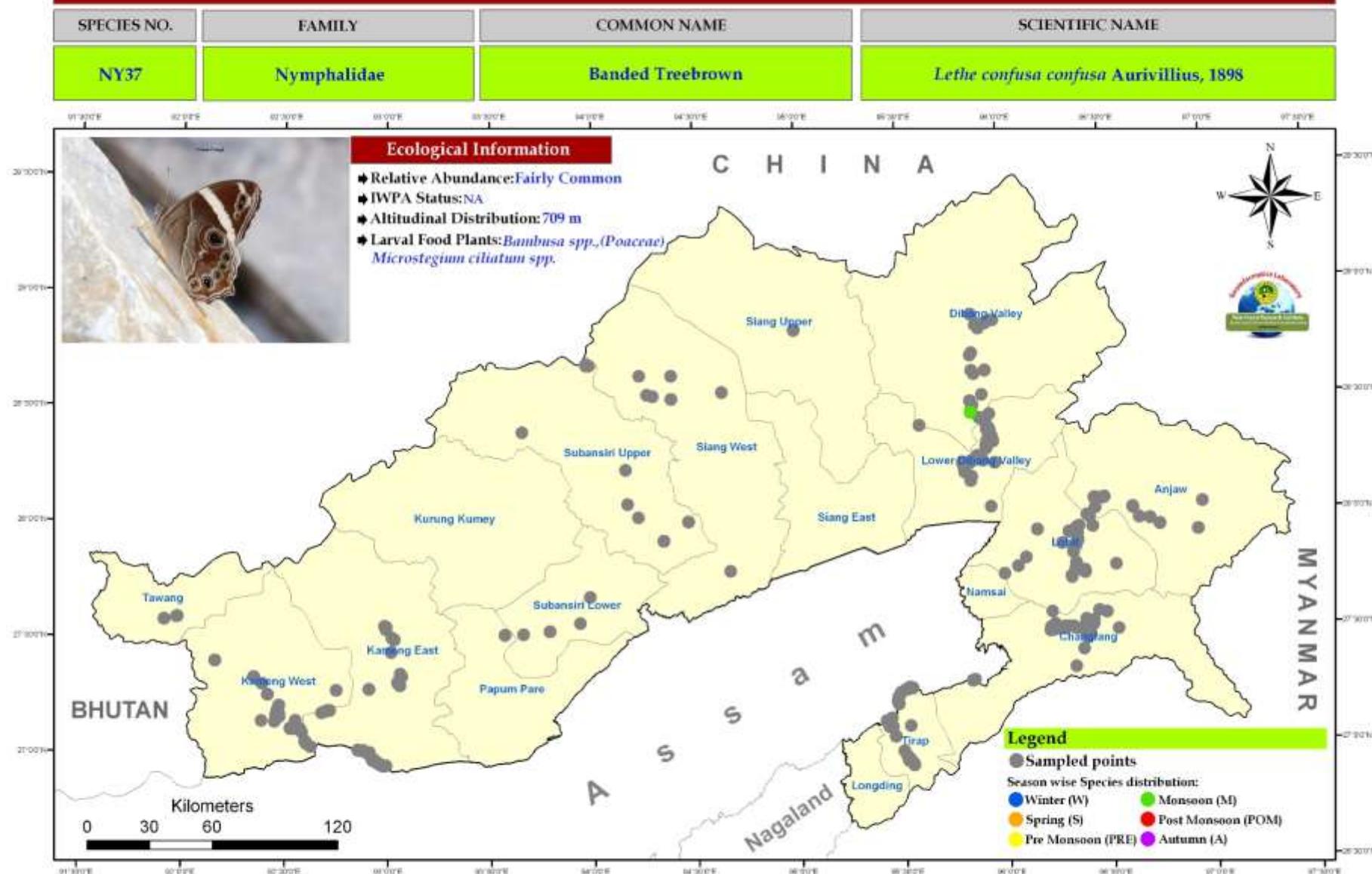
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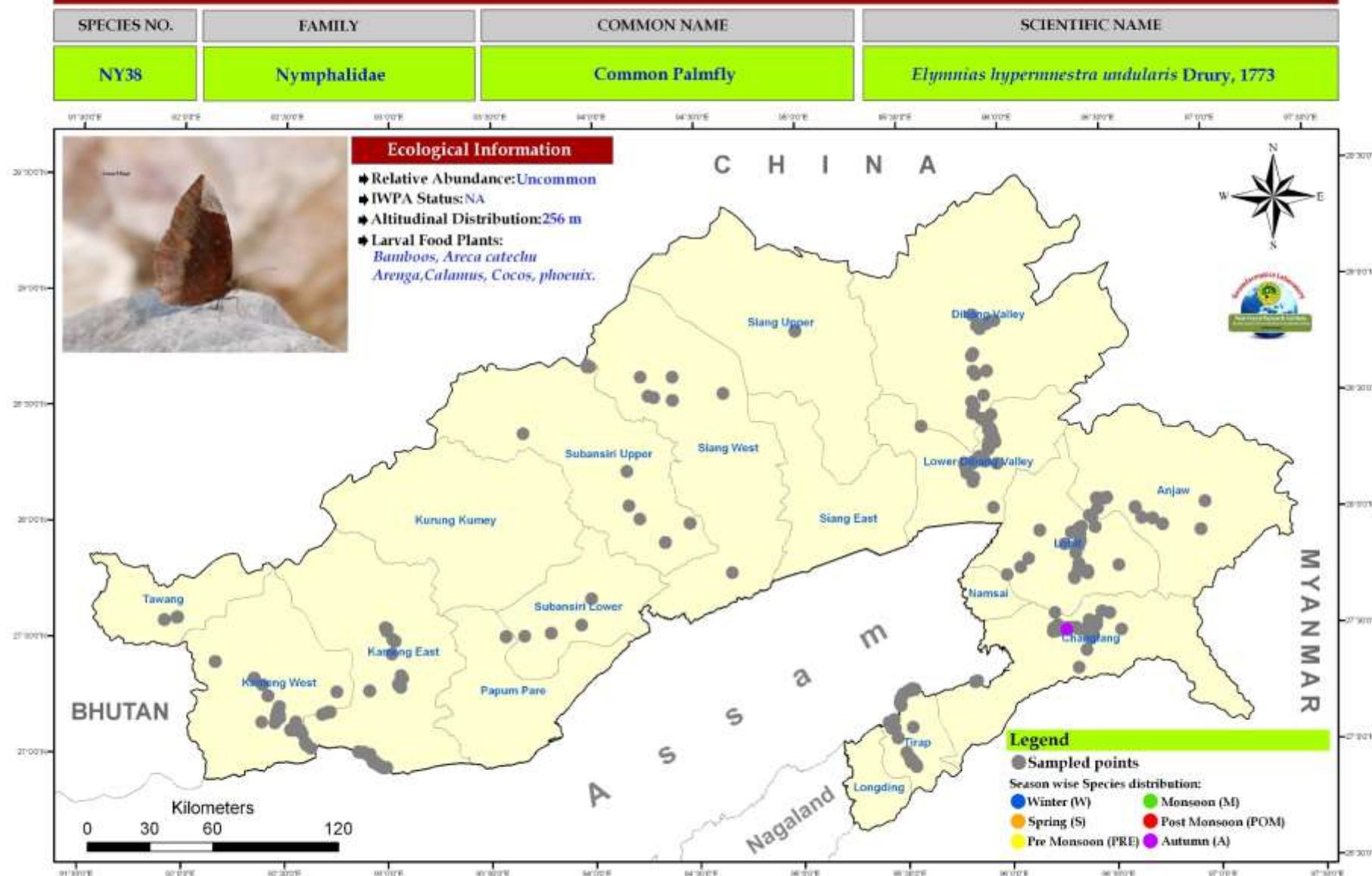
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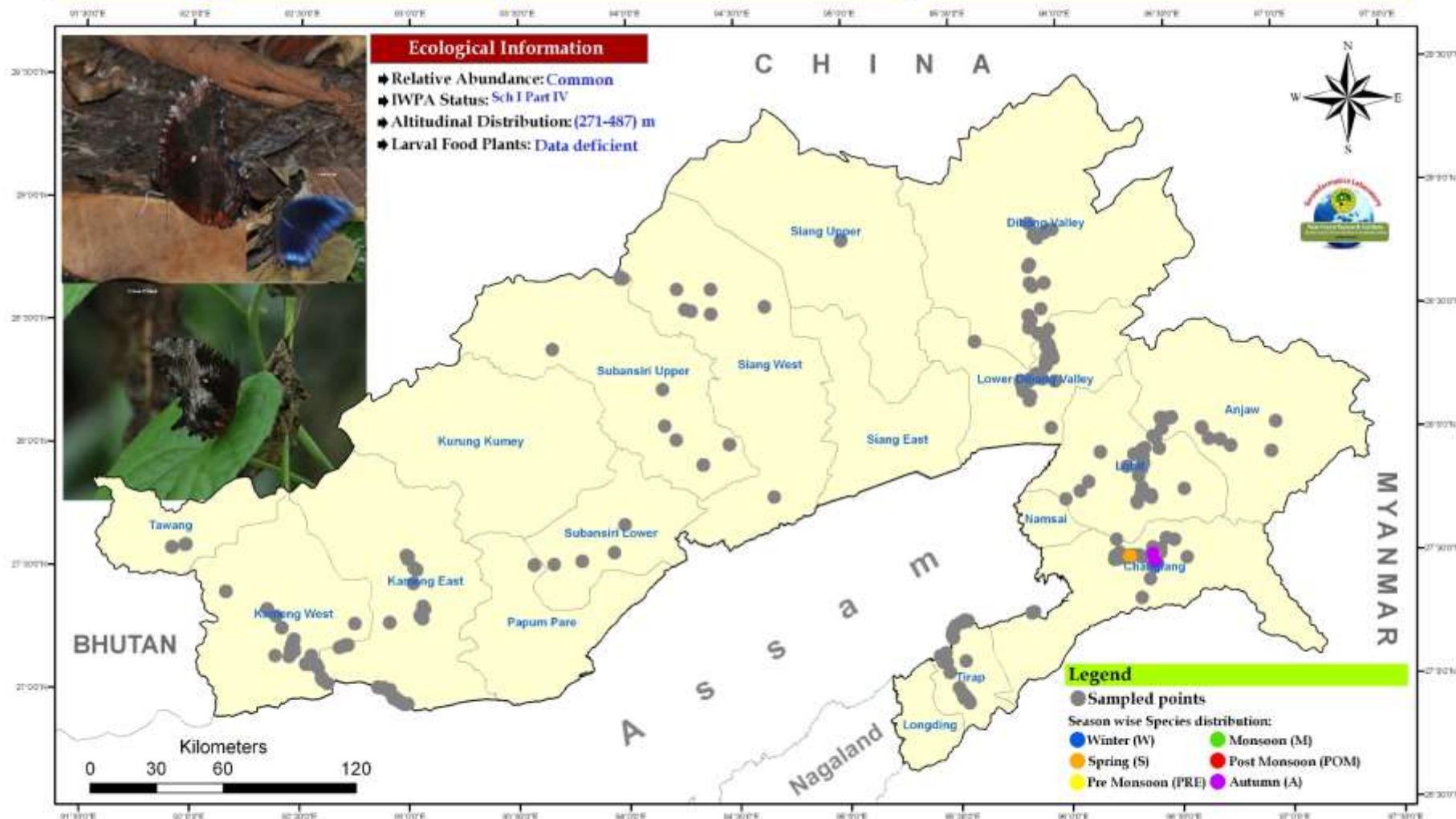


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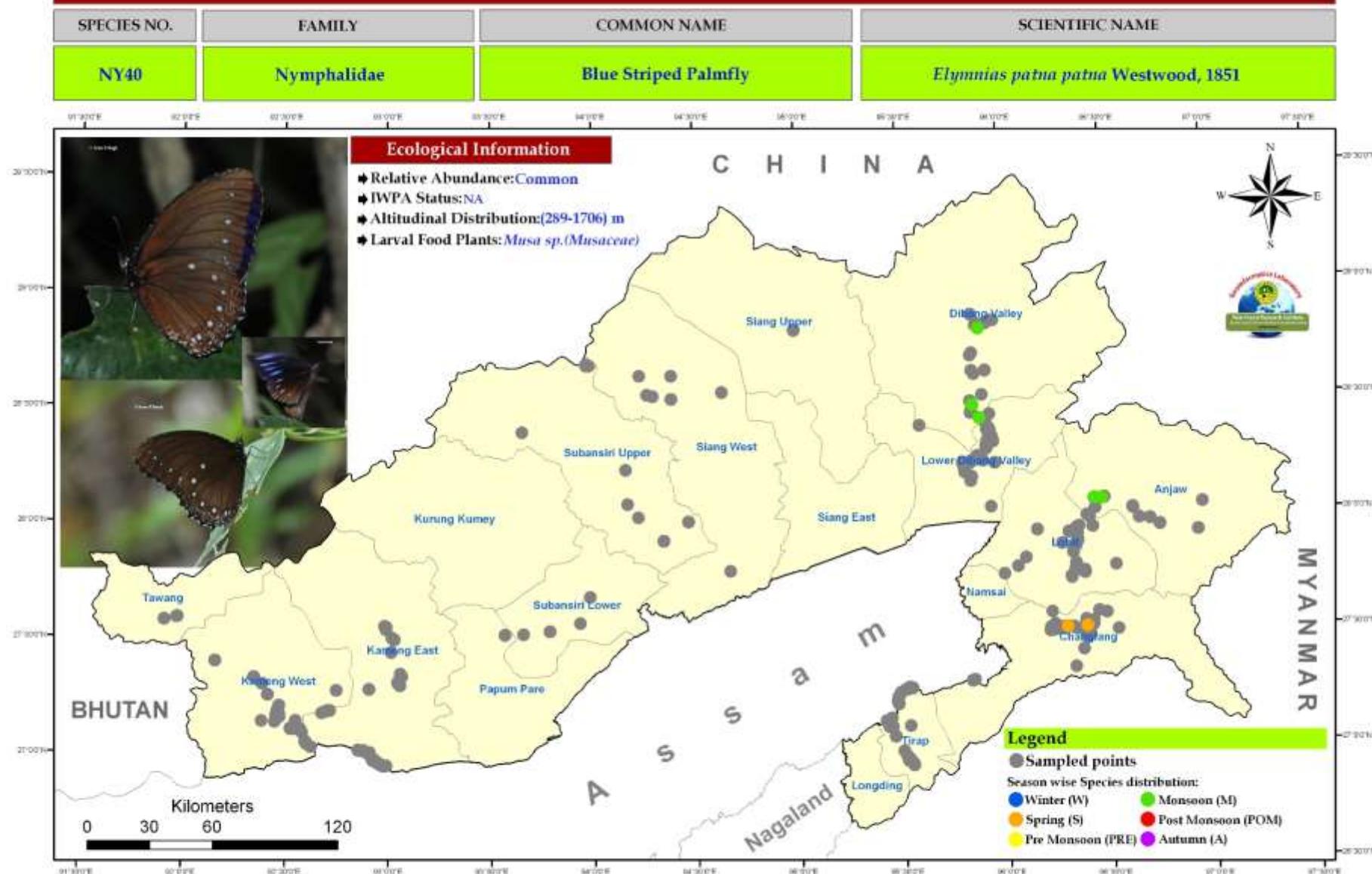


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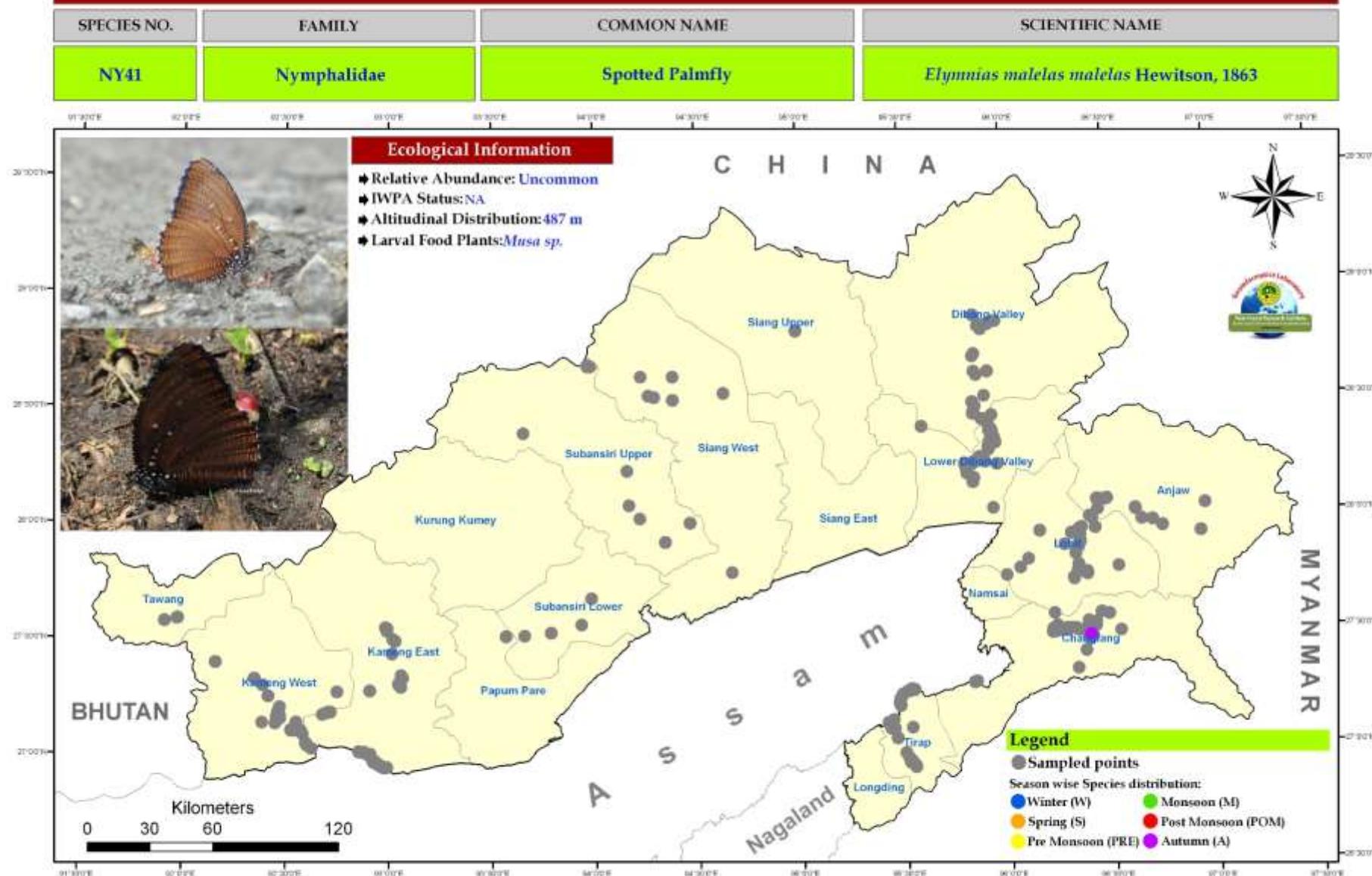
SPECIES NO.	FAMILY	COMMON NAME	SCIENTIFIC NAME
NY39	Nymphalidae	Peal's Palmfly	<i>Elymnias peali</i> Wood-Mason, 1883



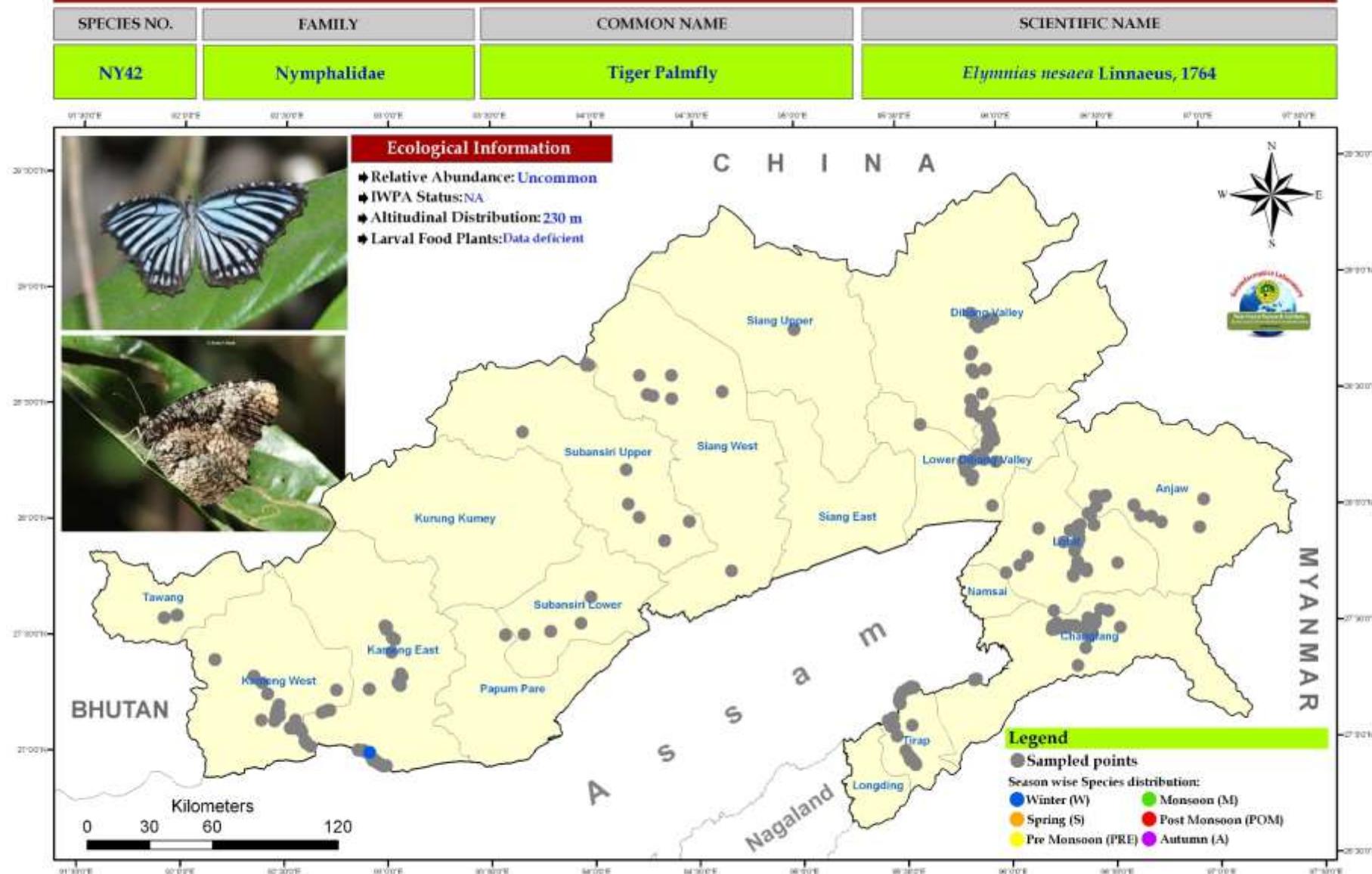
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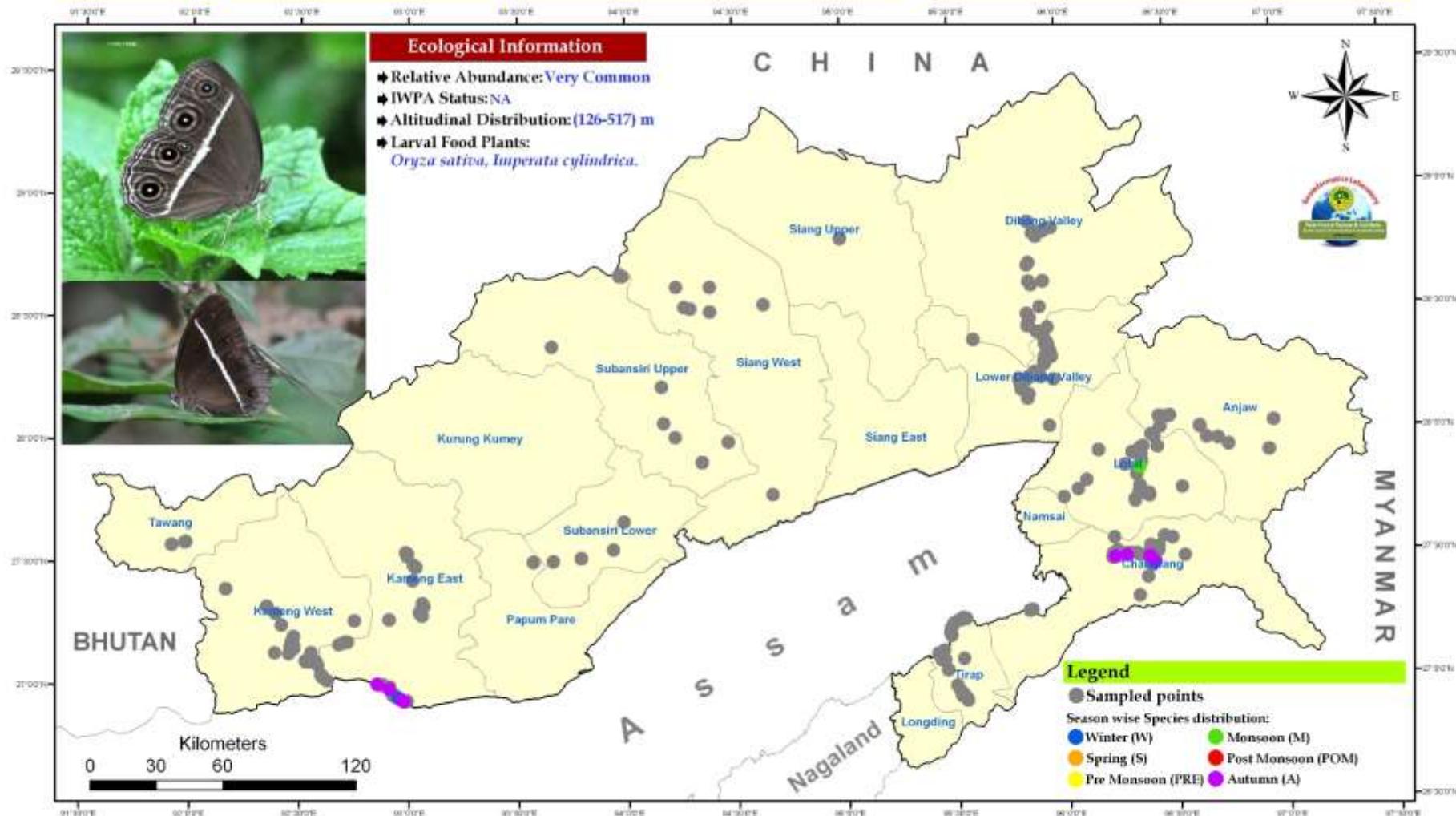


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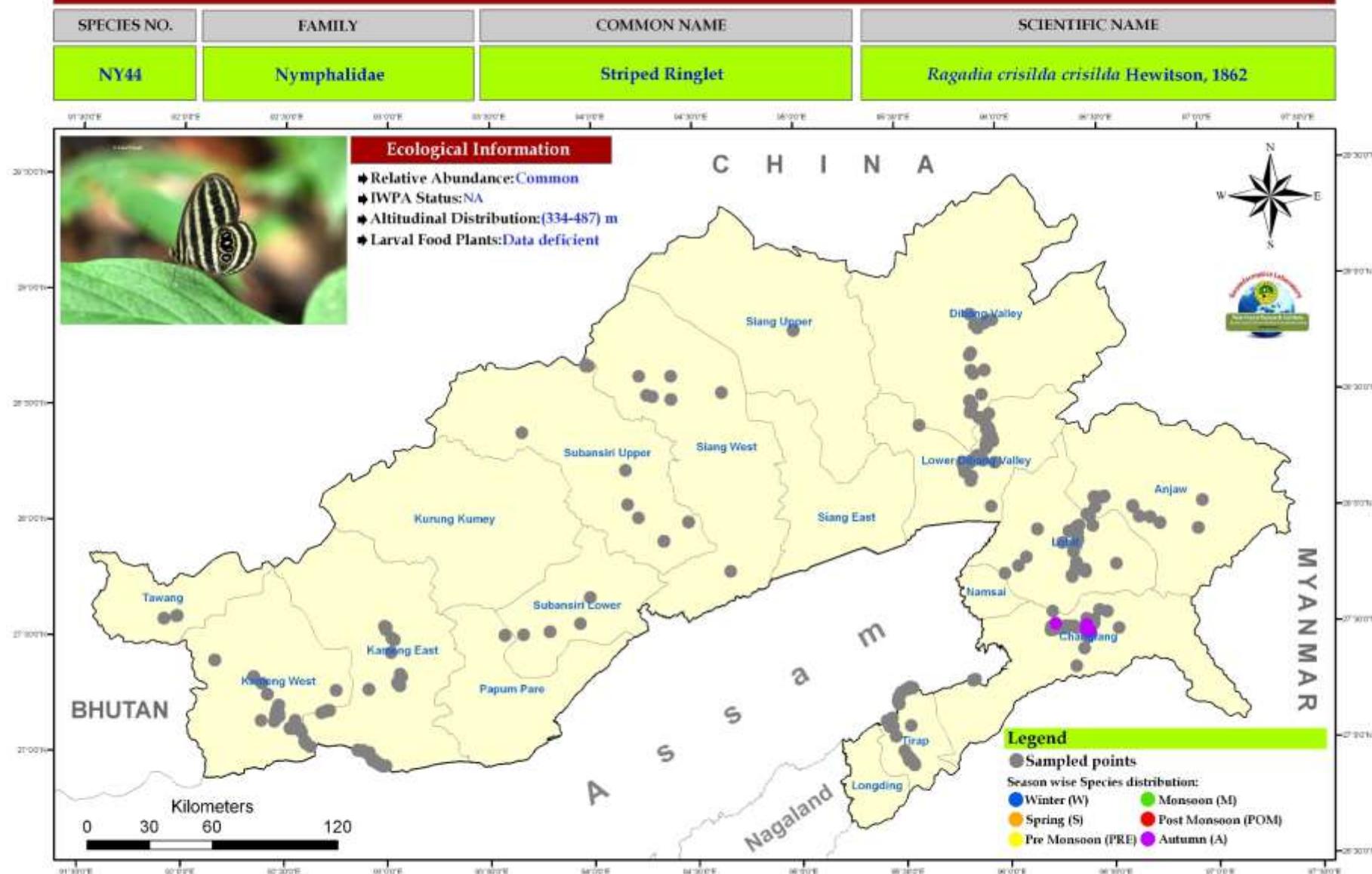


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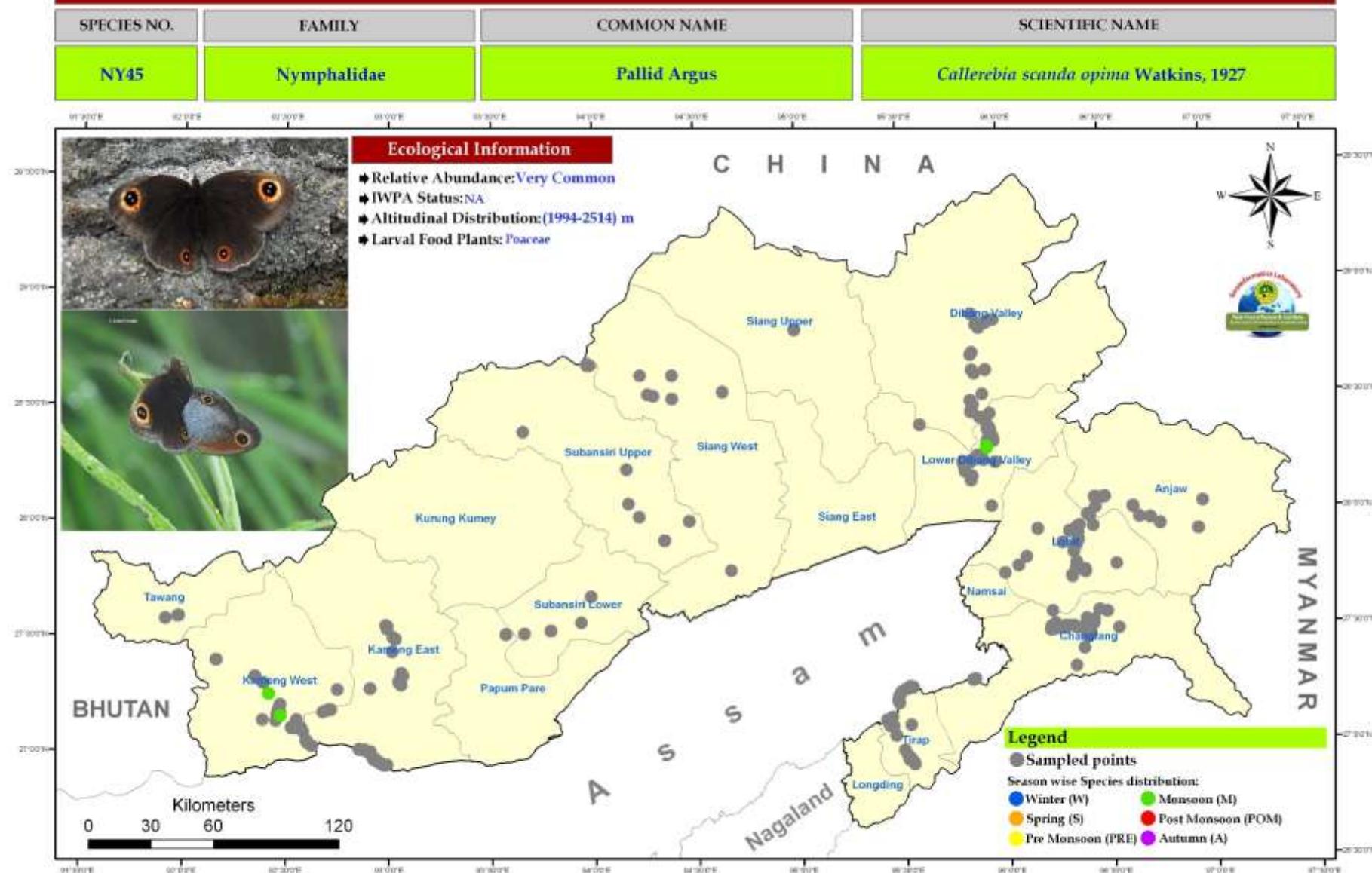
SPECIES NO.	FAMILY	COMMON NAME	SCIENTIFIC NAME
NY43	Nymphalidae	Medus Brown (Nigger)	<i>Orsotriaena medus medus</i> Fabricius, 1775



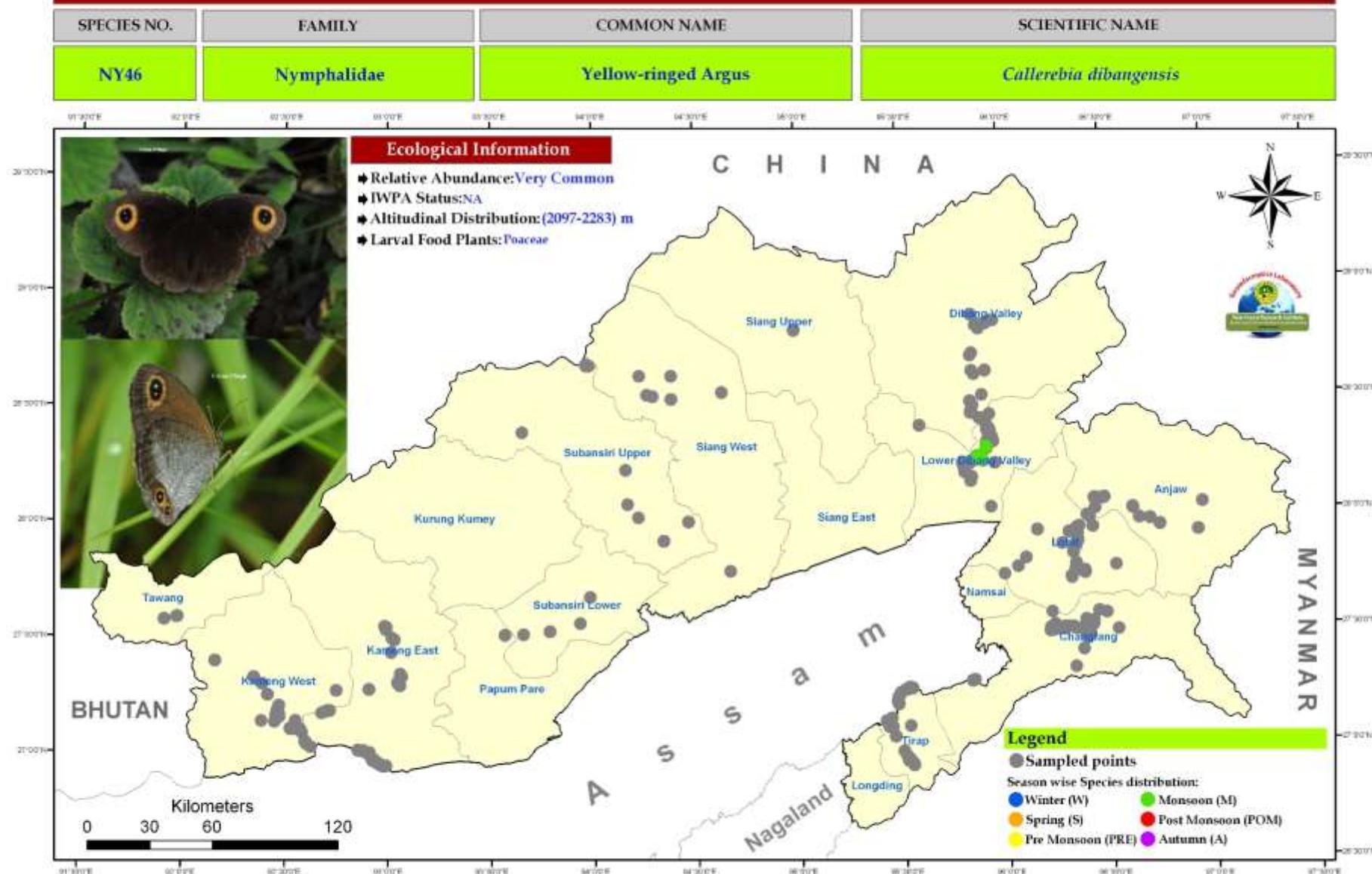
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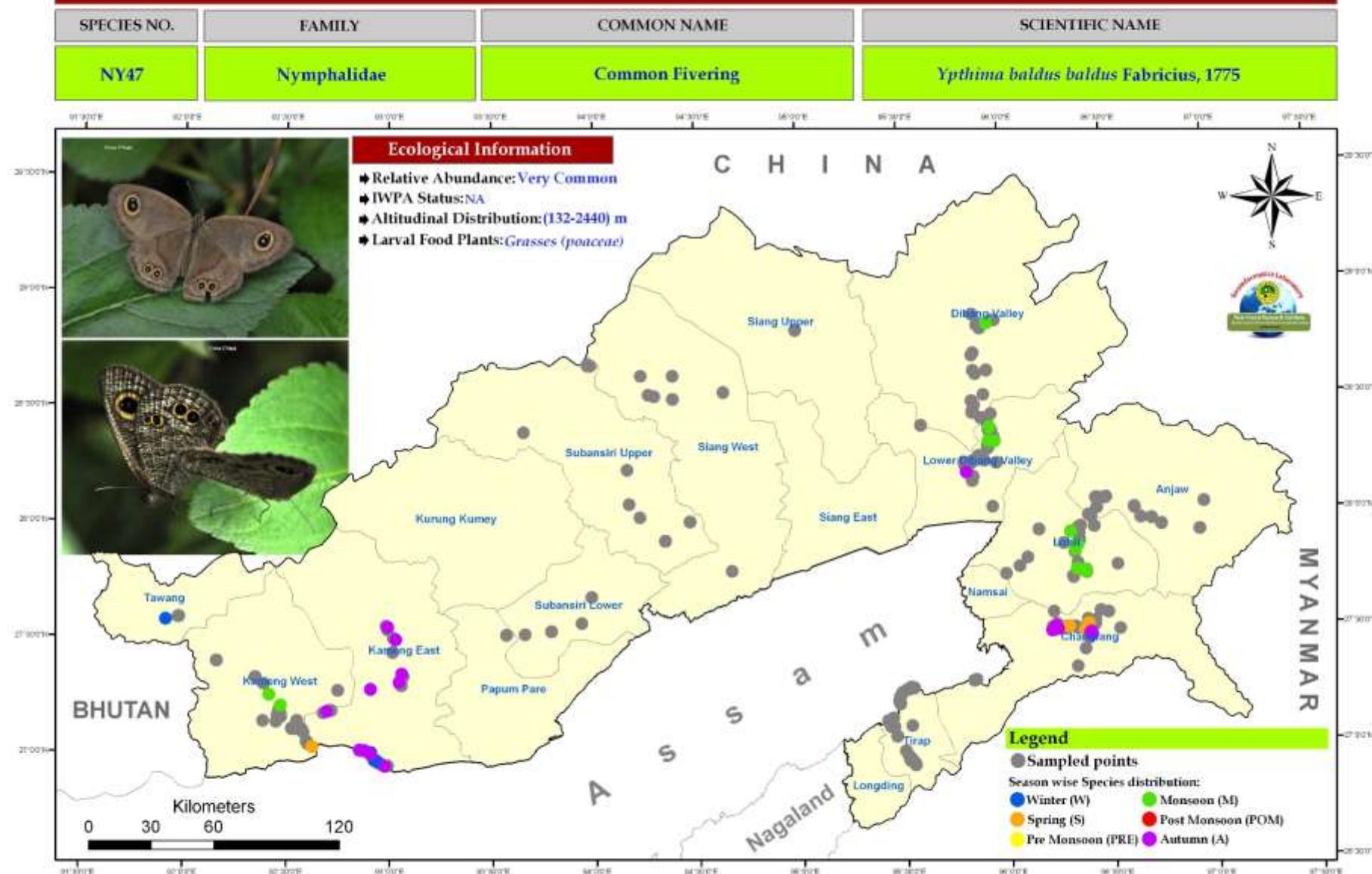
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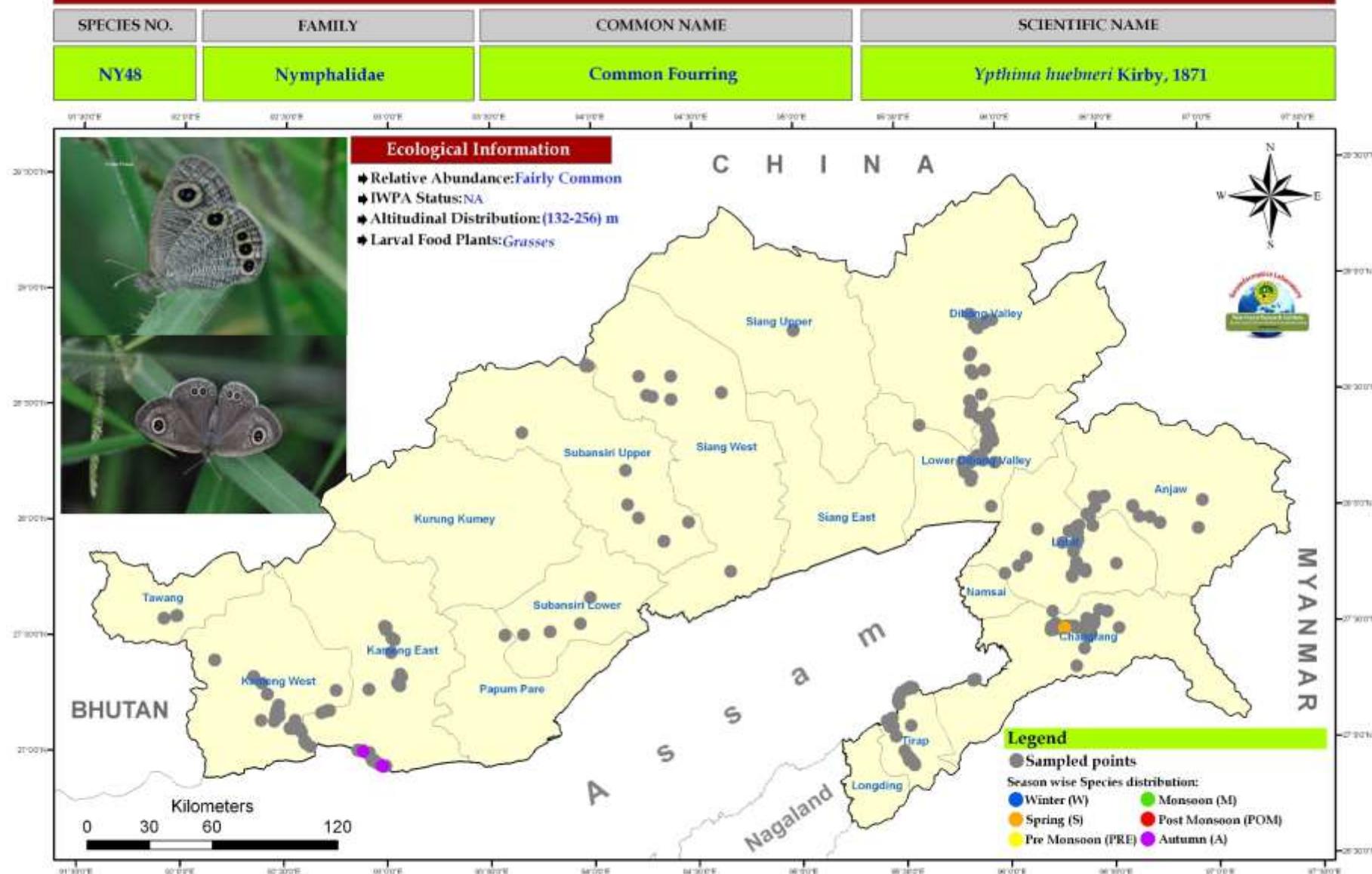
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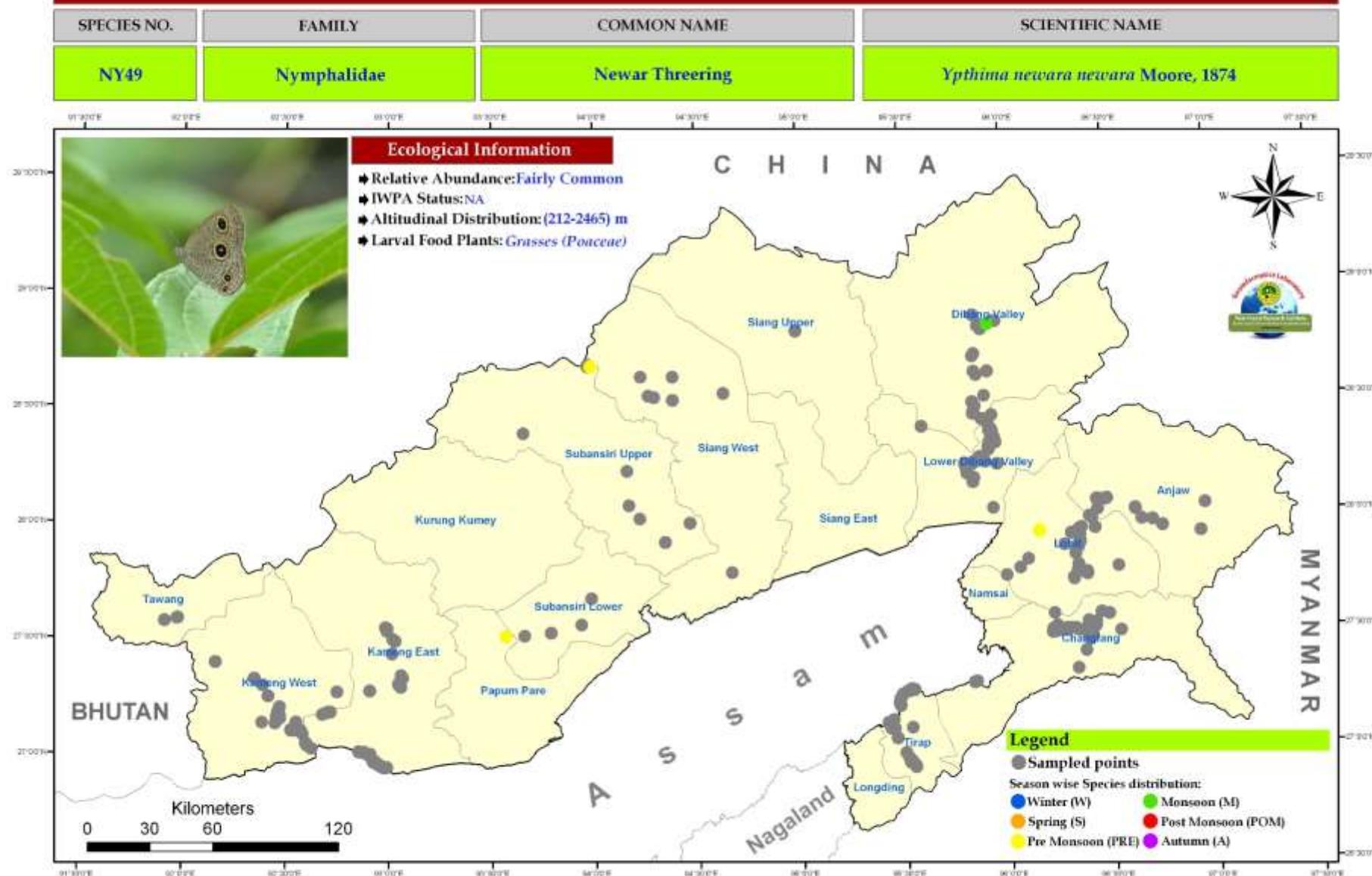
SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA



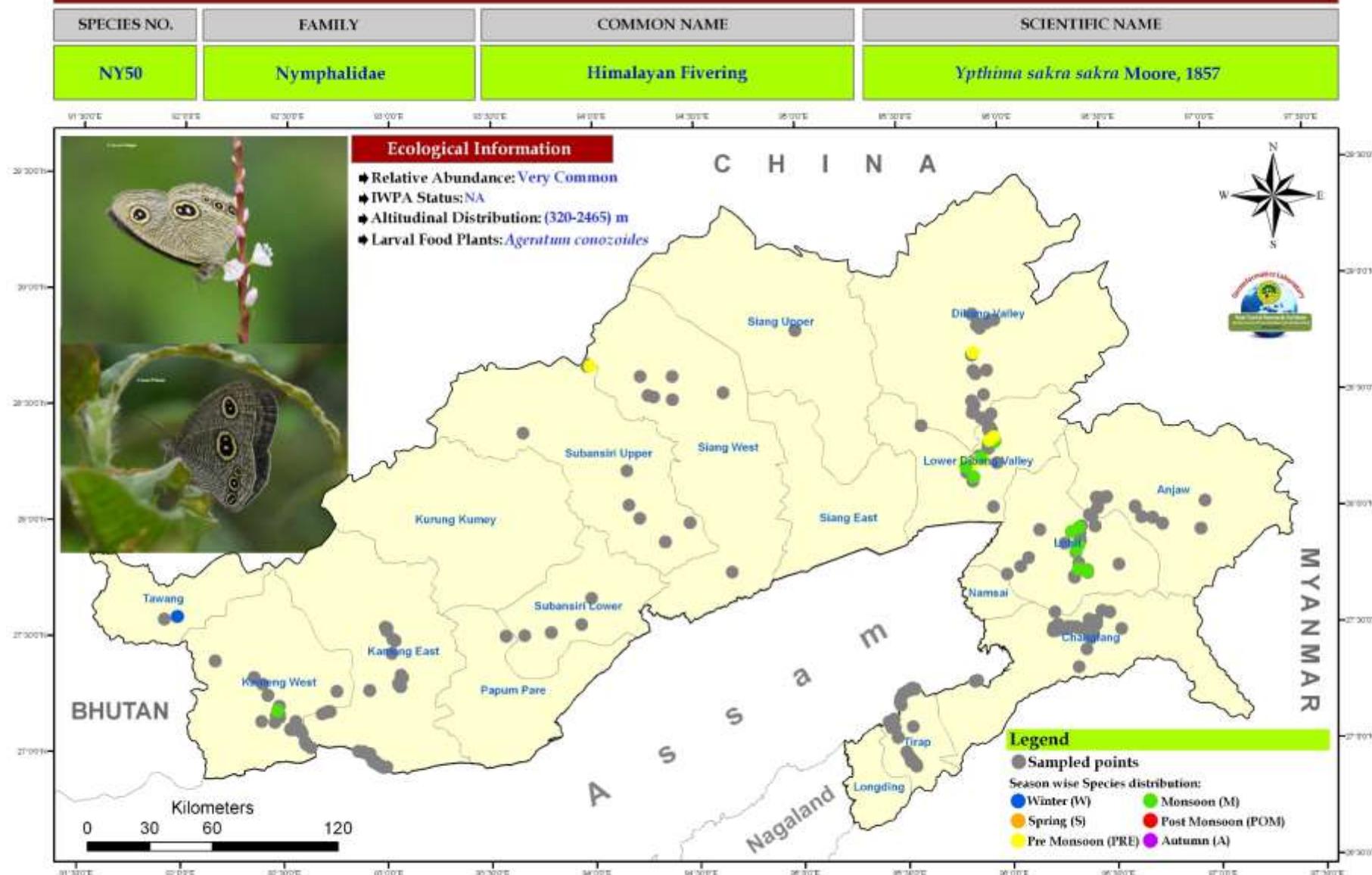
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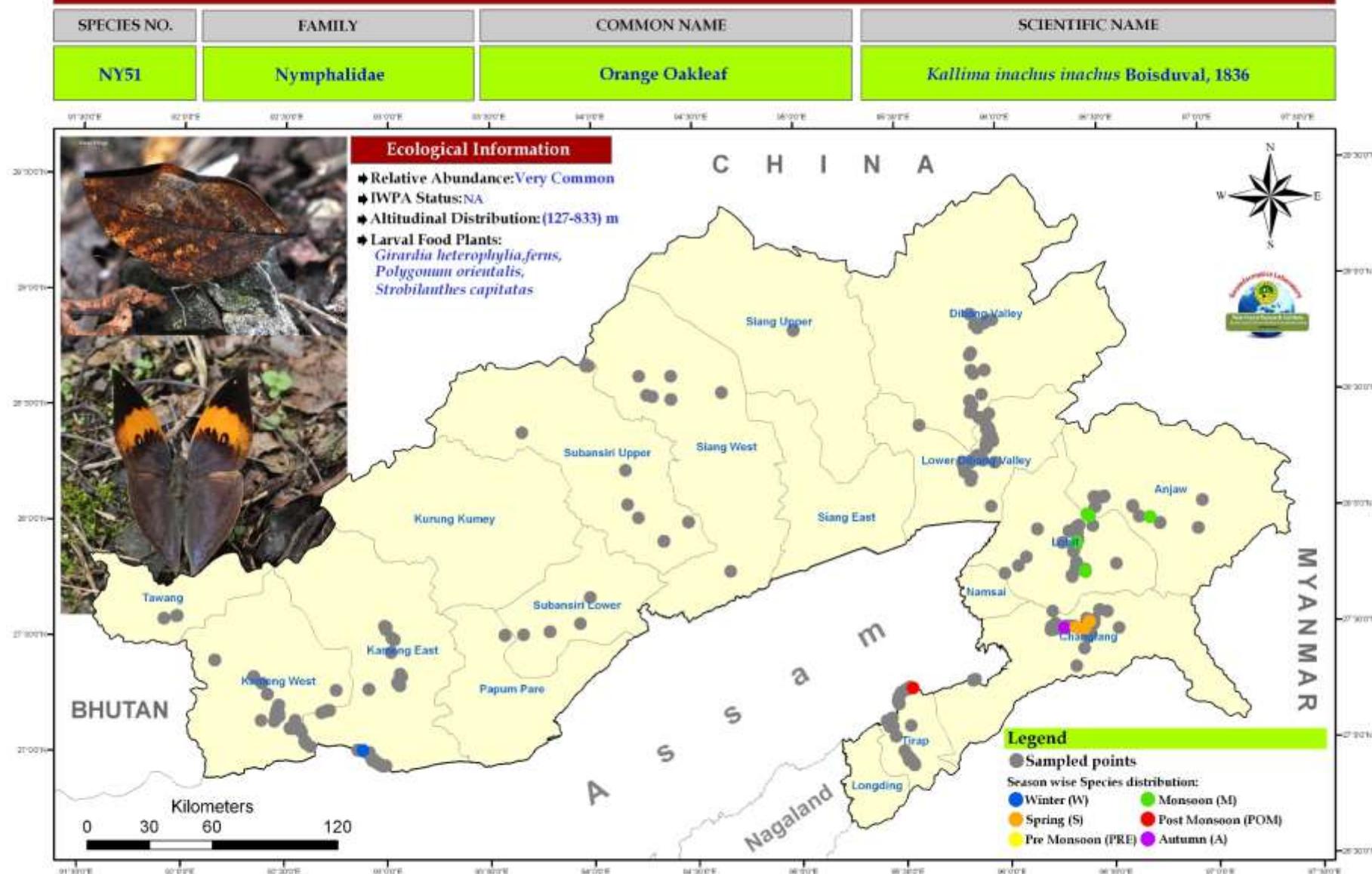
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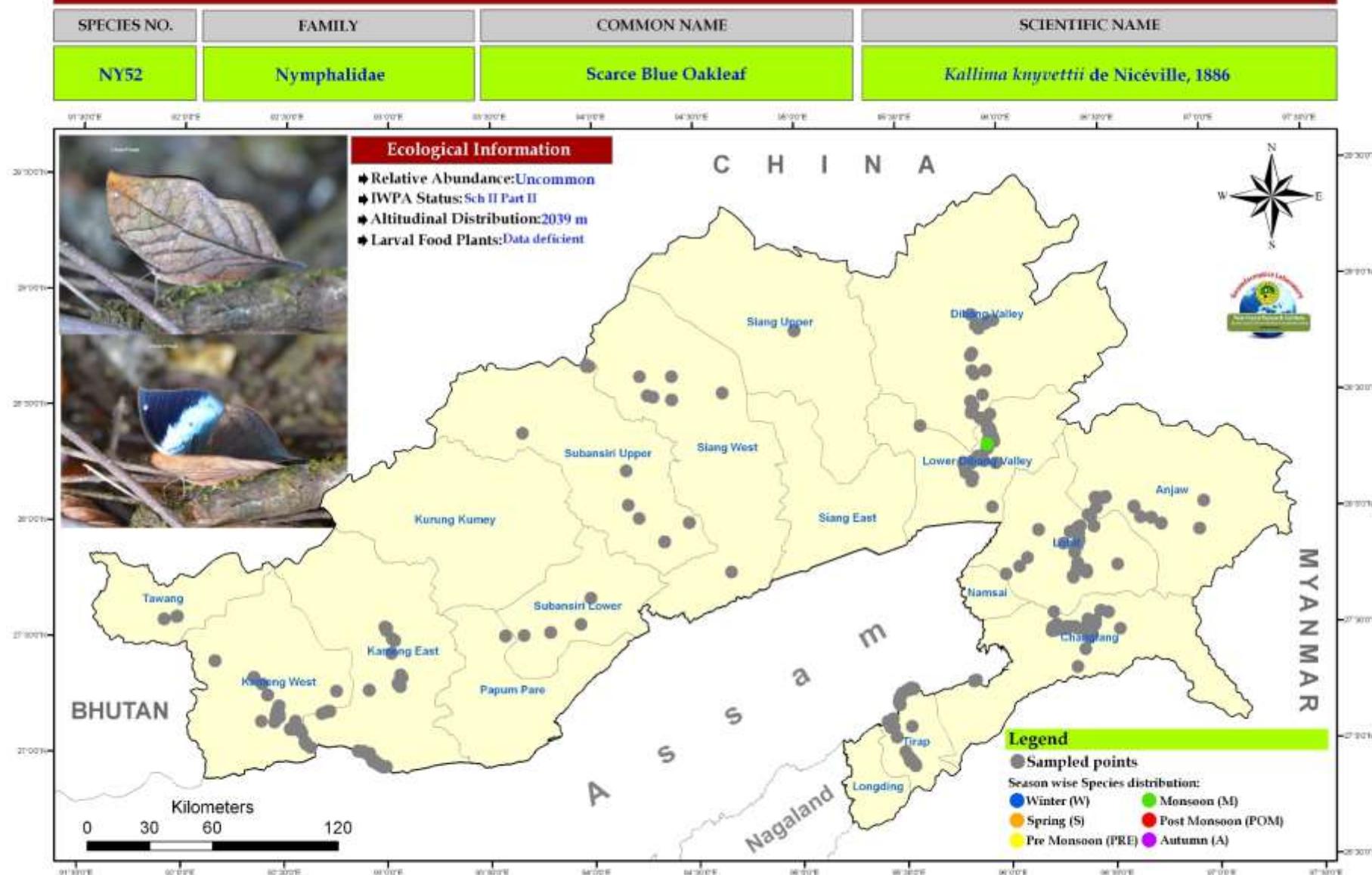
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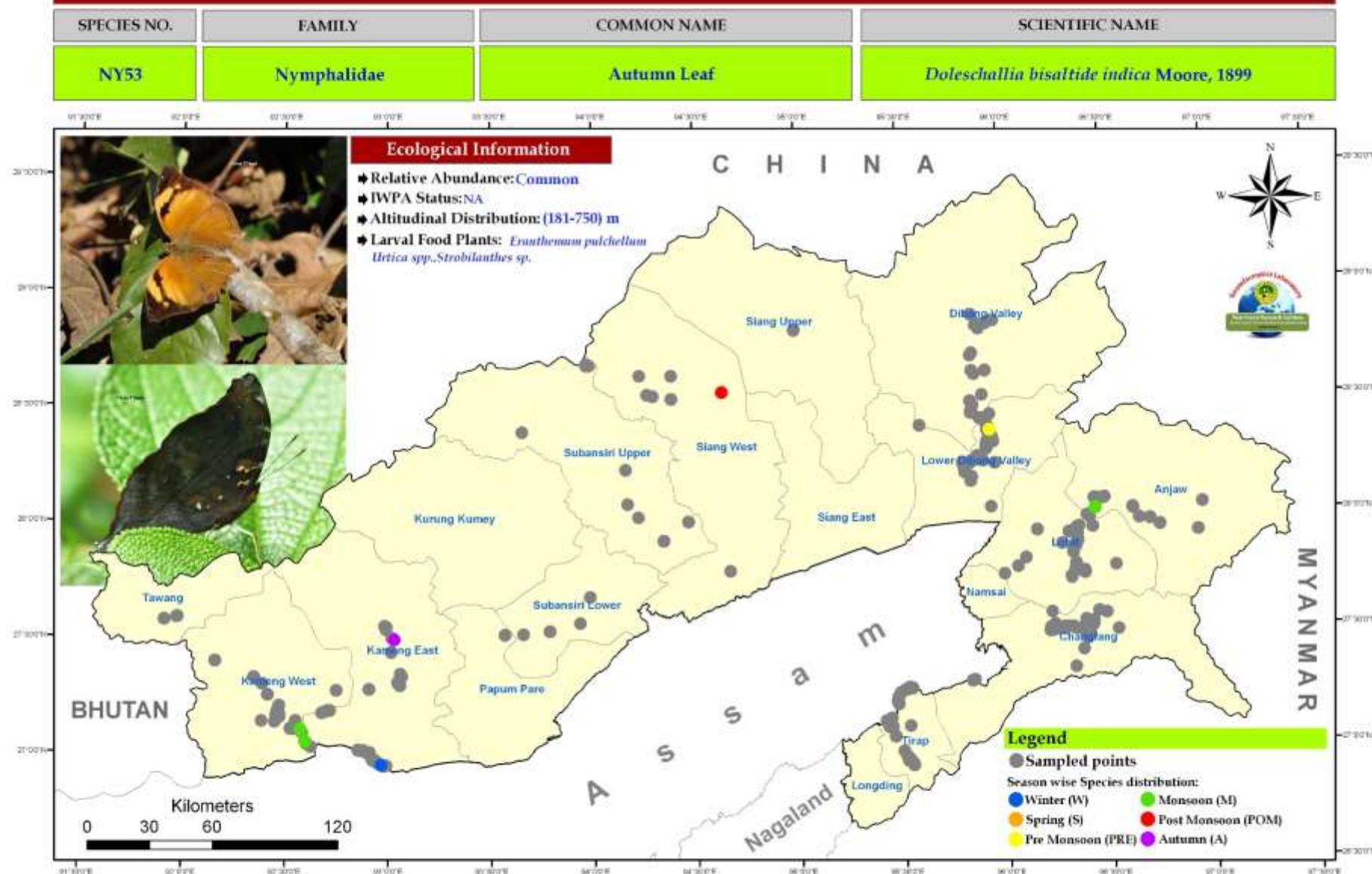
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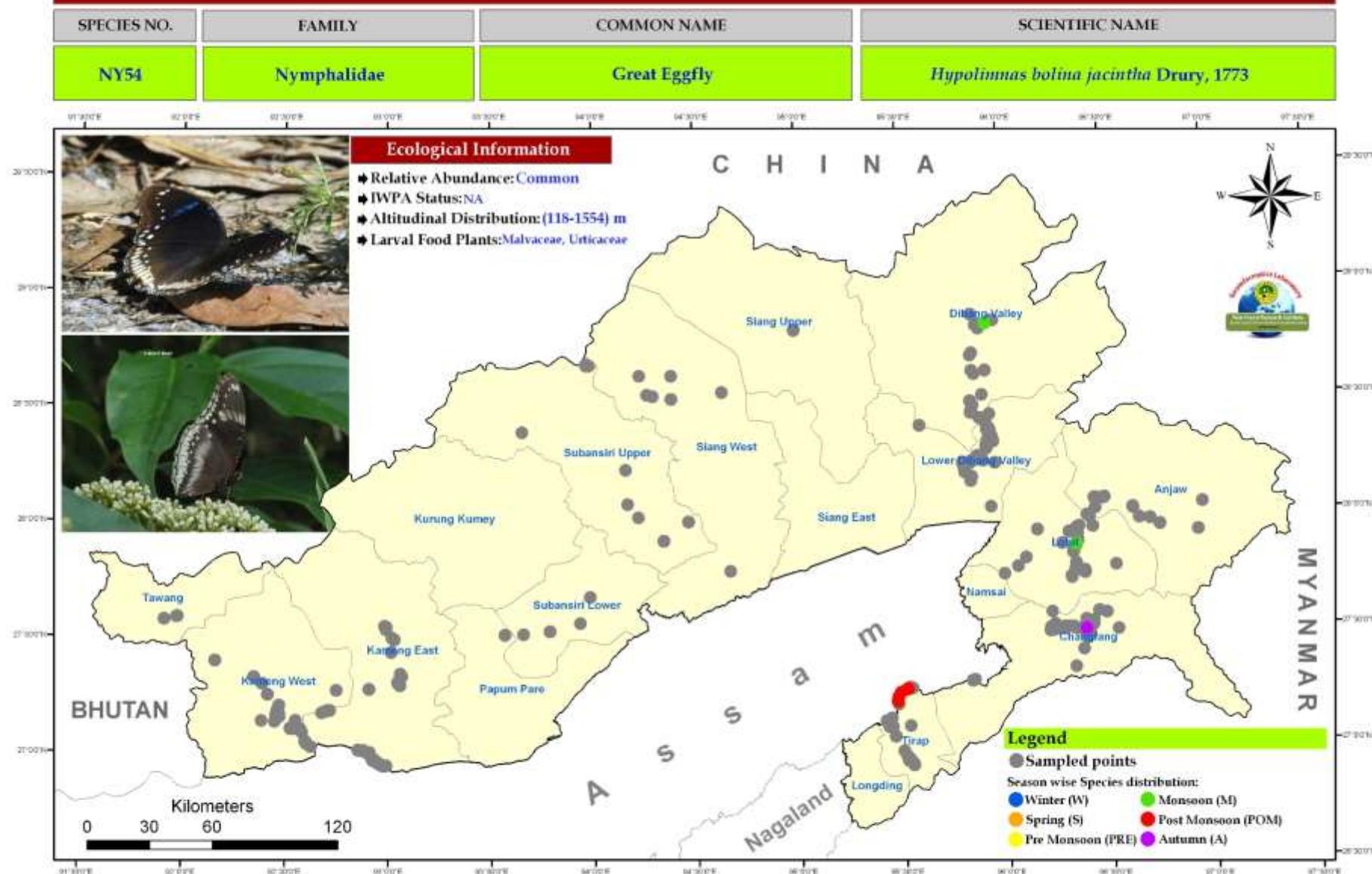
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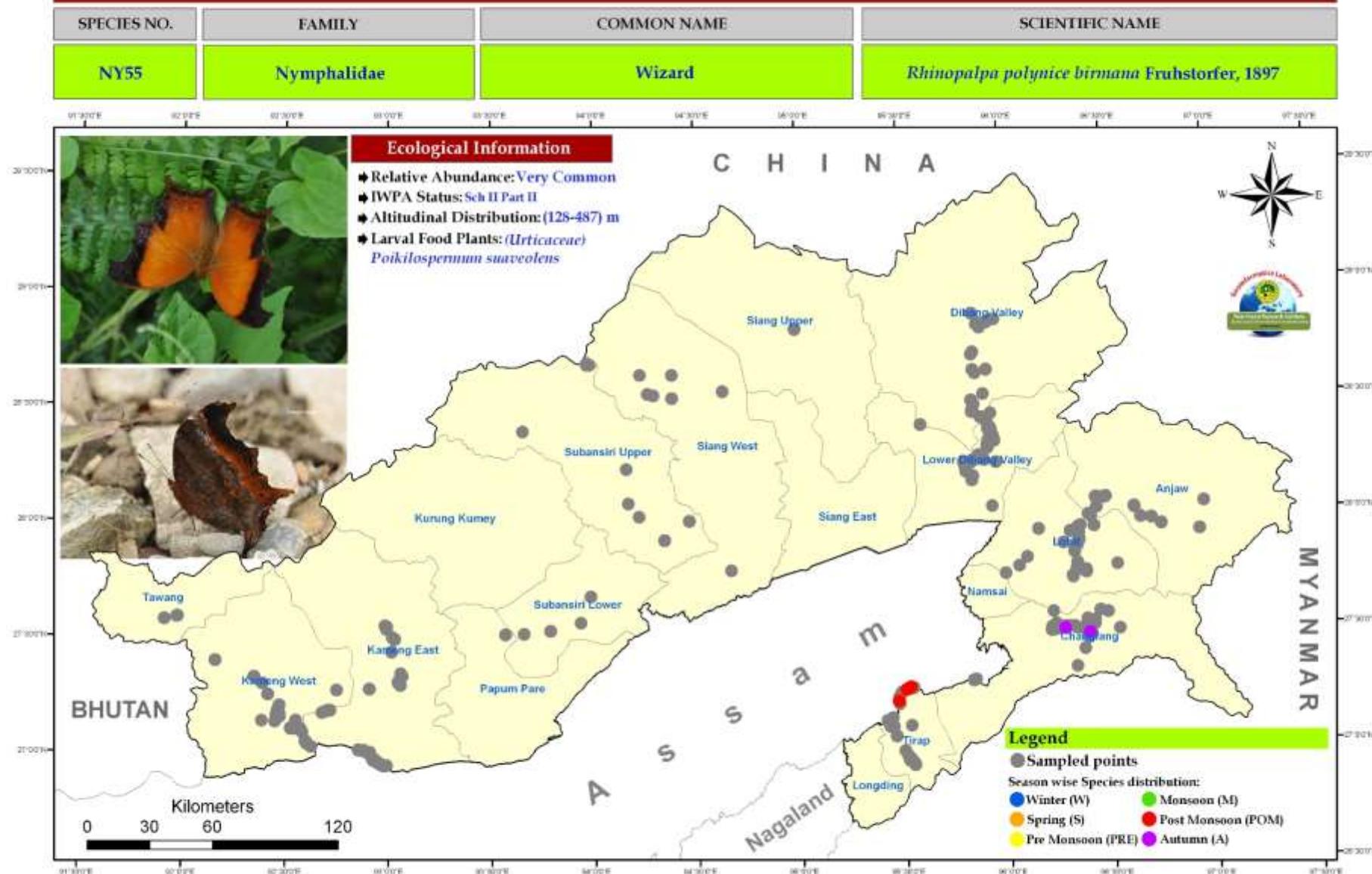
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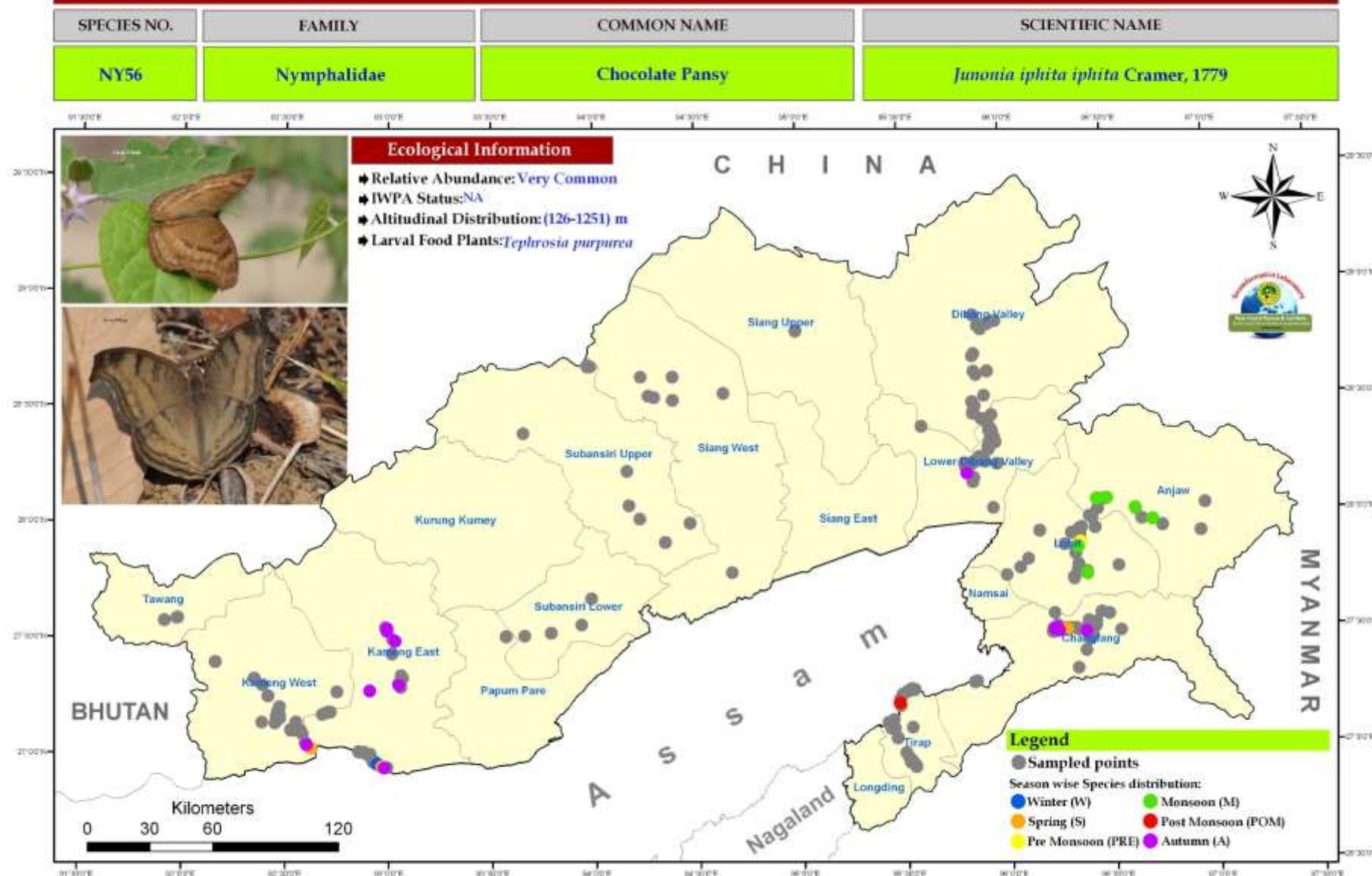
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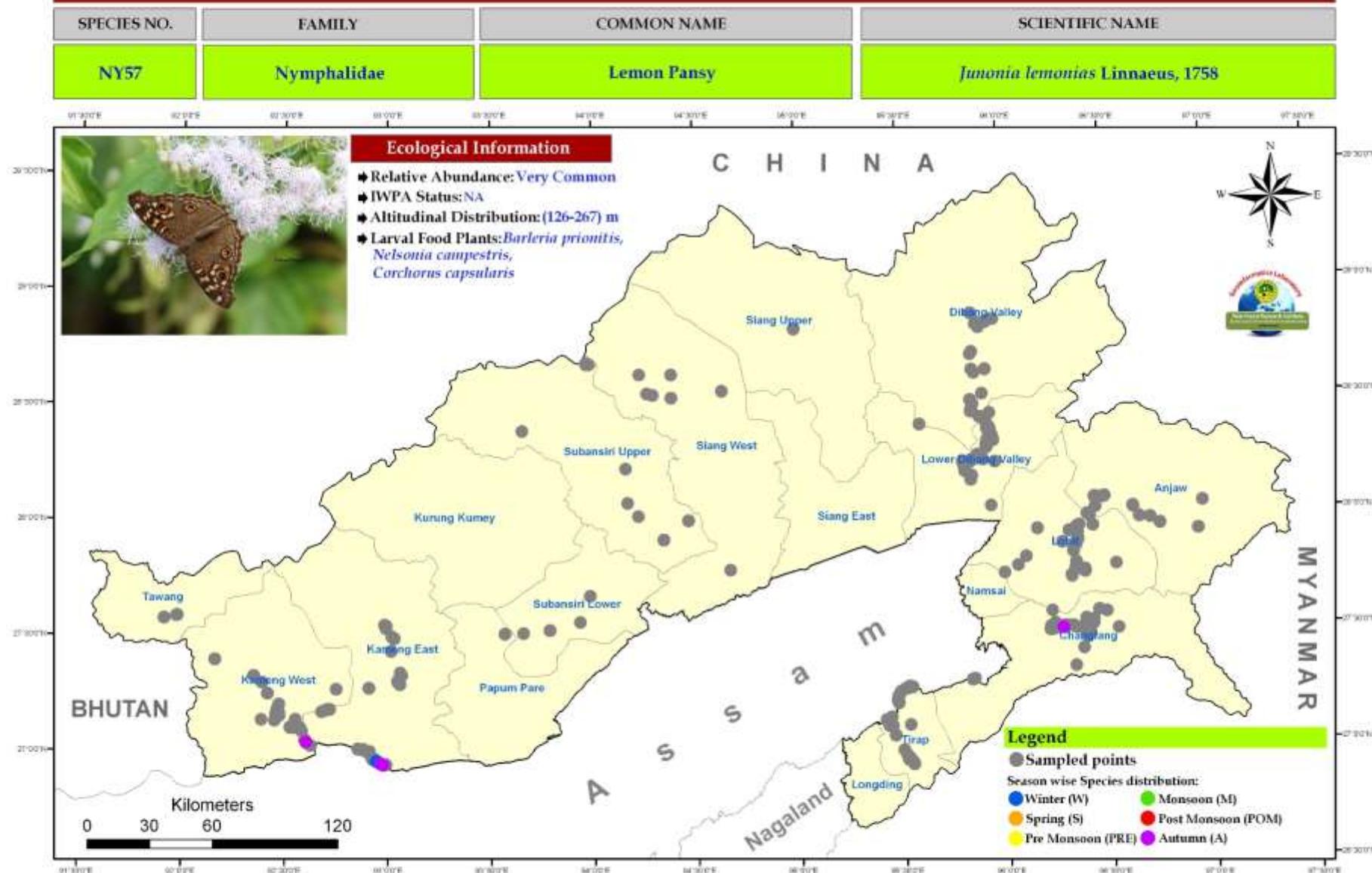
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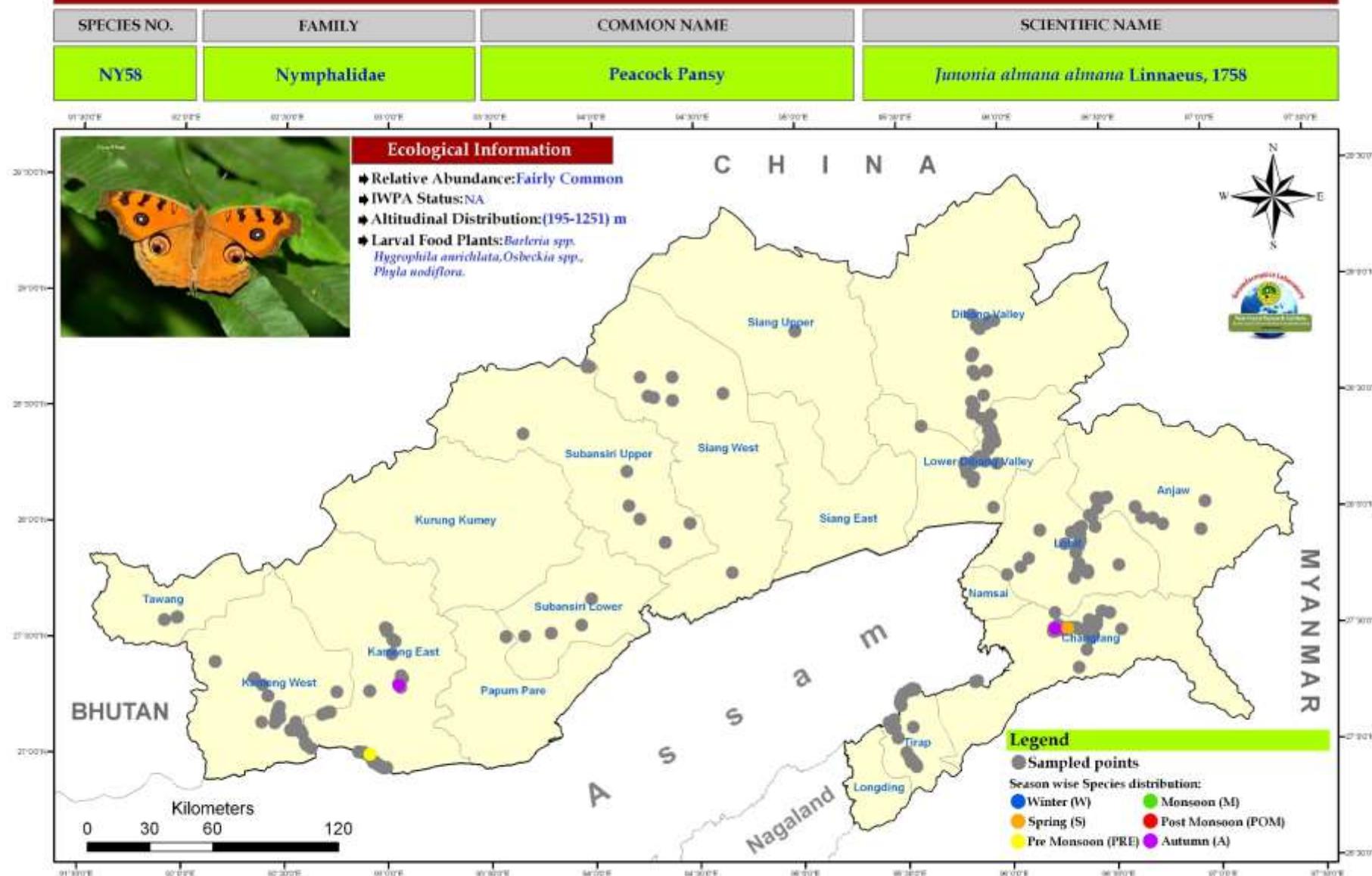
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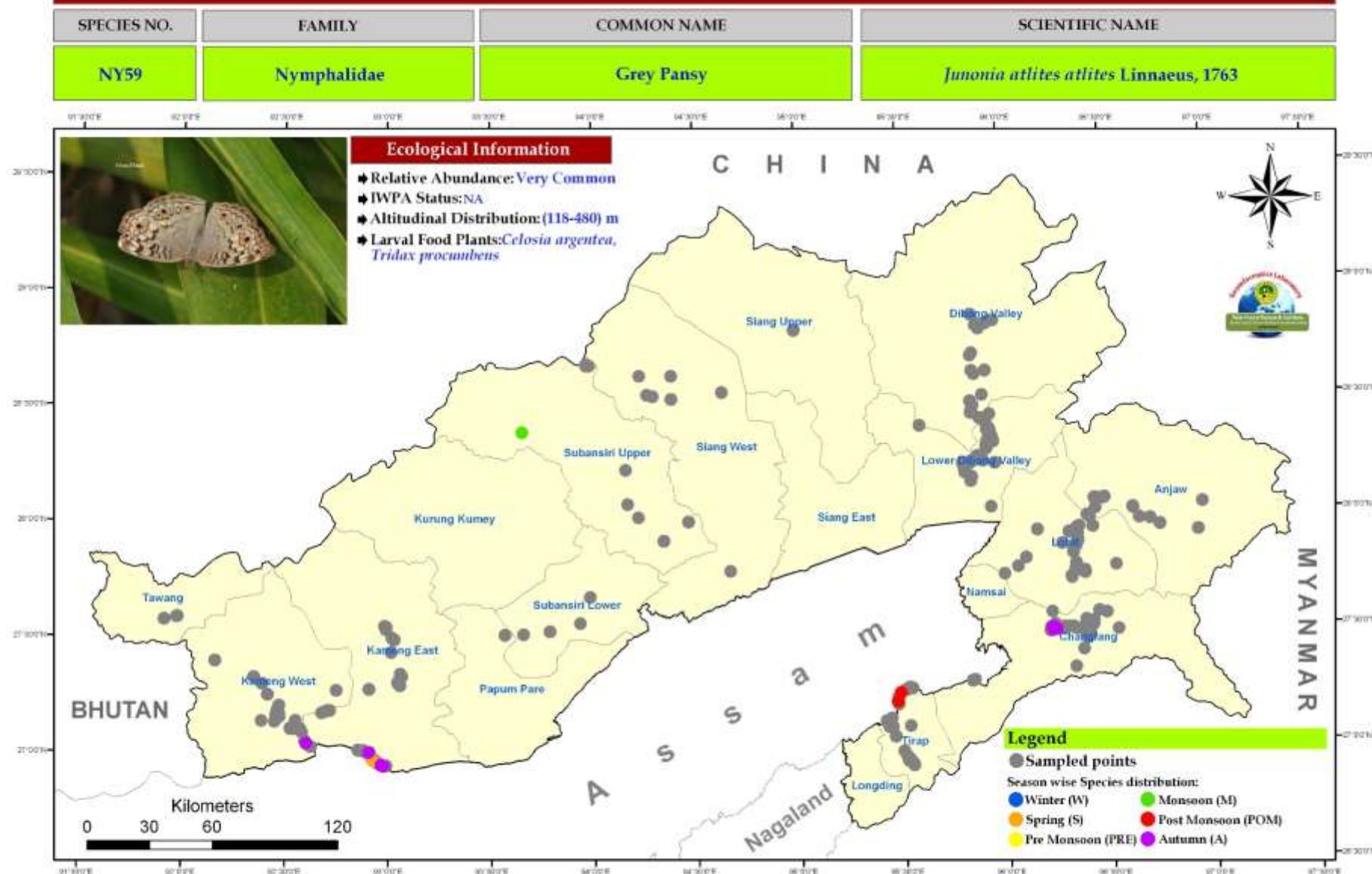
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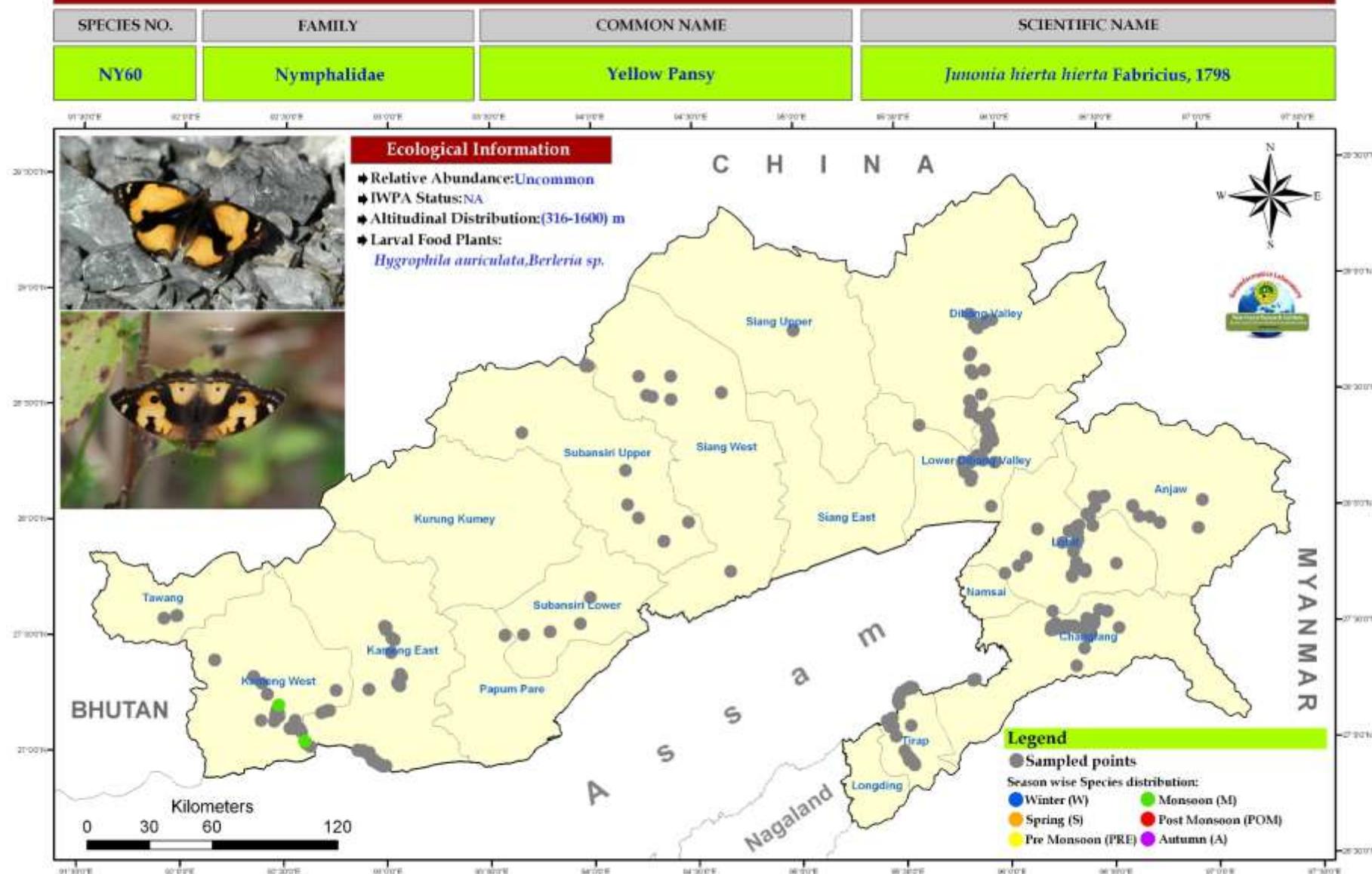
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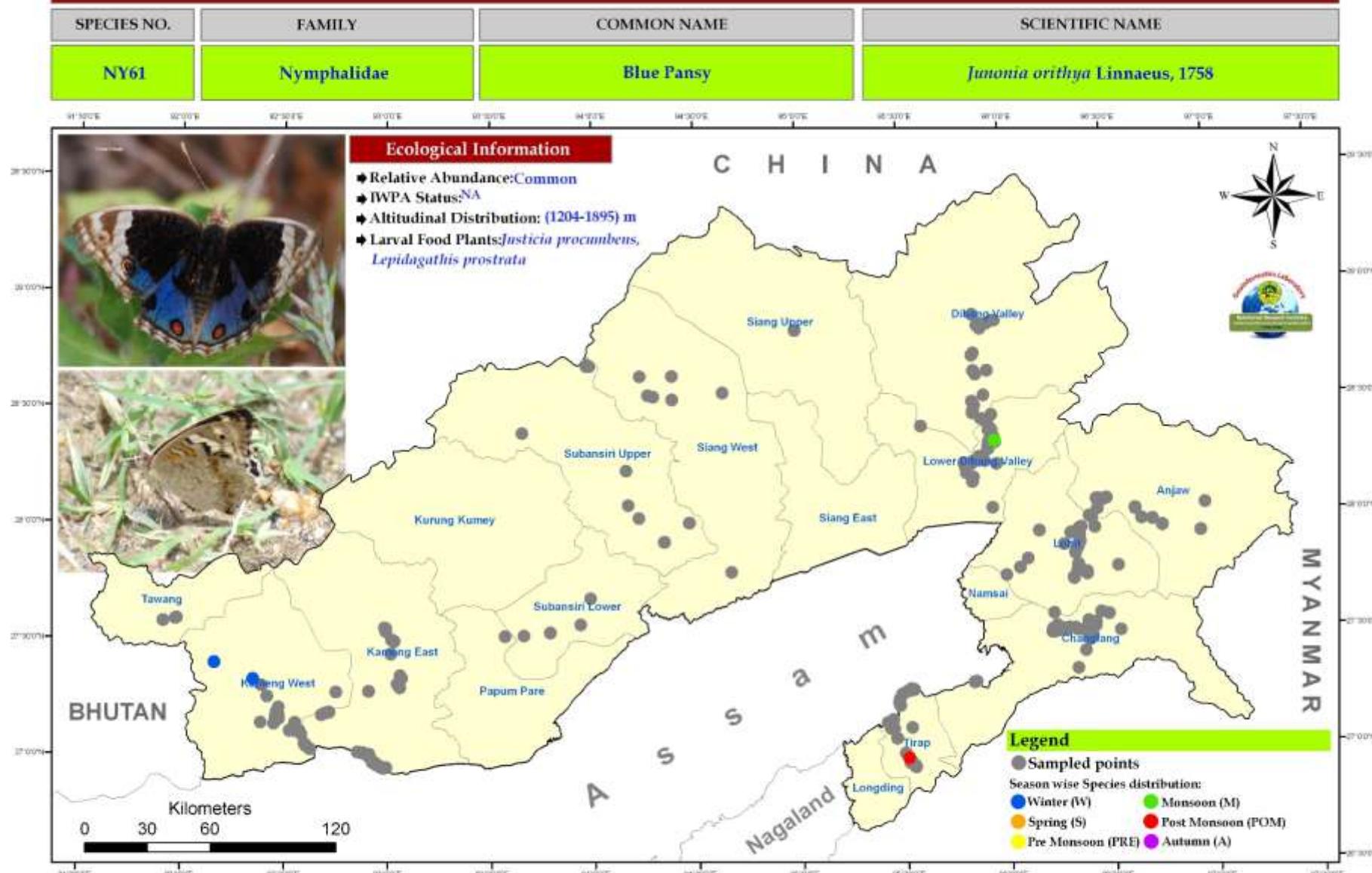
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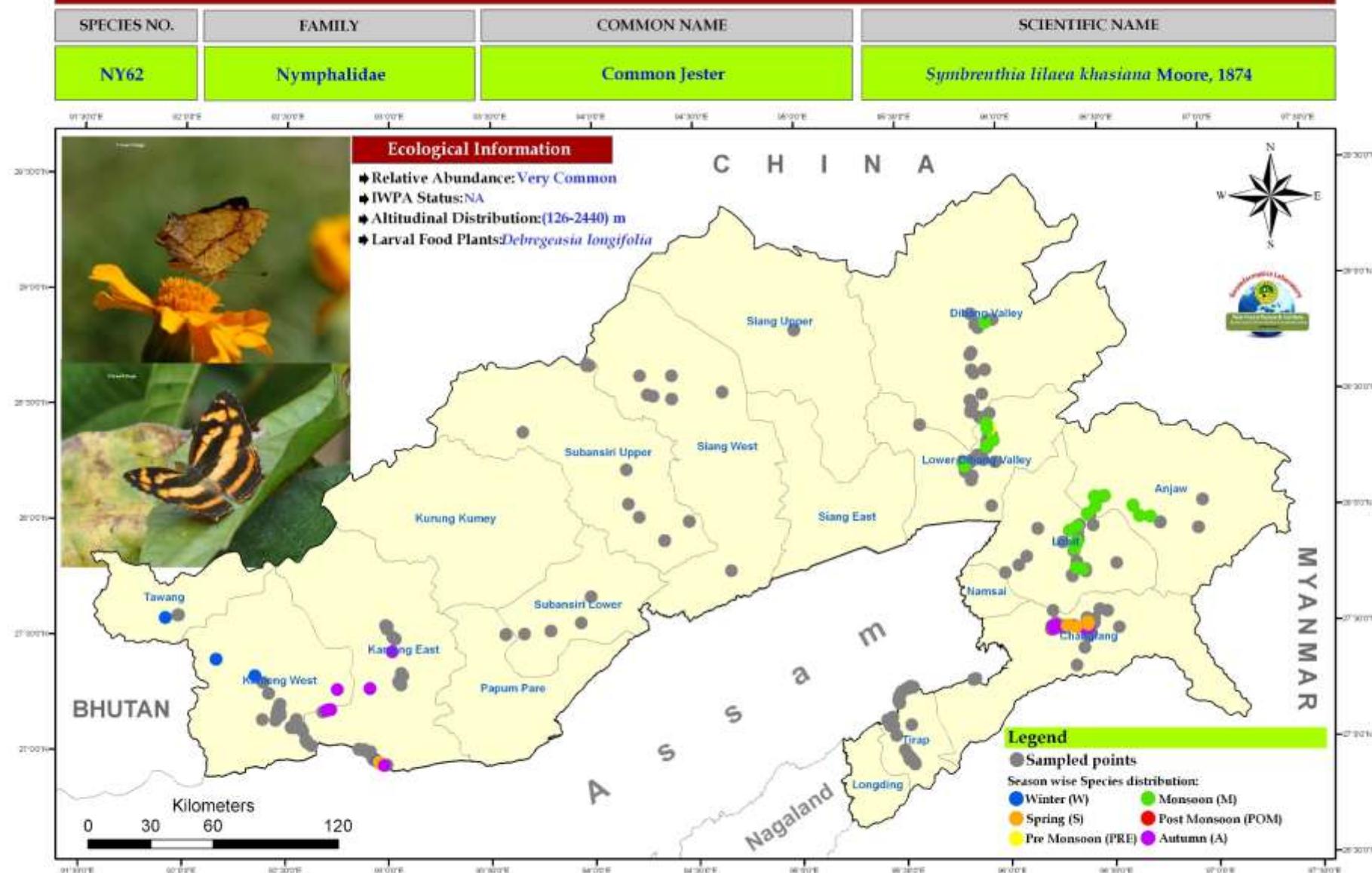
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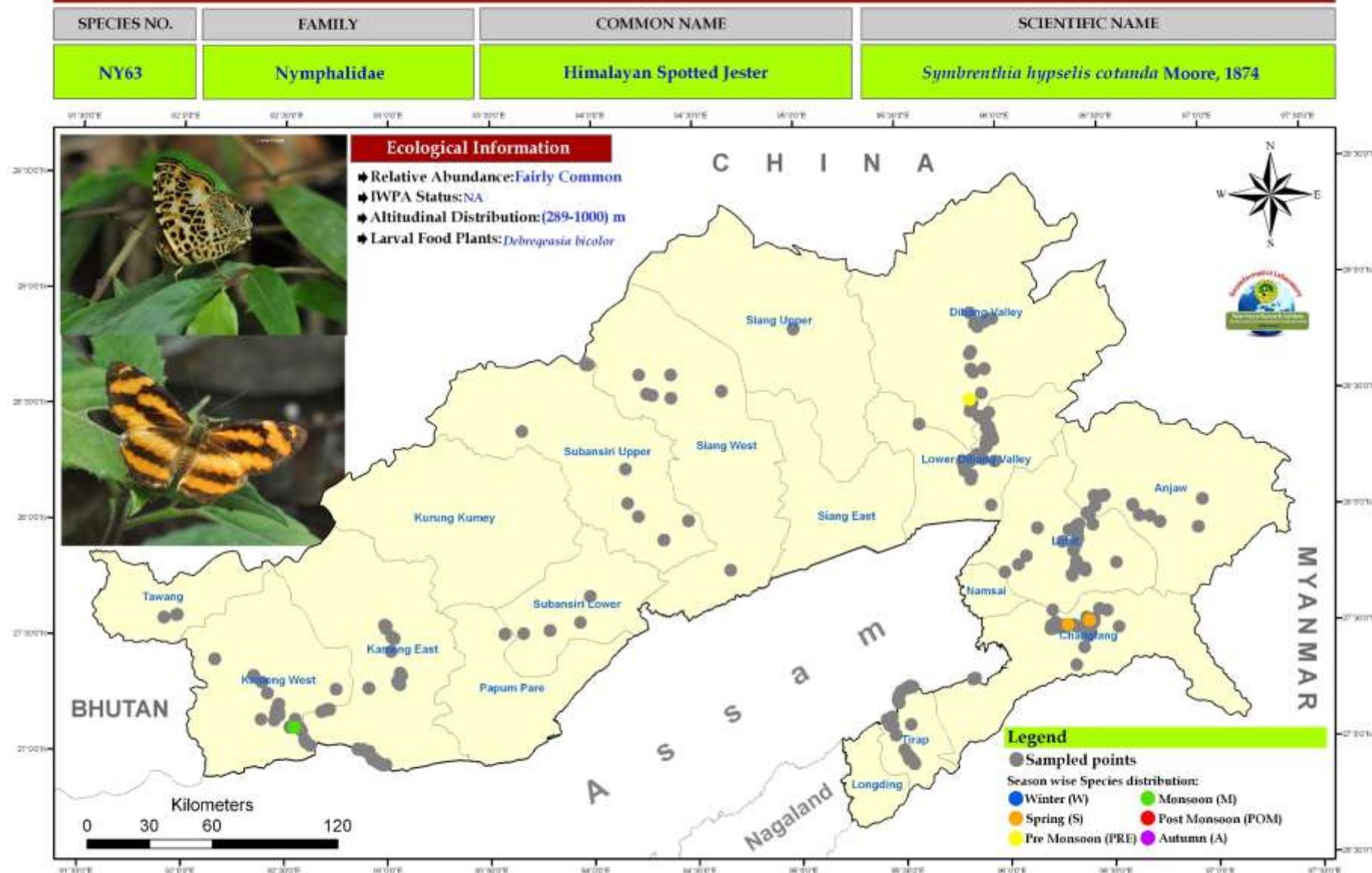
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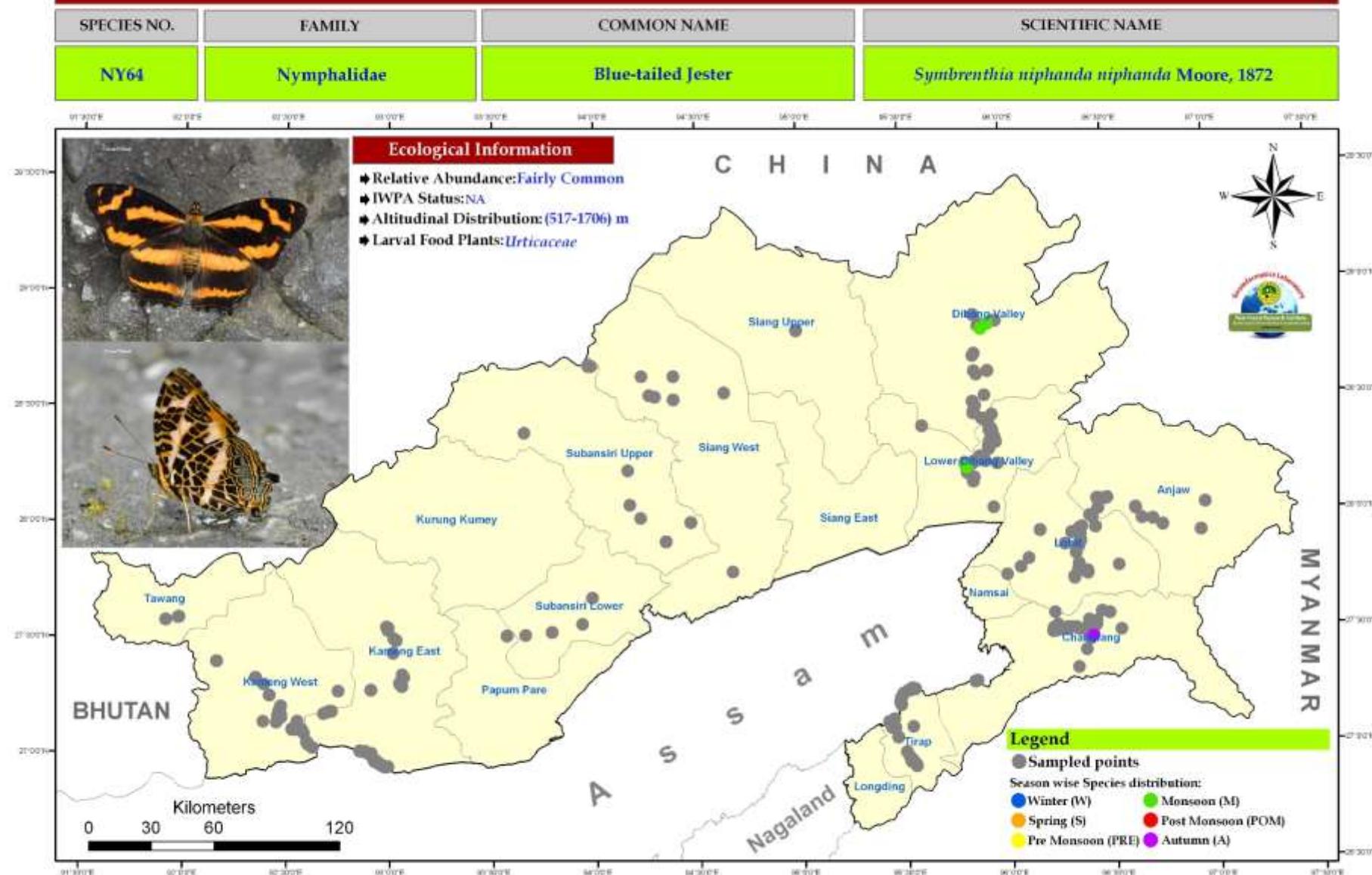
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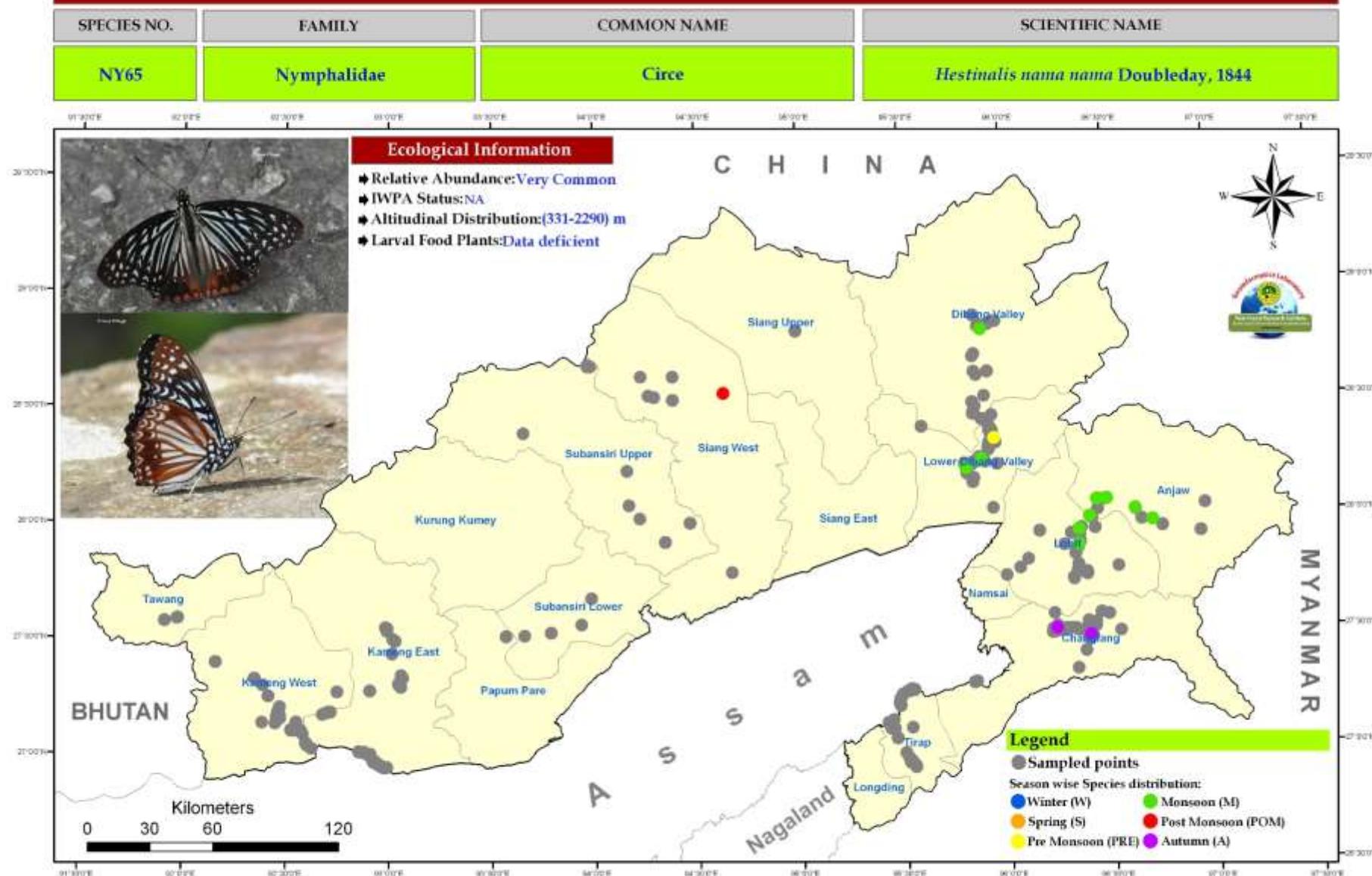
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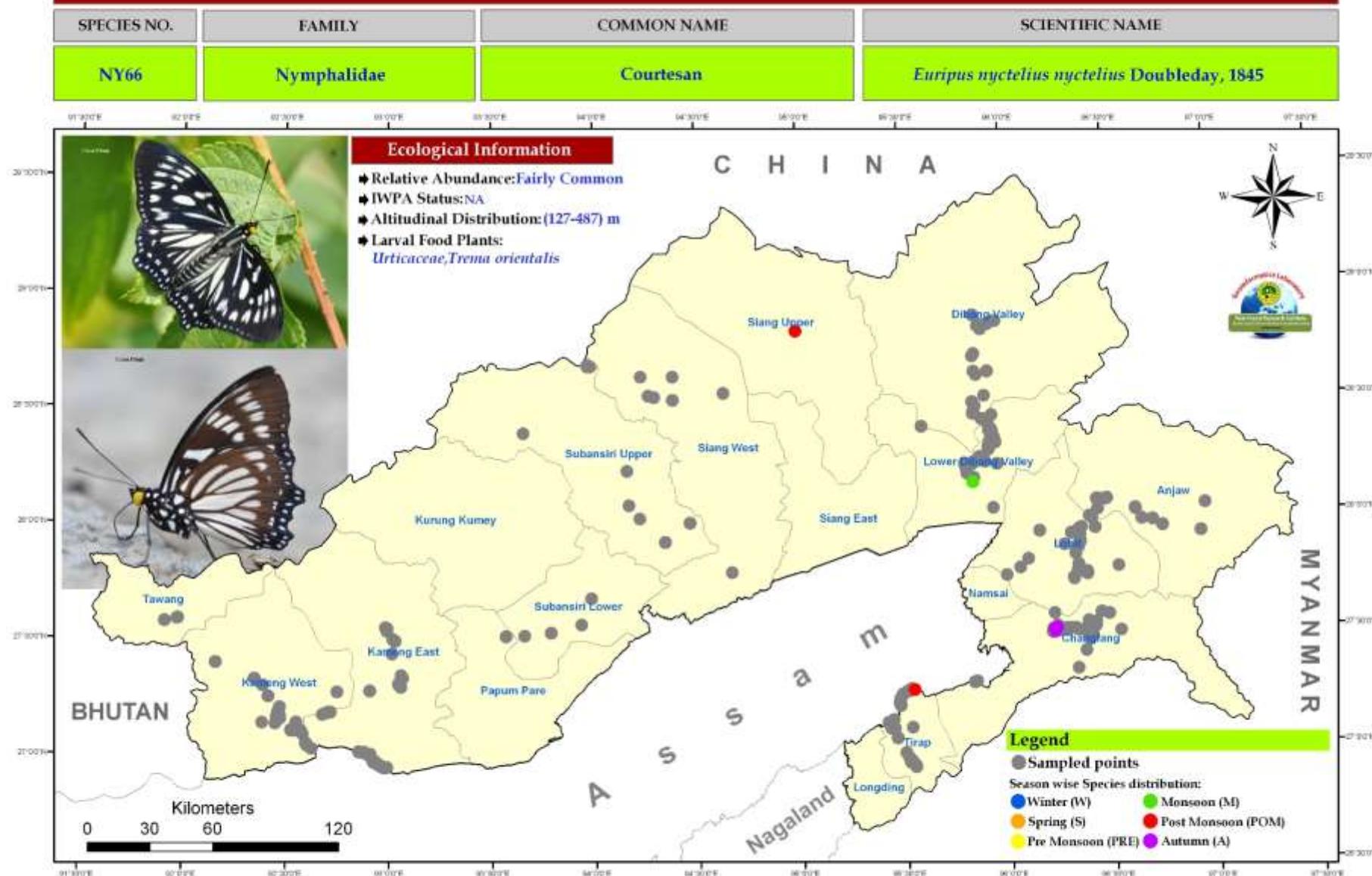
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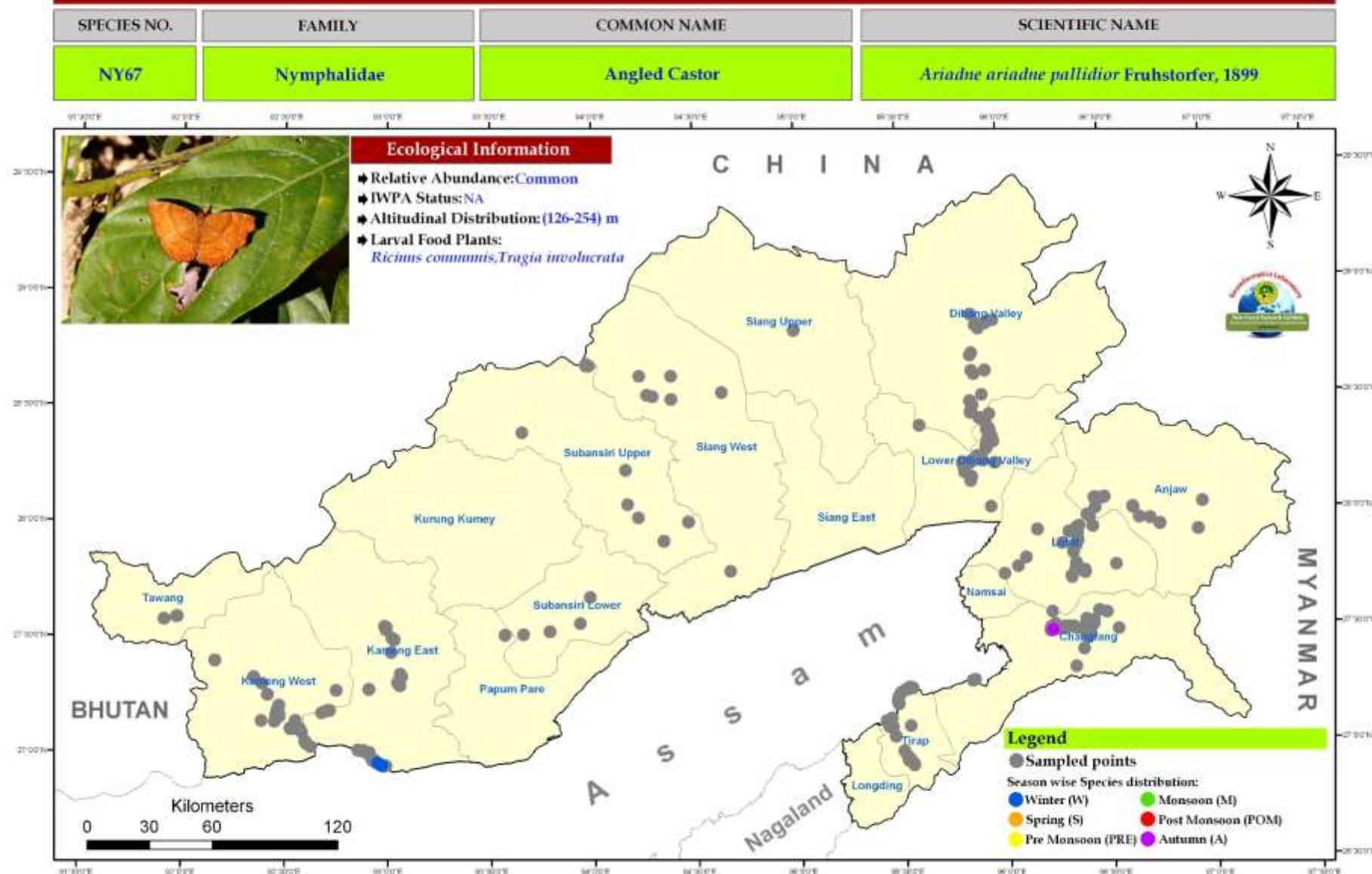
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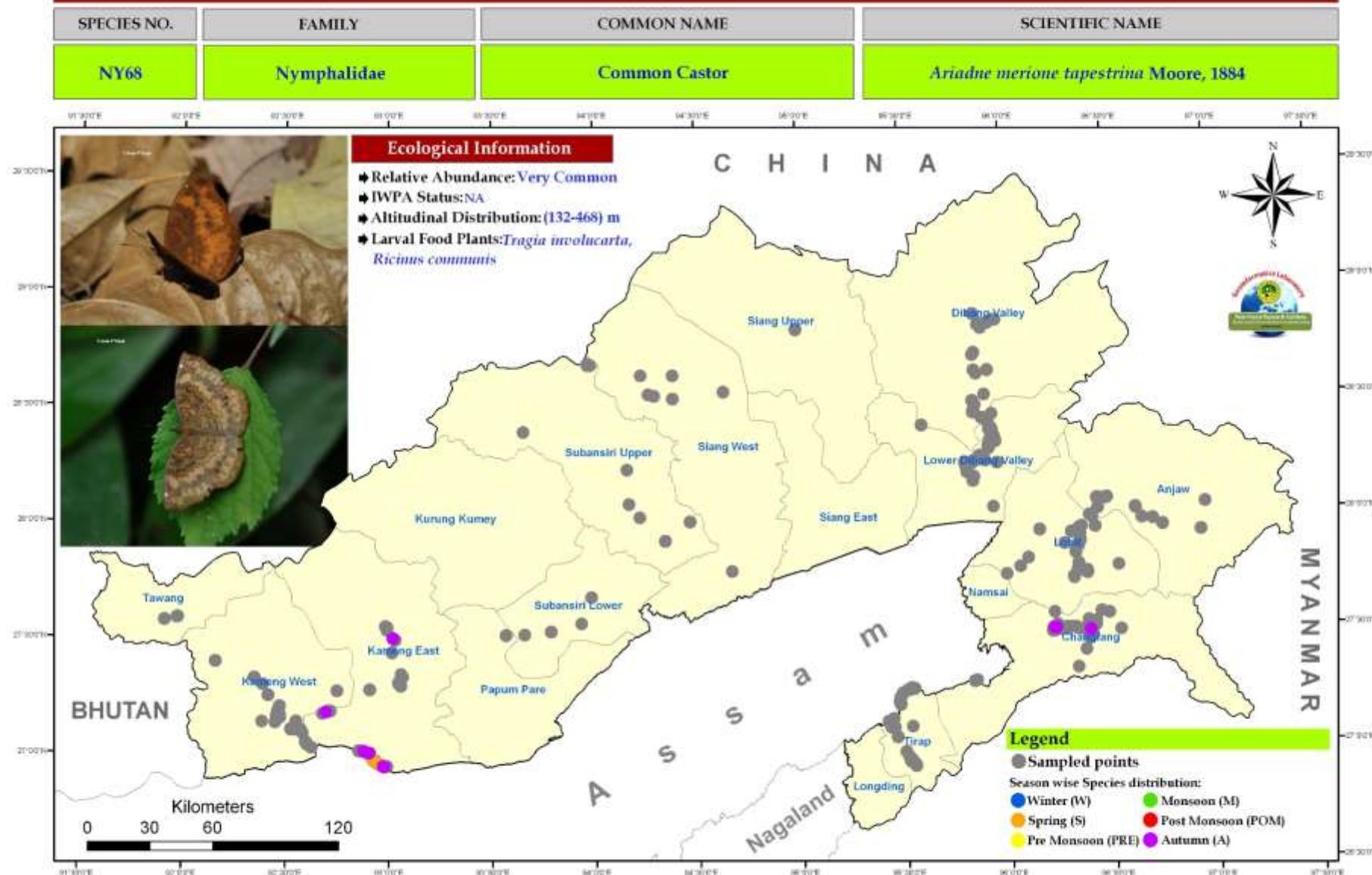
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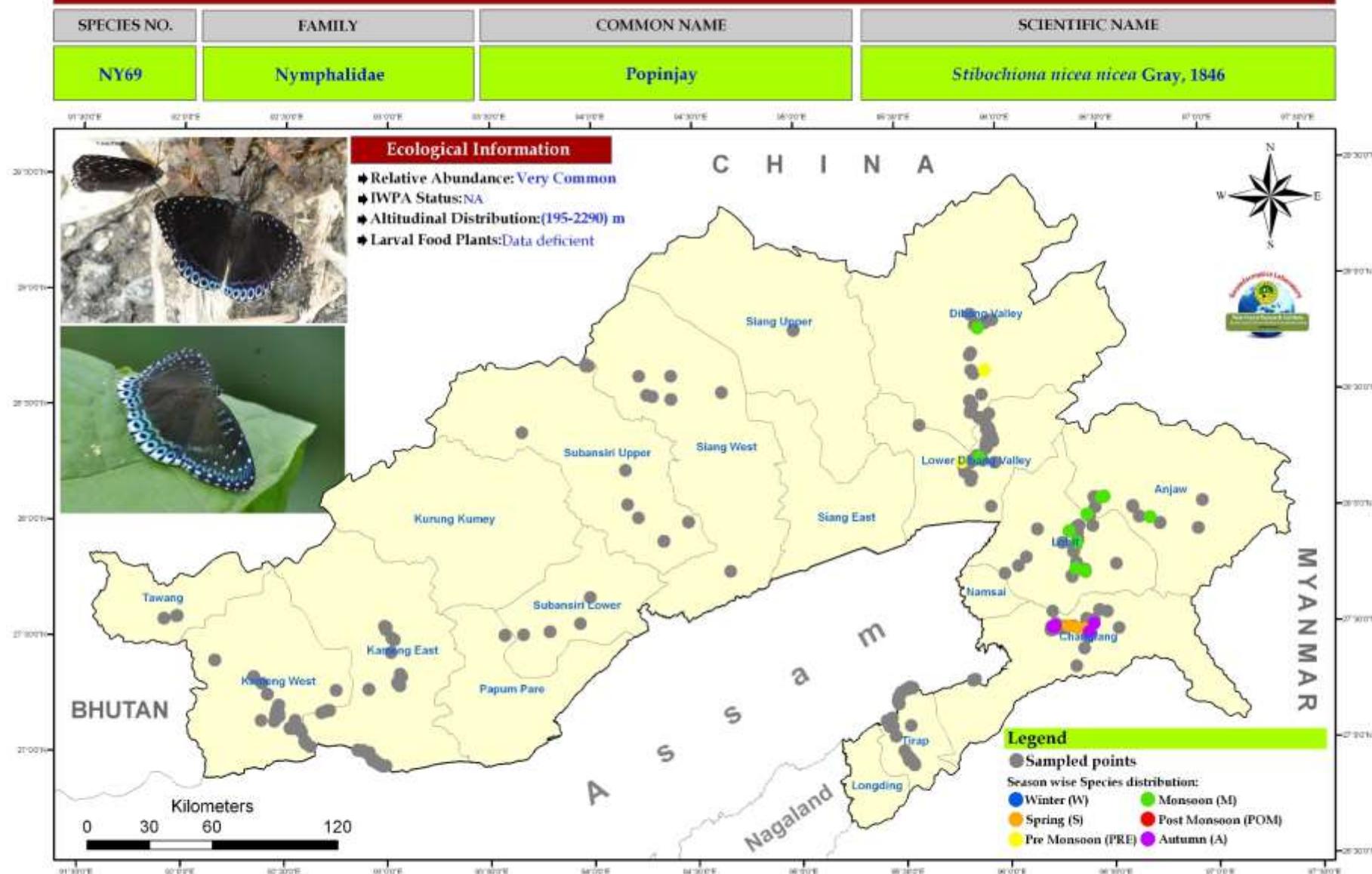
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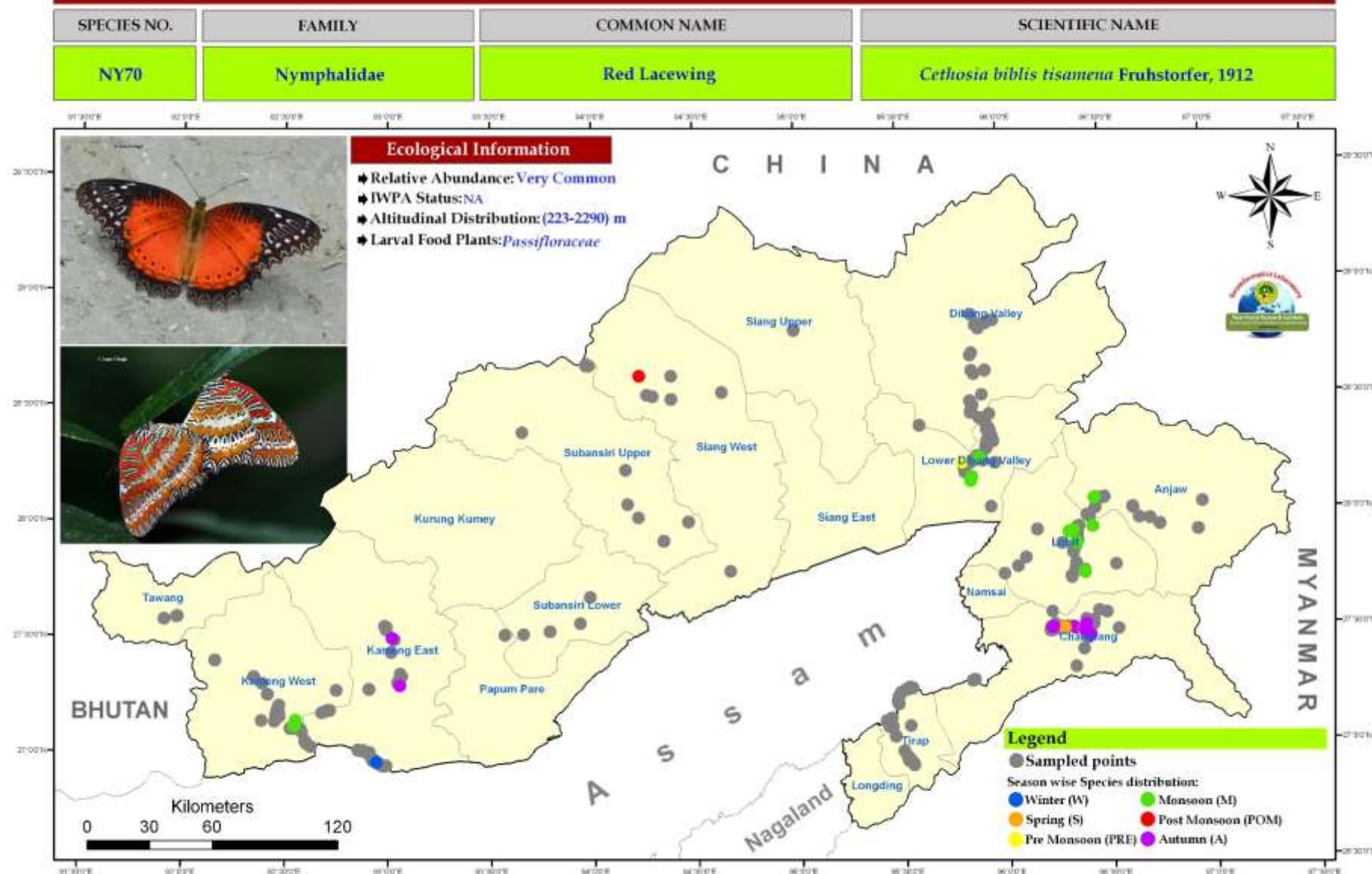
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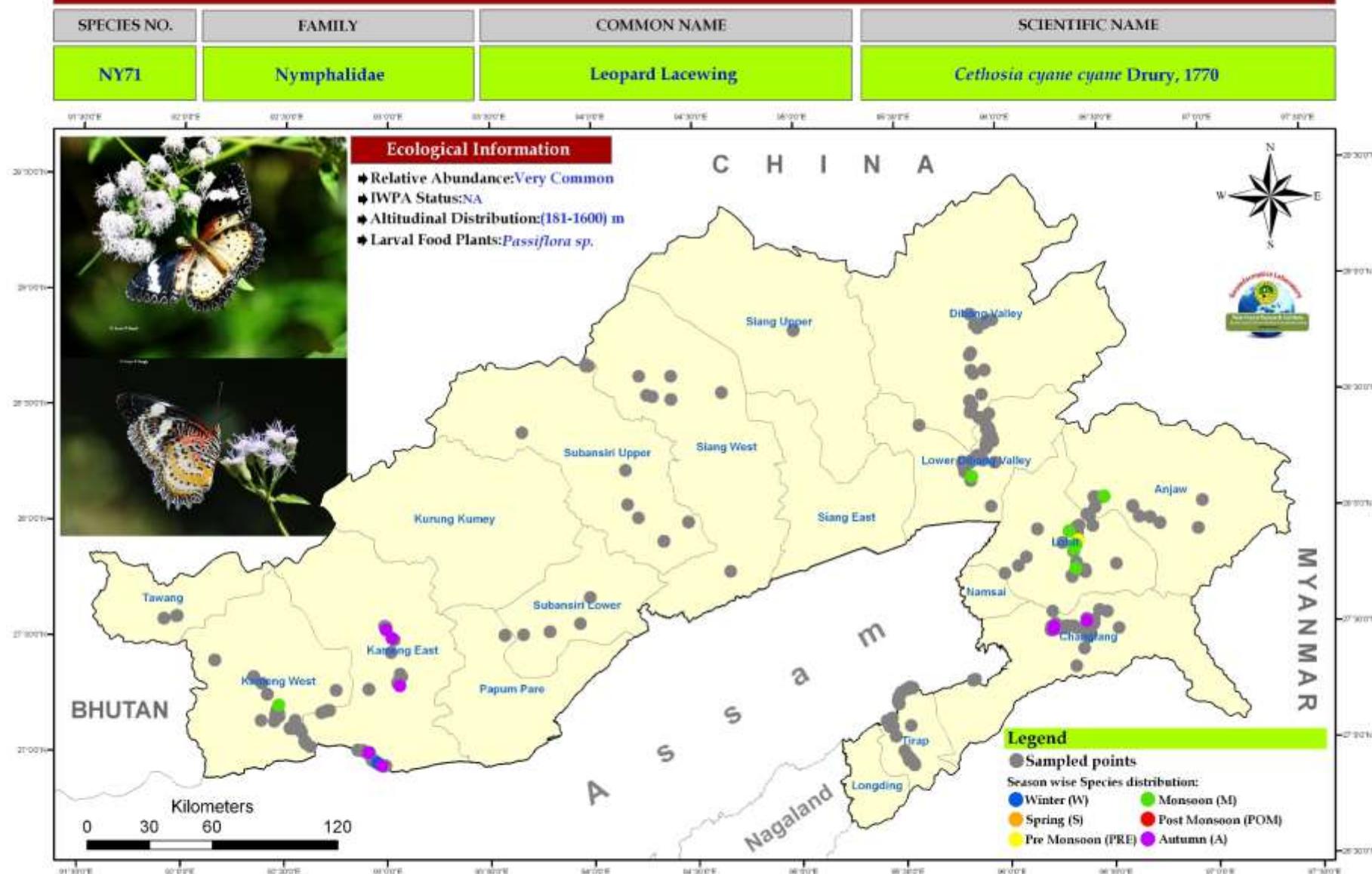
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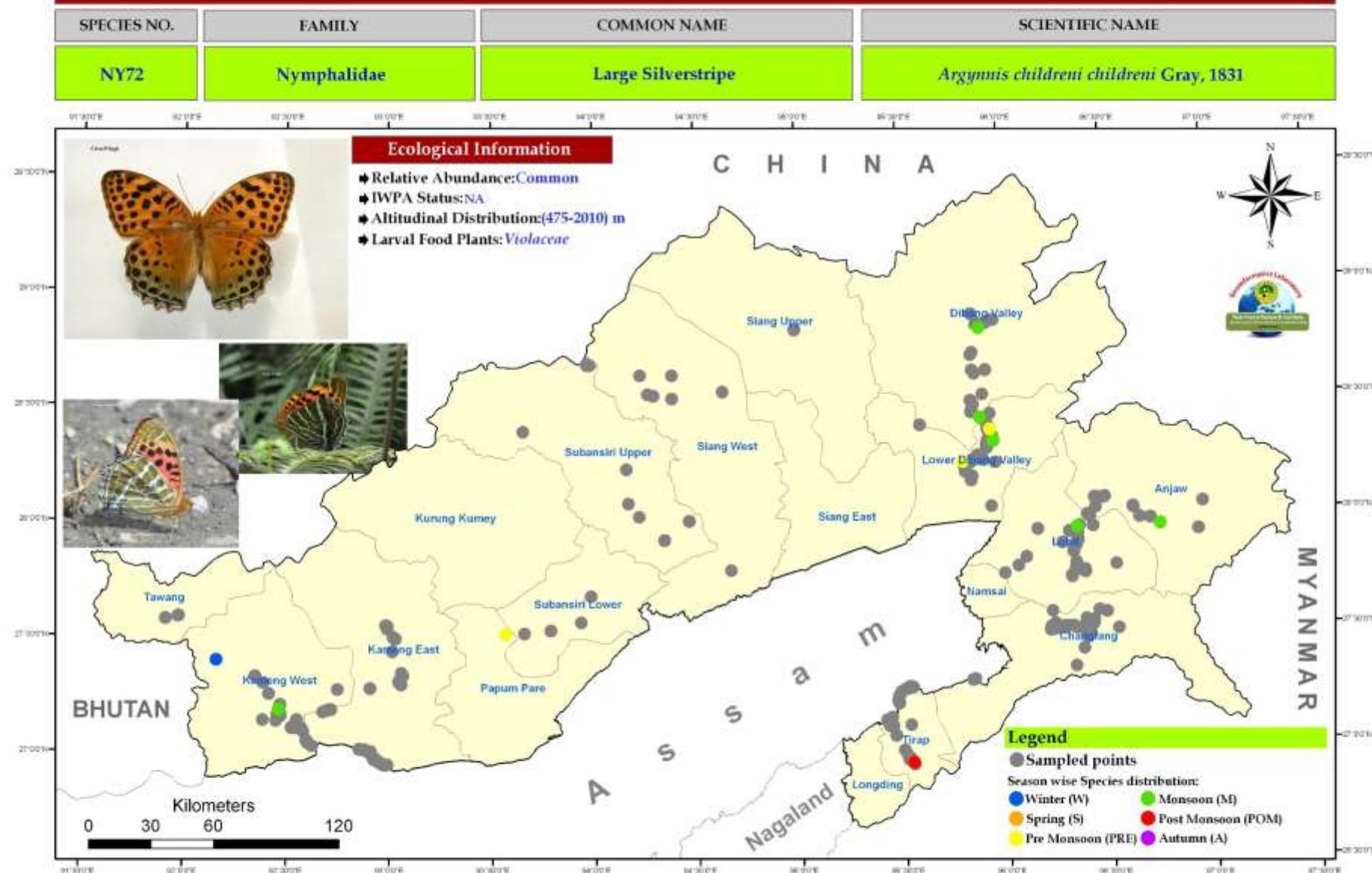
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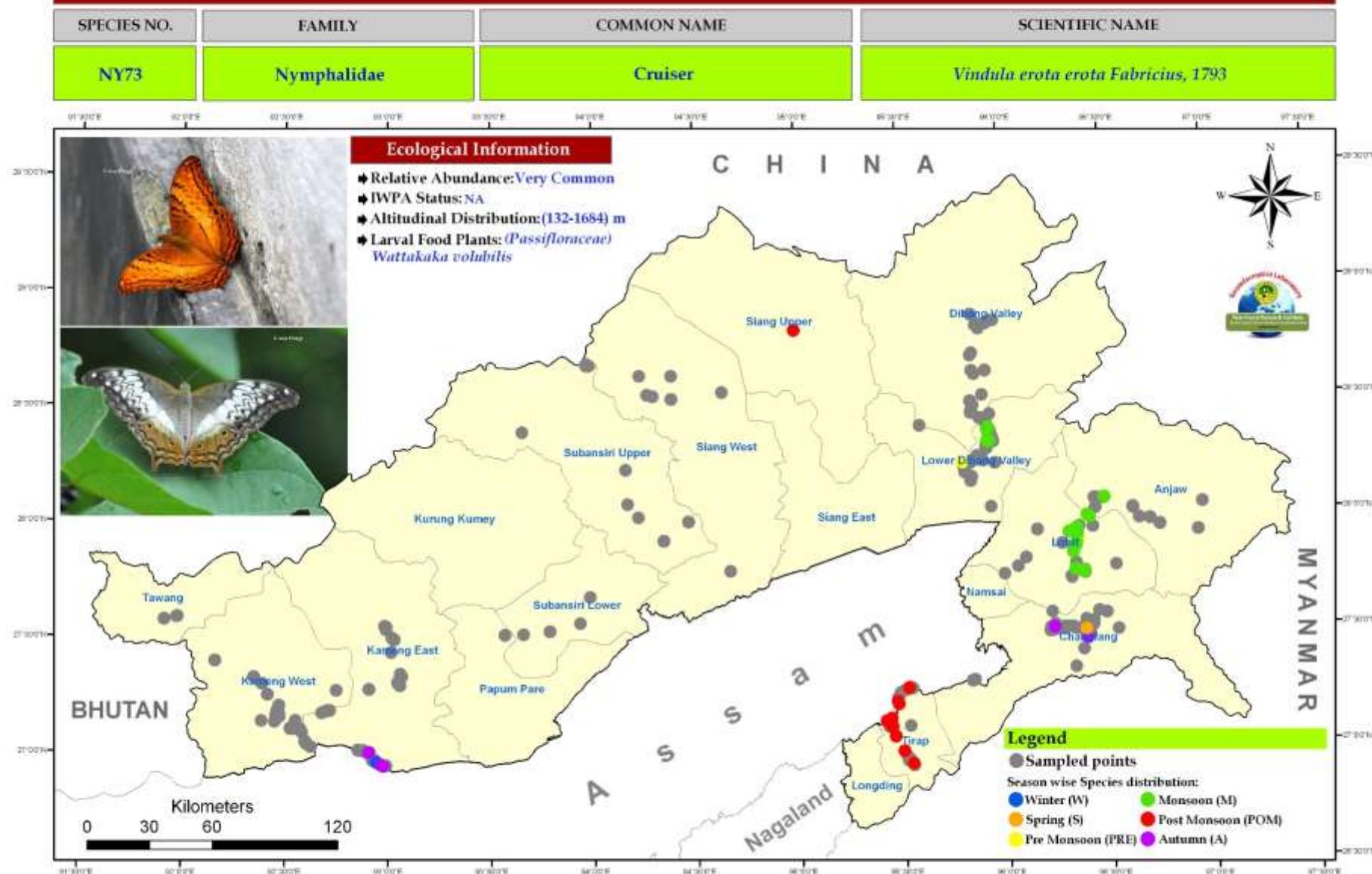
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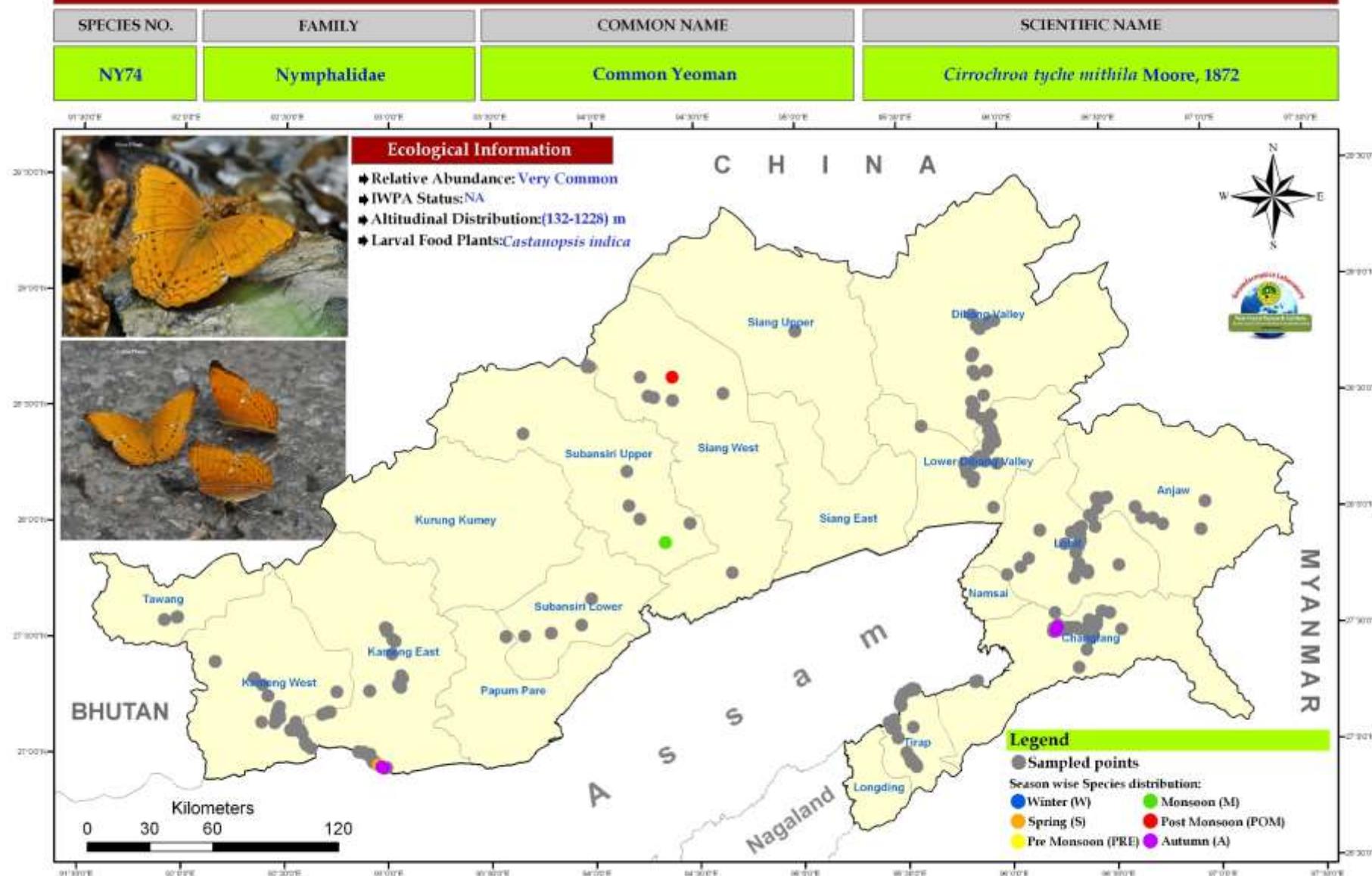
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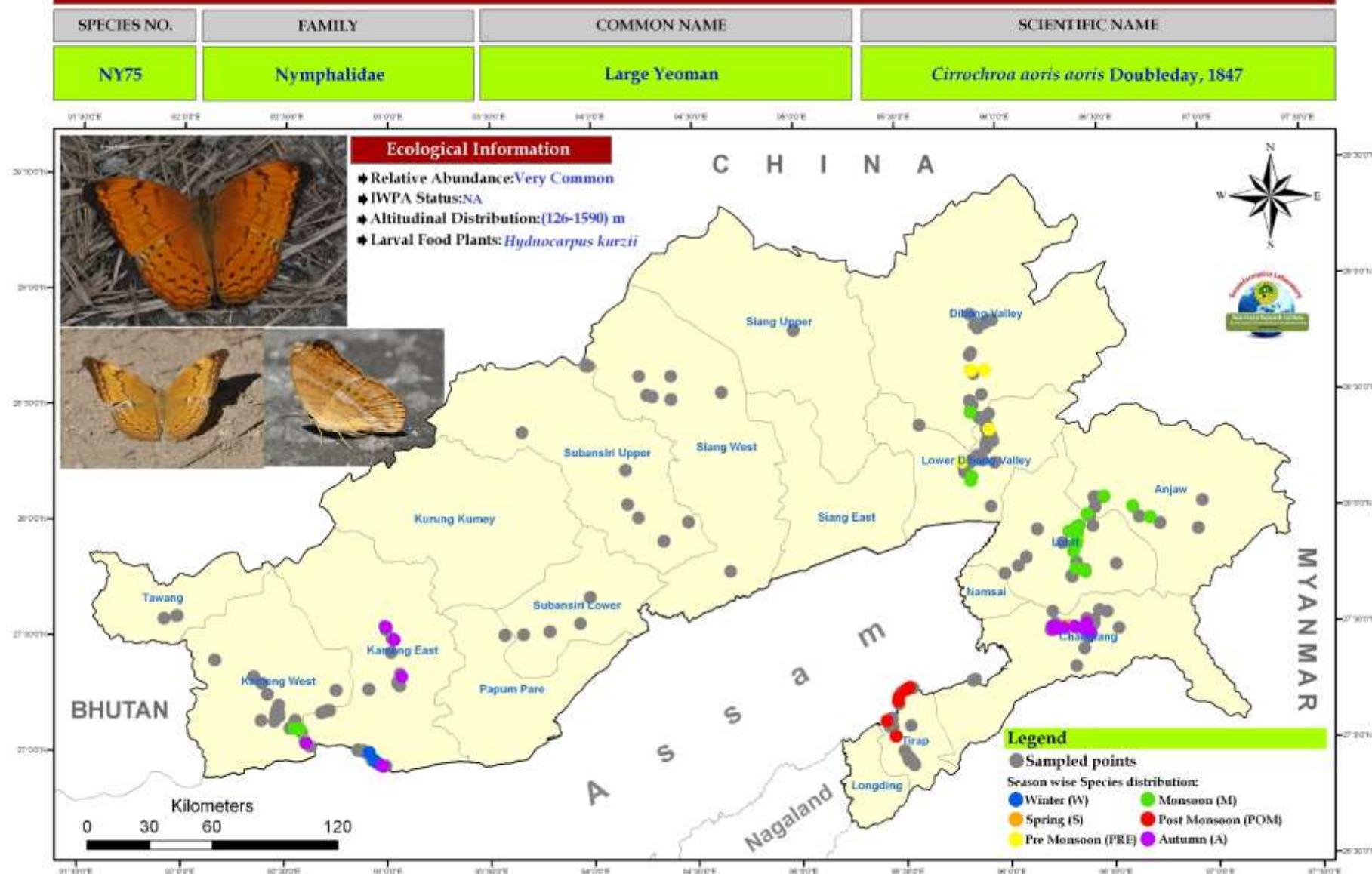
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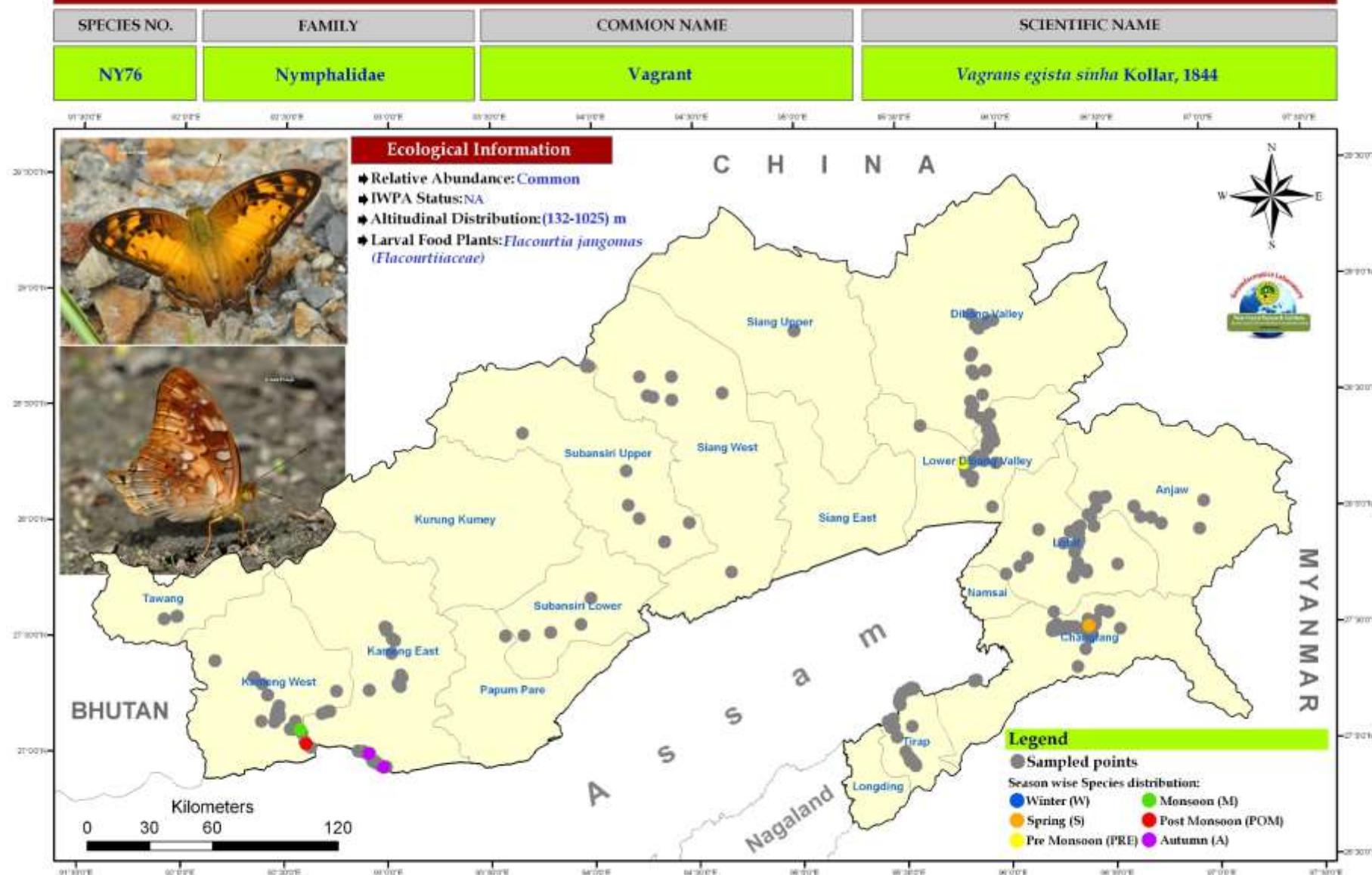
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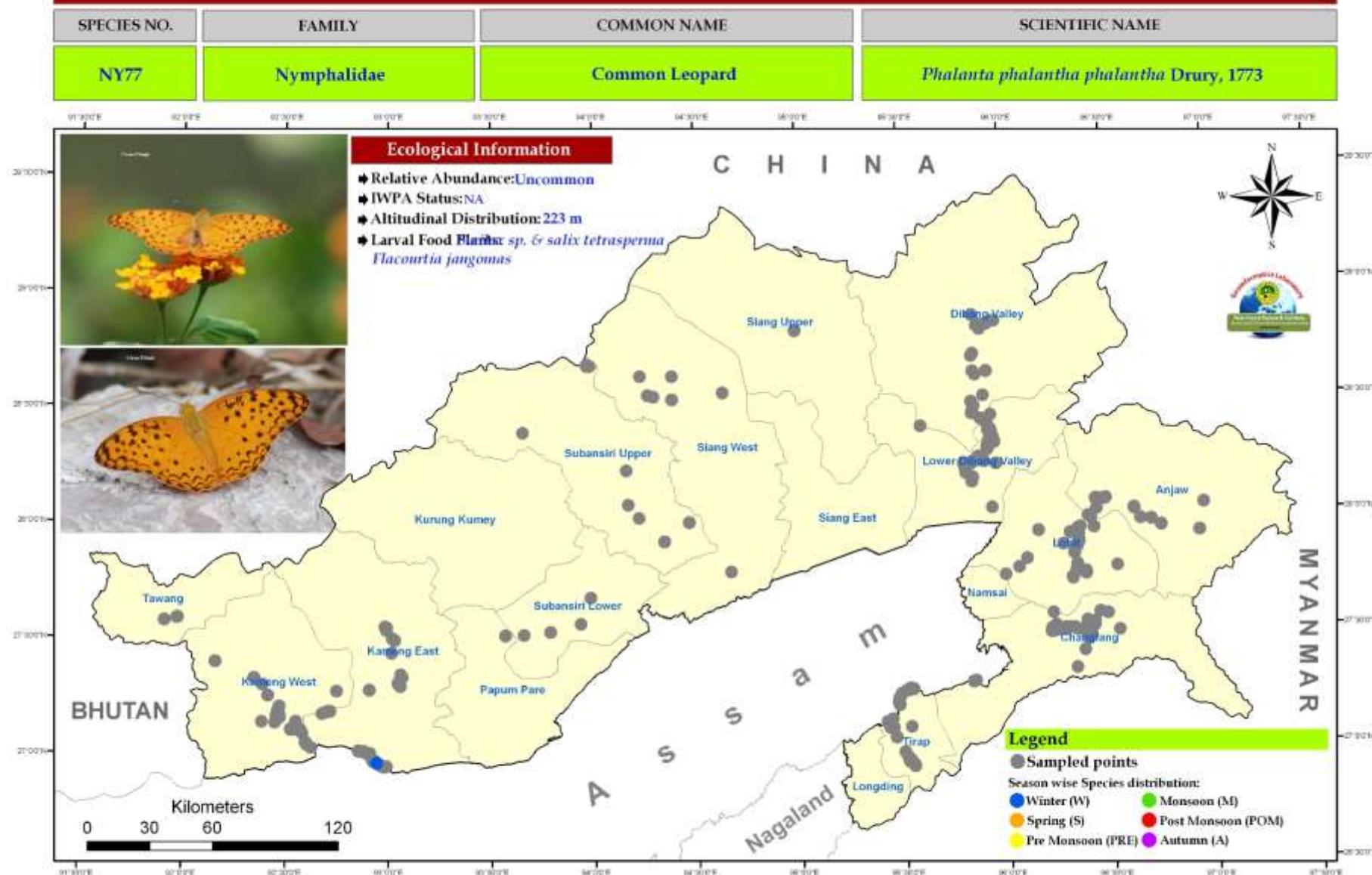
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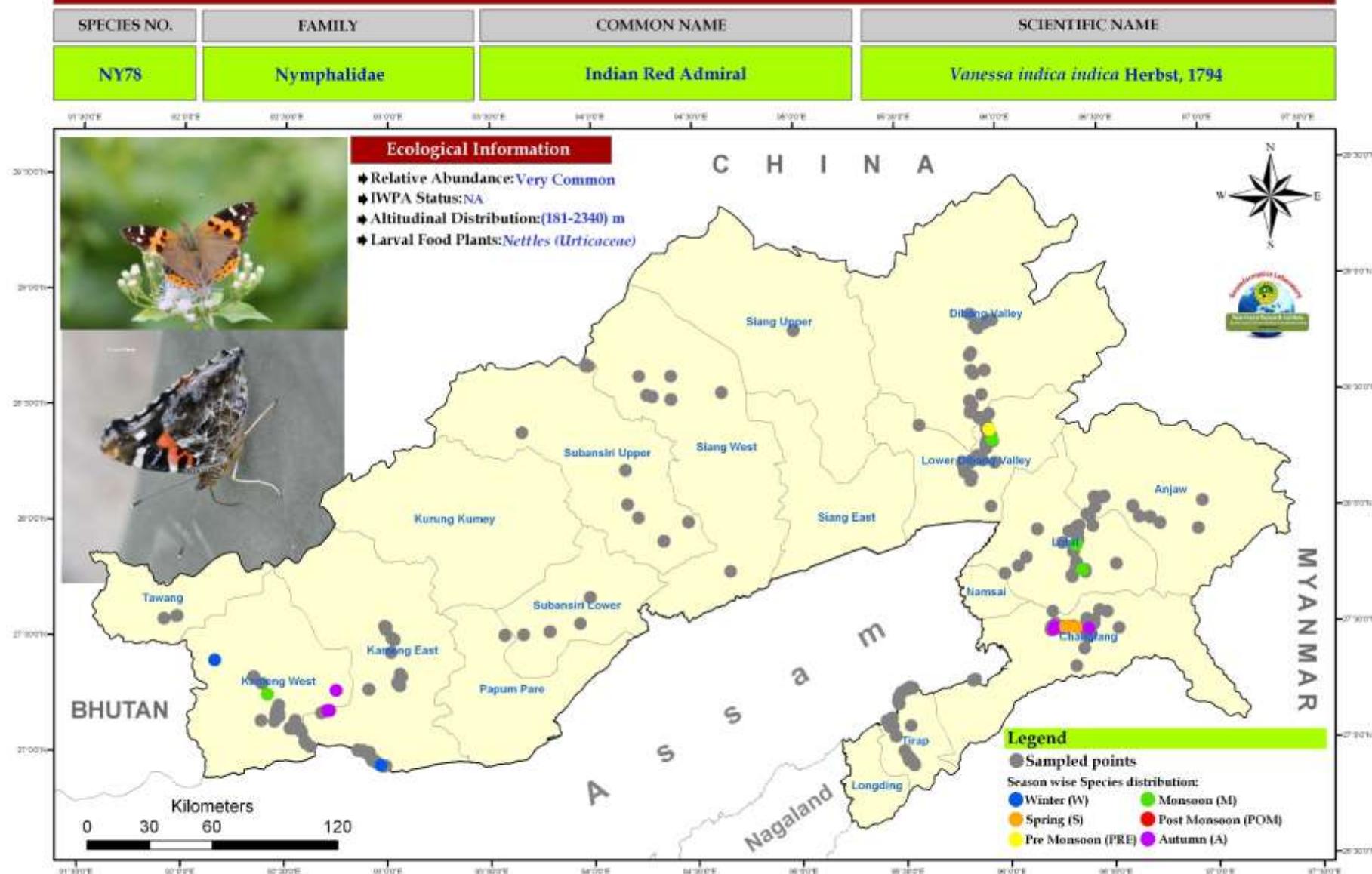
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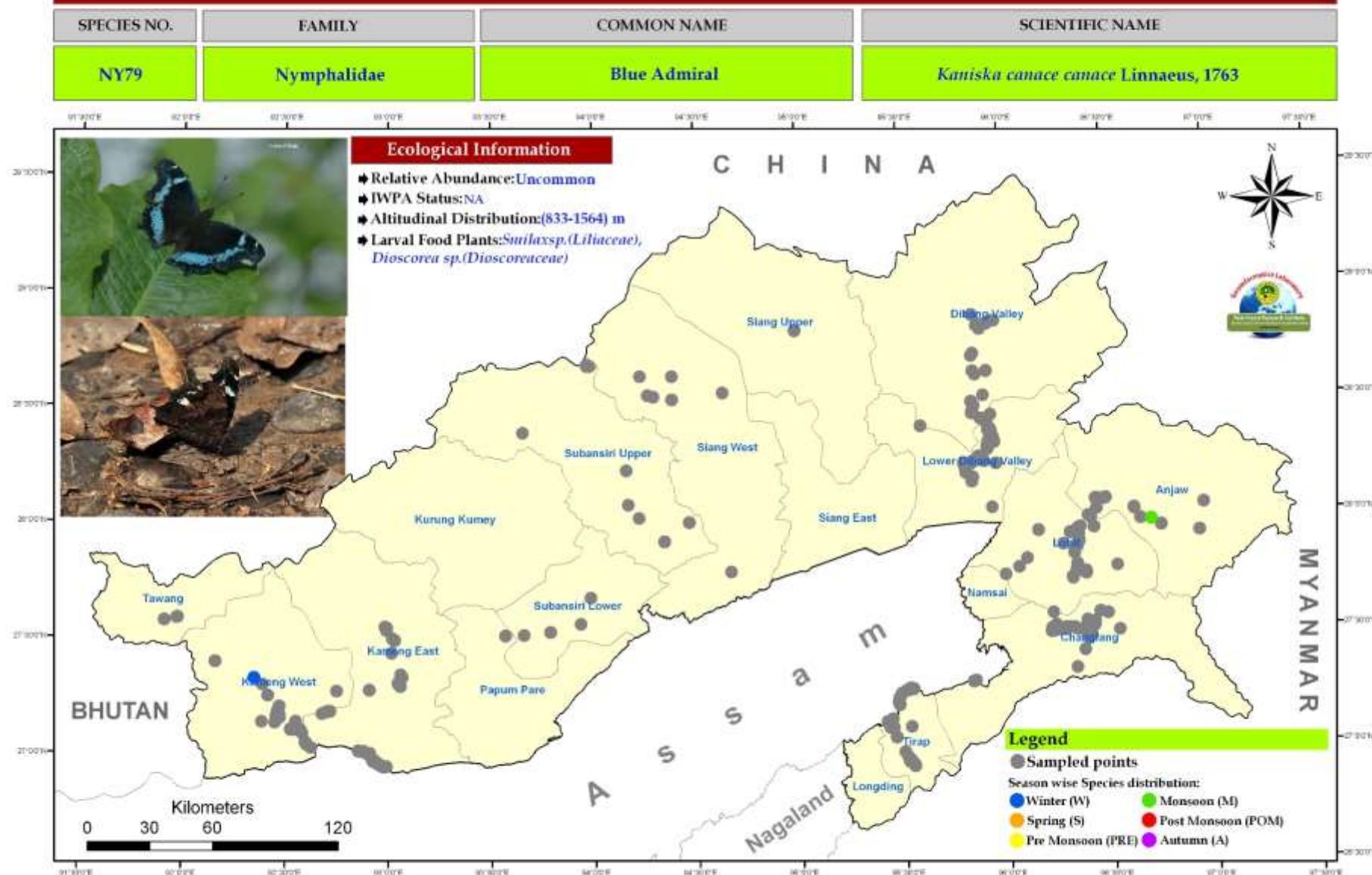
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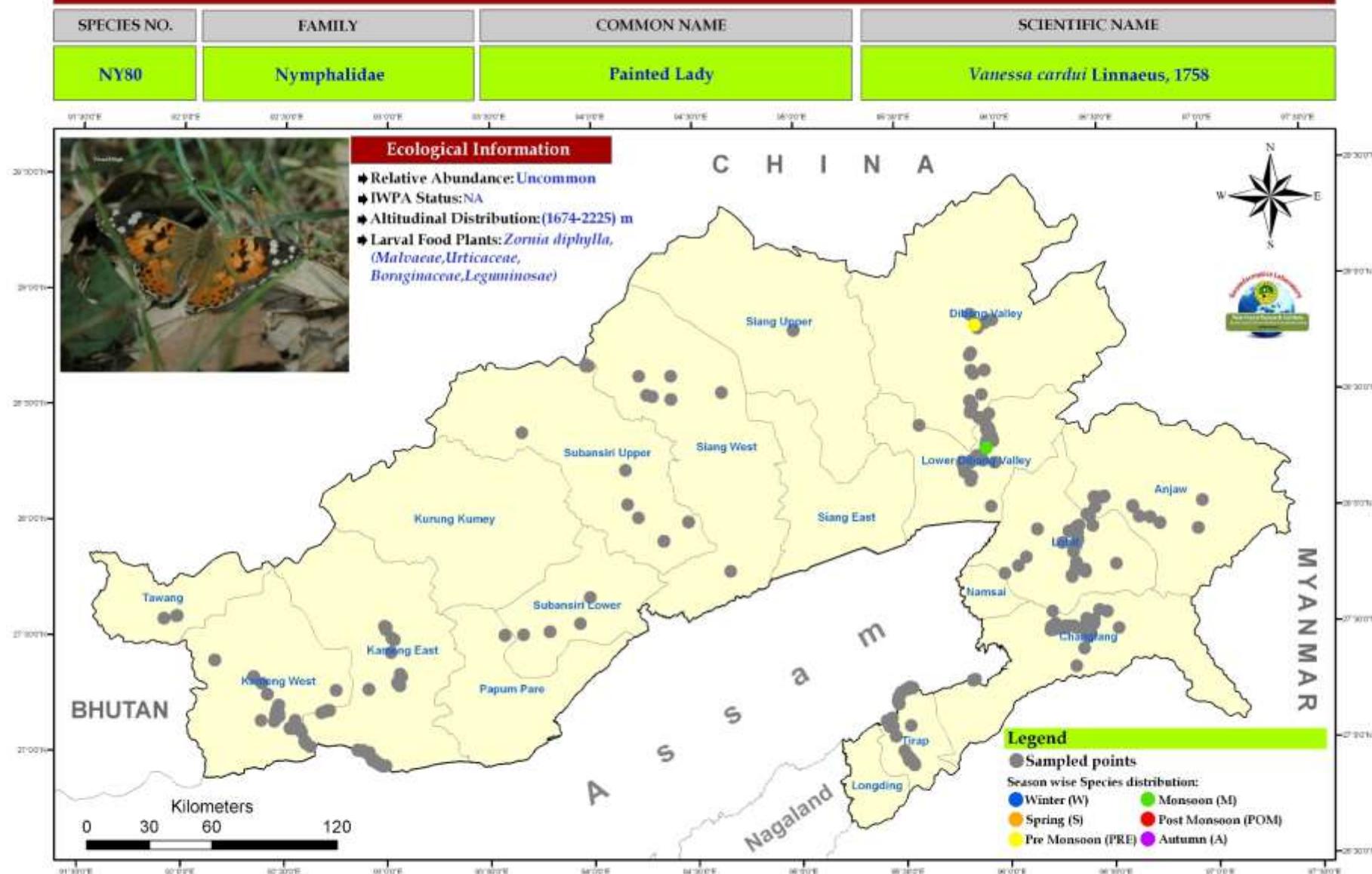
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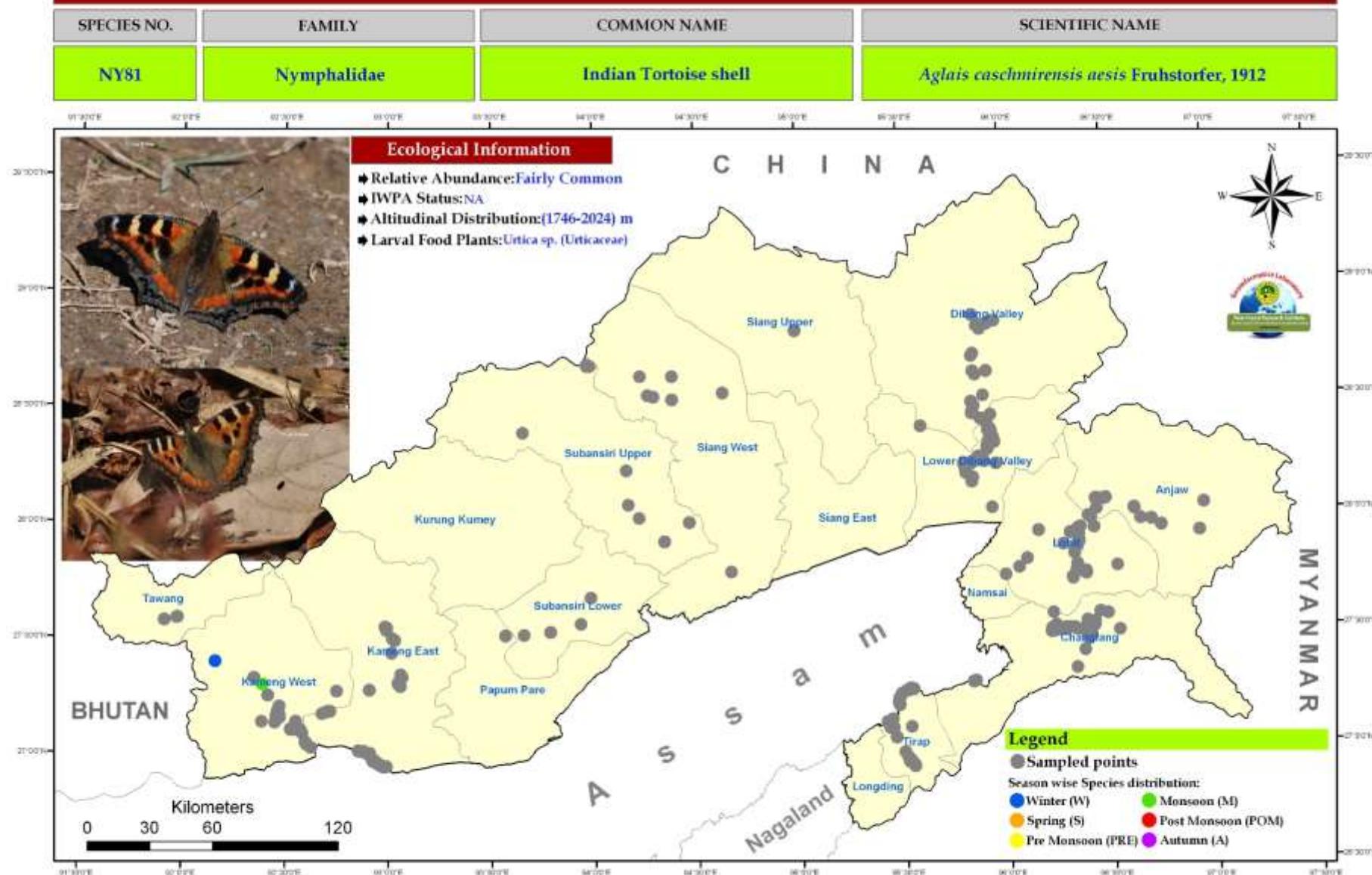
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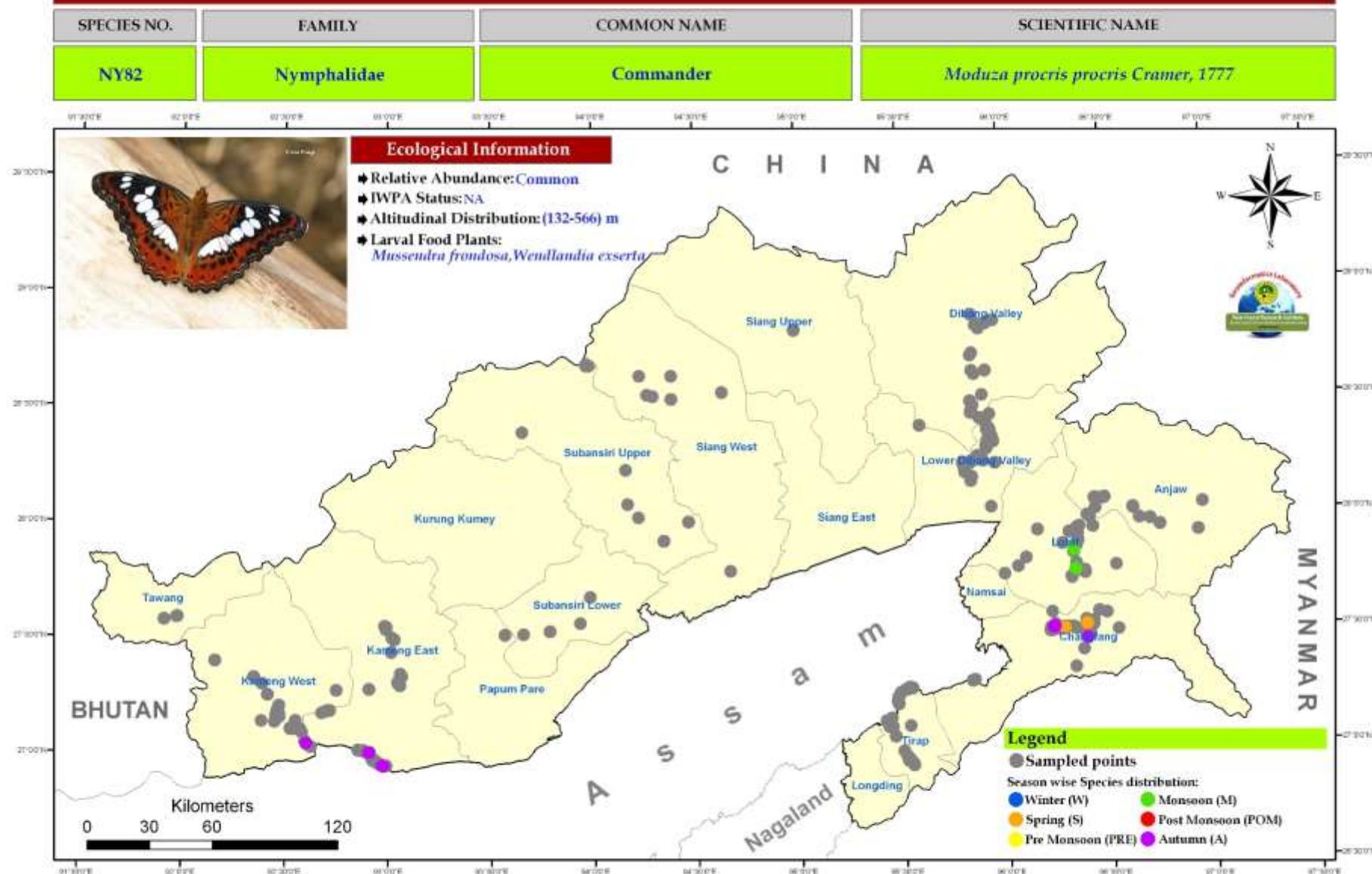
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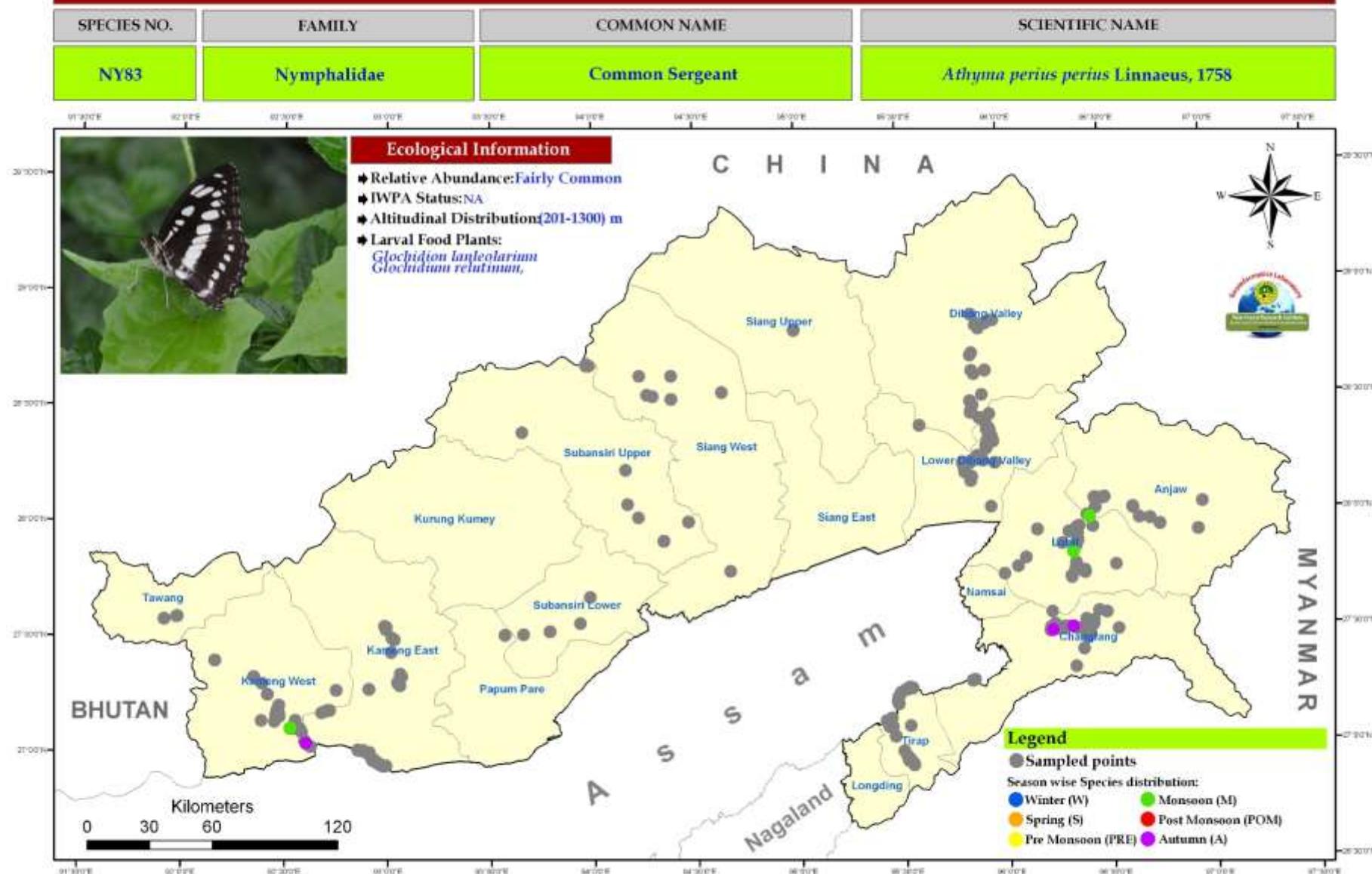
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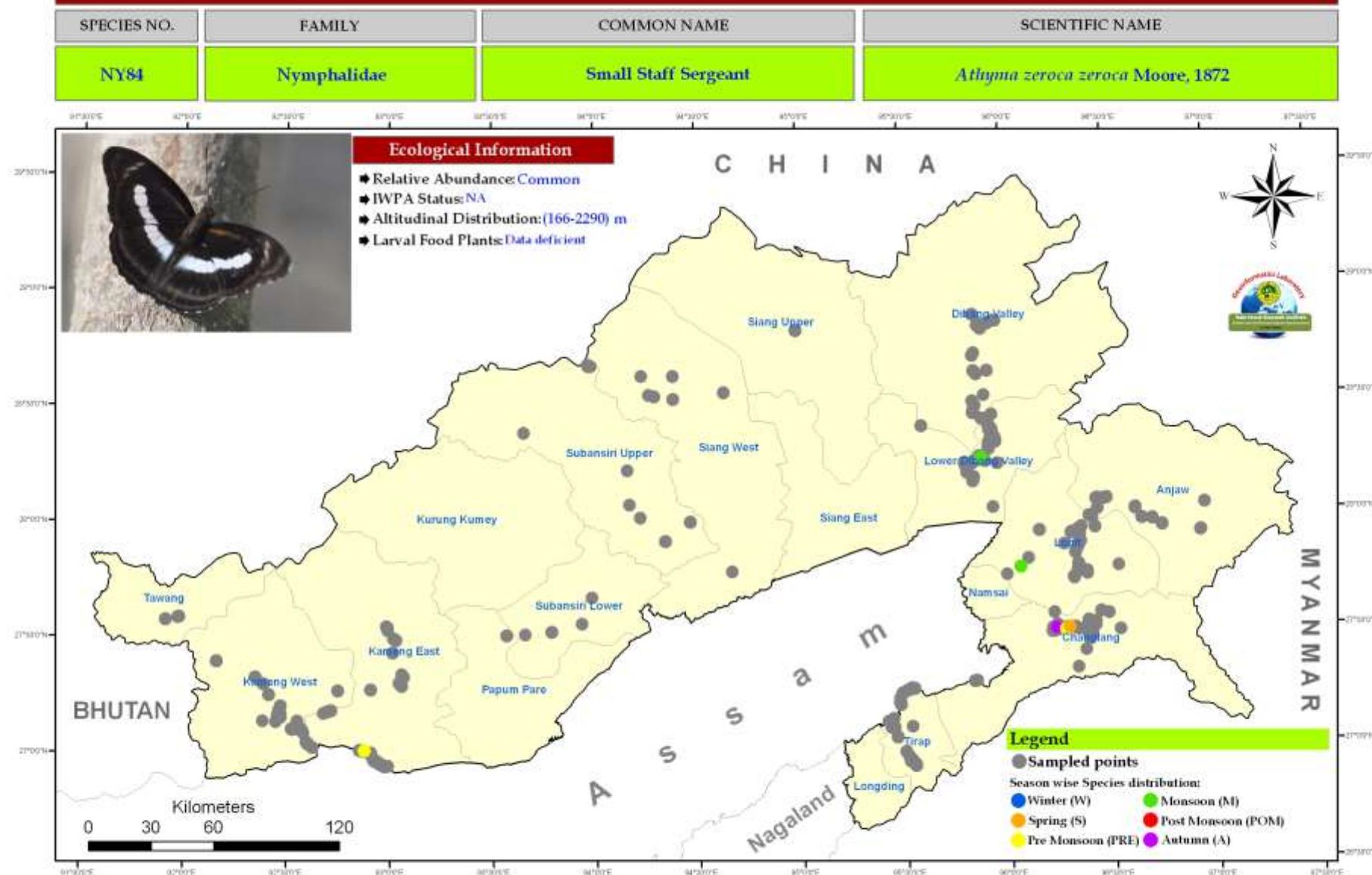
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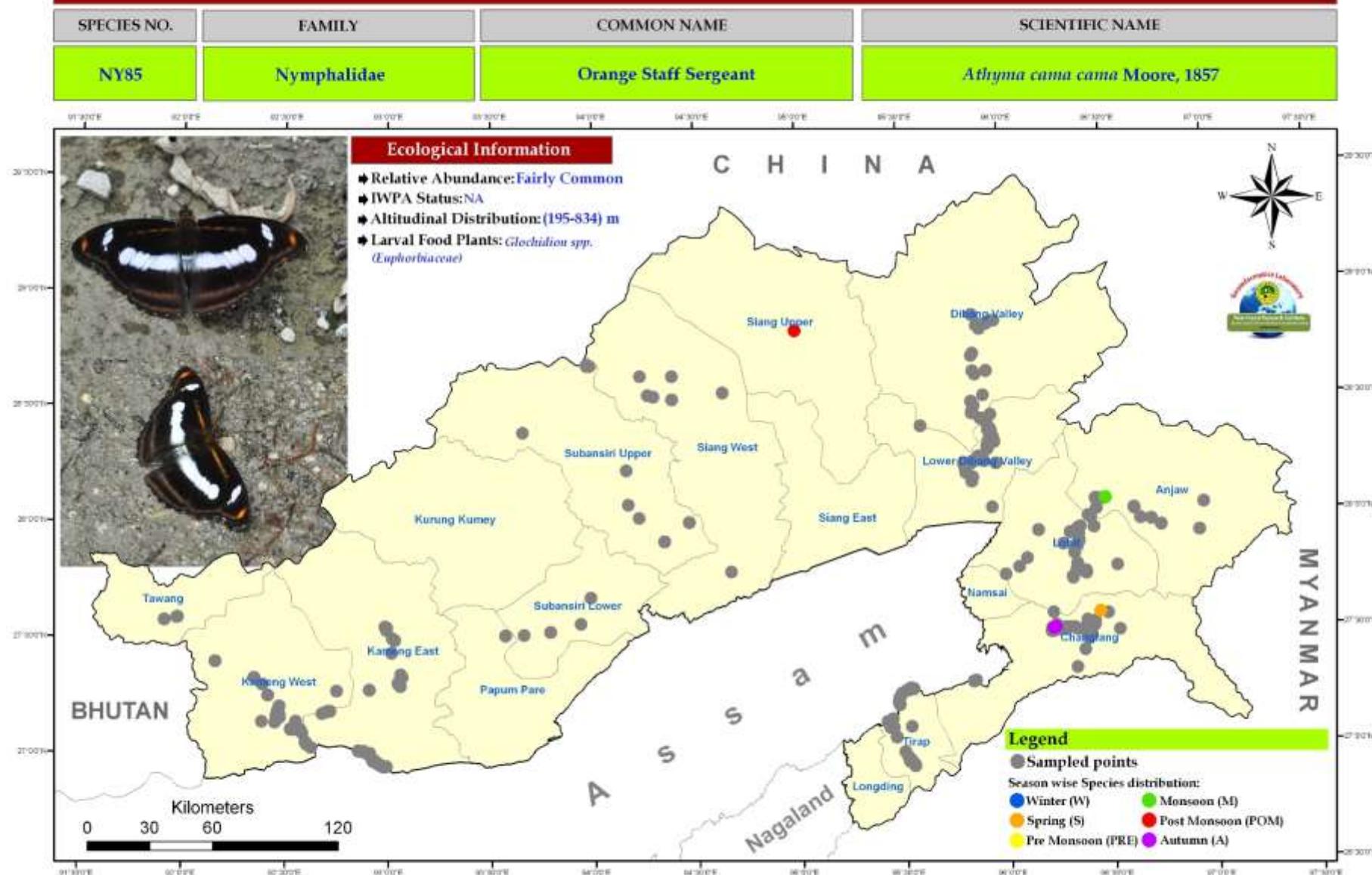
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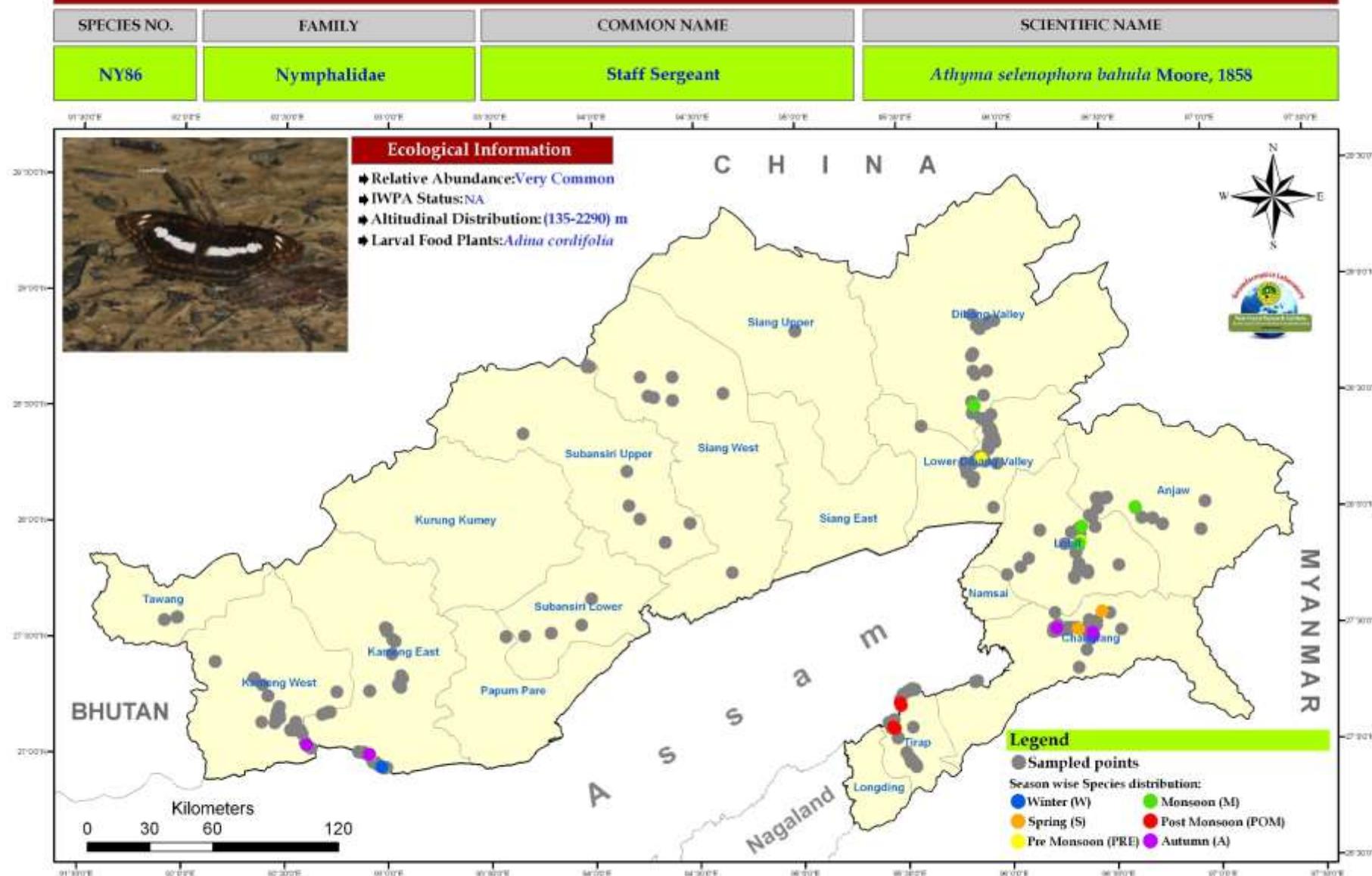
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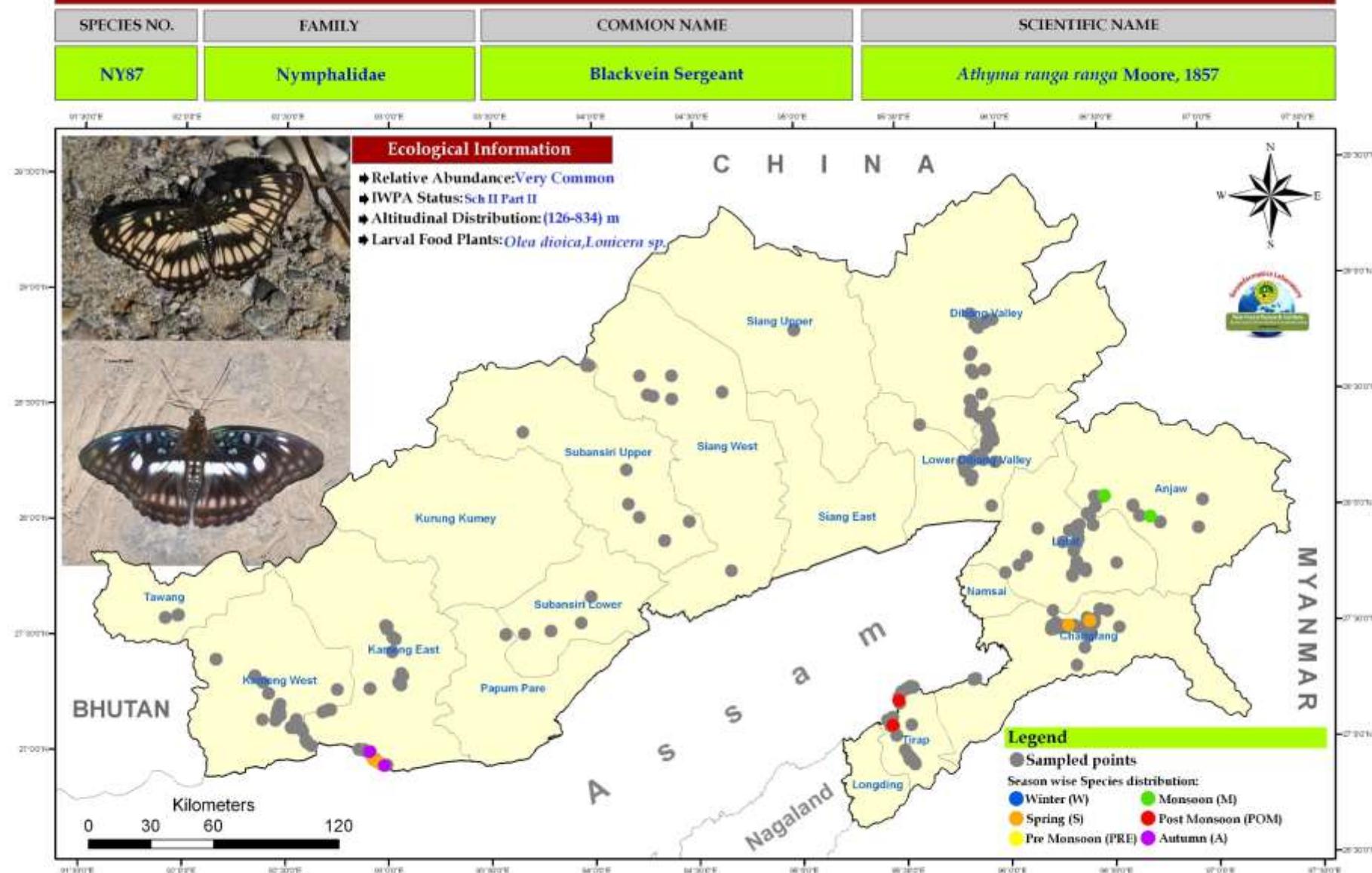
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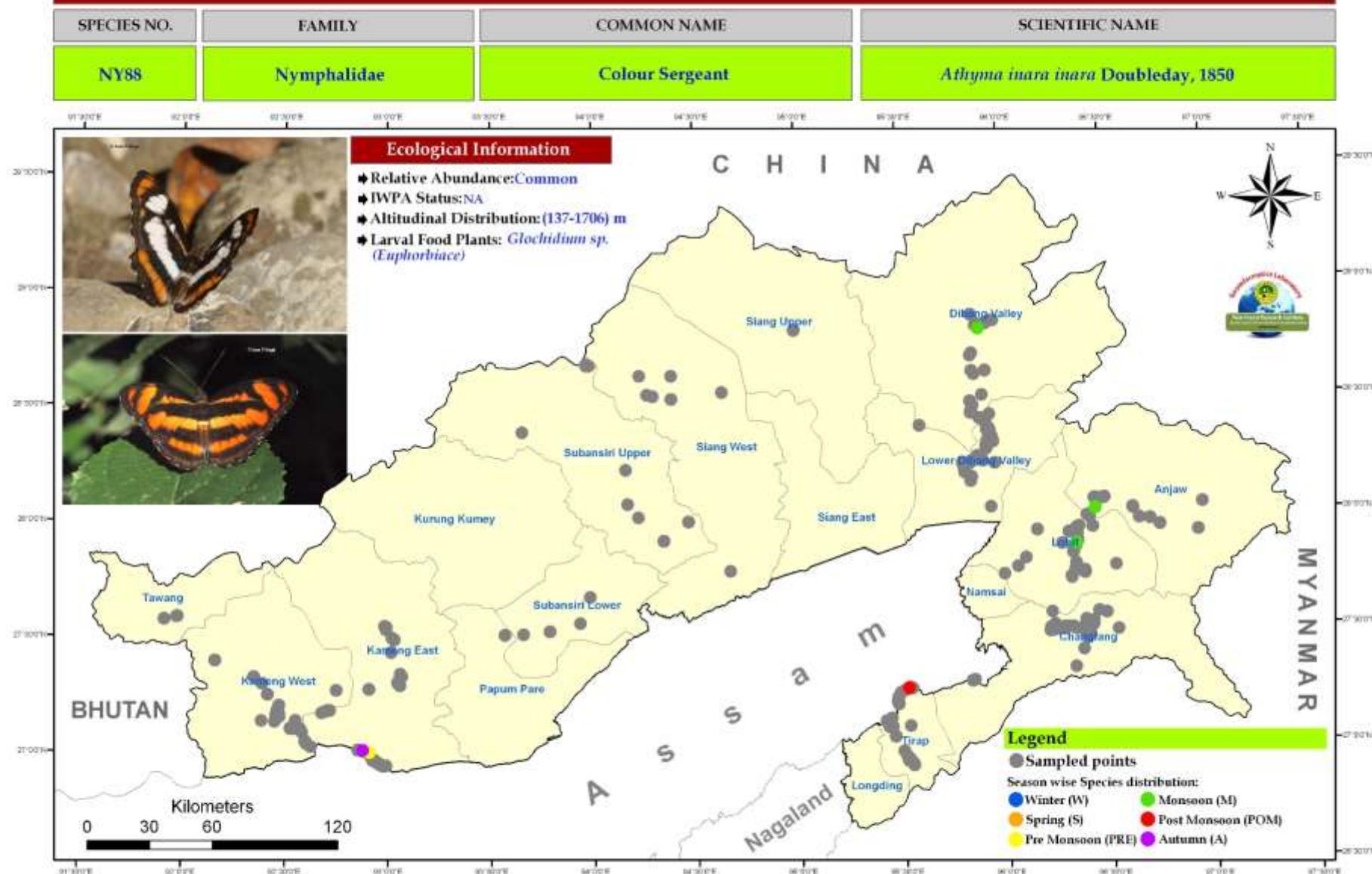
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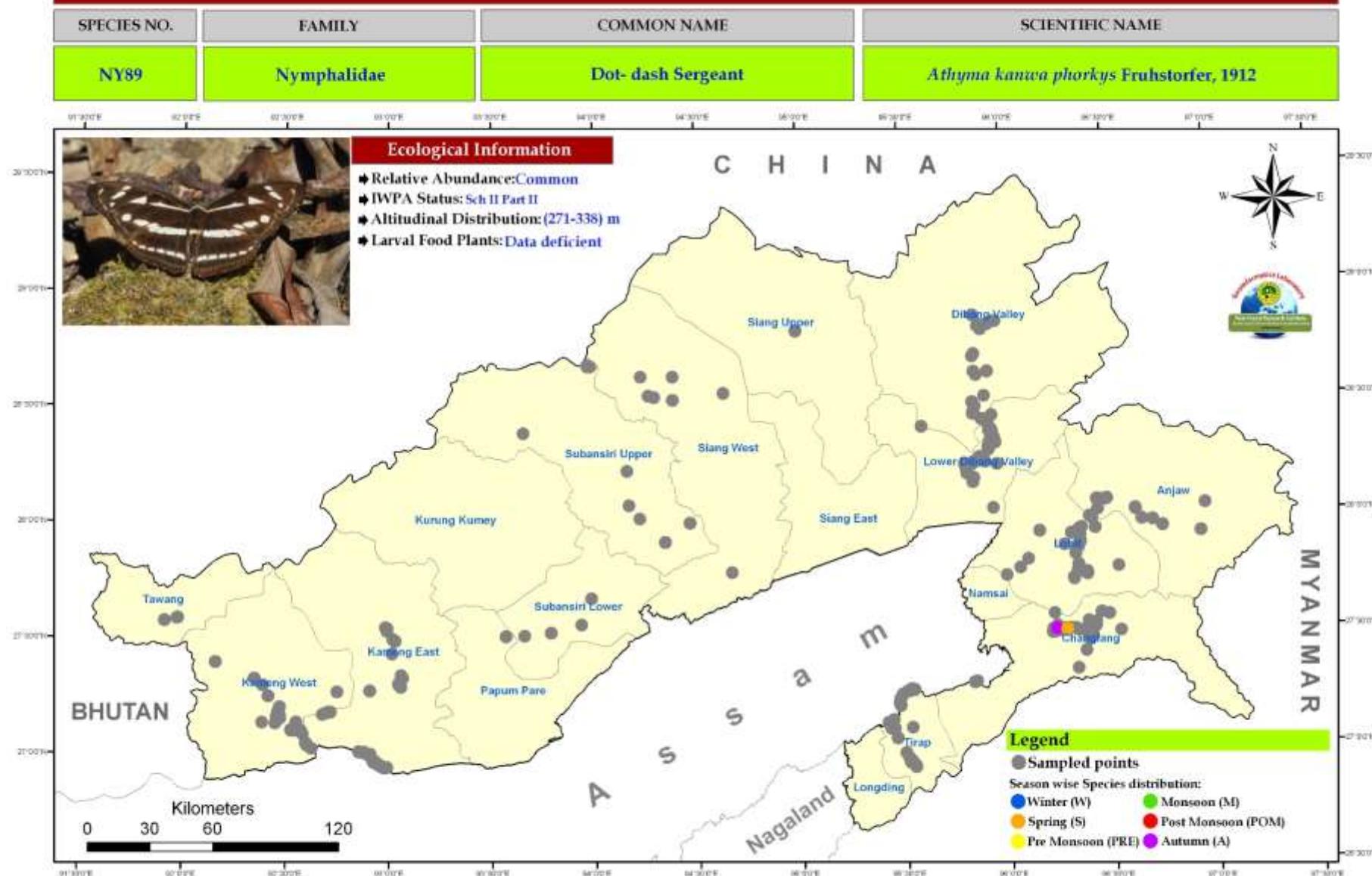
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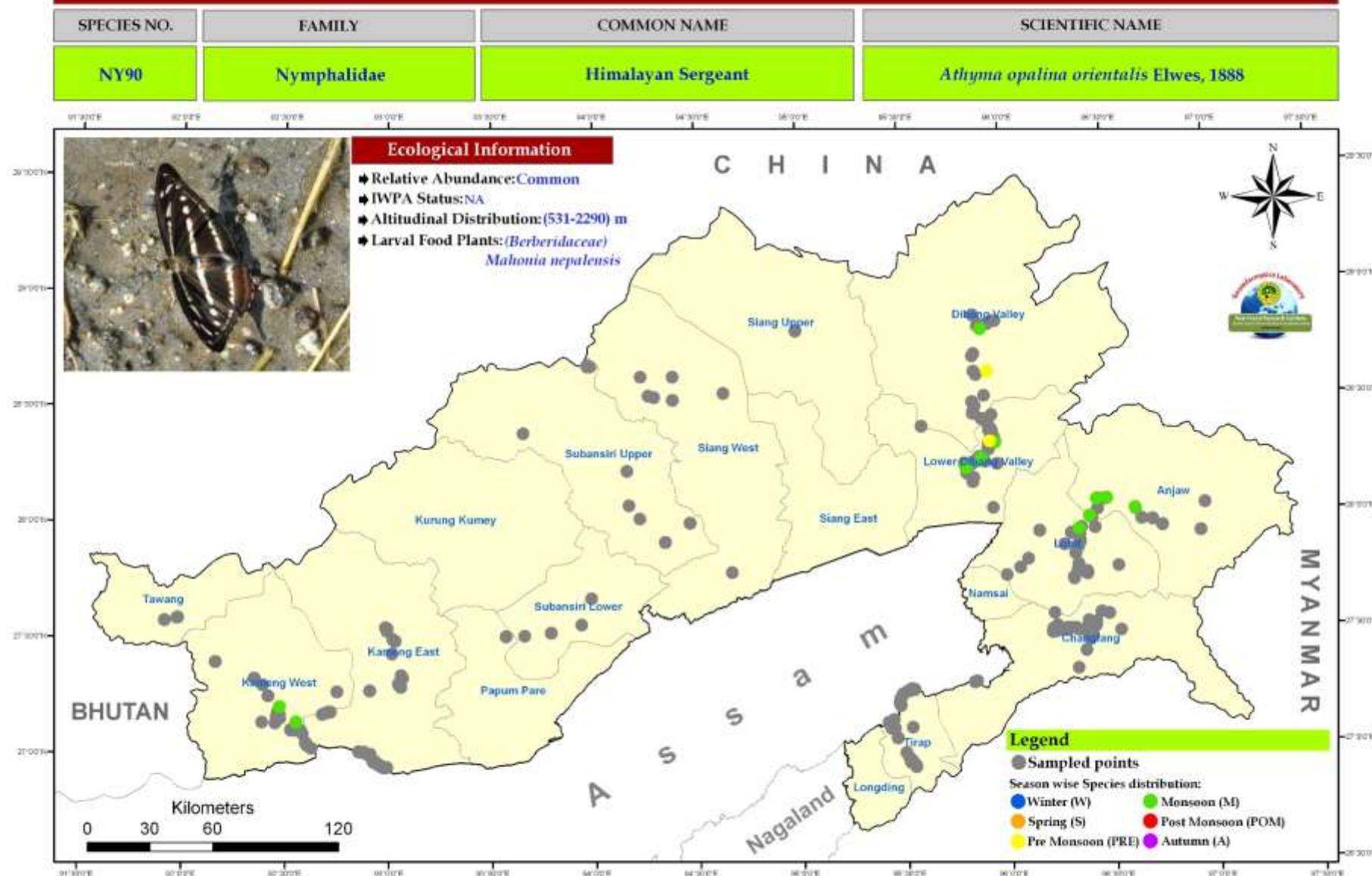
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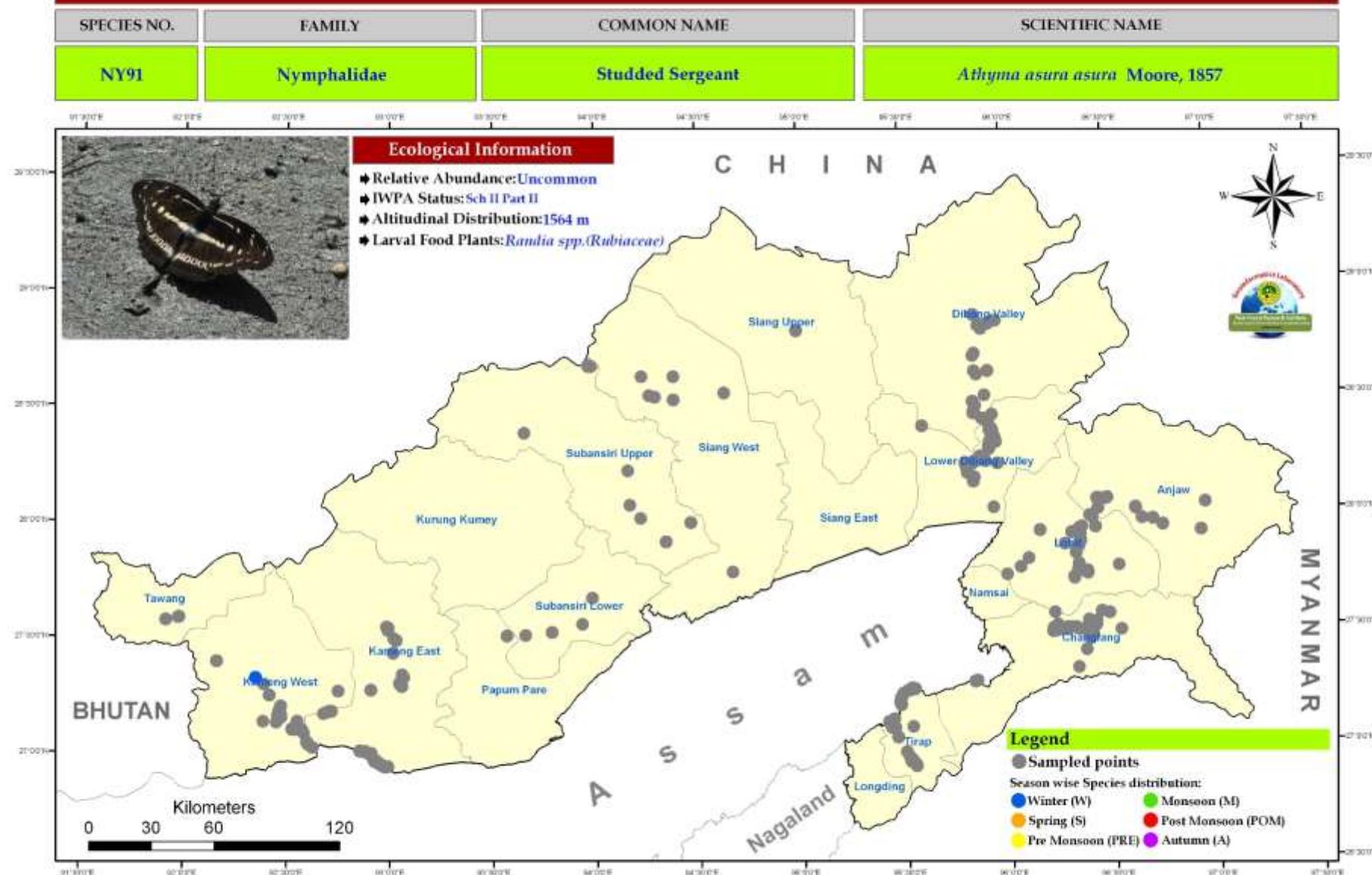
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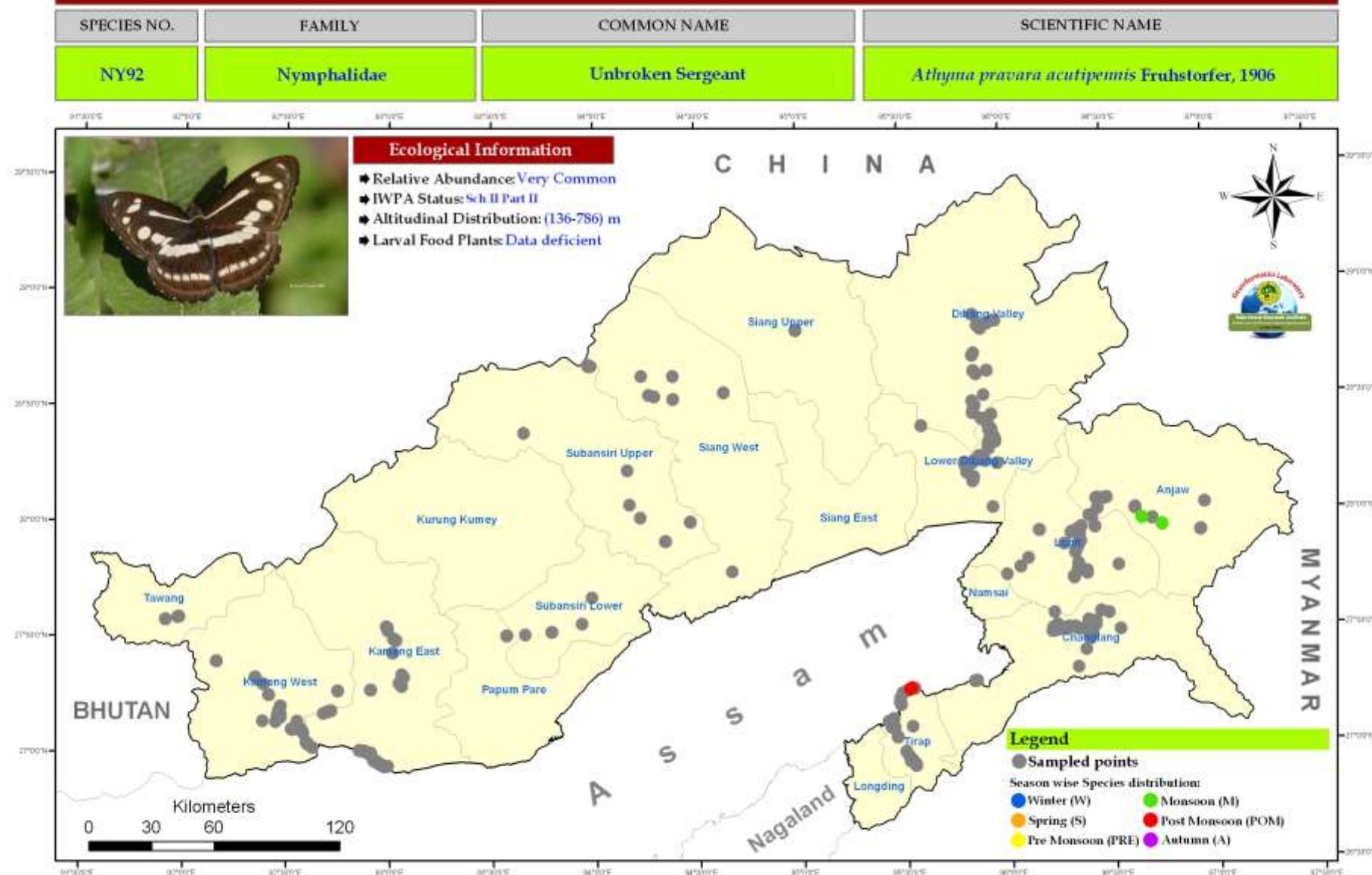
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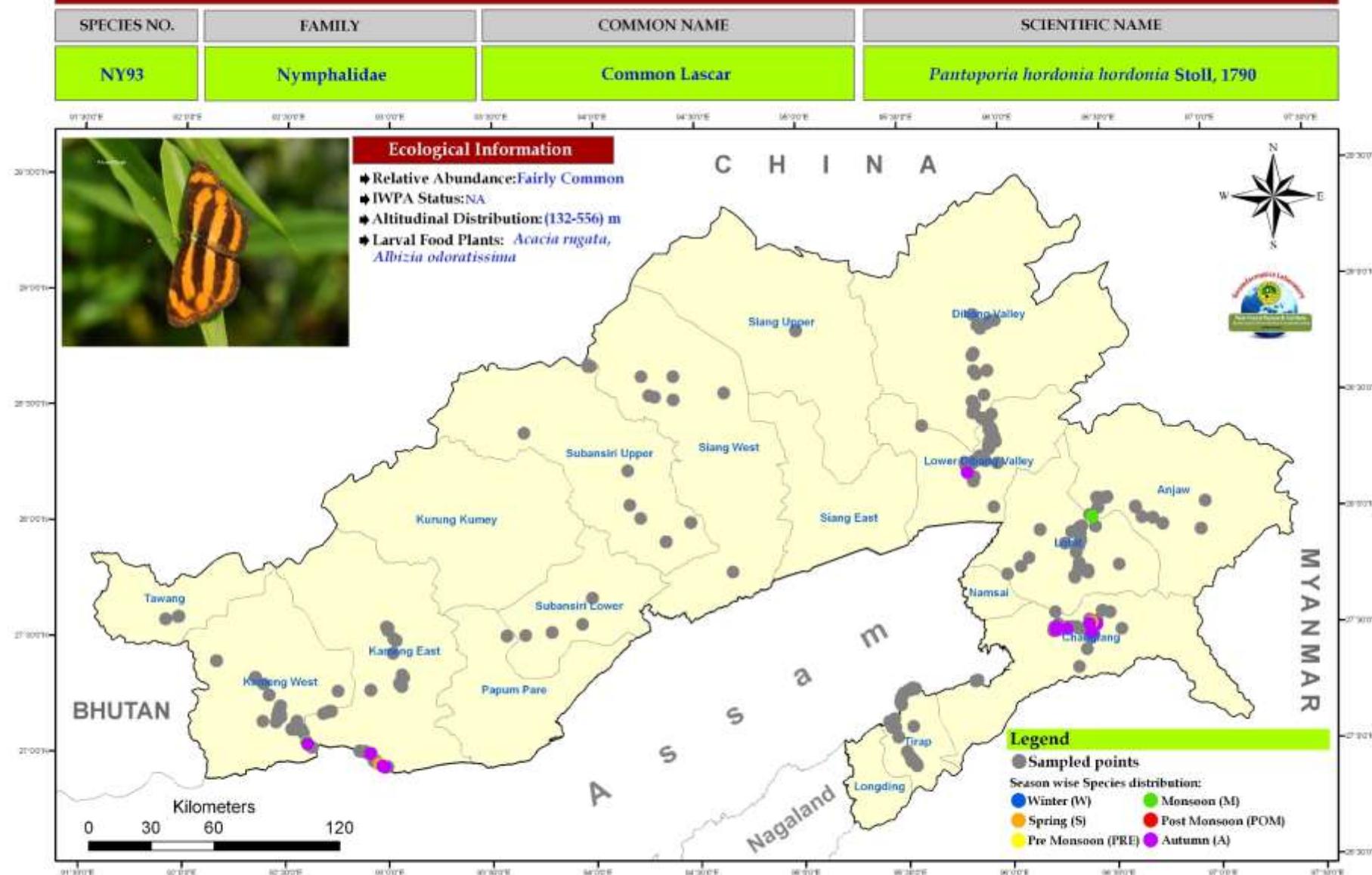
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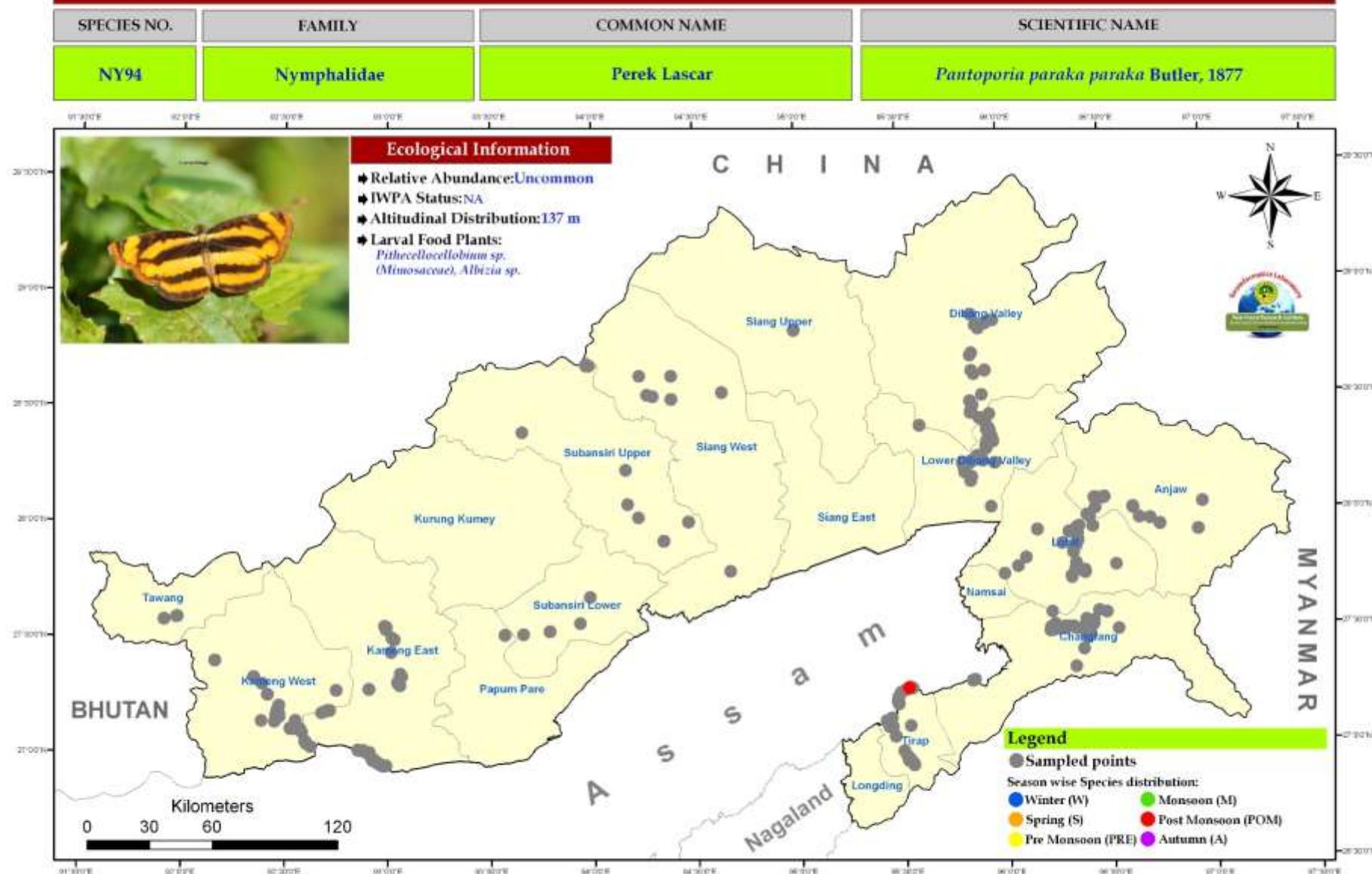
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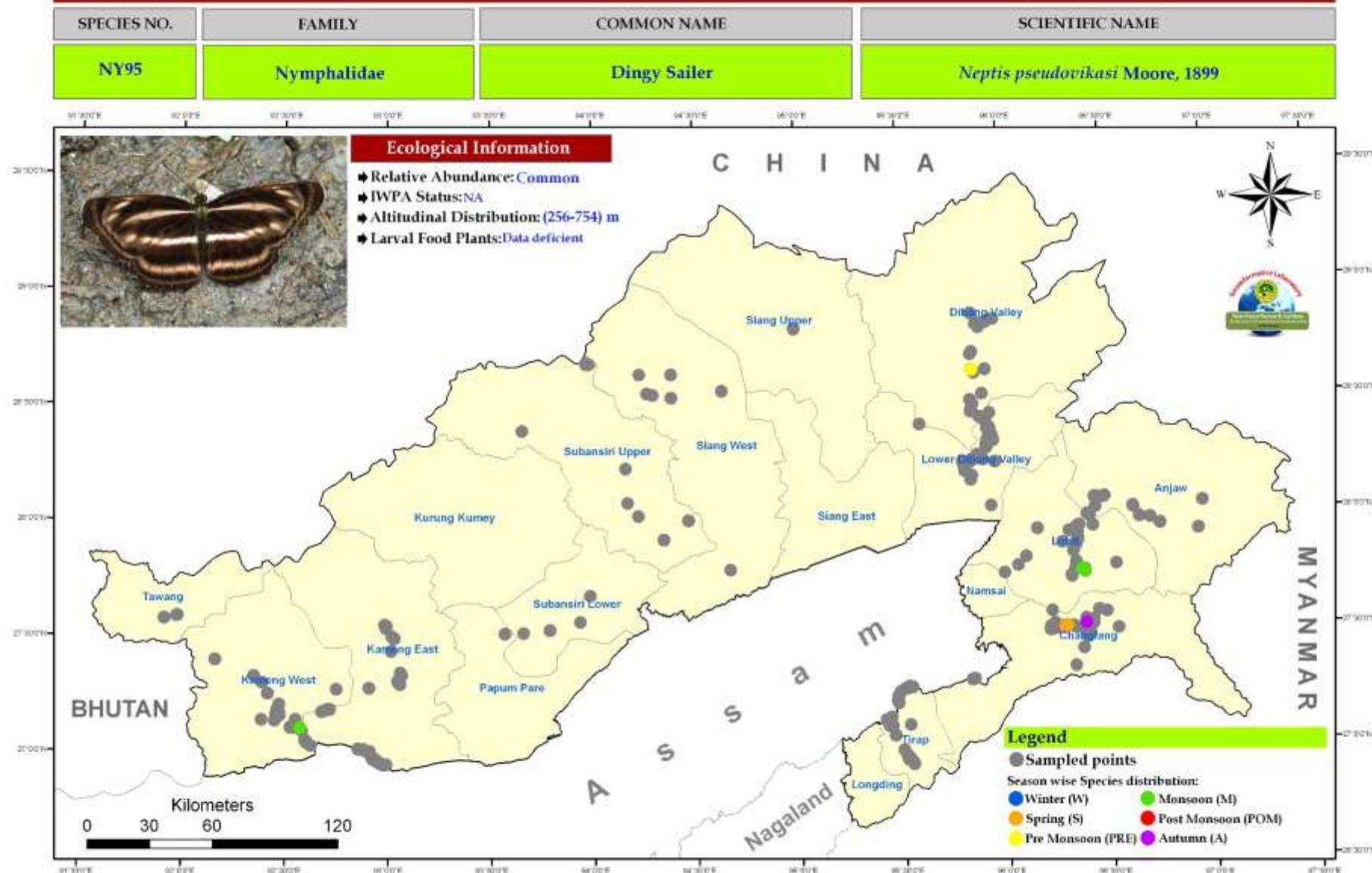
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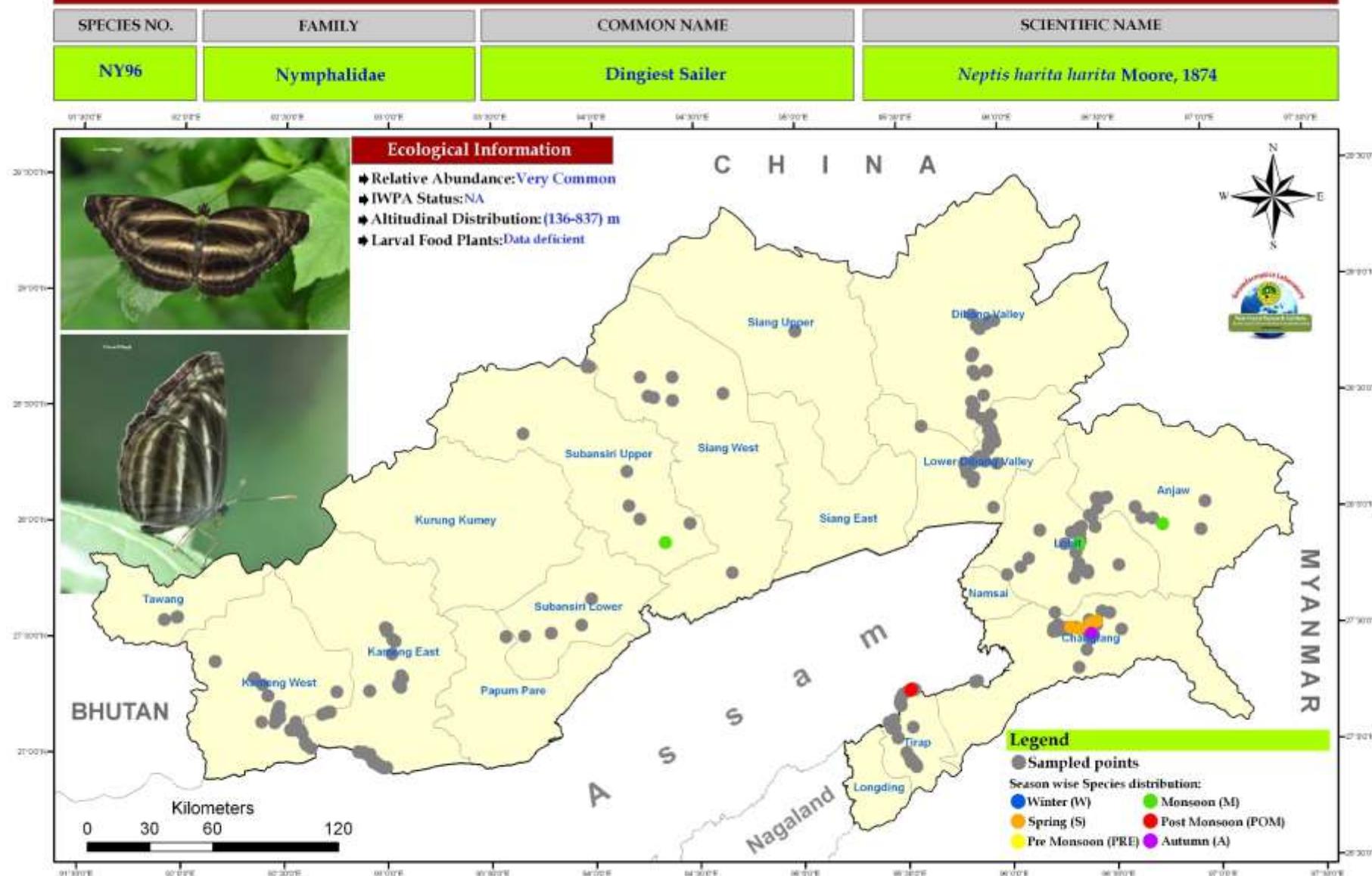
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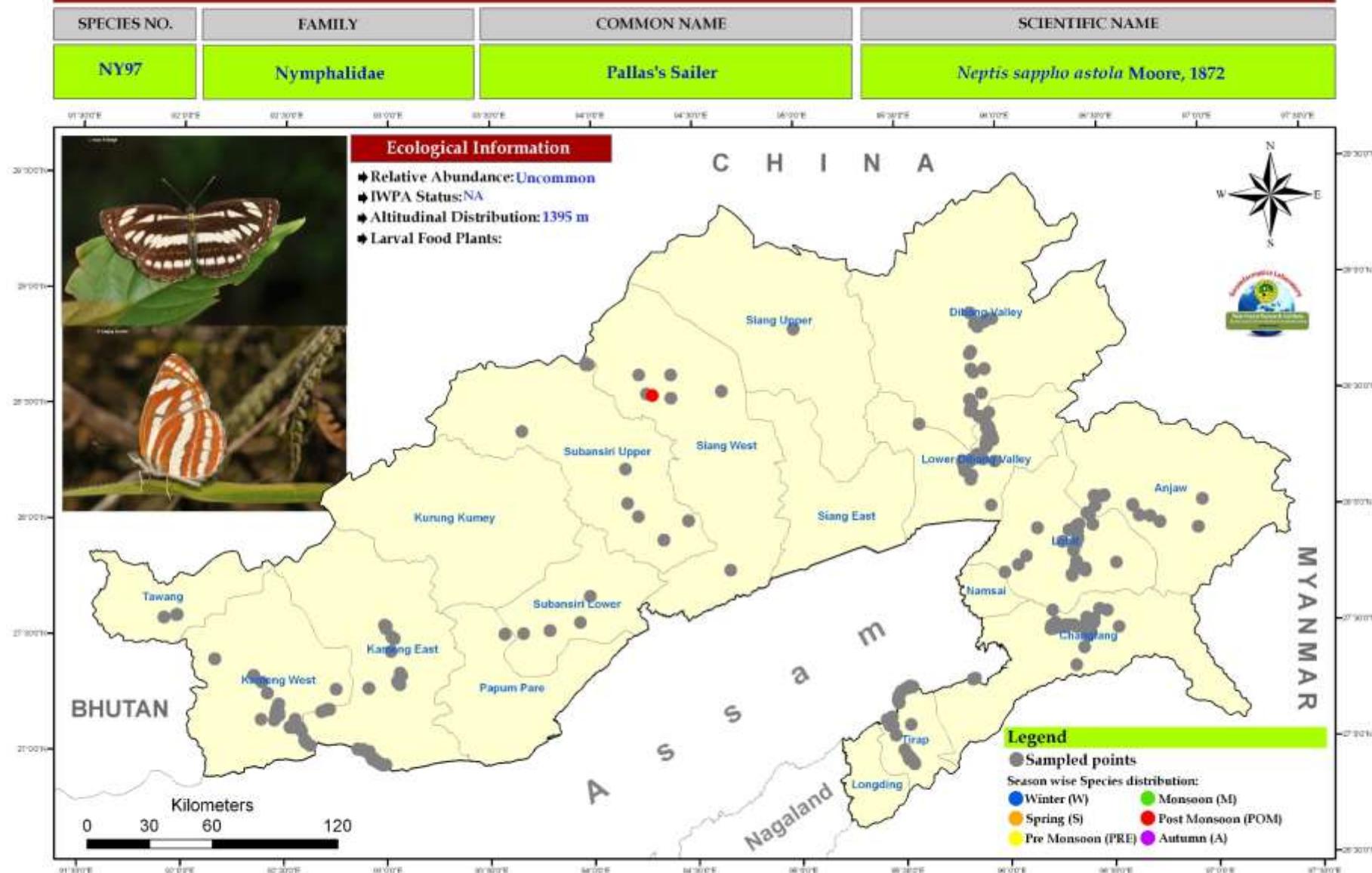
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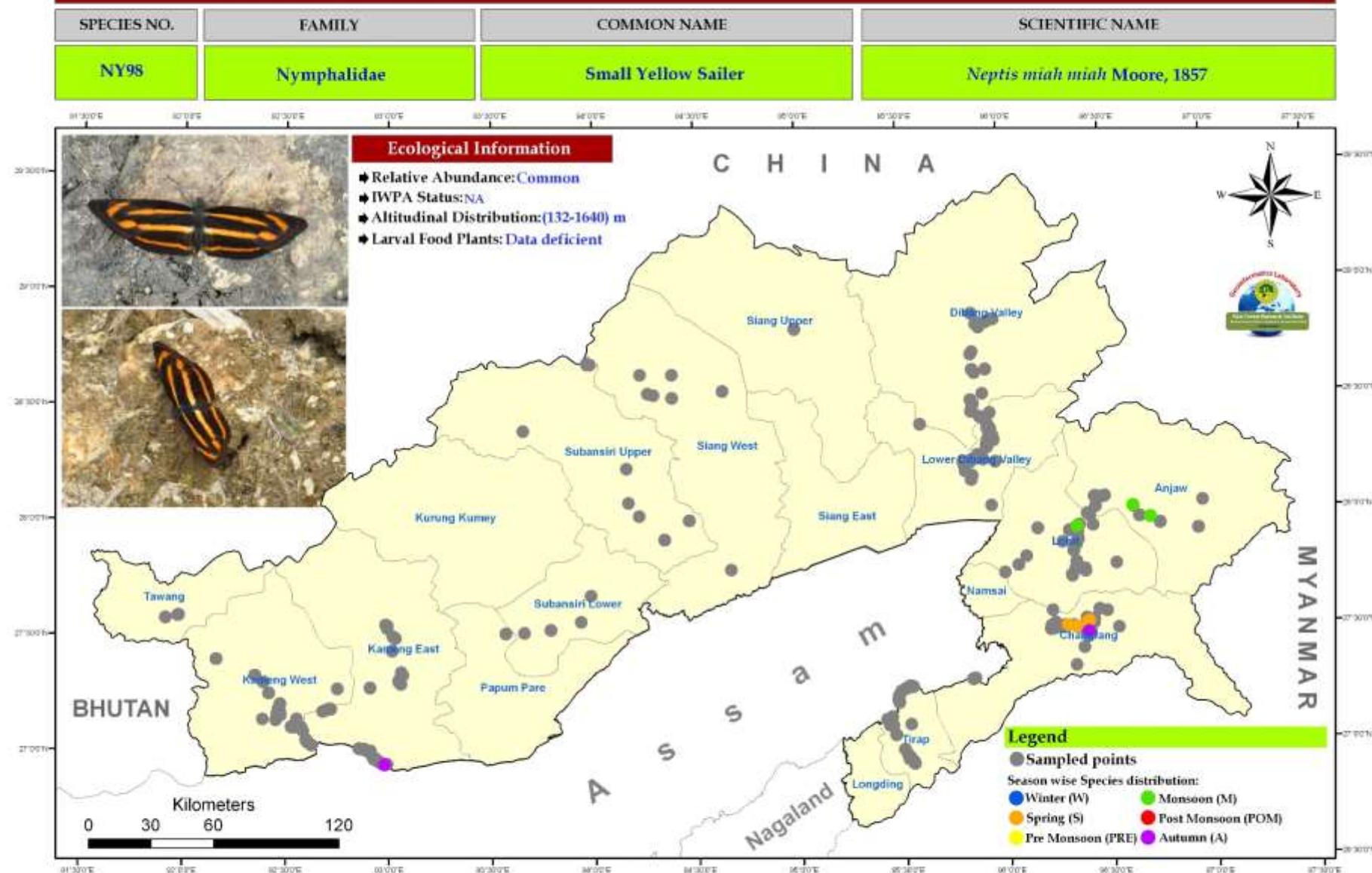
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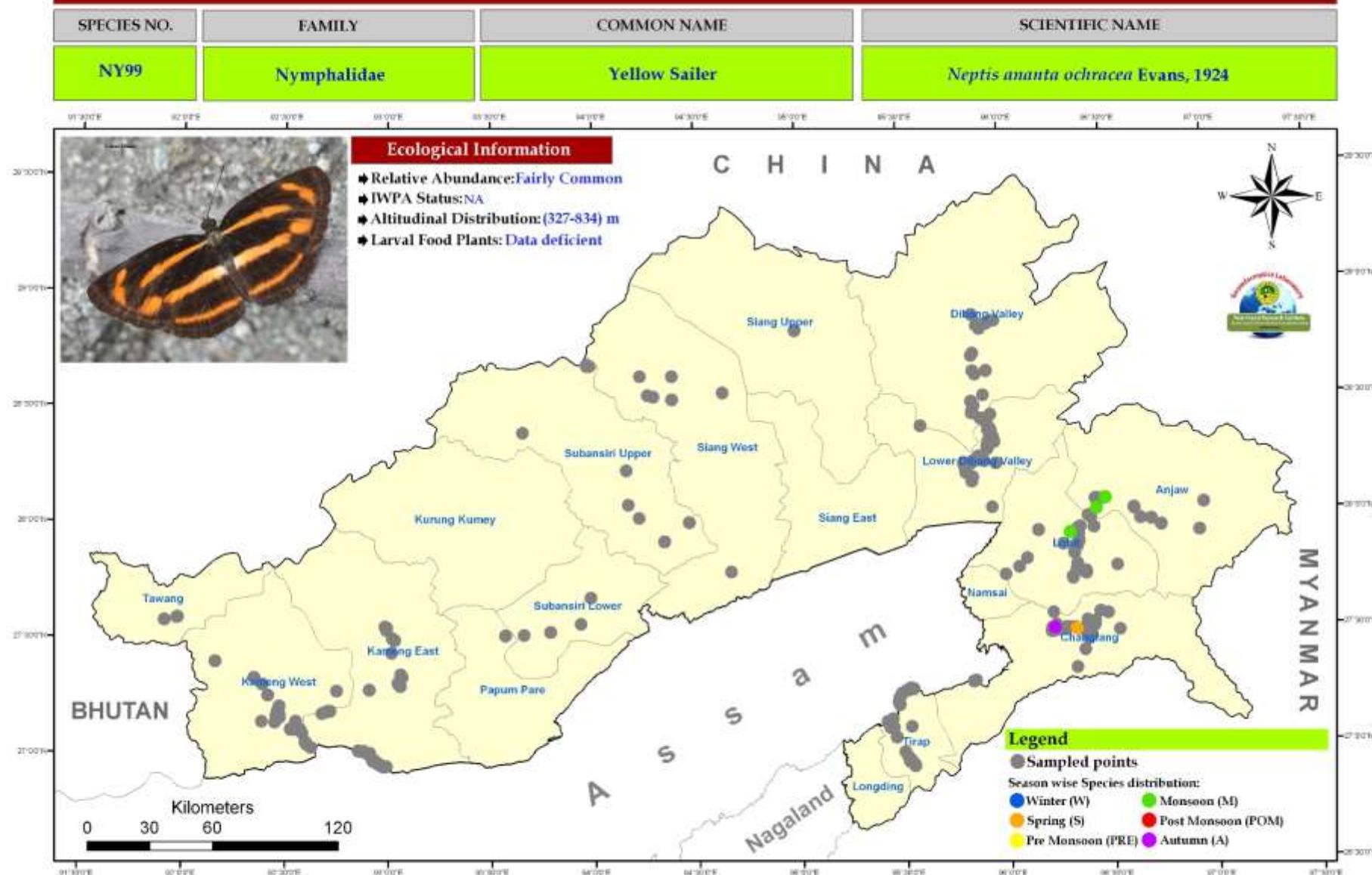
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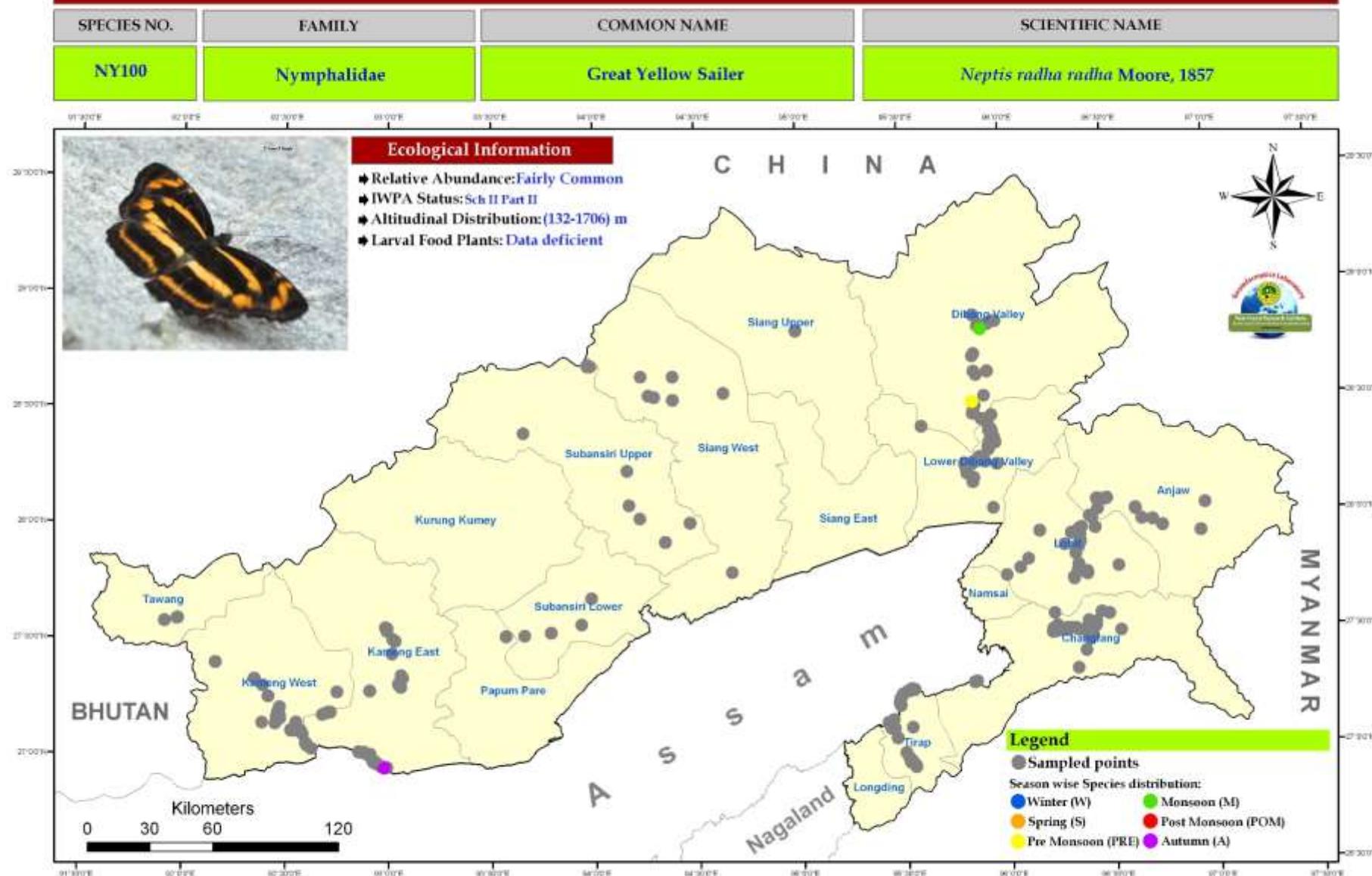
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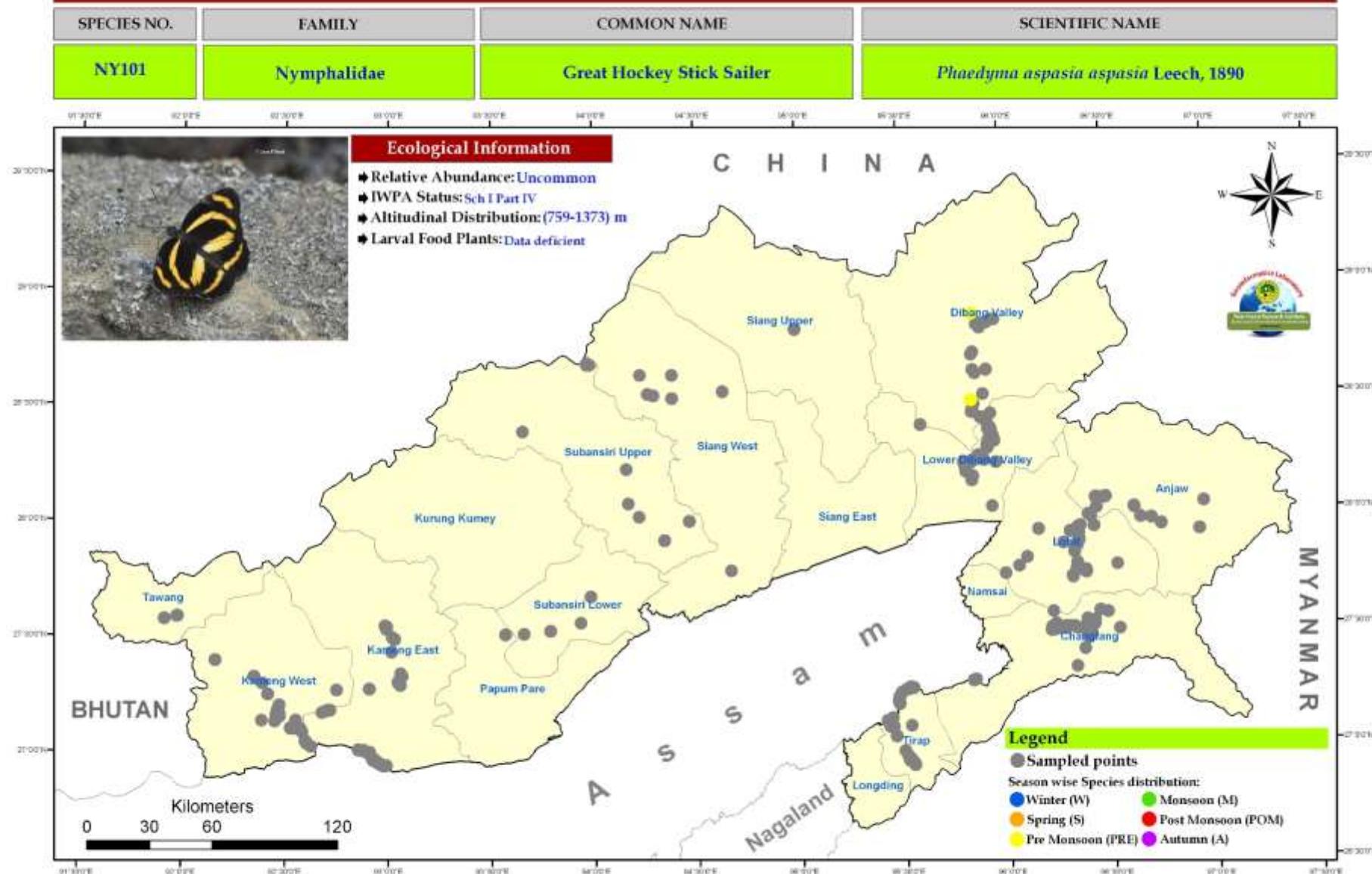
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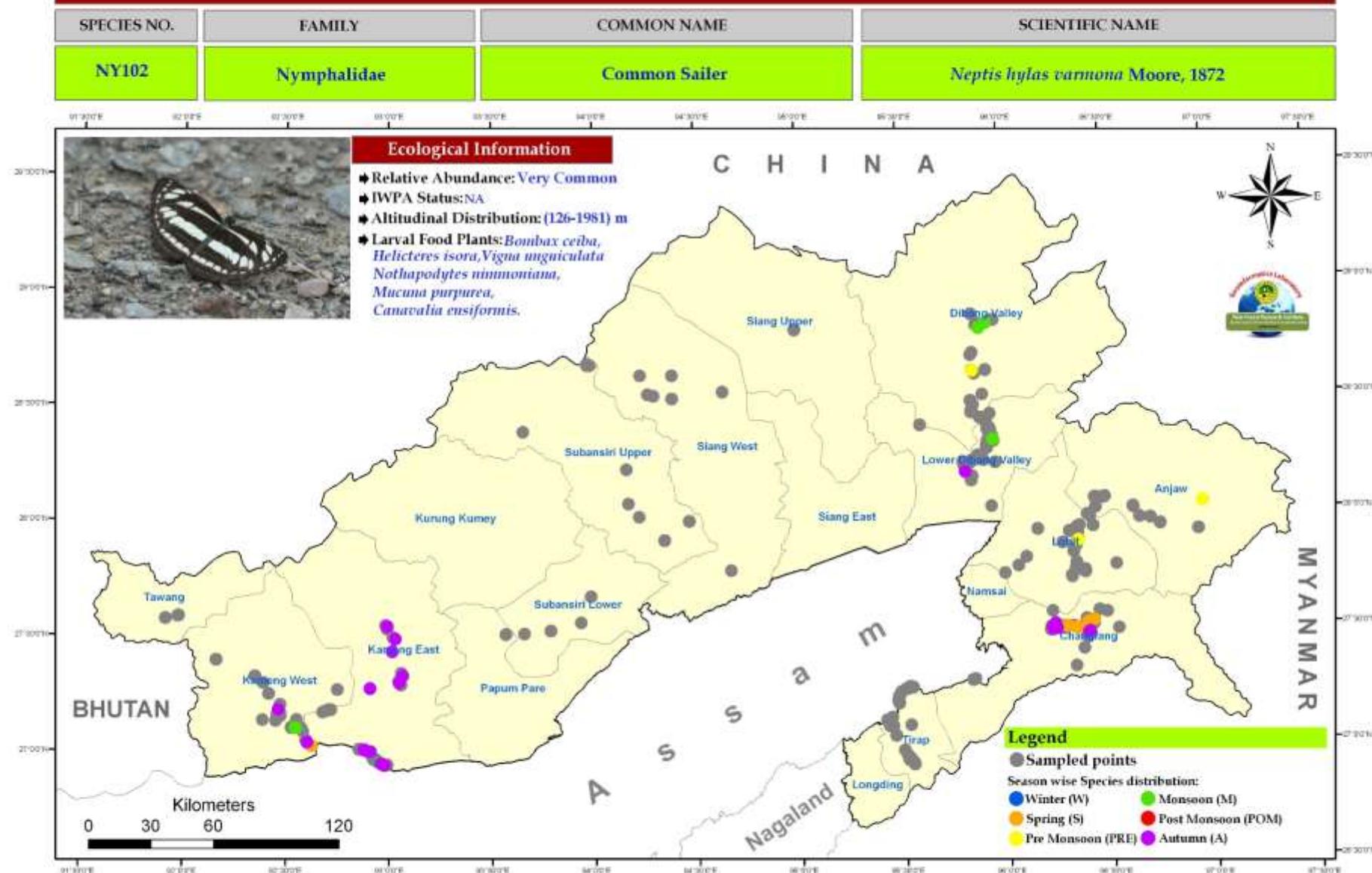
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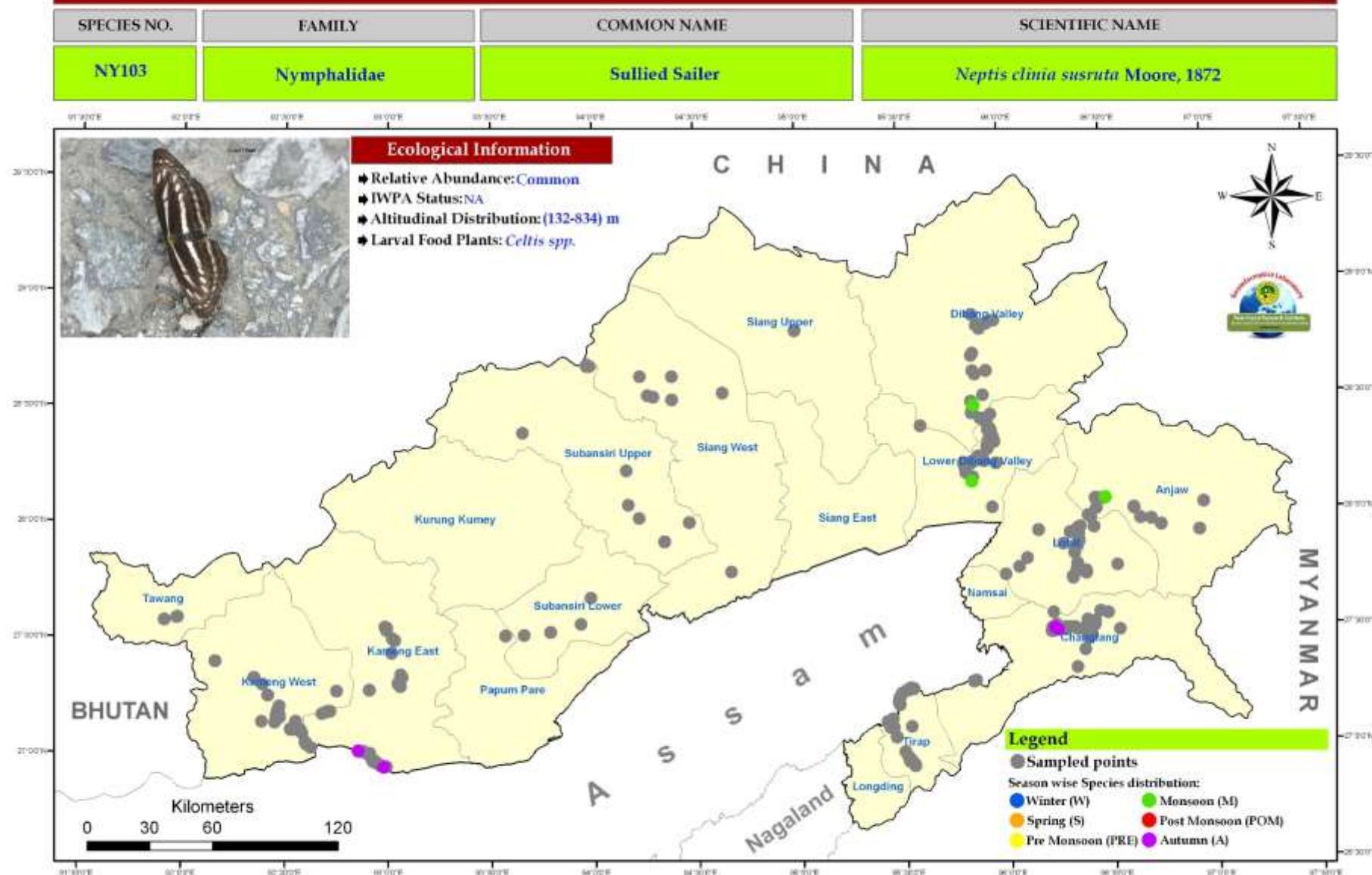
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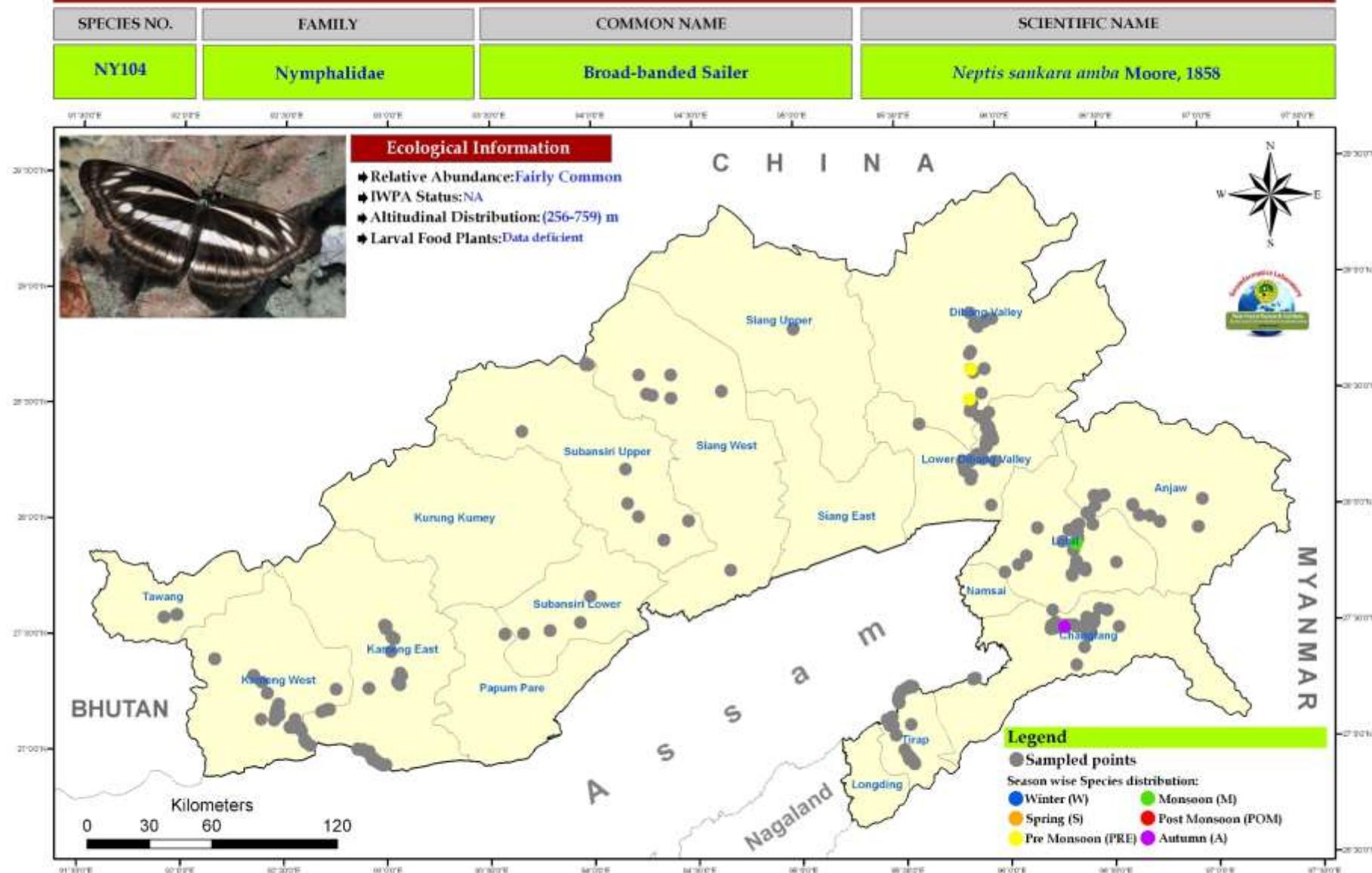
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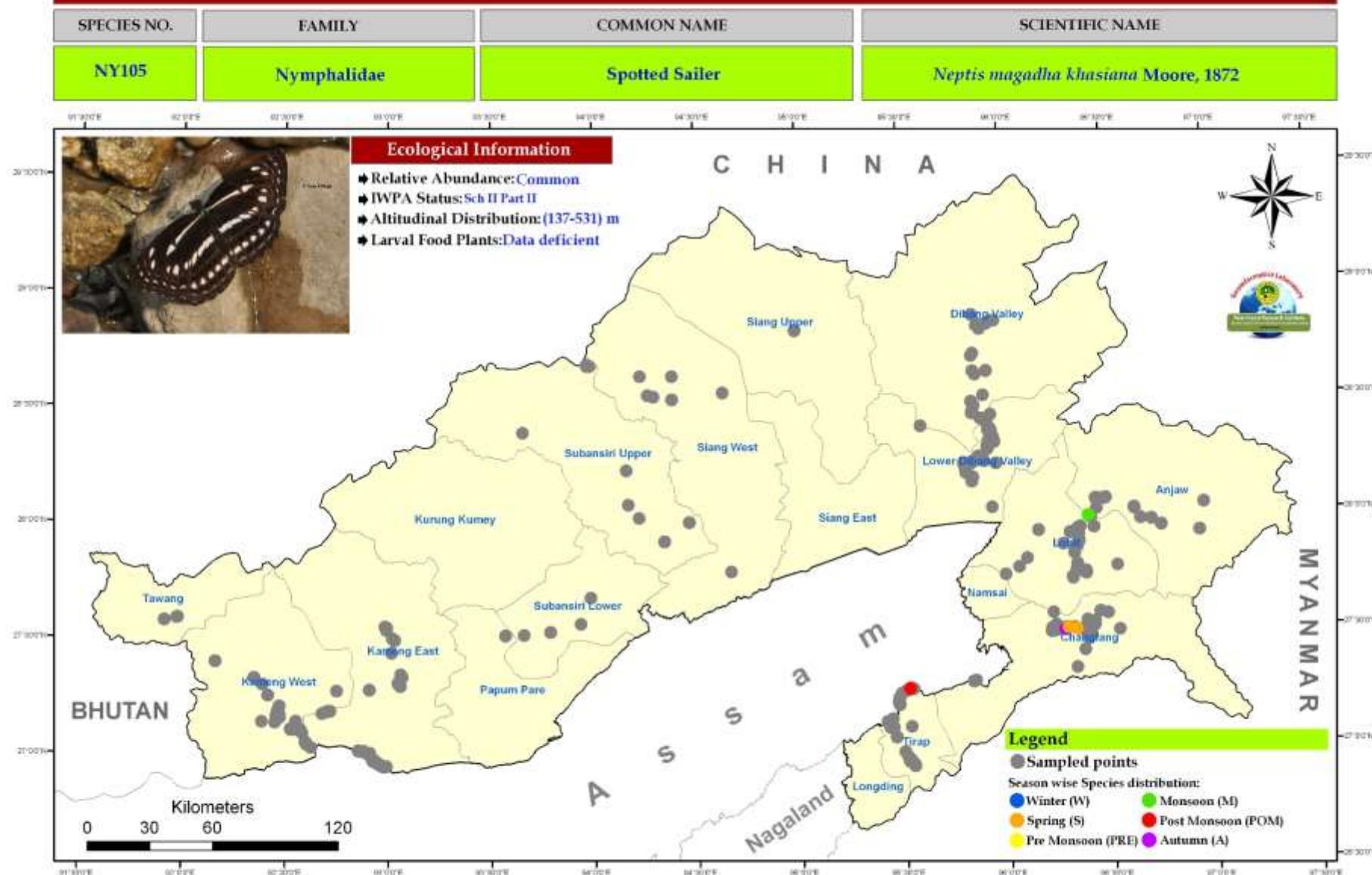
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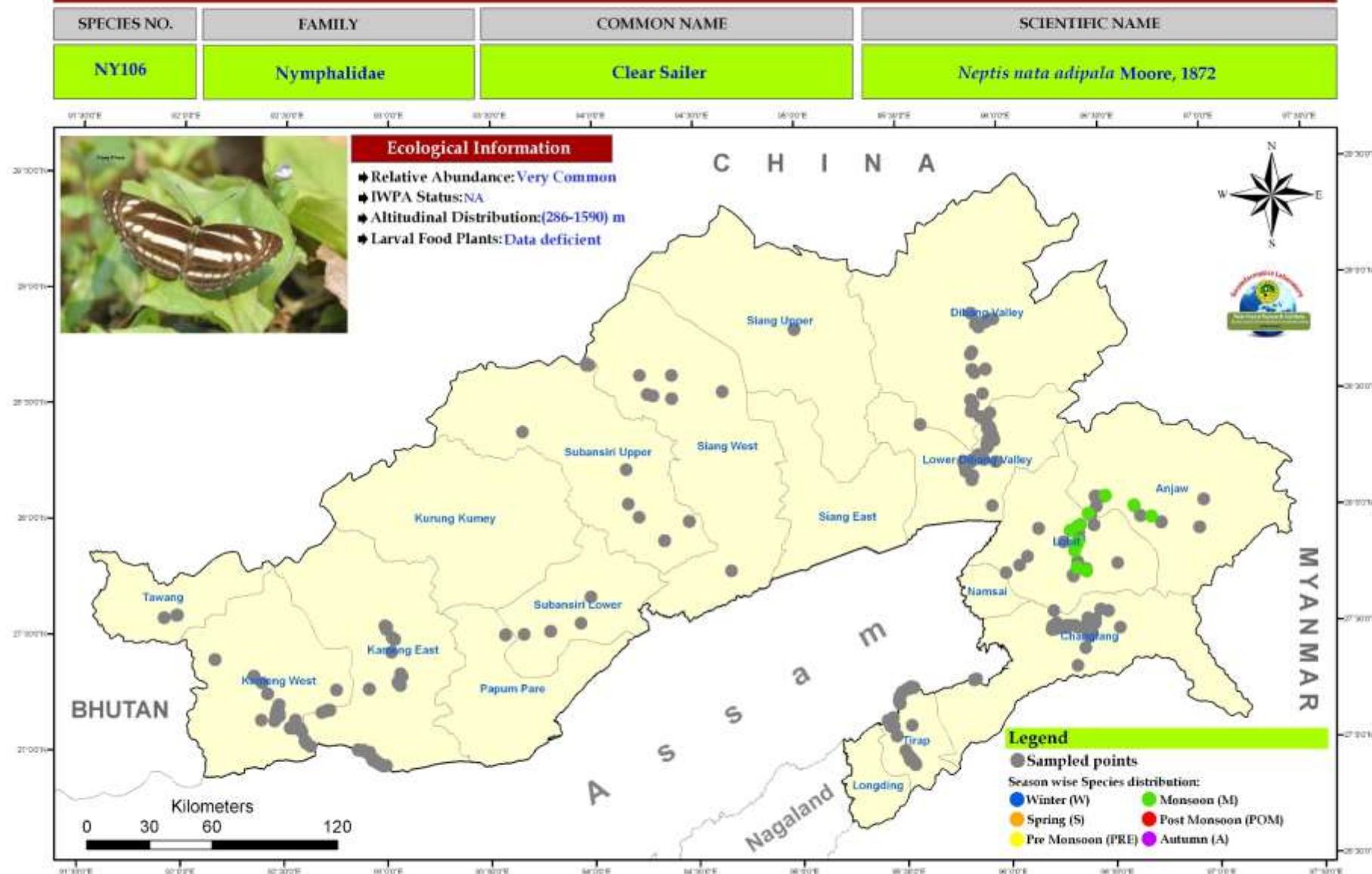
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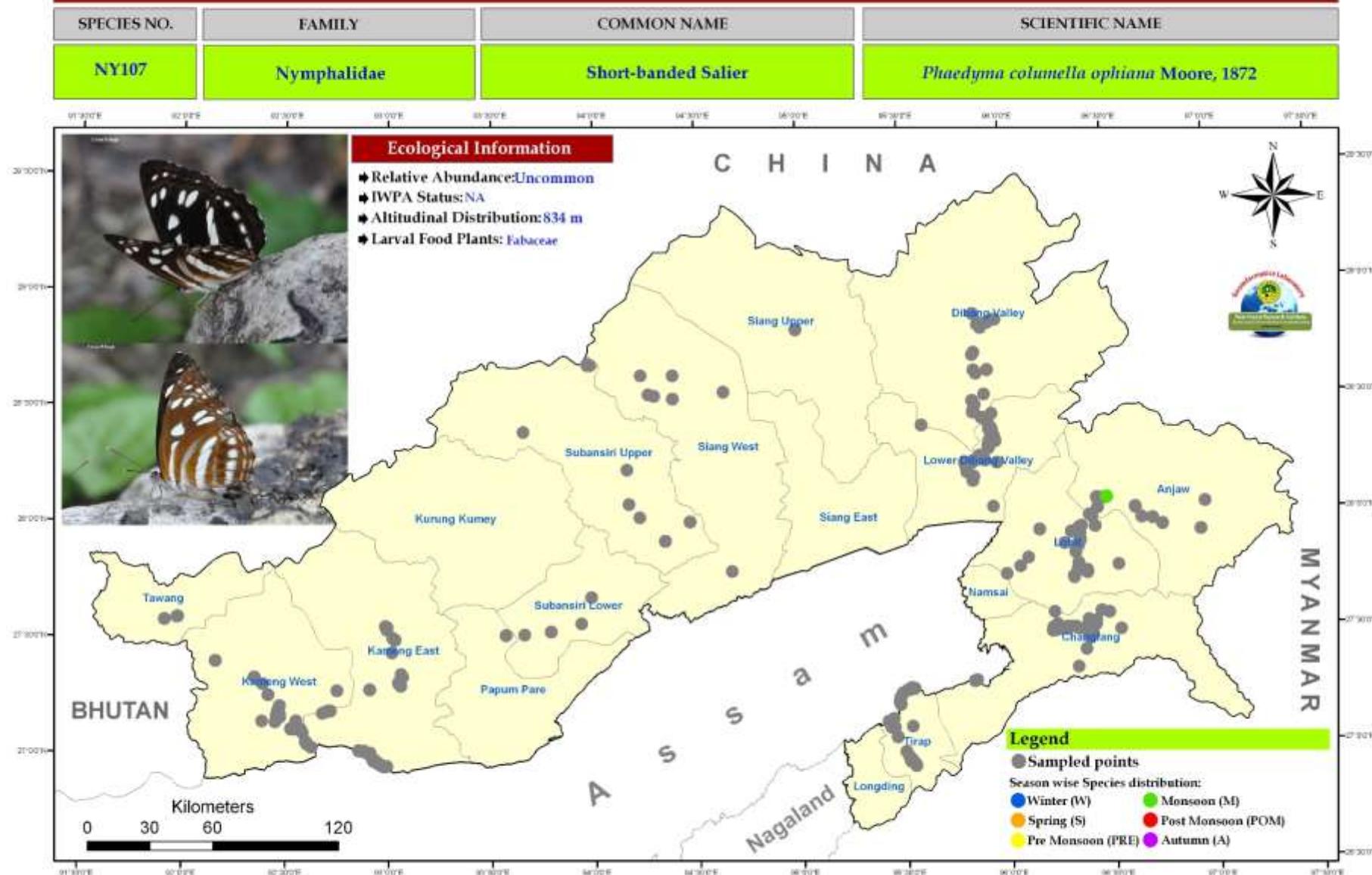
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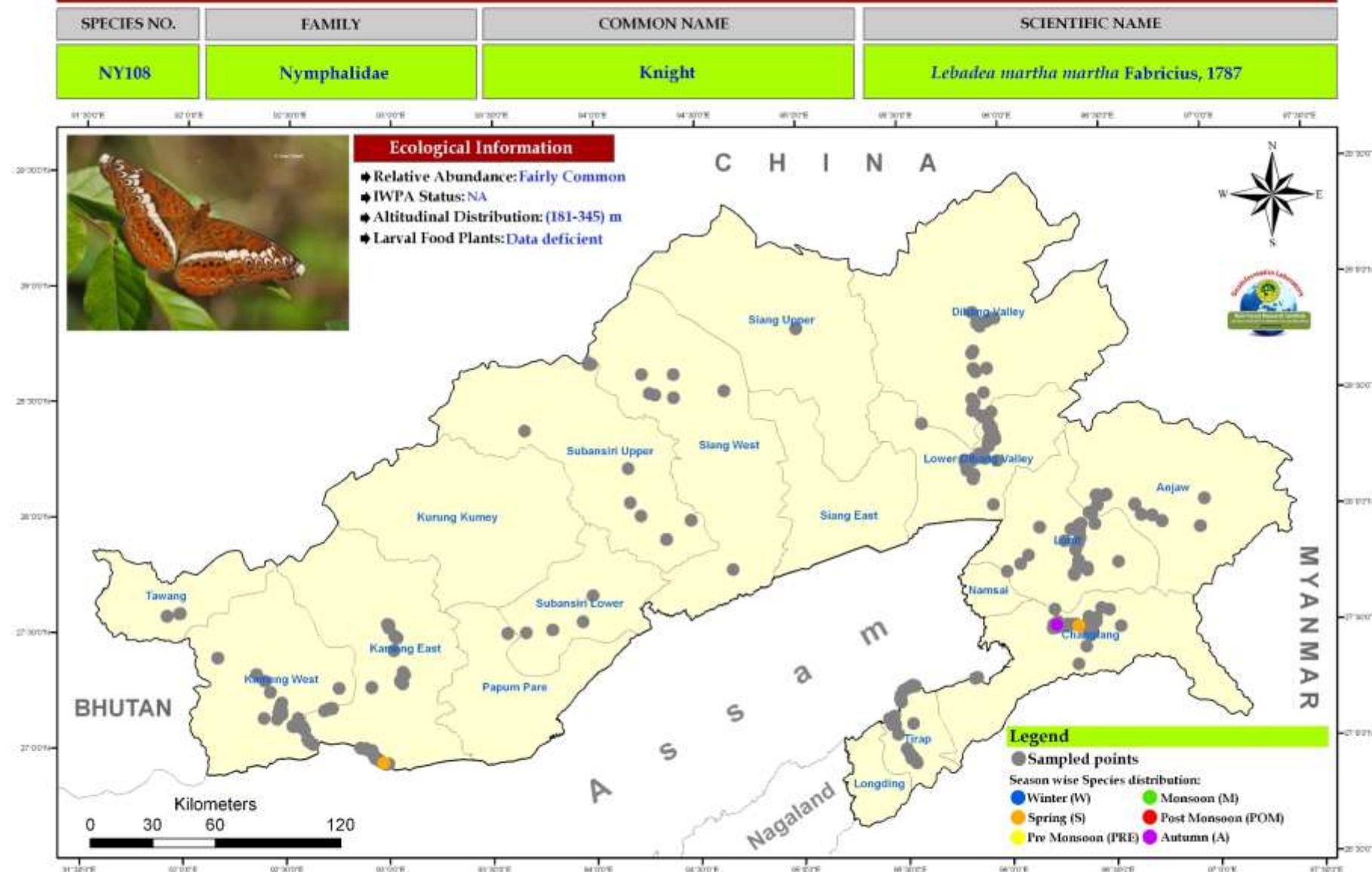
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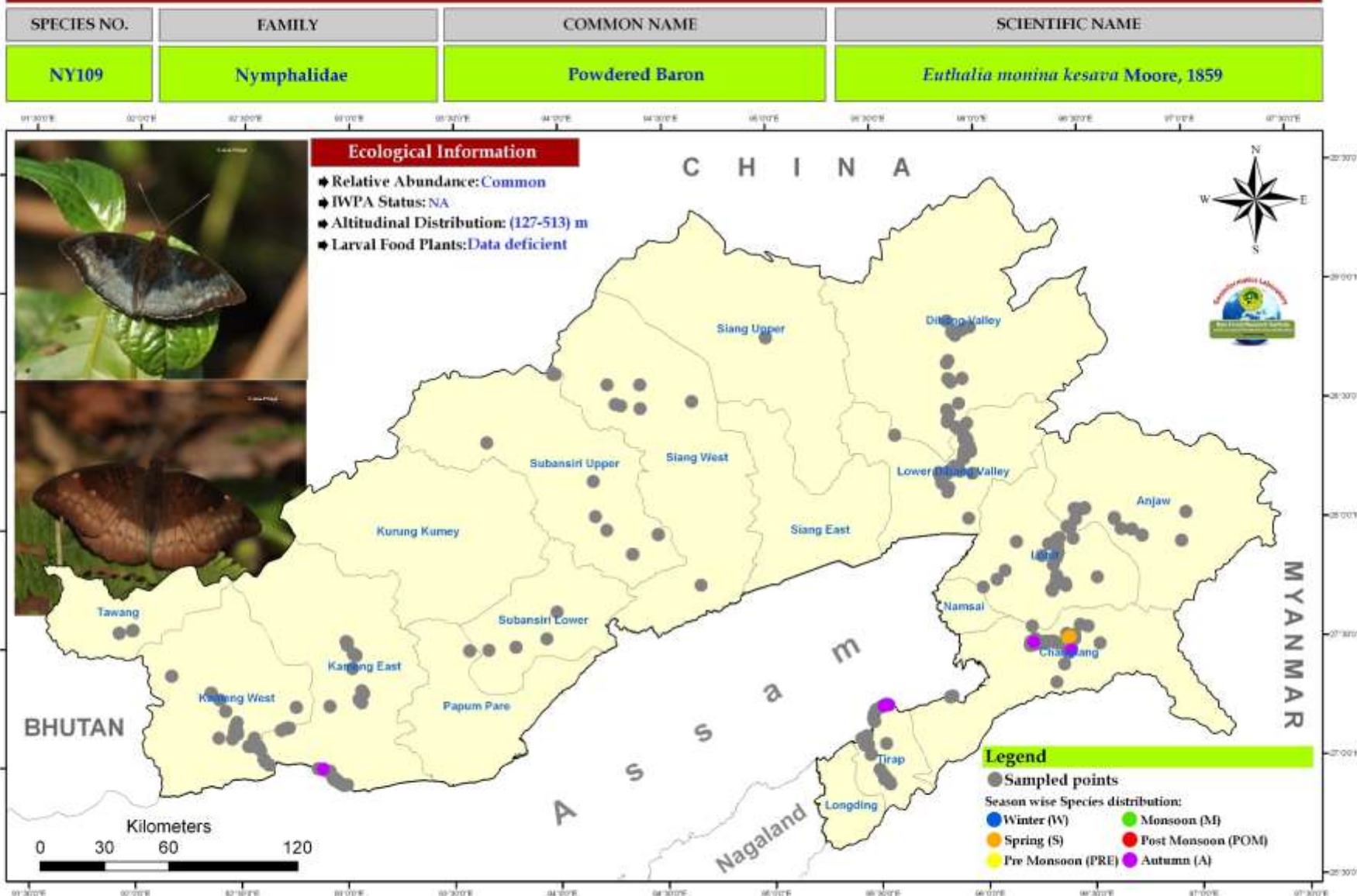
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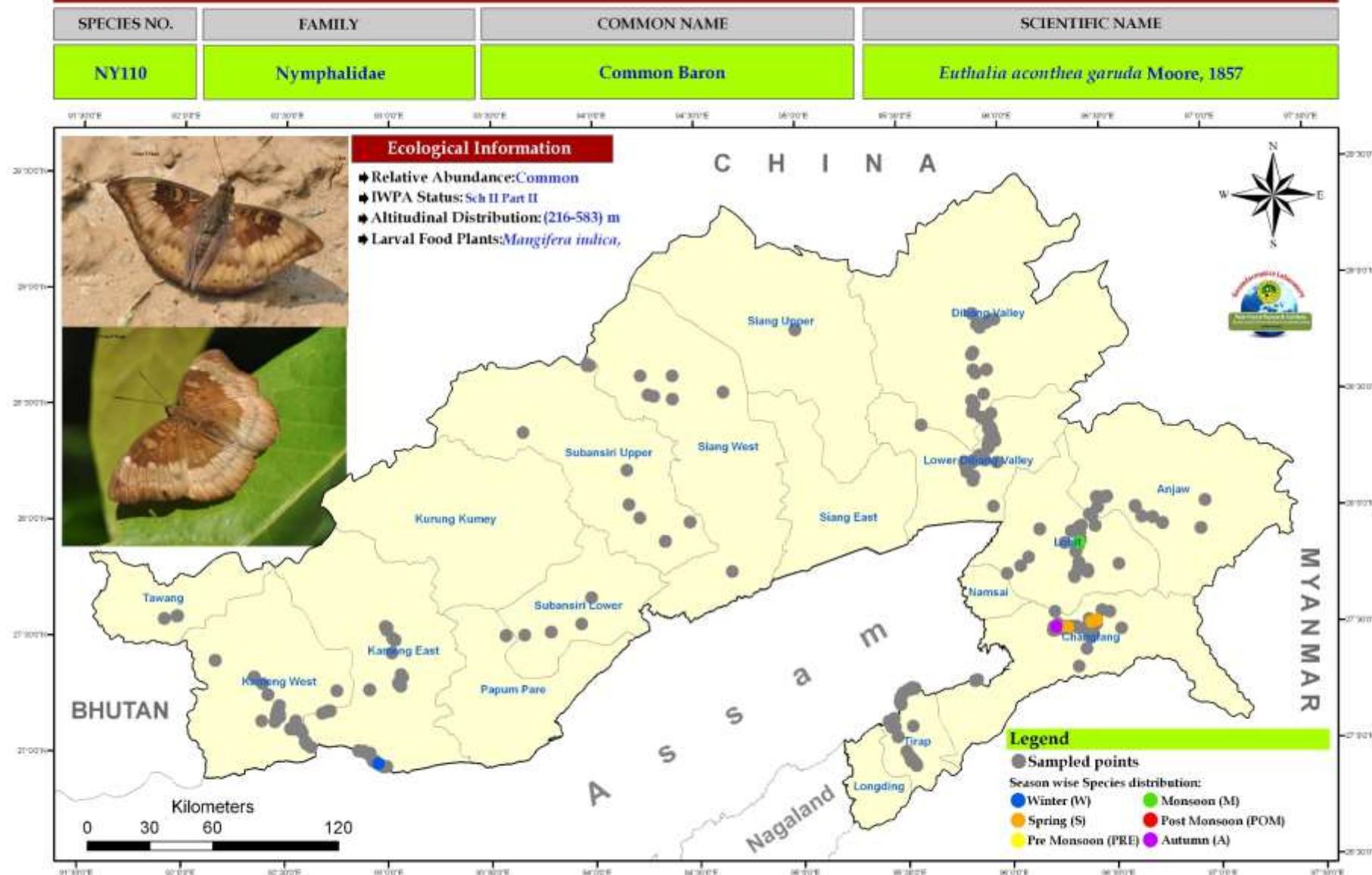
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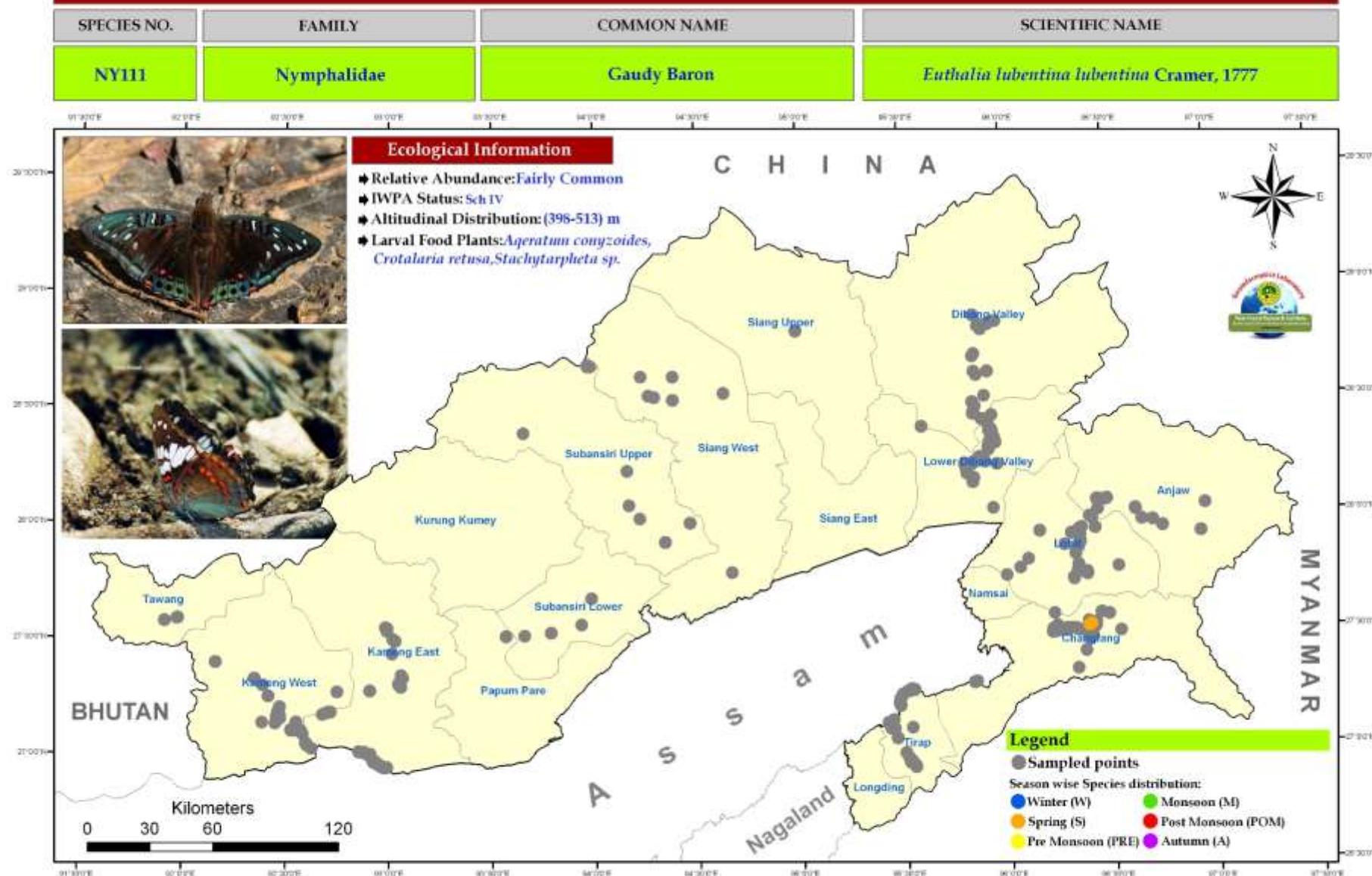
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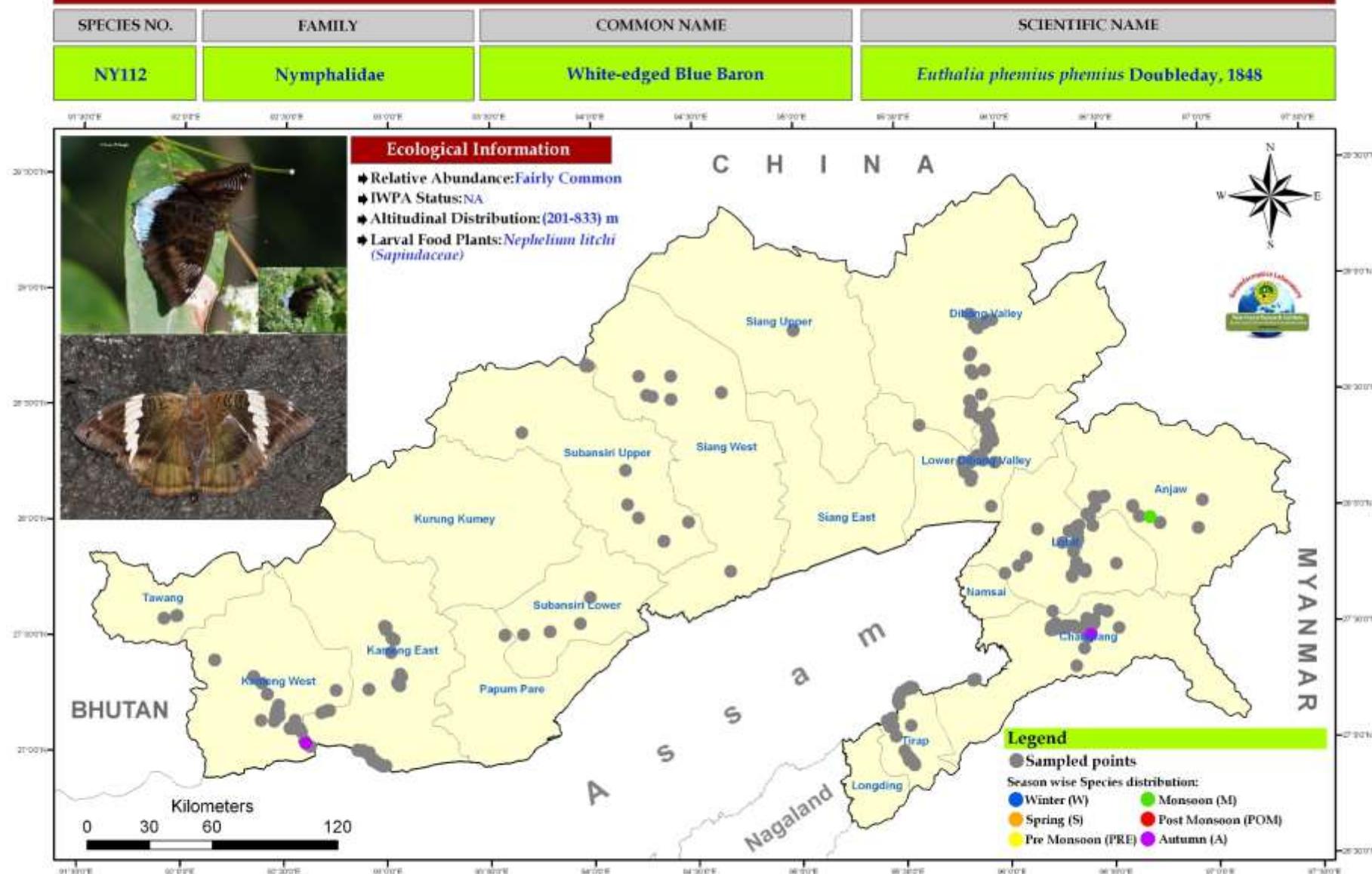
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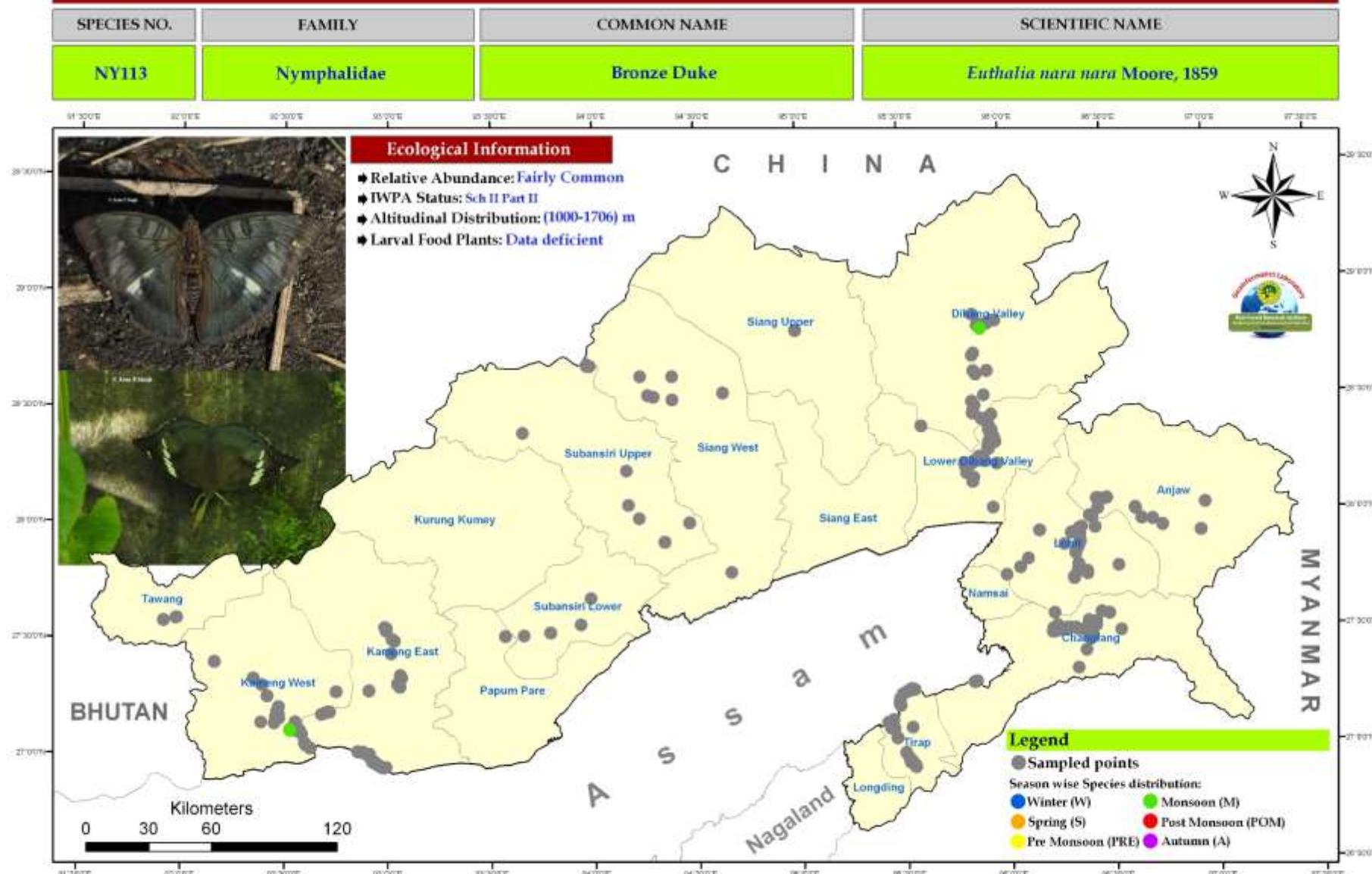
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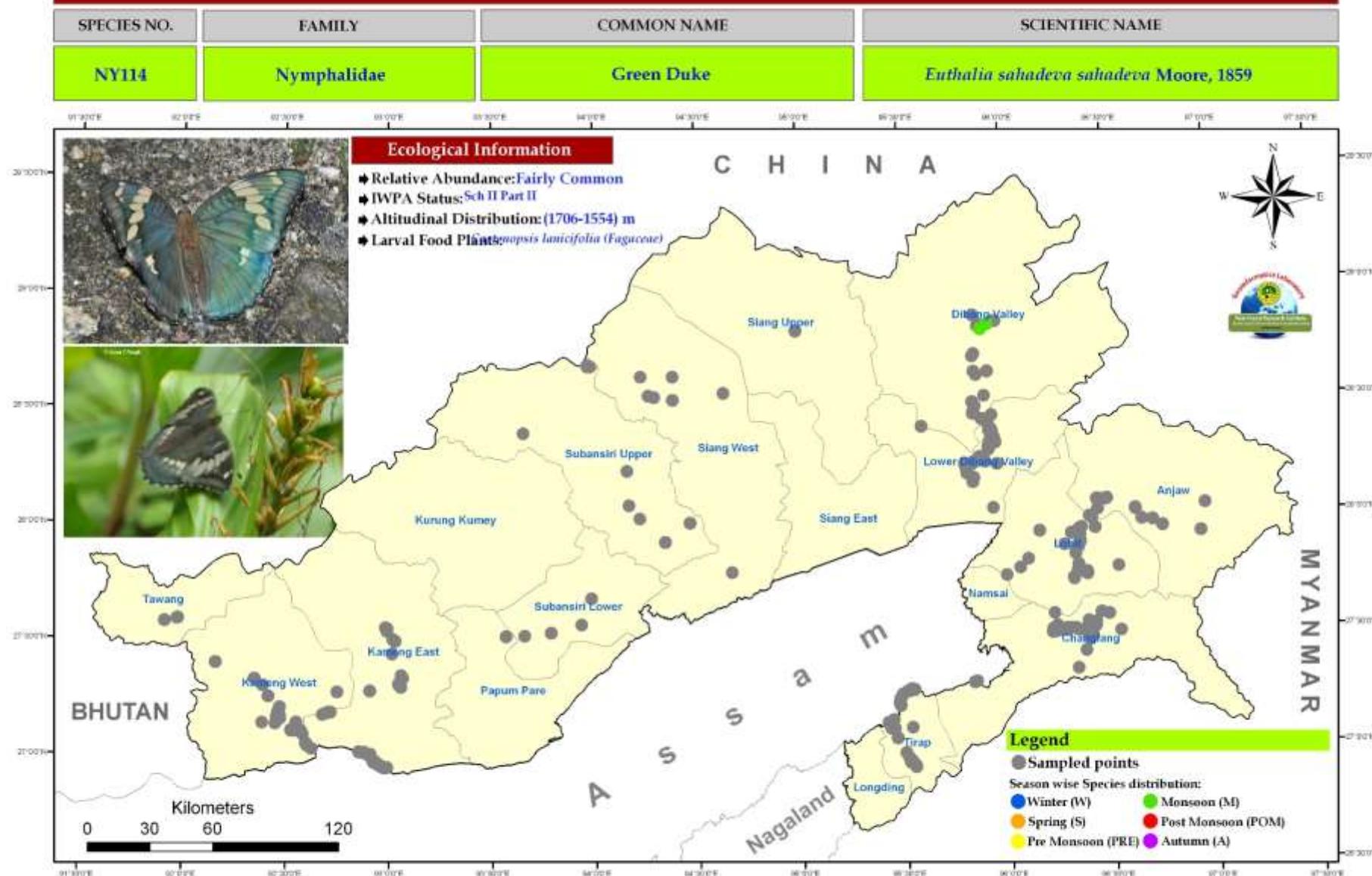
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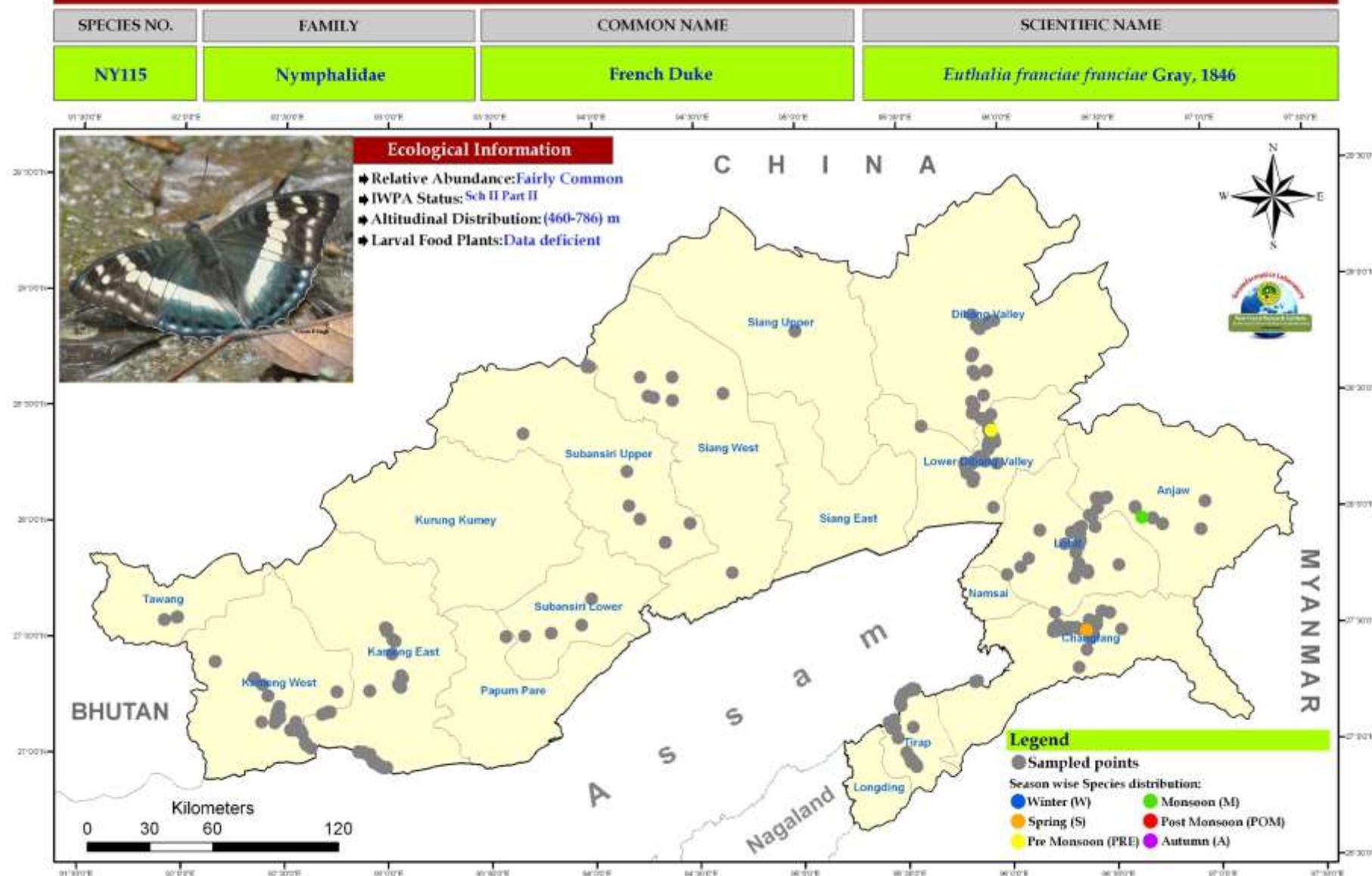
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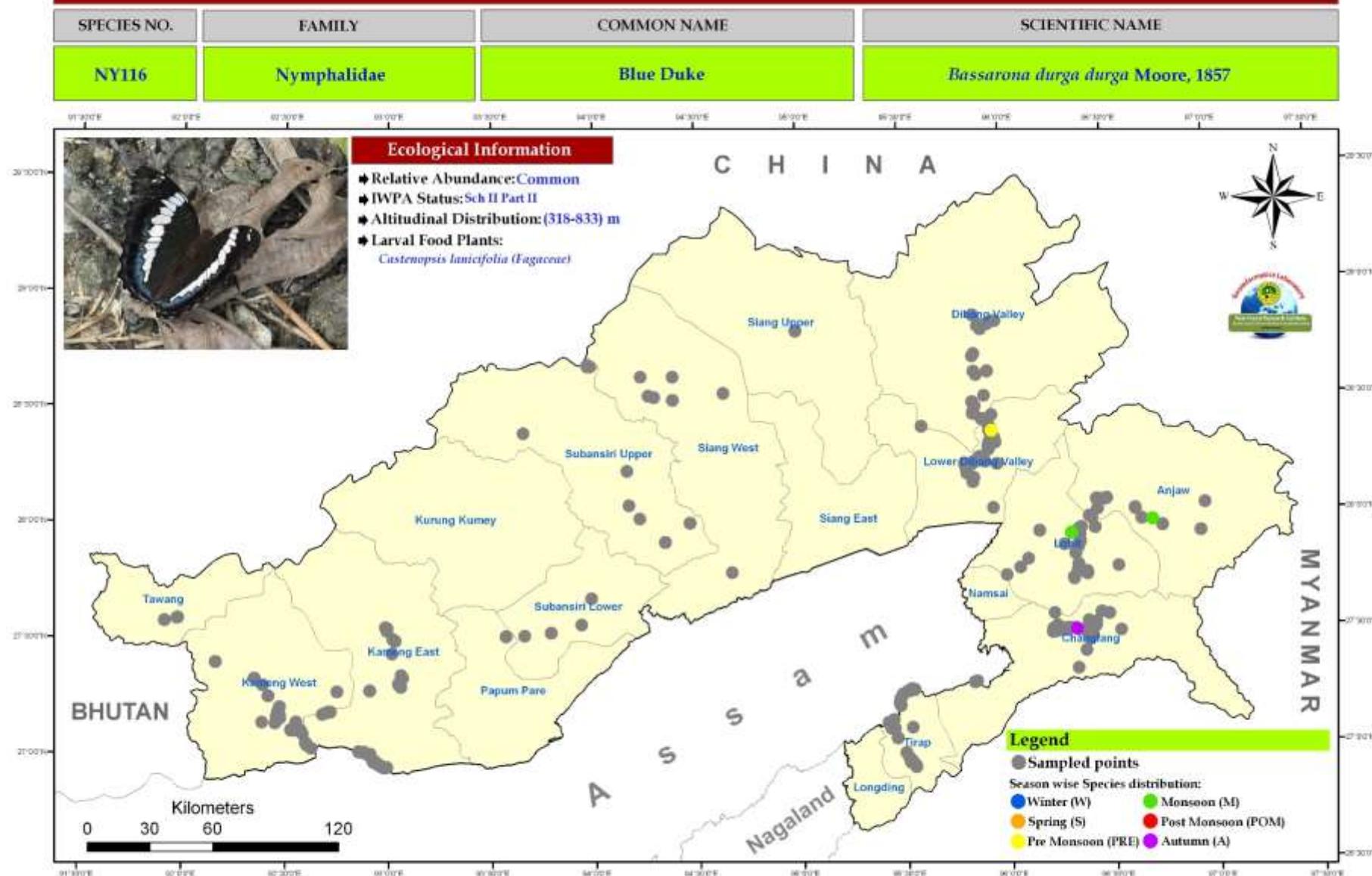
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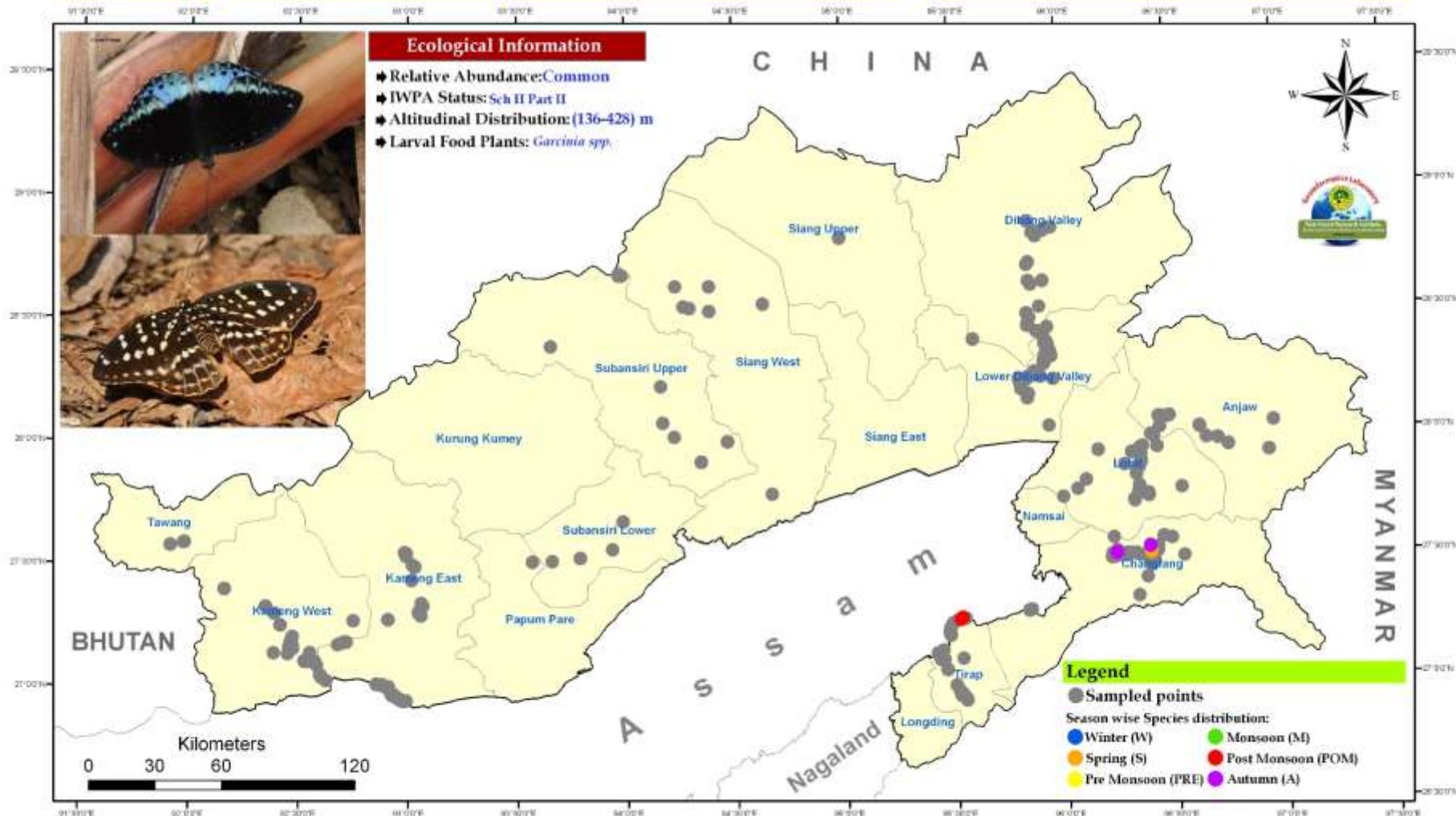


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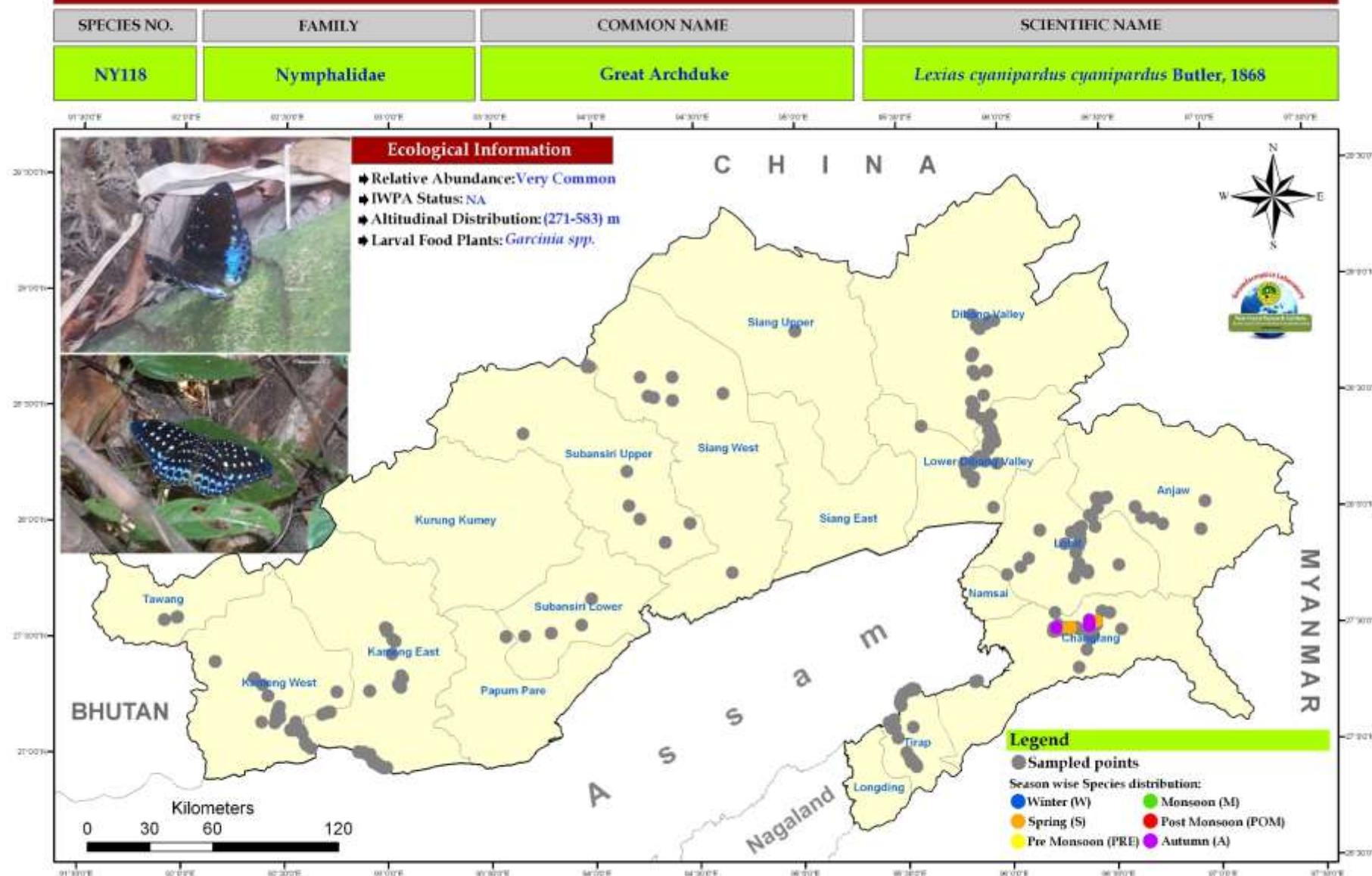


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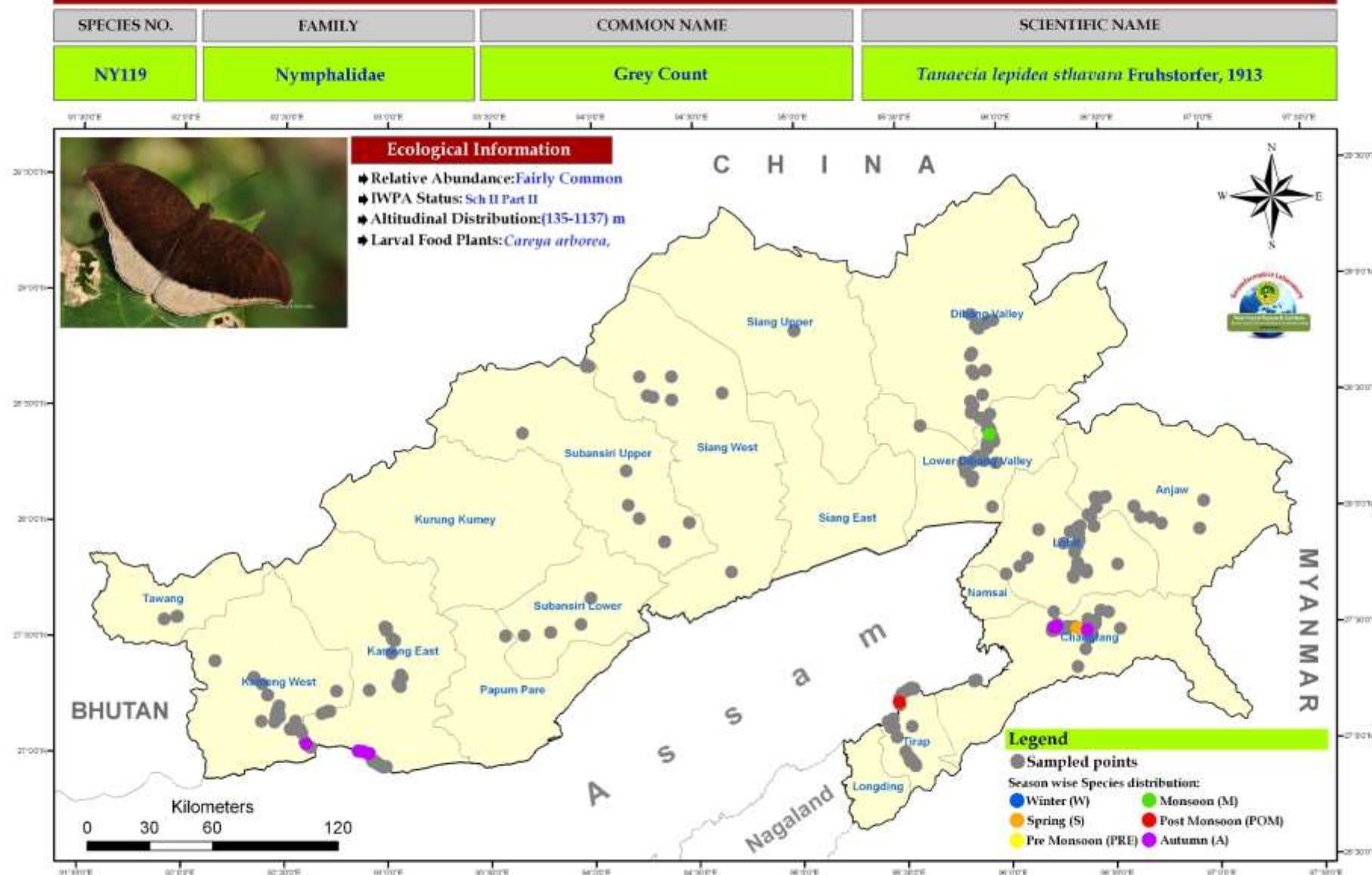
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NY117	Nymphalidae	Dark Archduke	<i>Lexias dirtea khasiana</i> Swinhoe, 1893



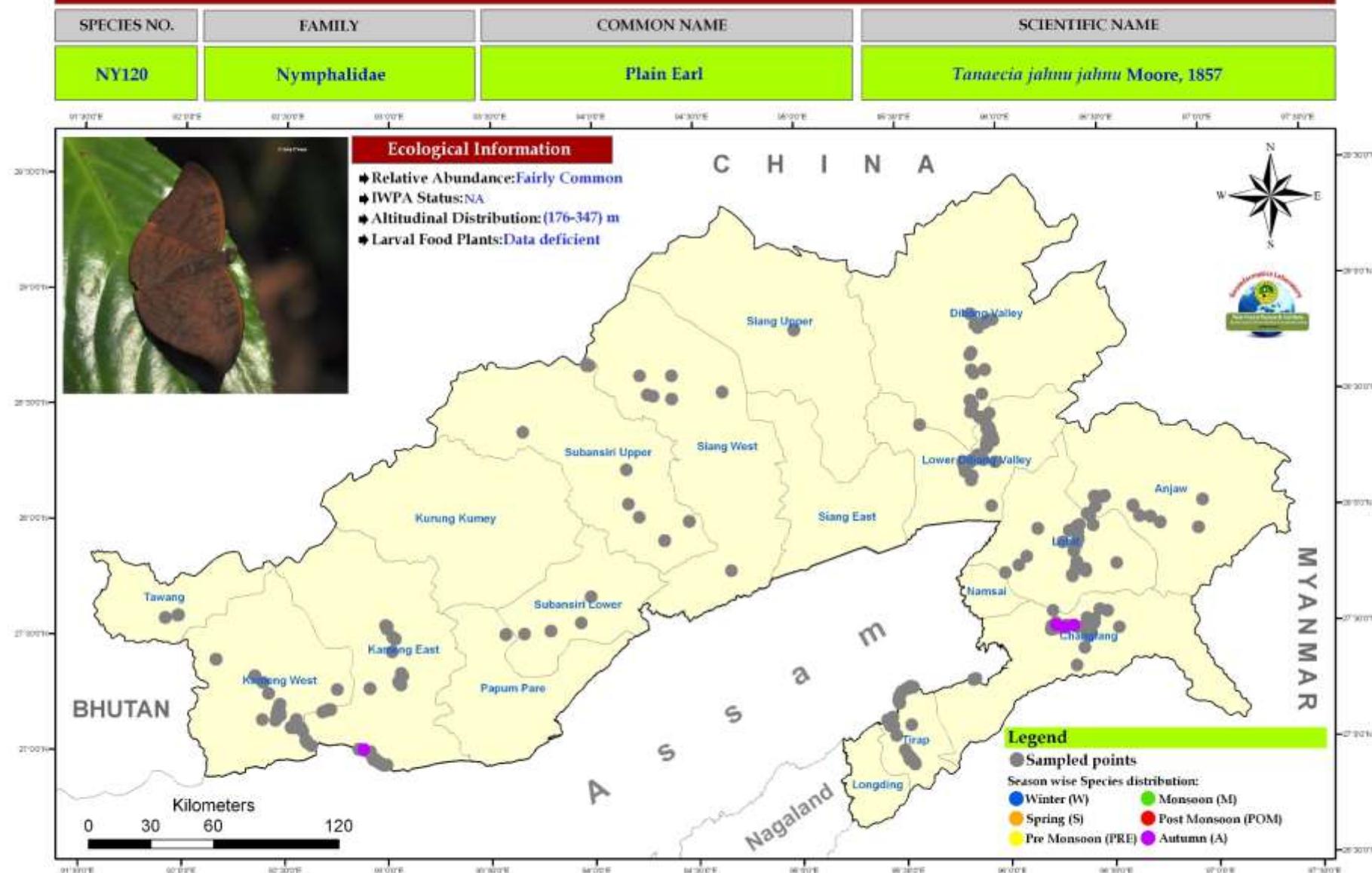
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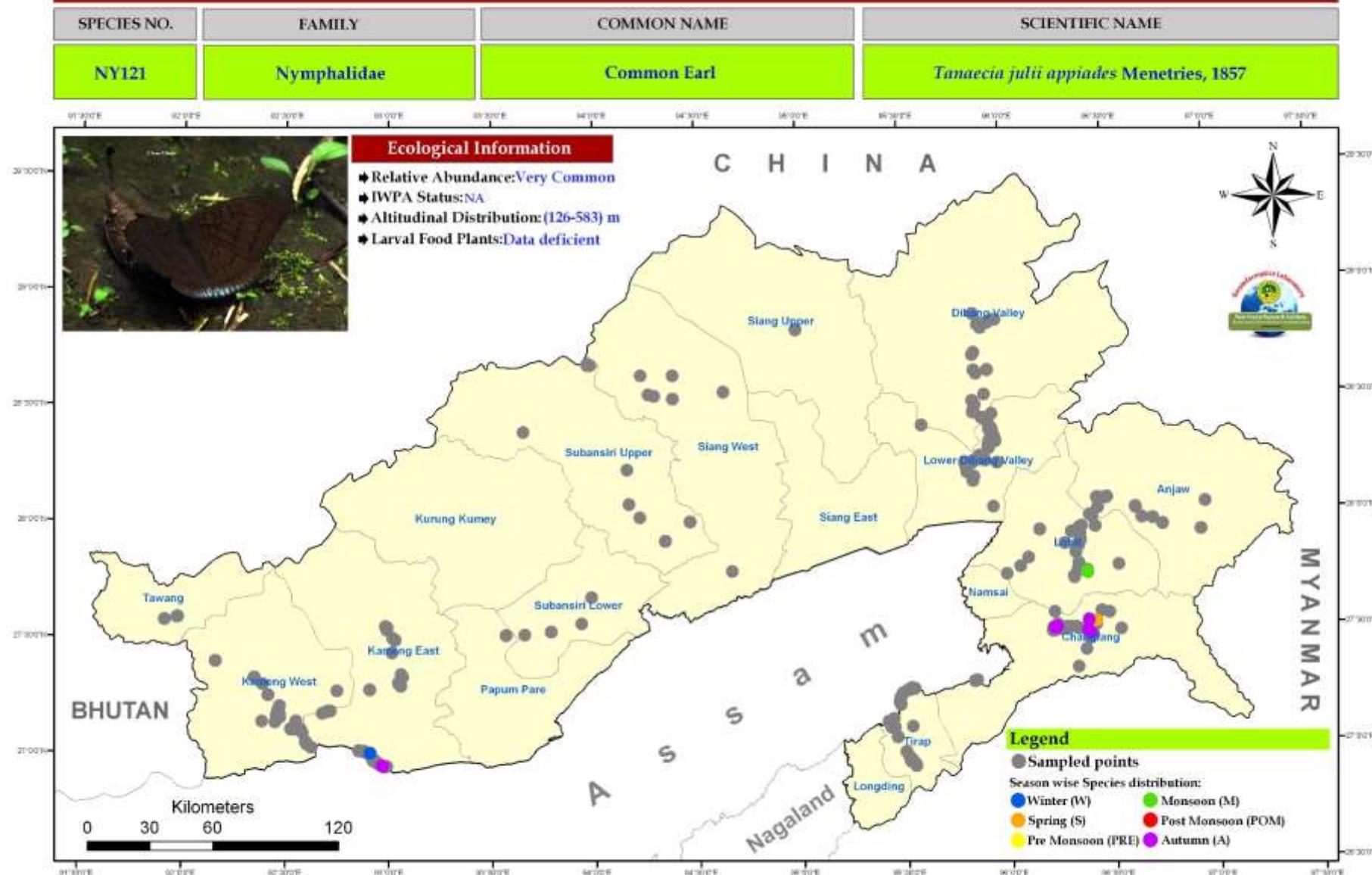
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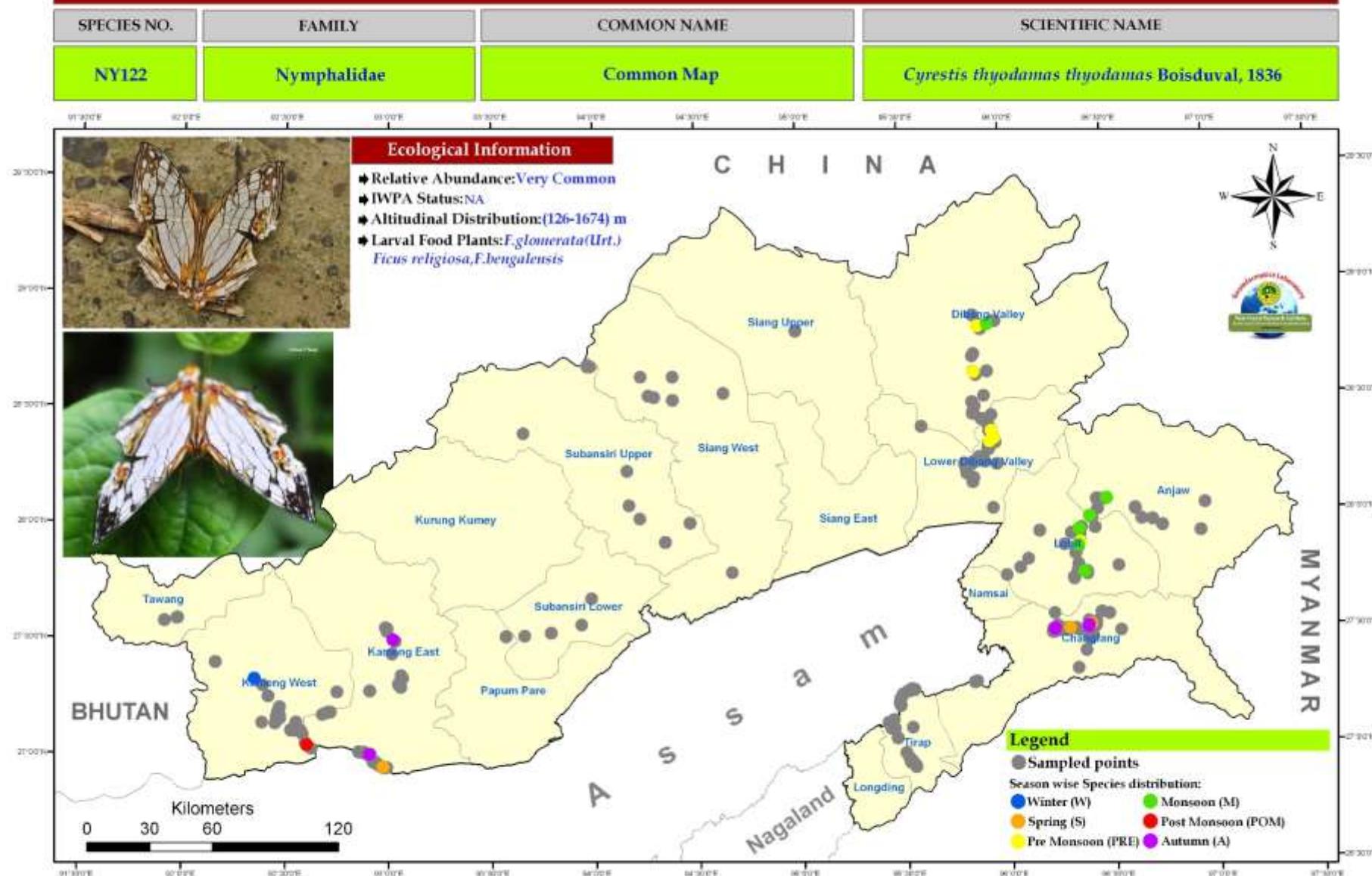
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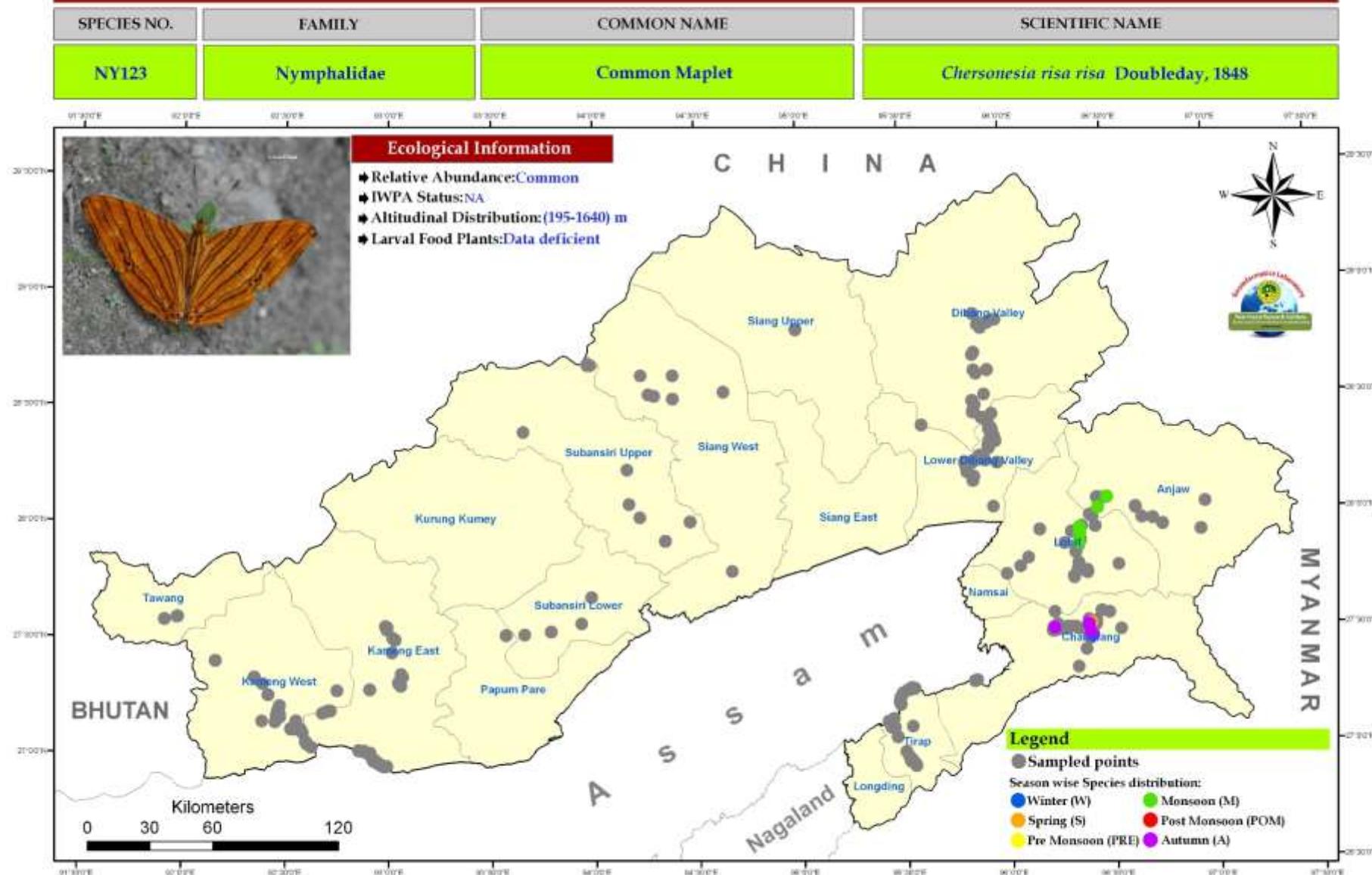
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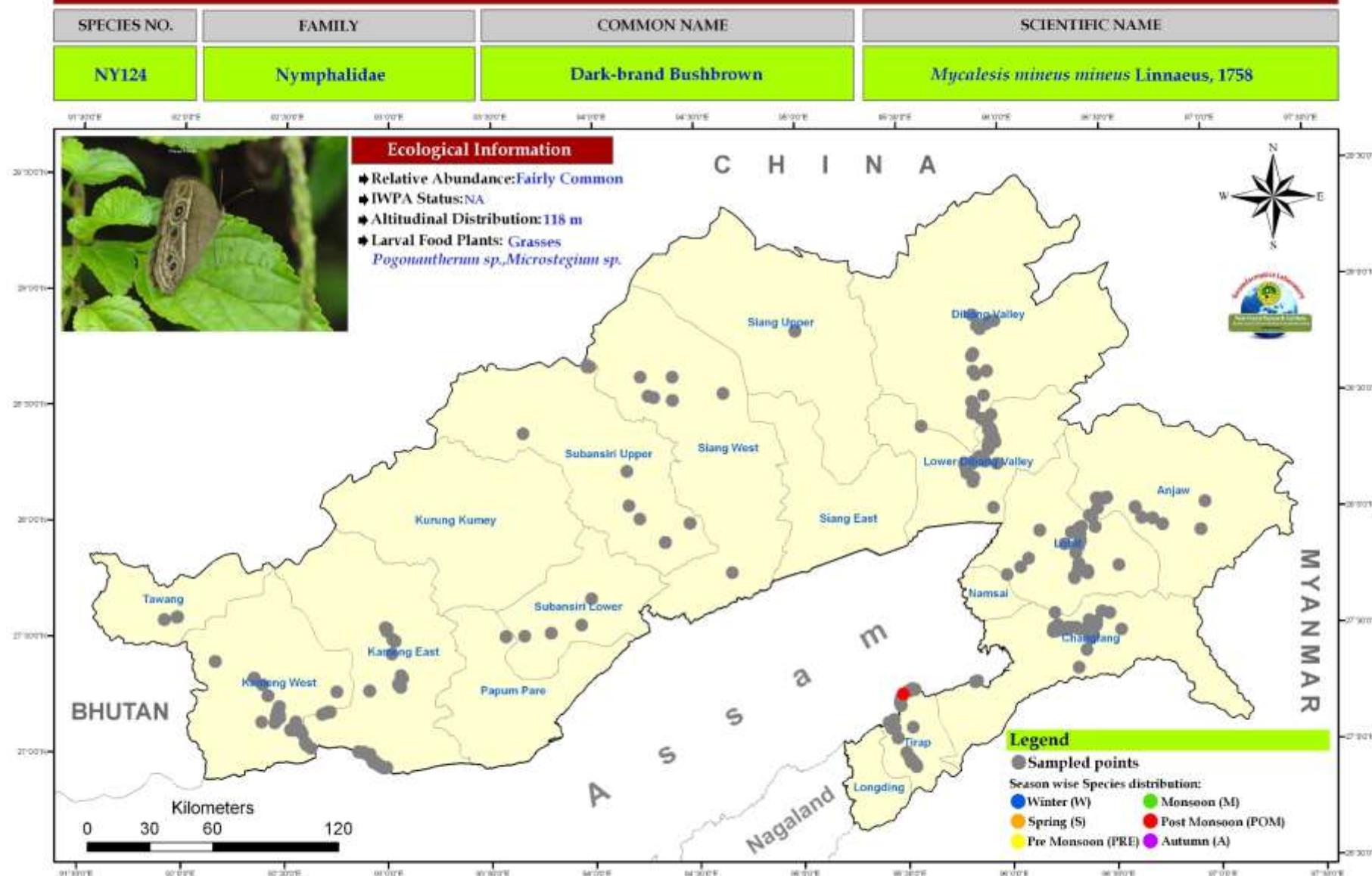
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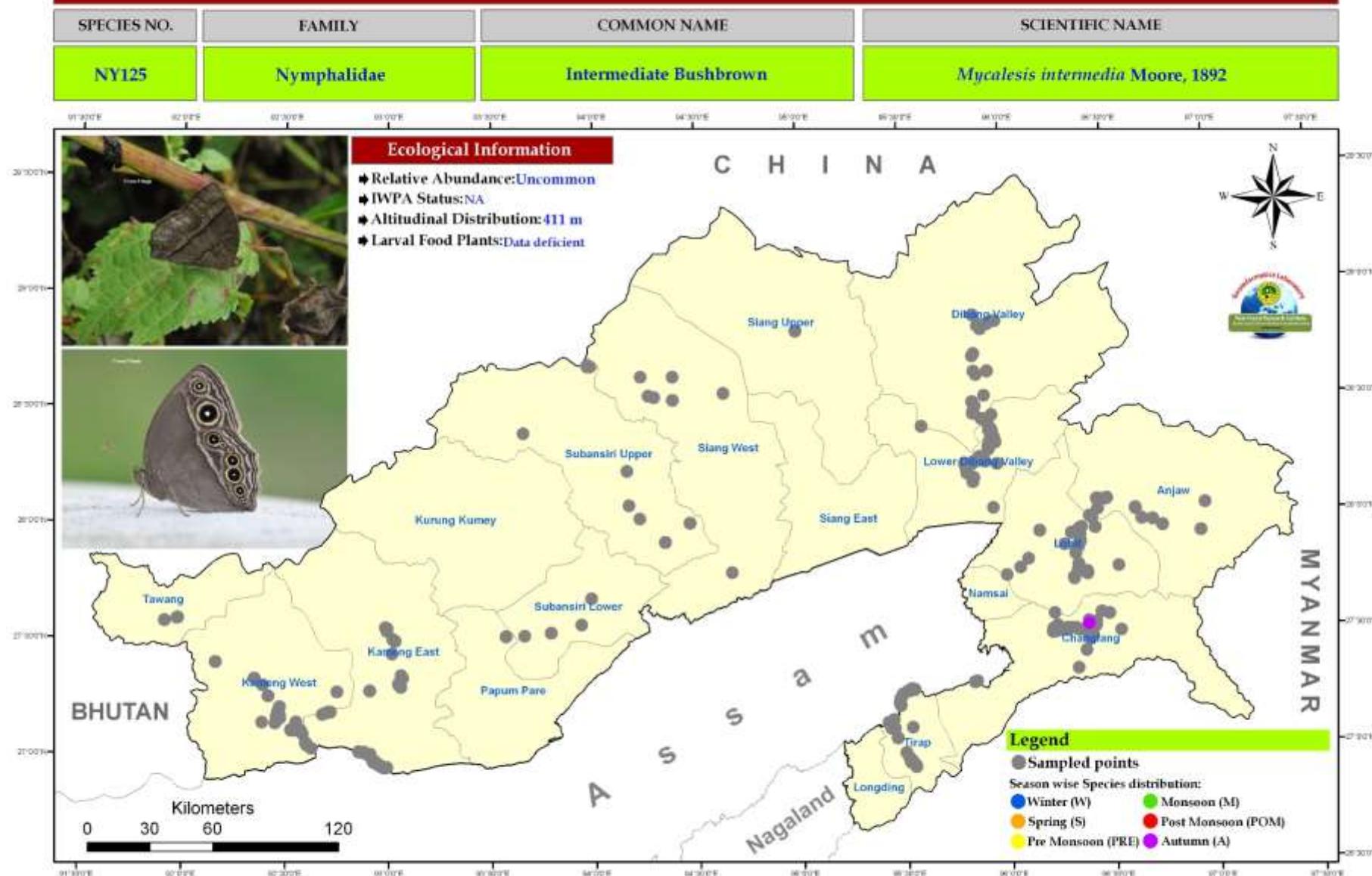
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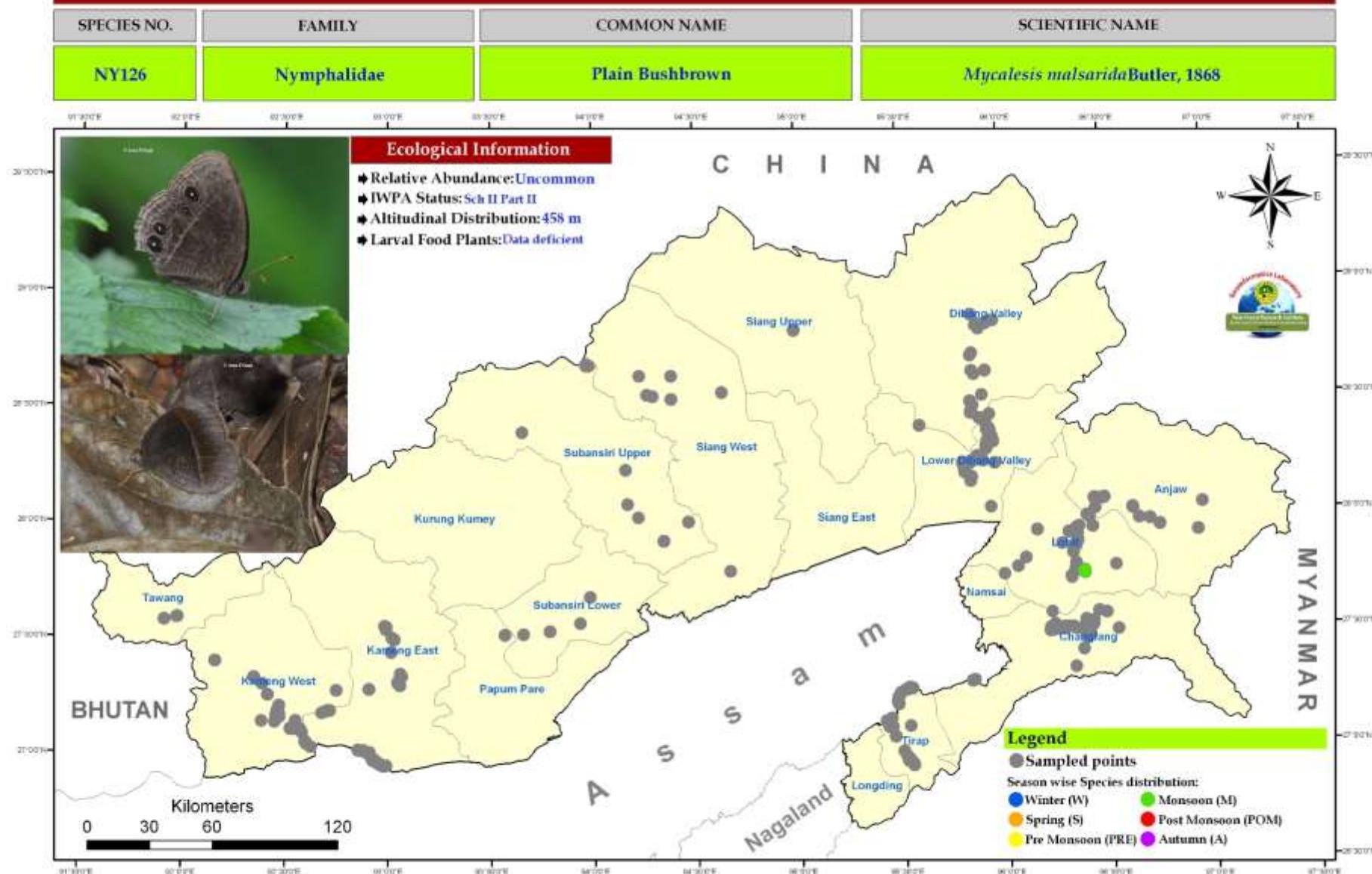
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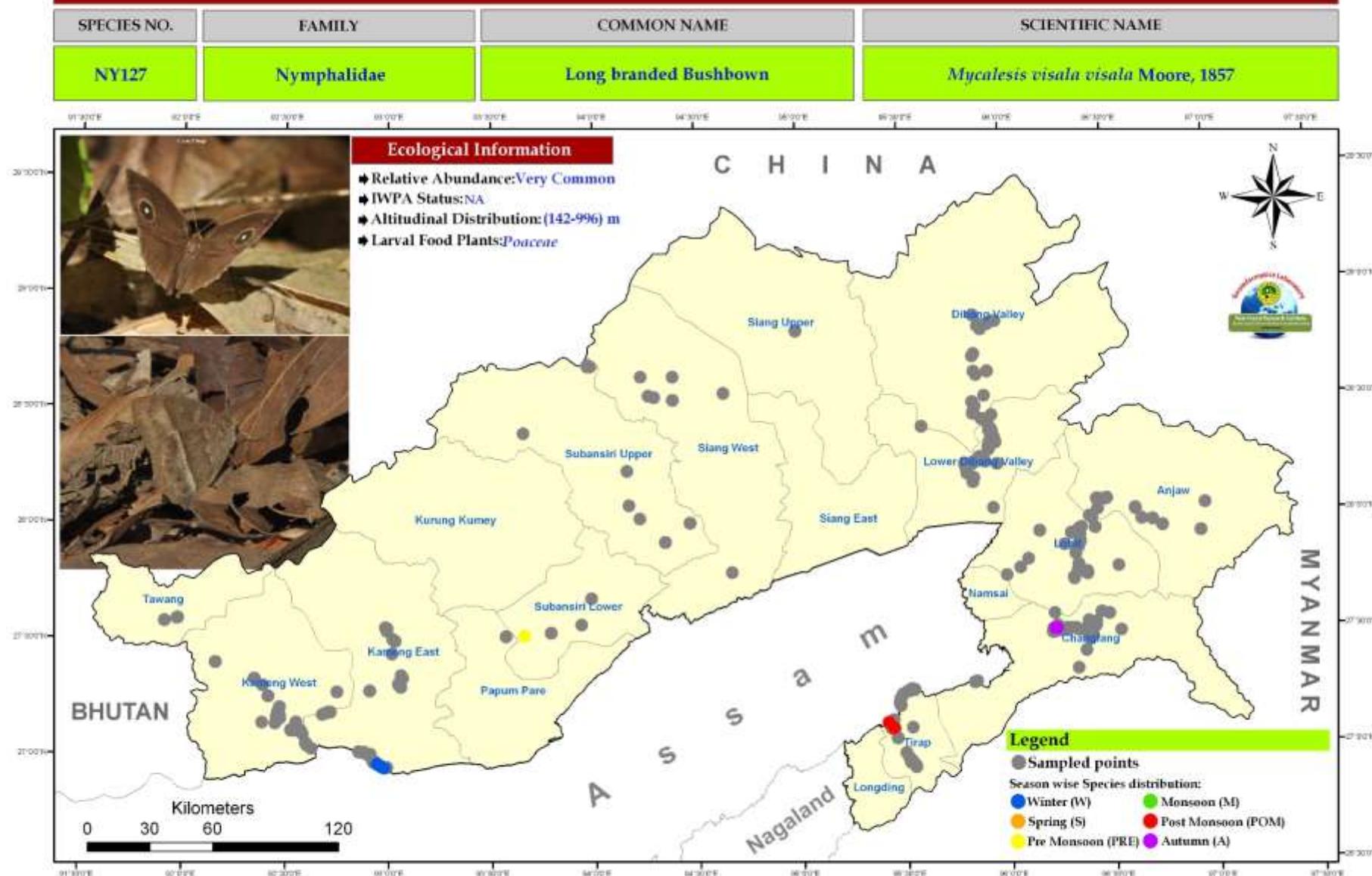
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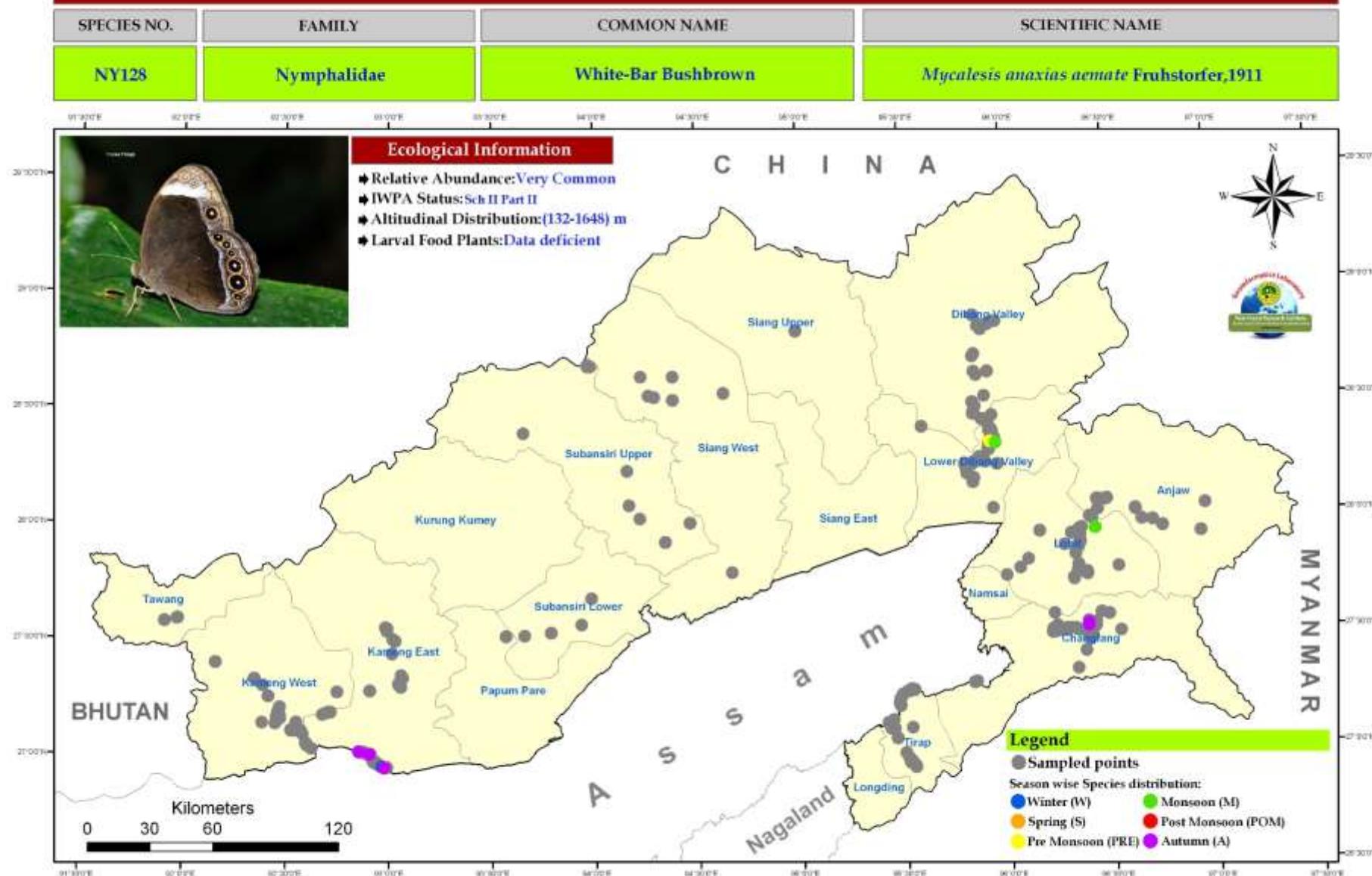
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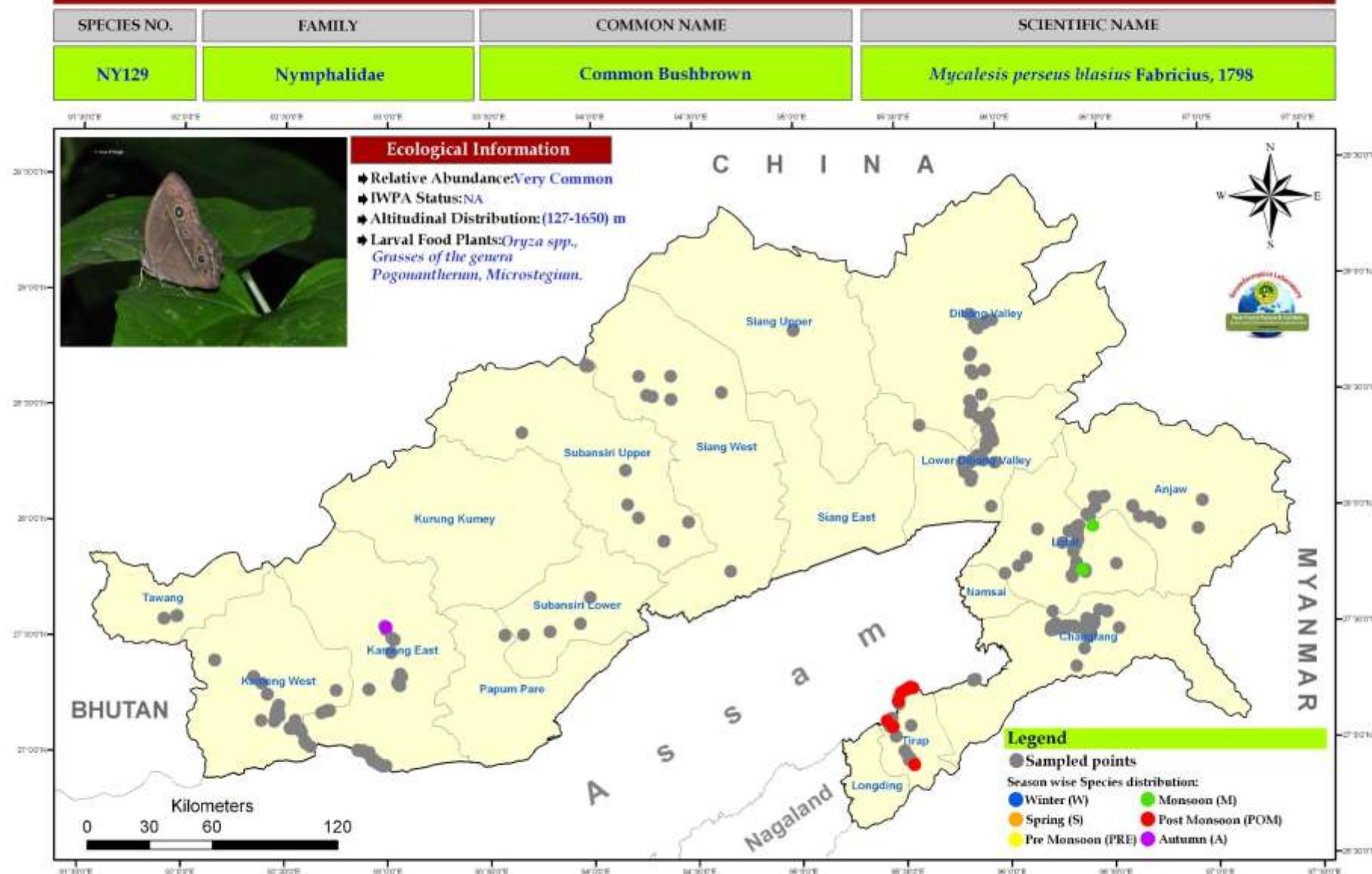
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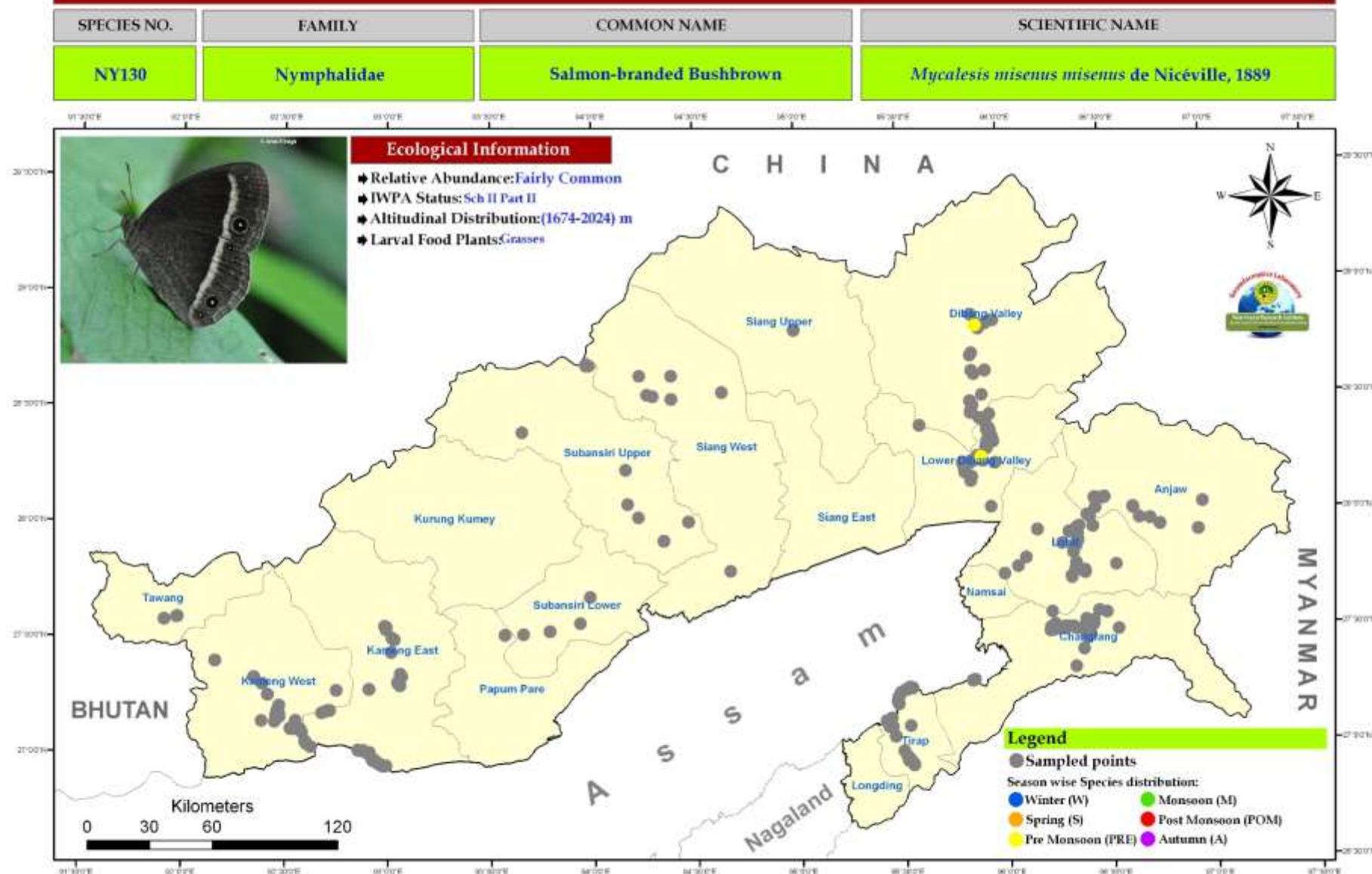
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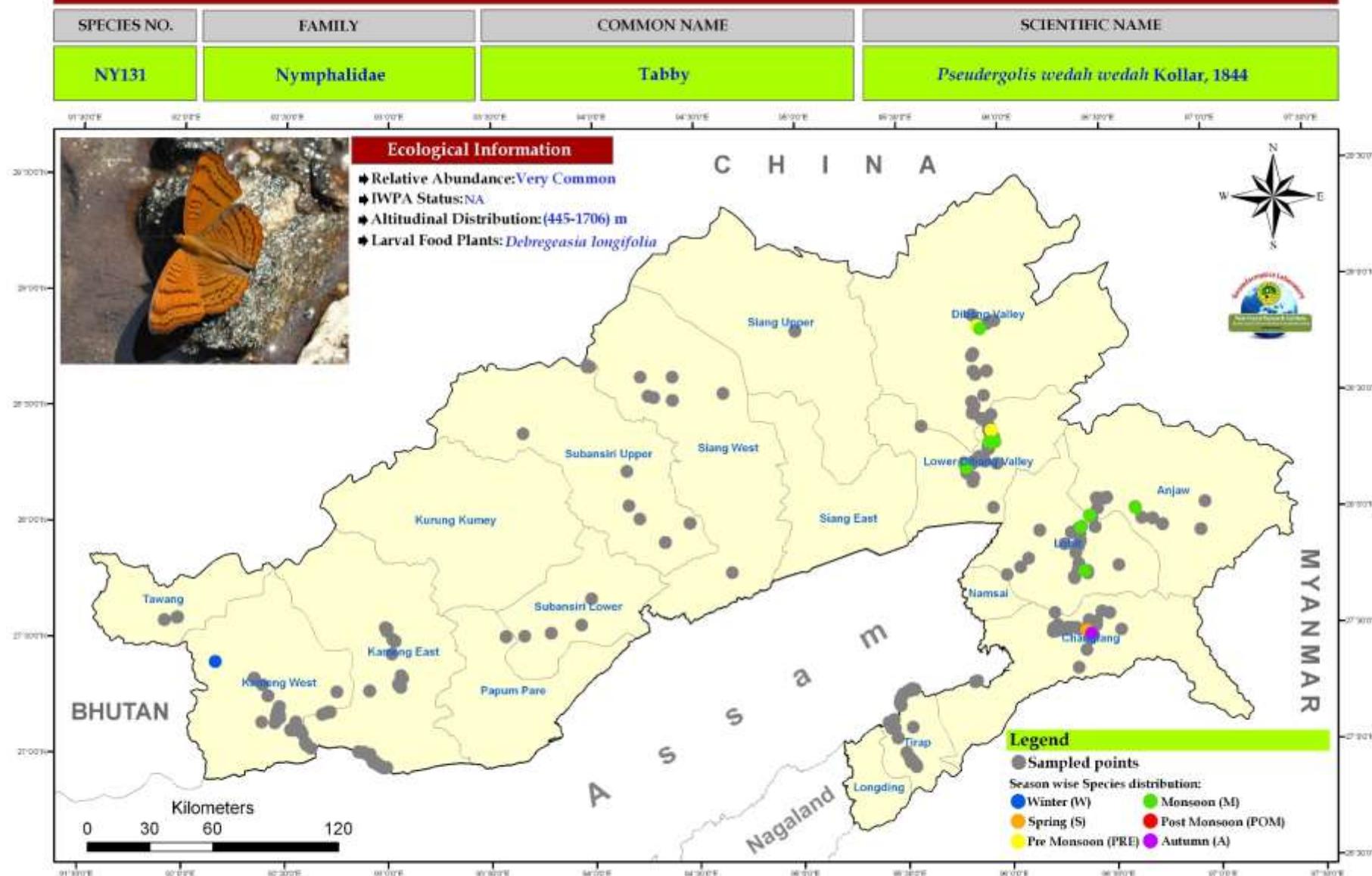
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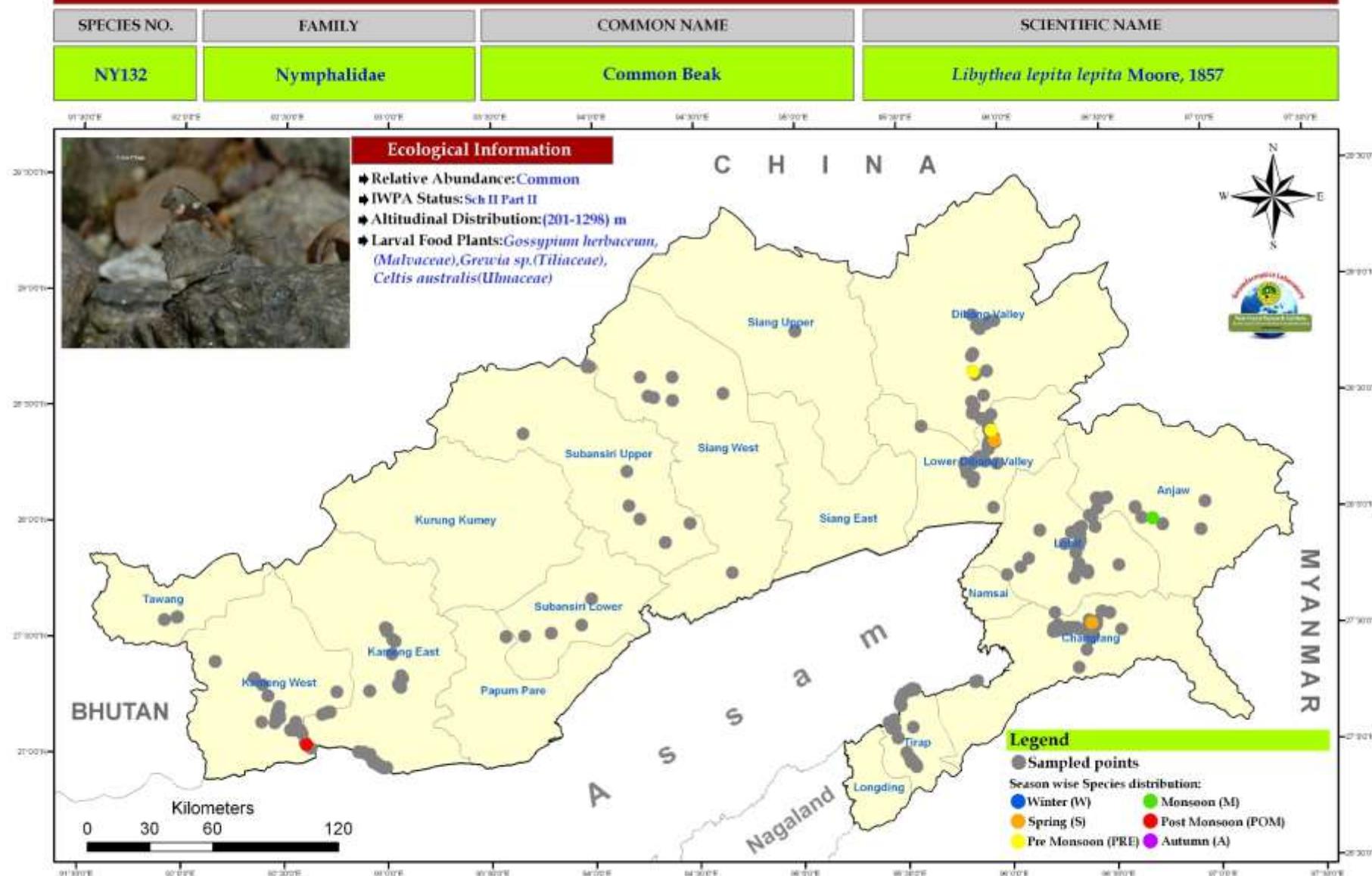
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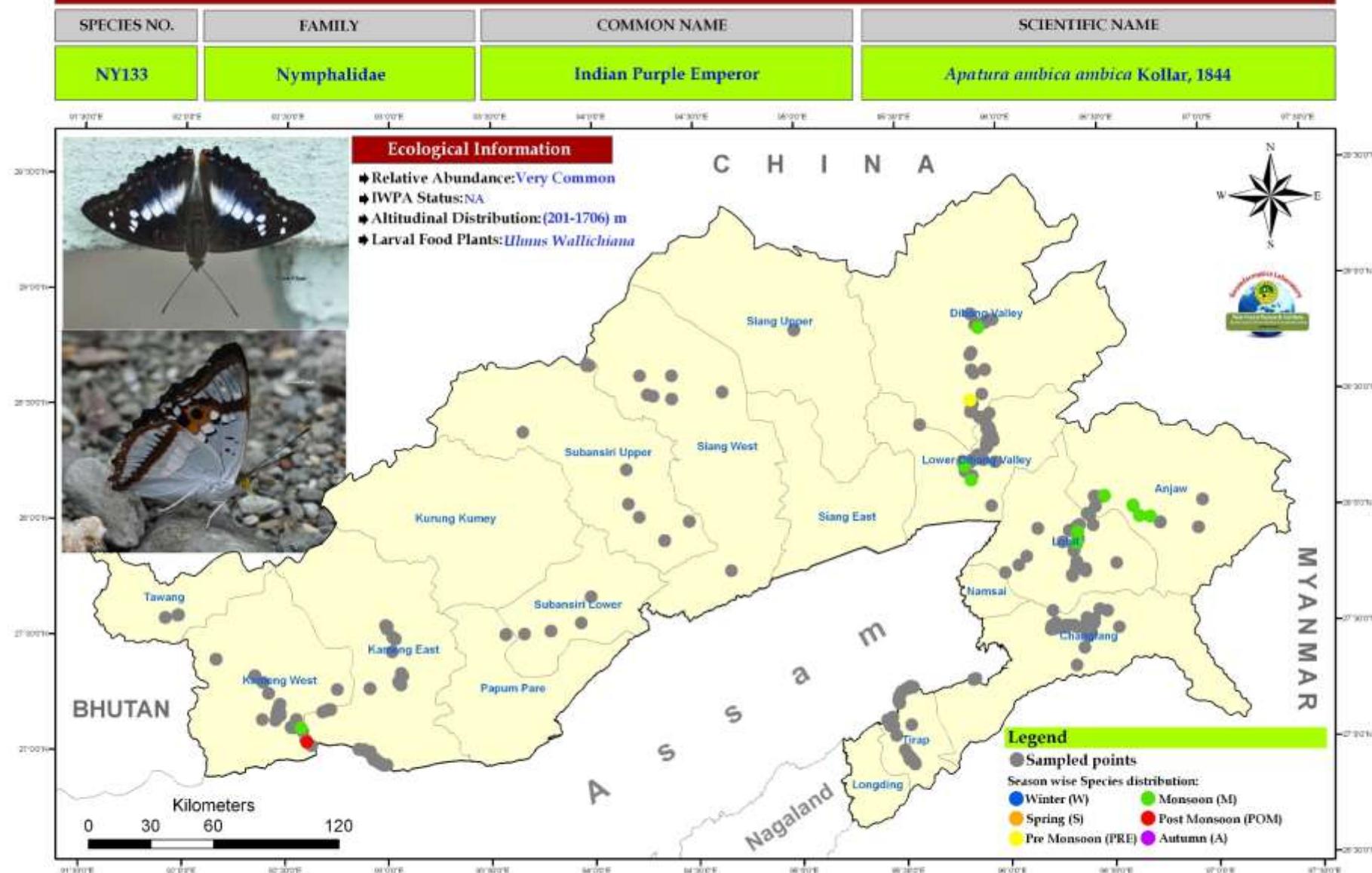
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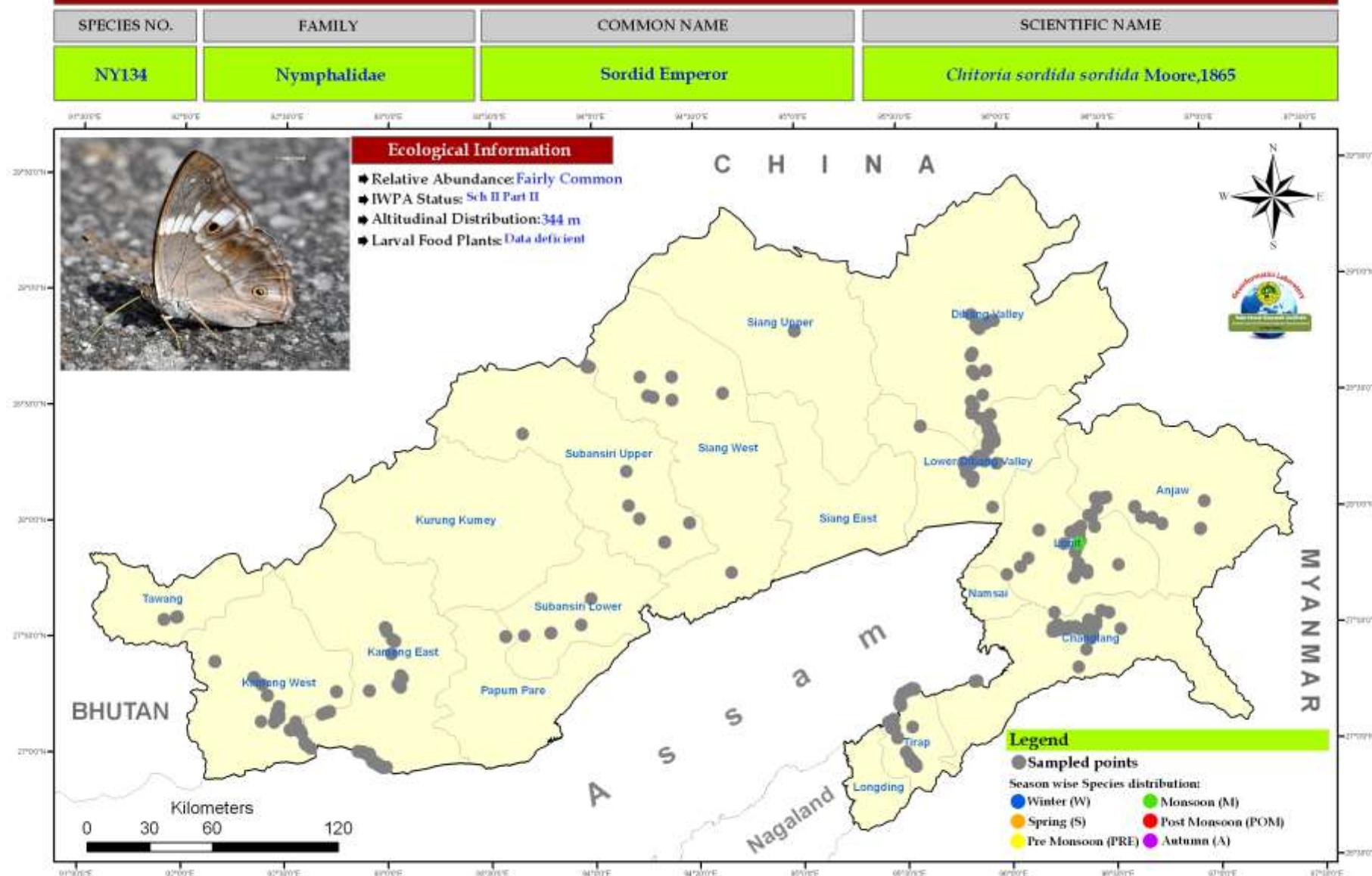
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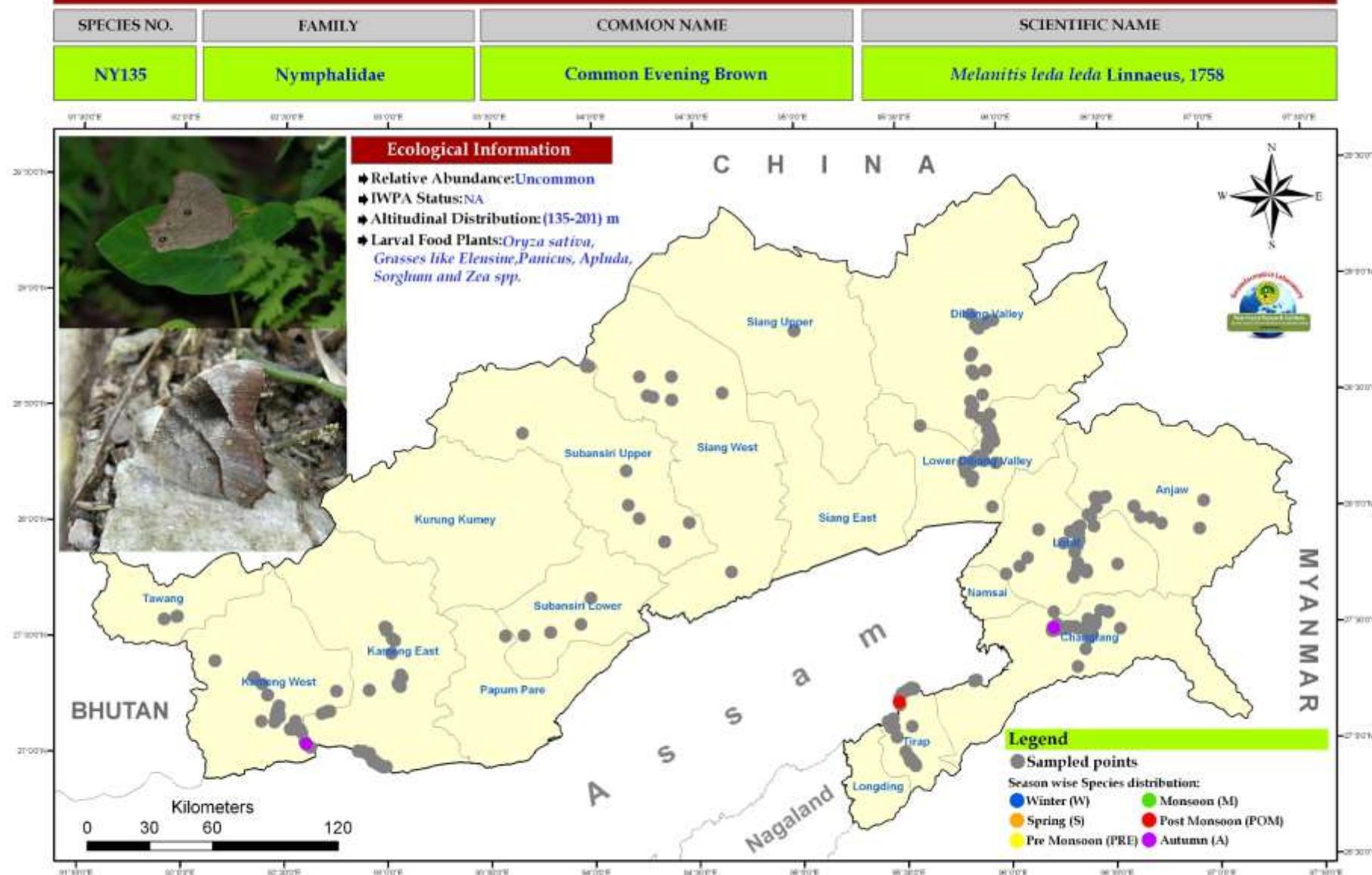
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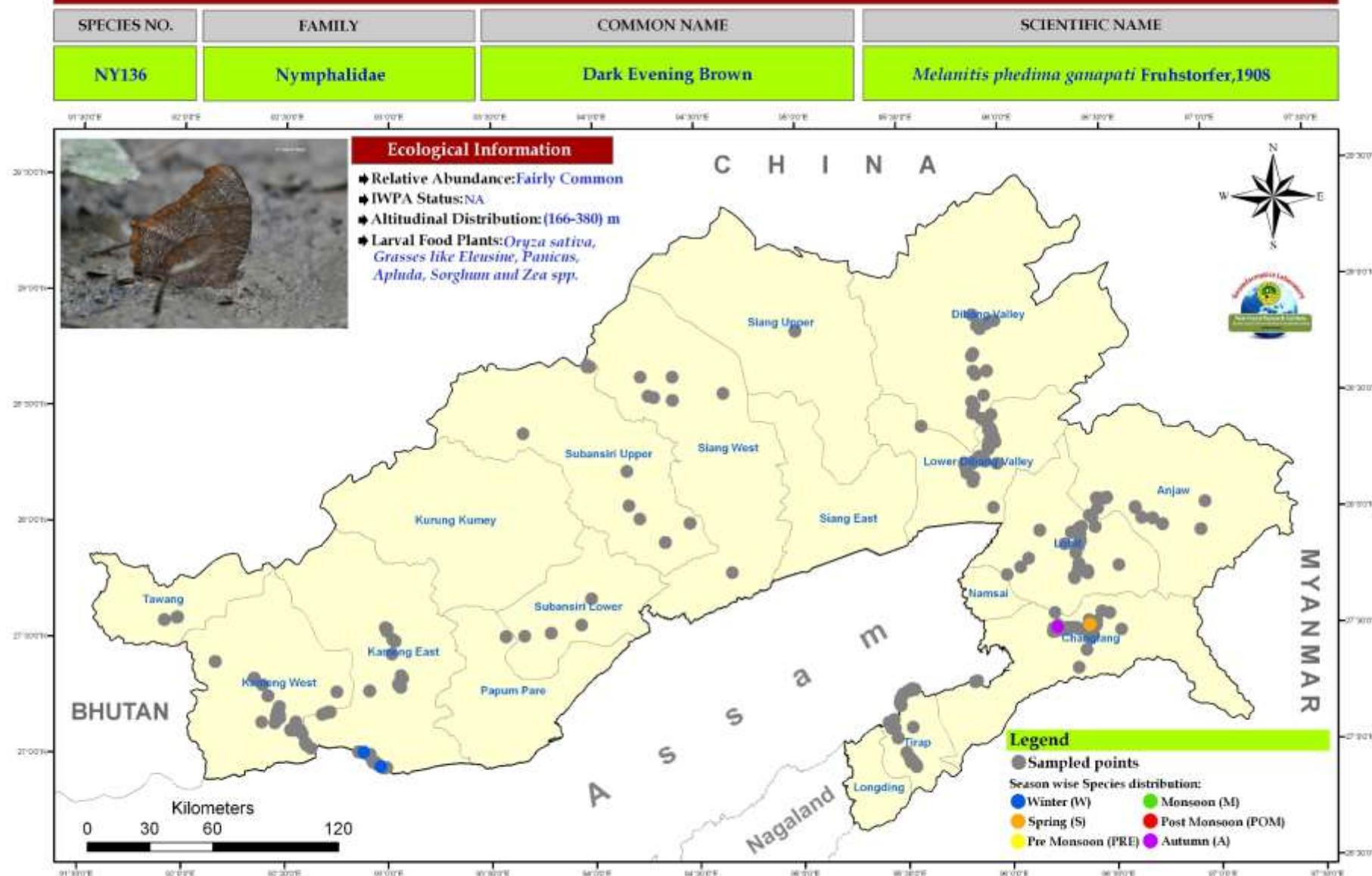
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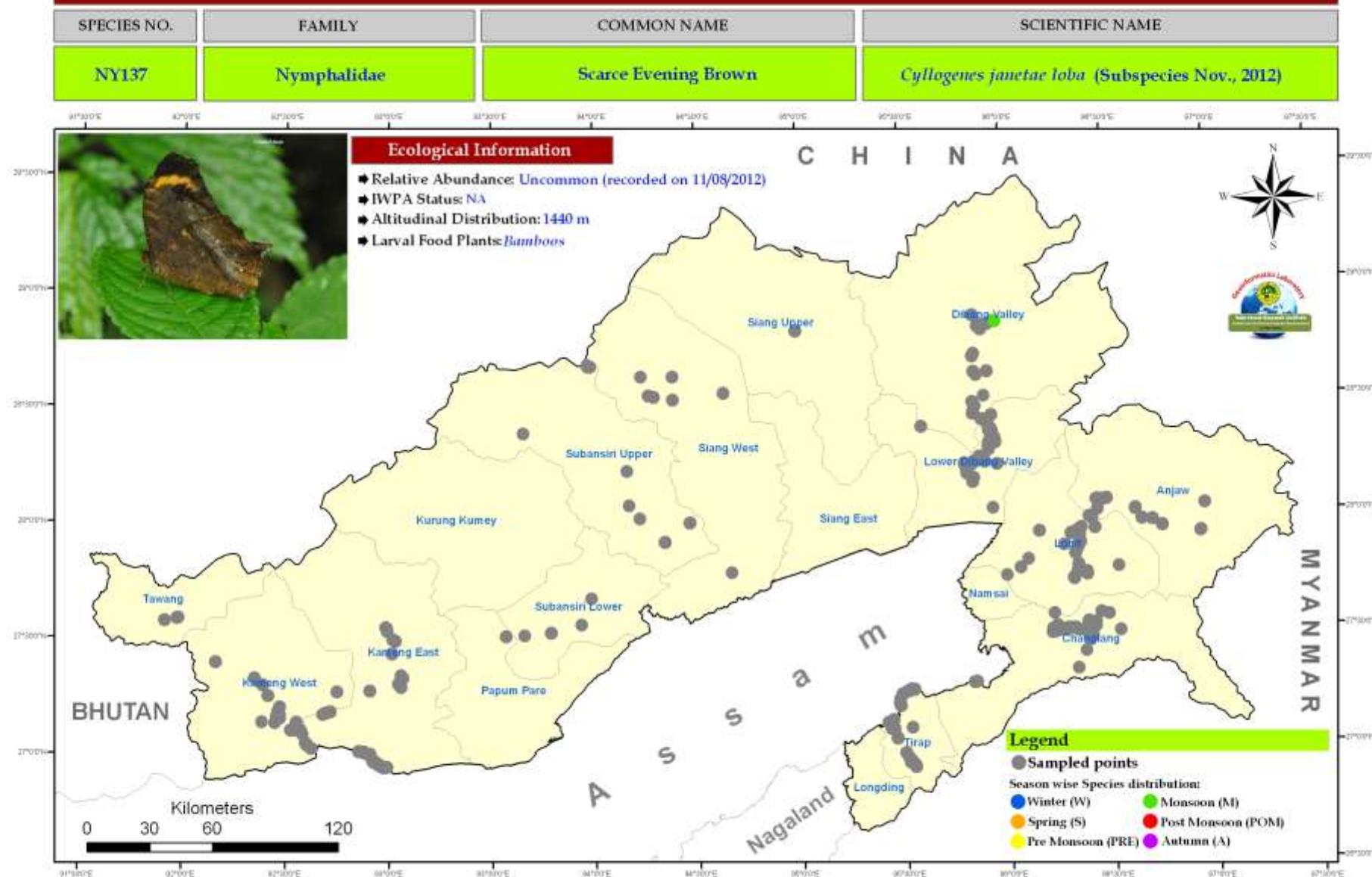
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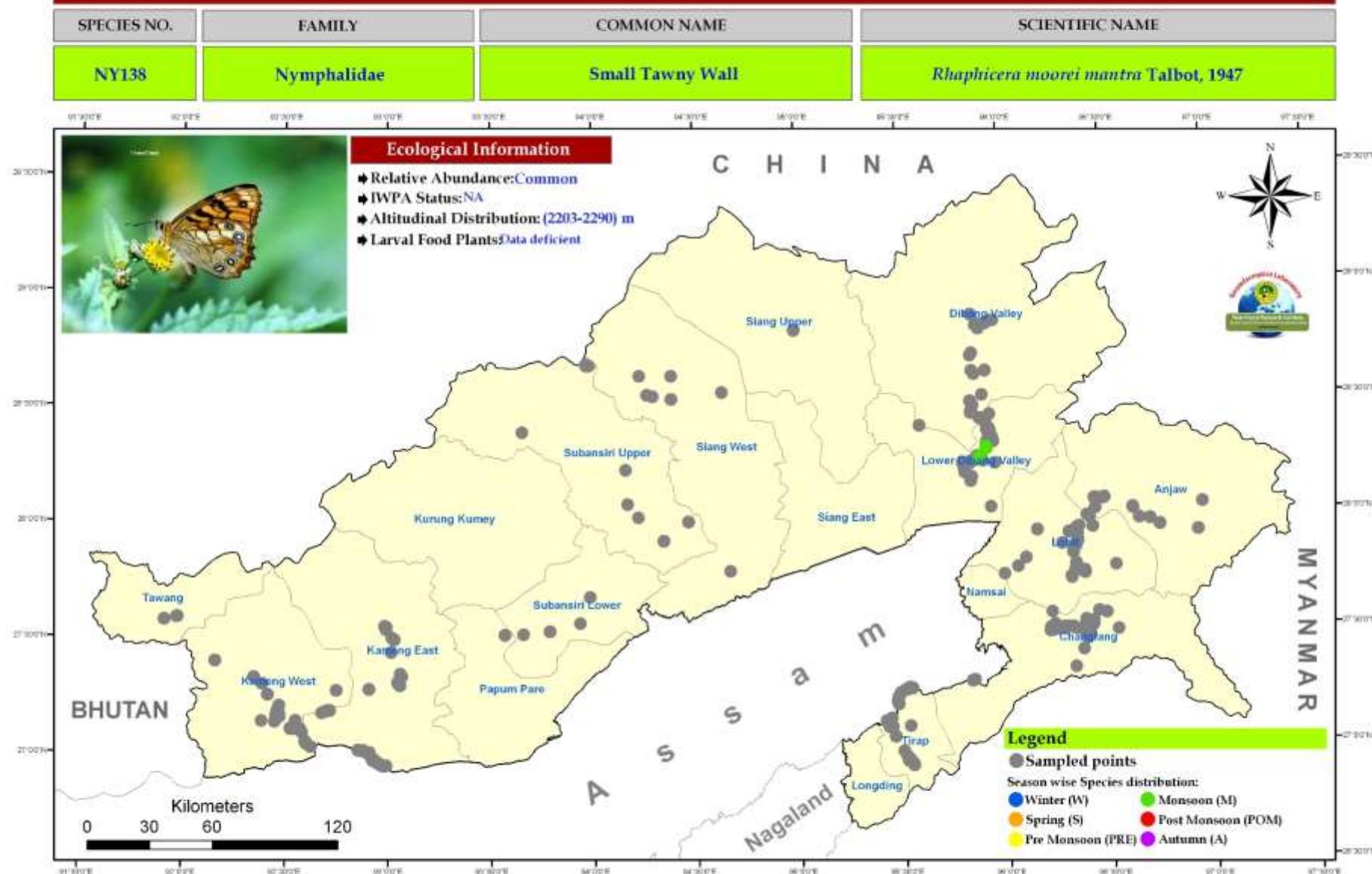
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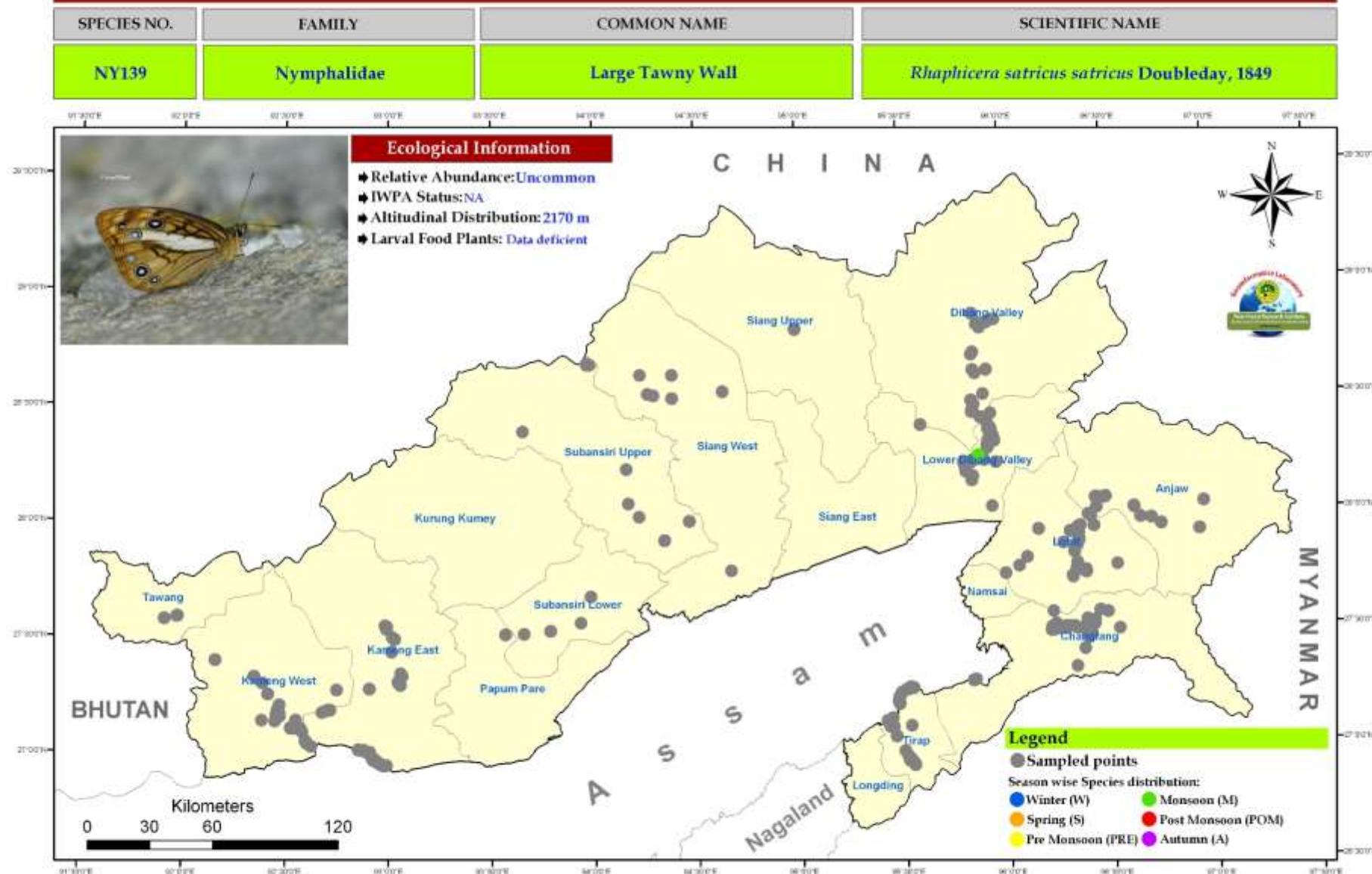
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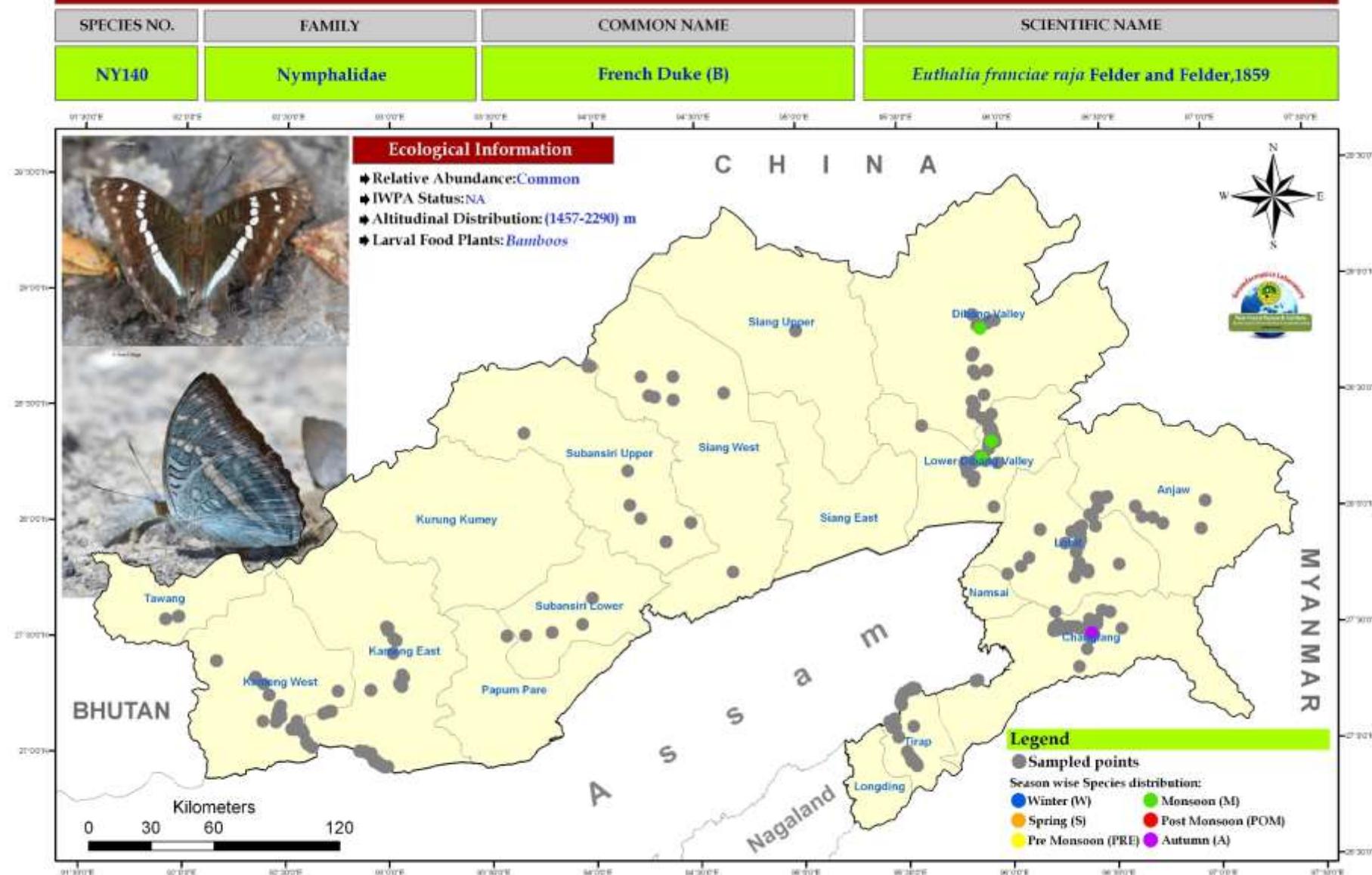
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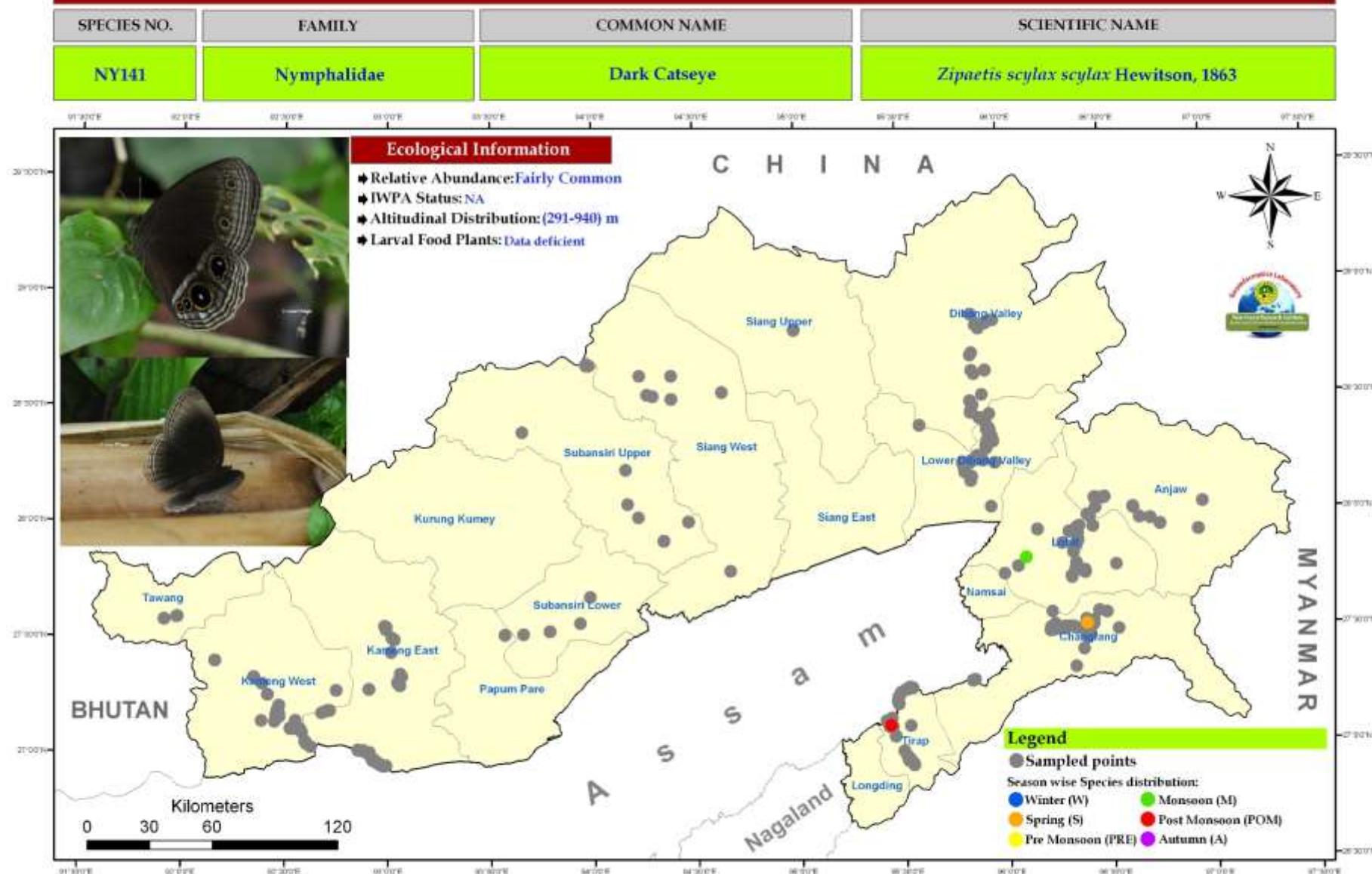
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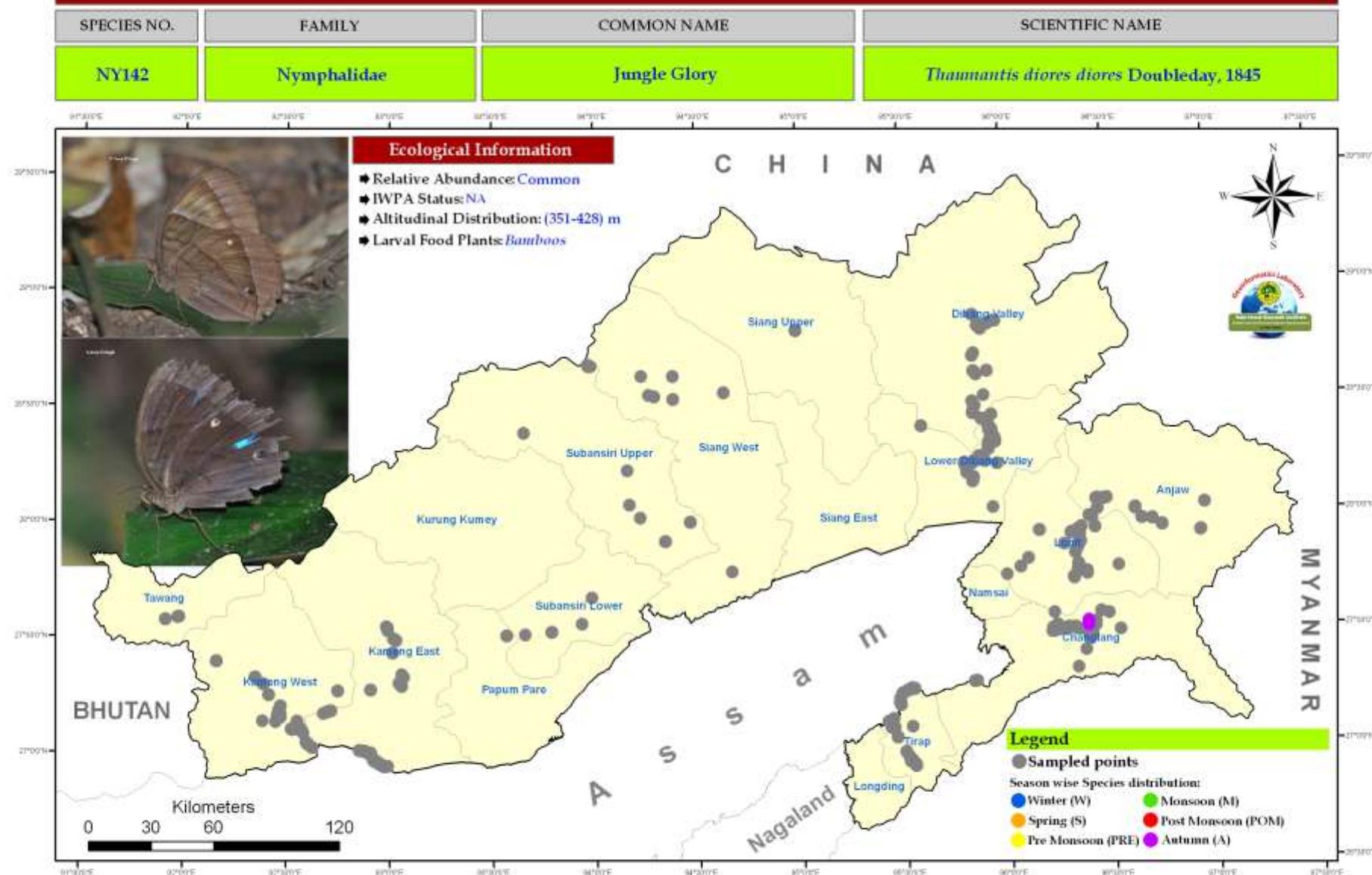
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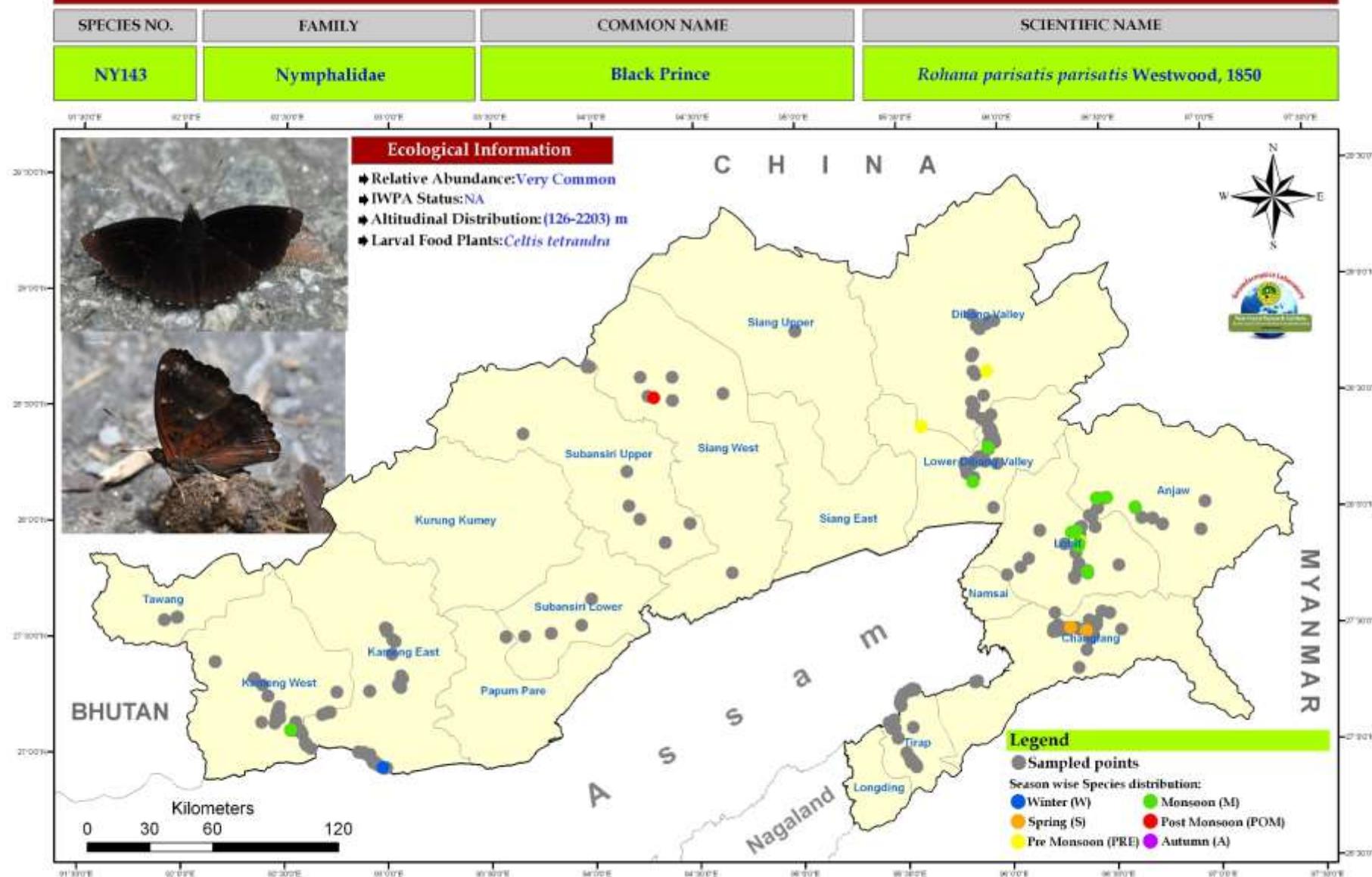
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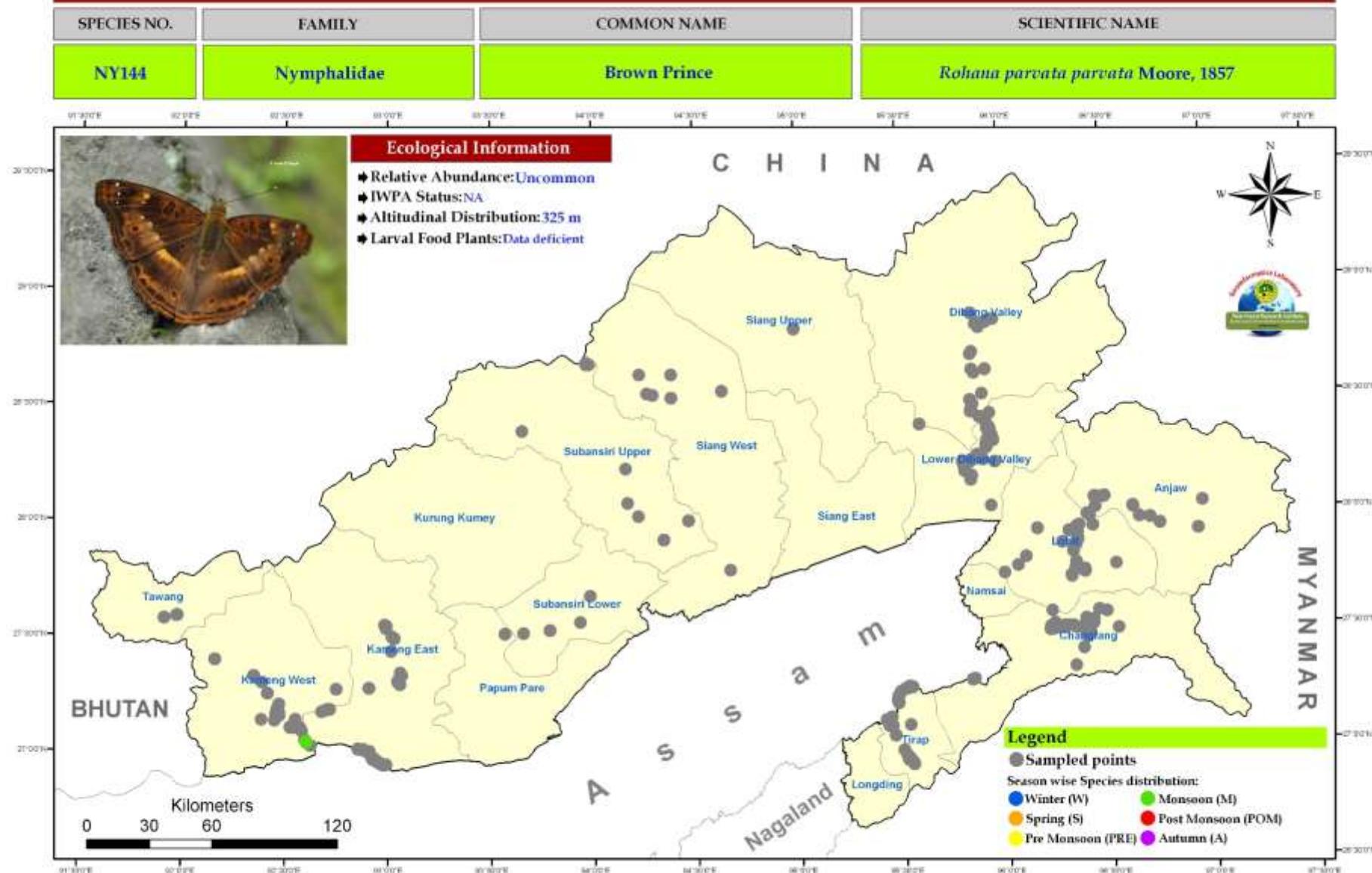
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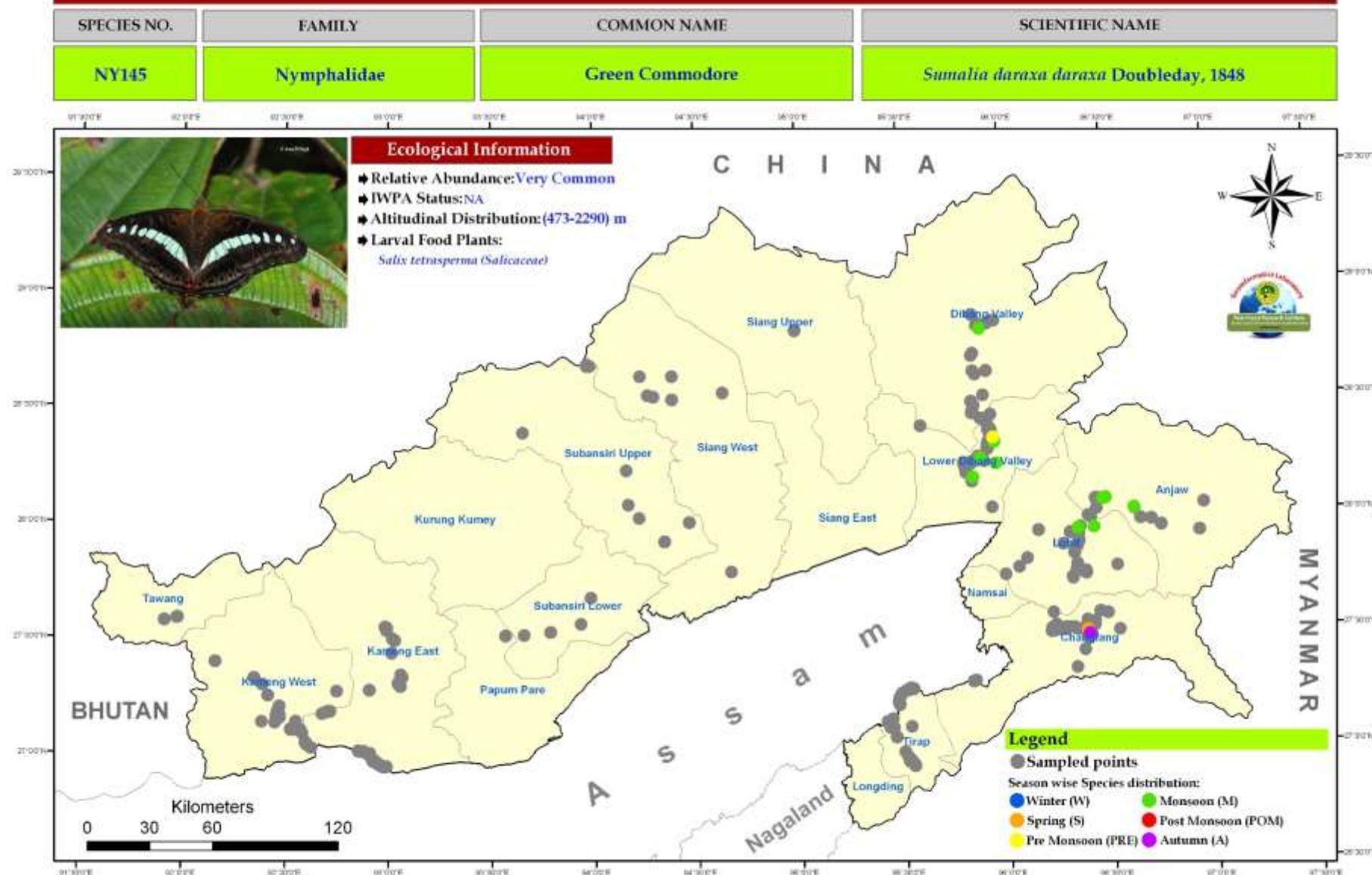
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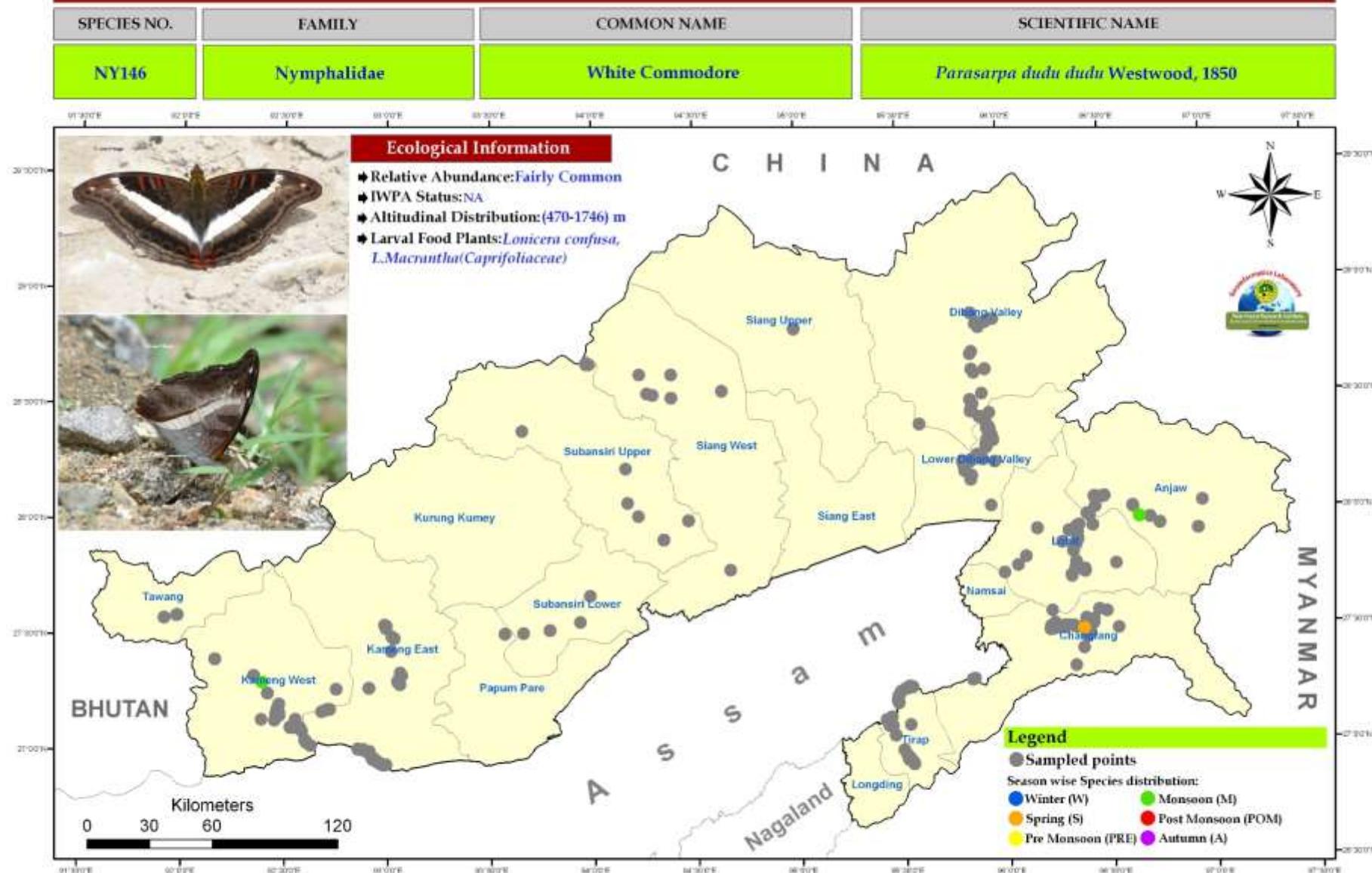
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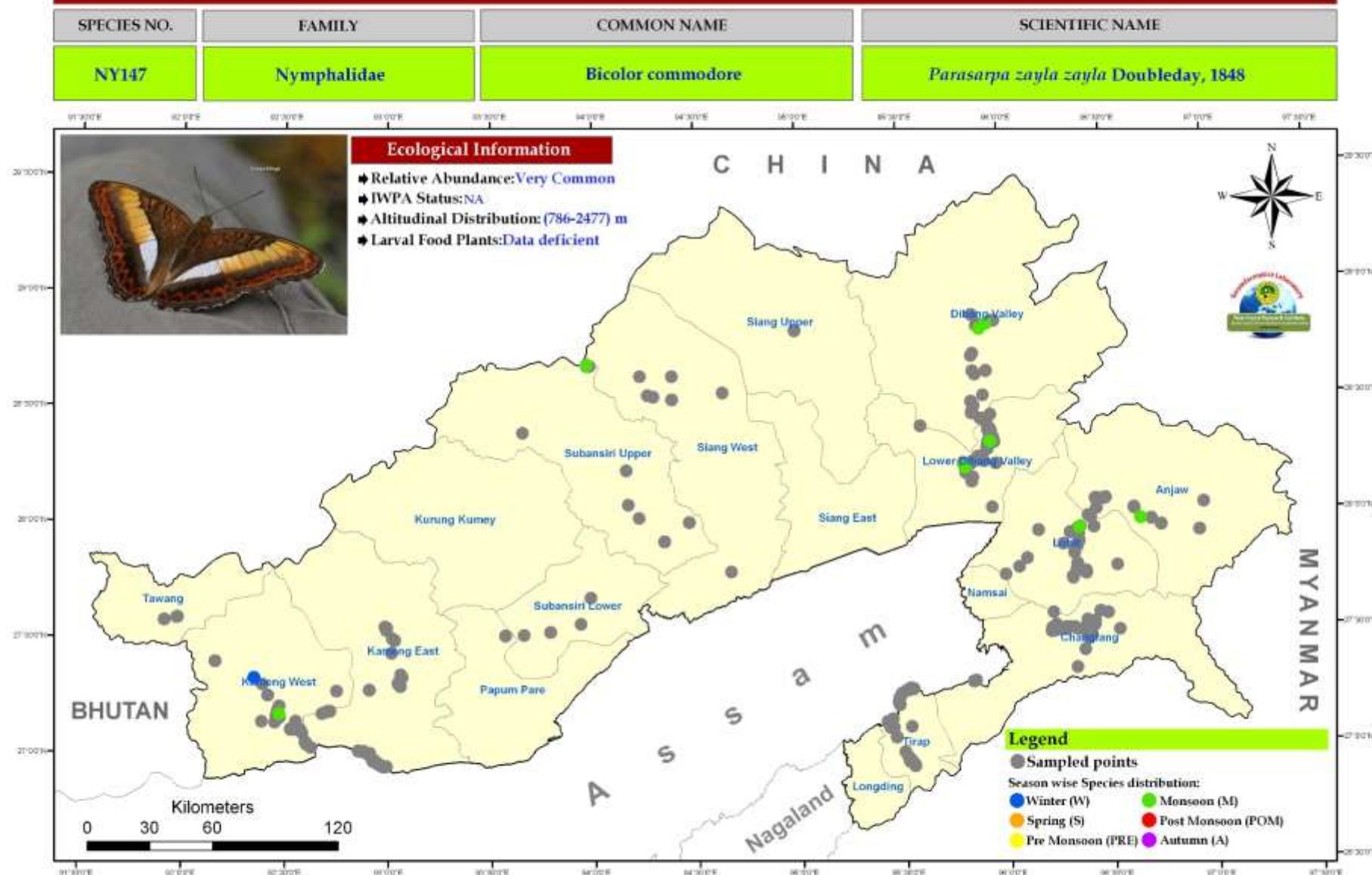
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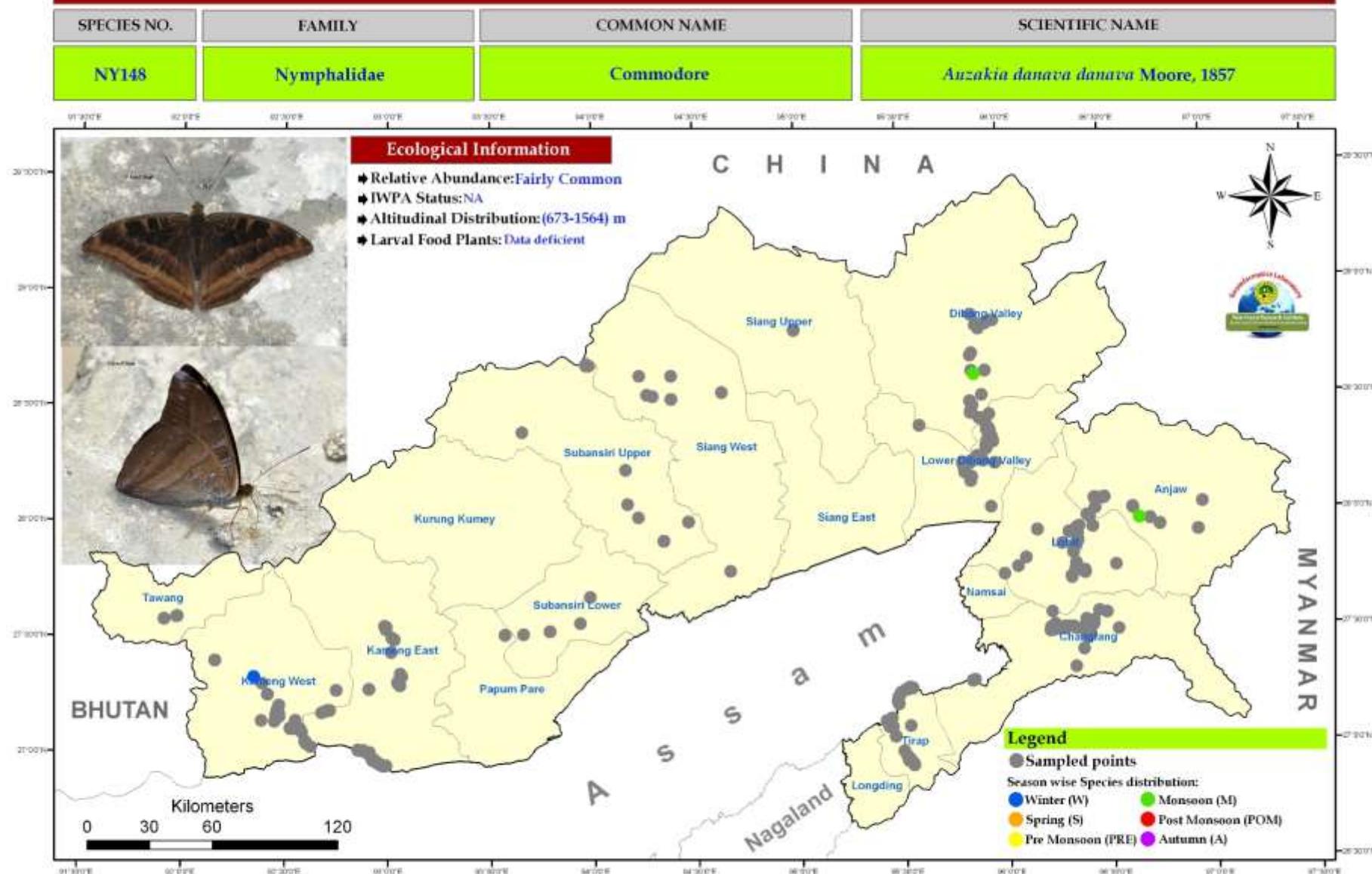
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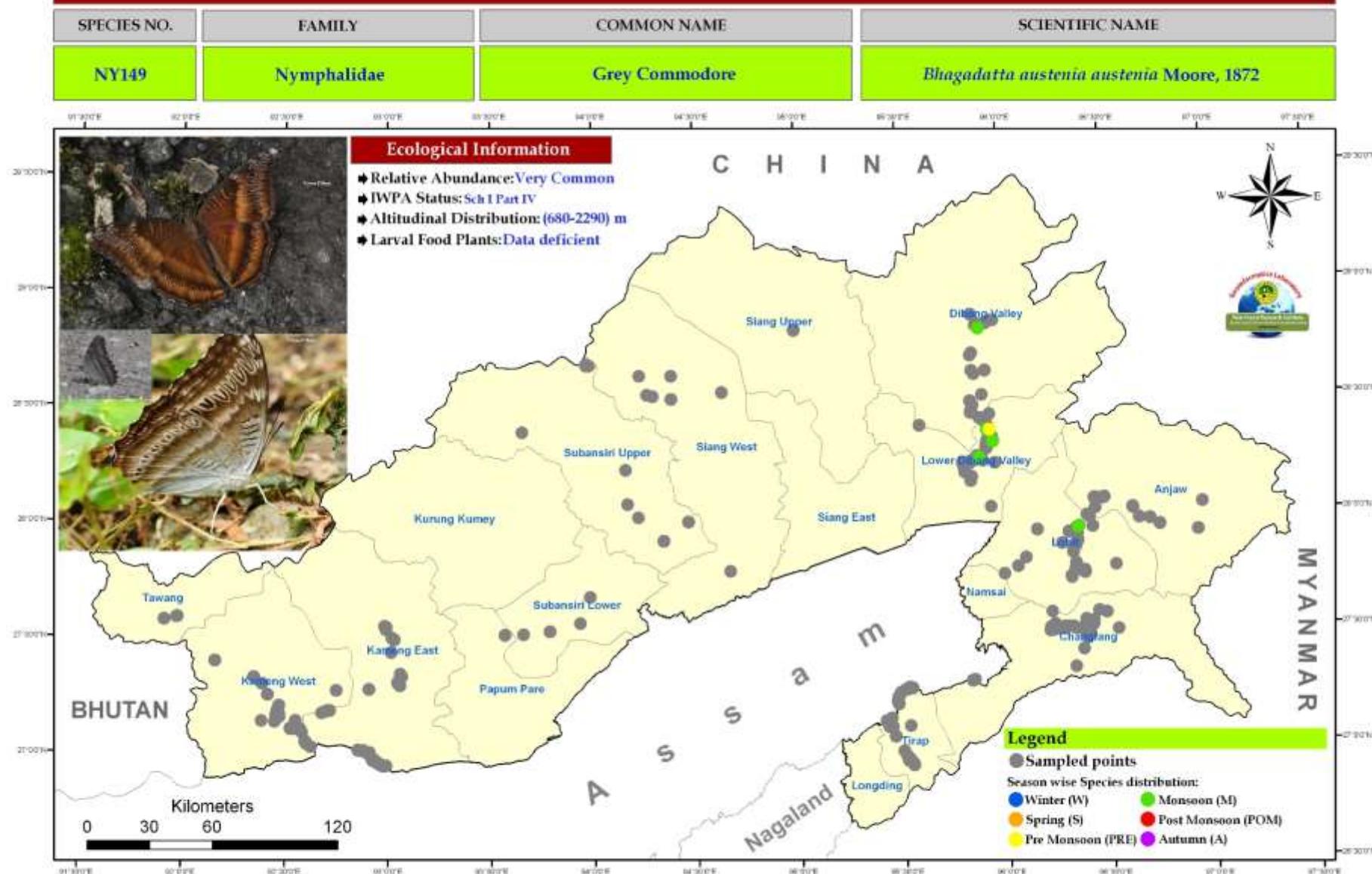
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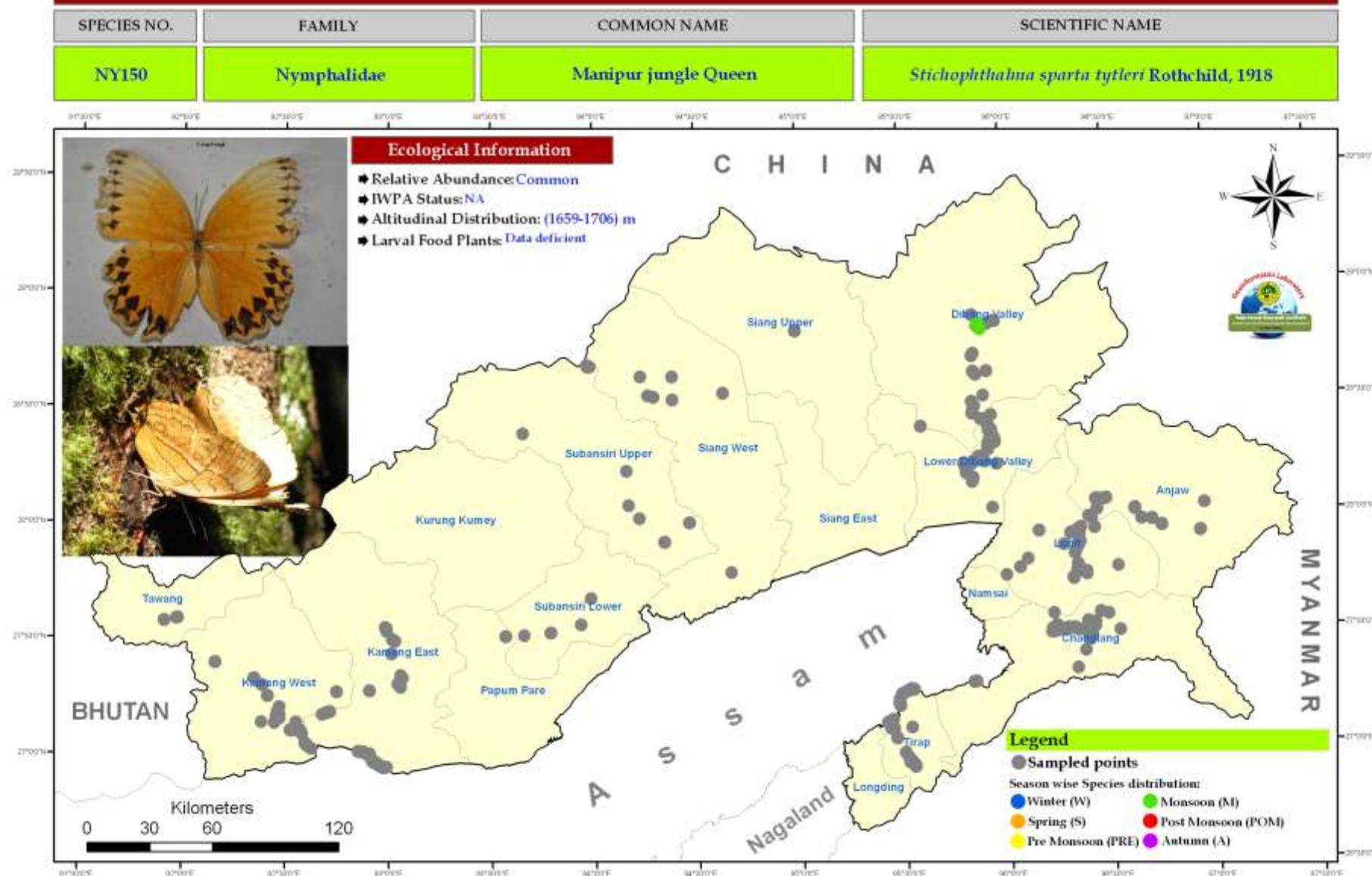
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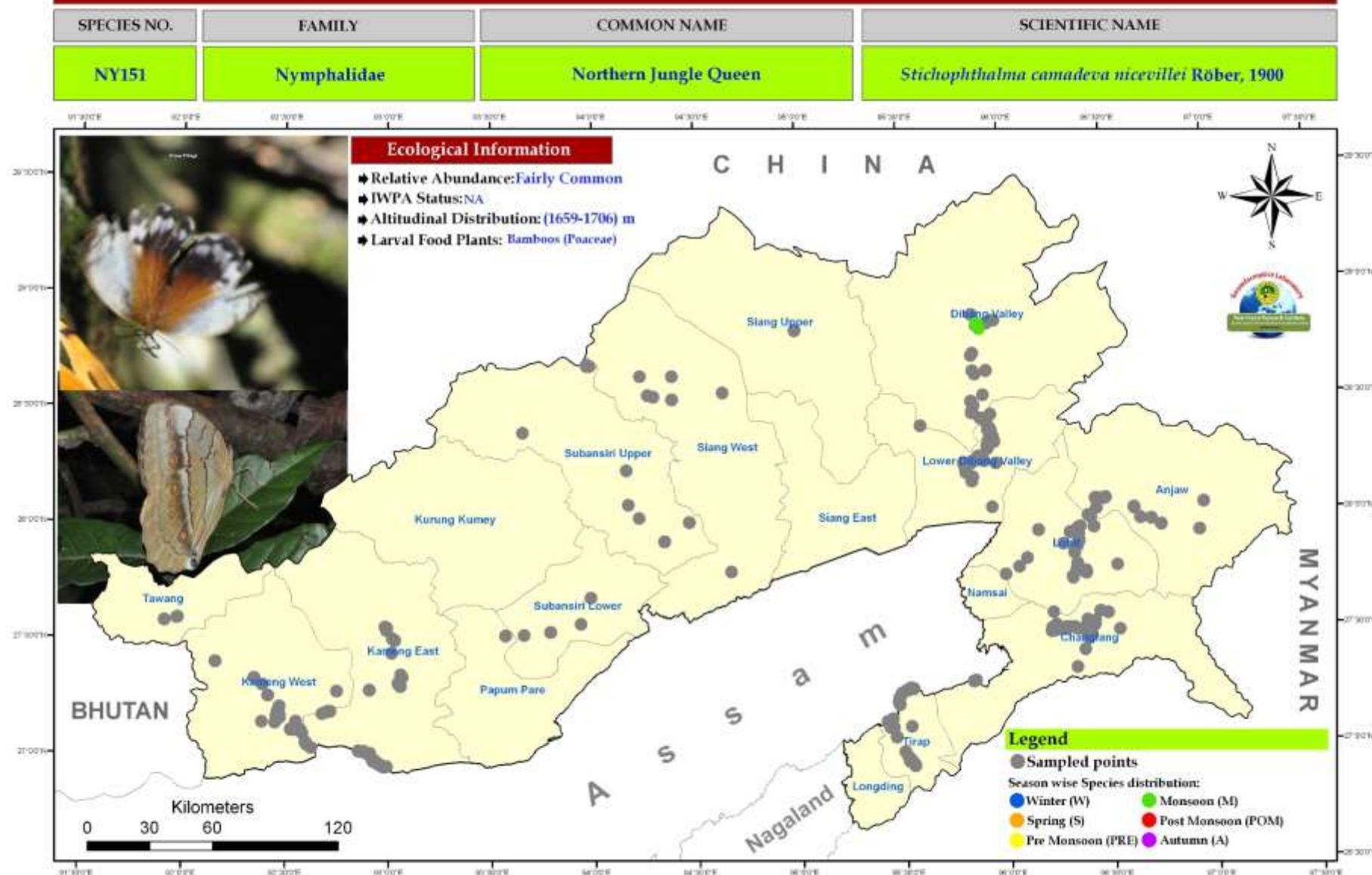
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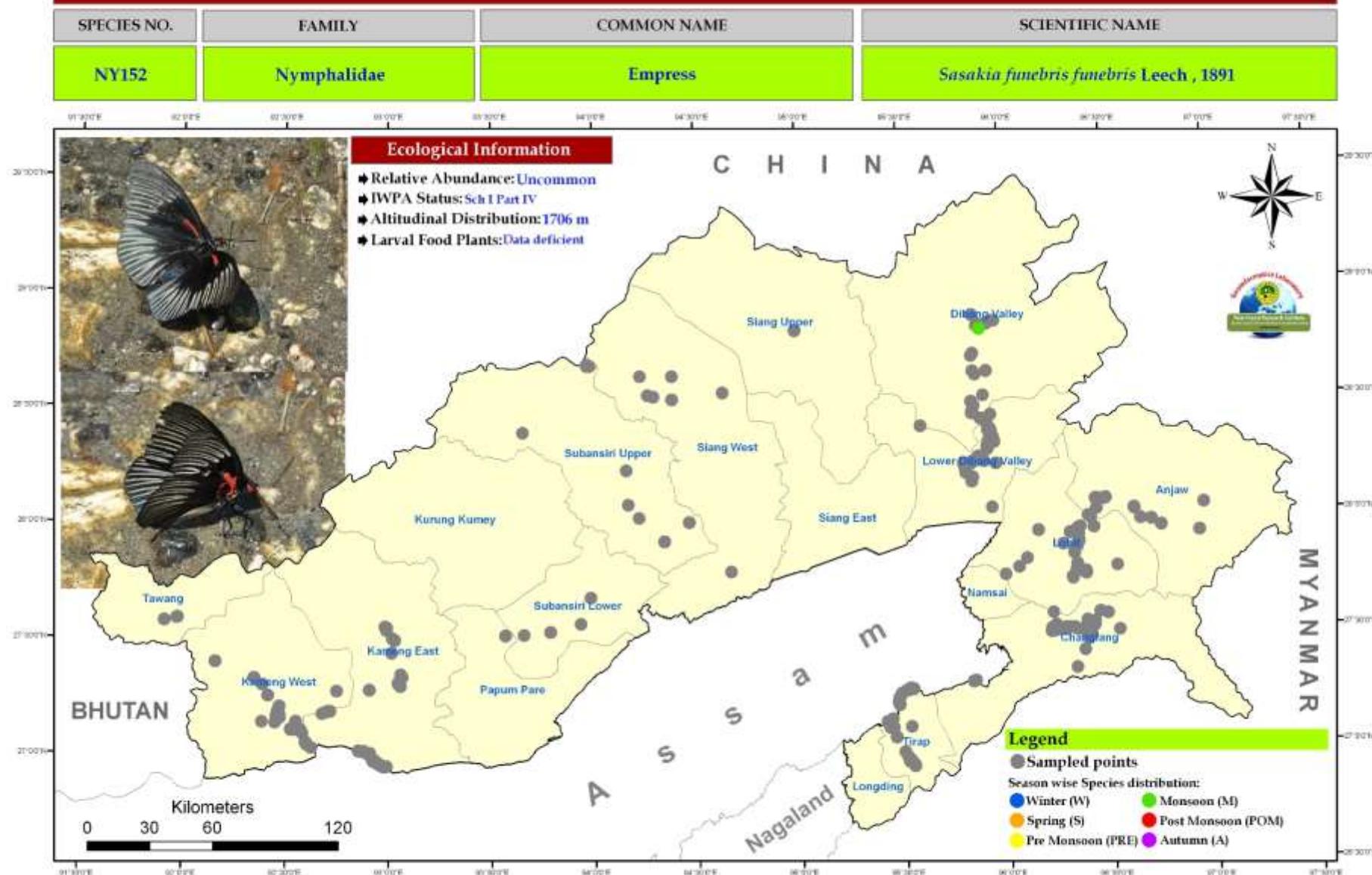
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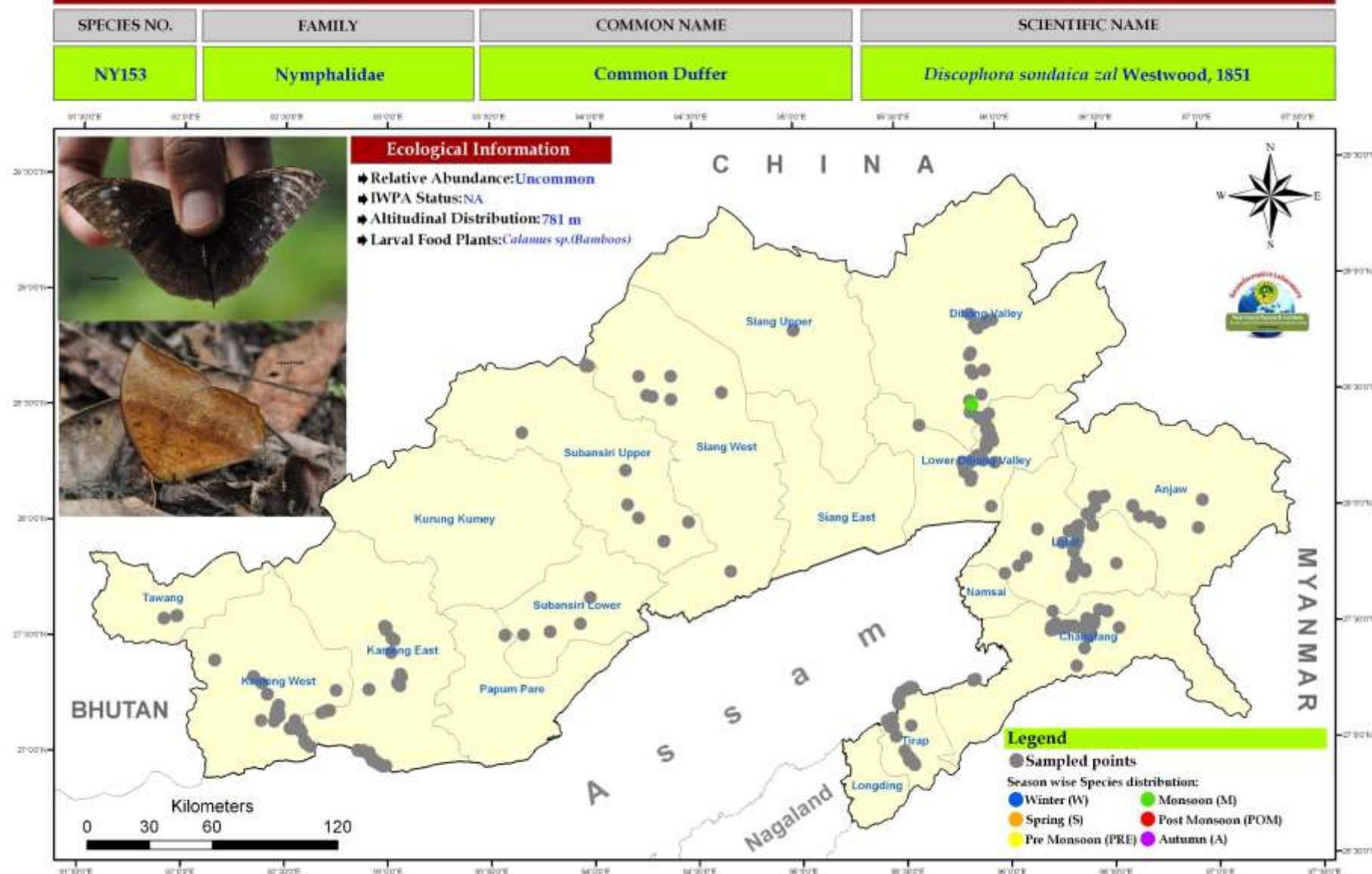
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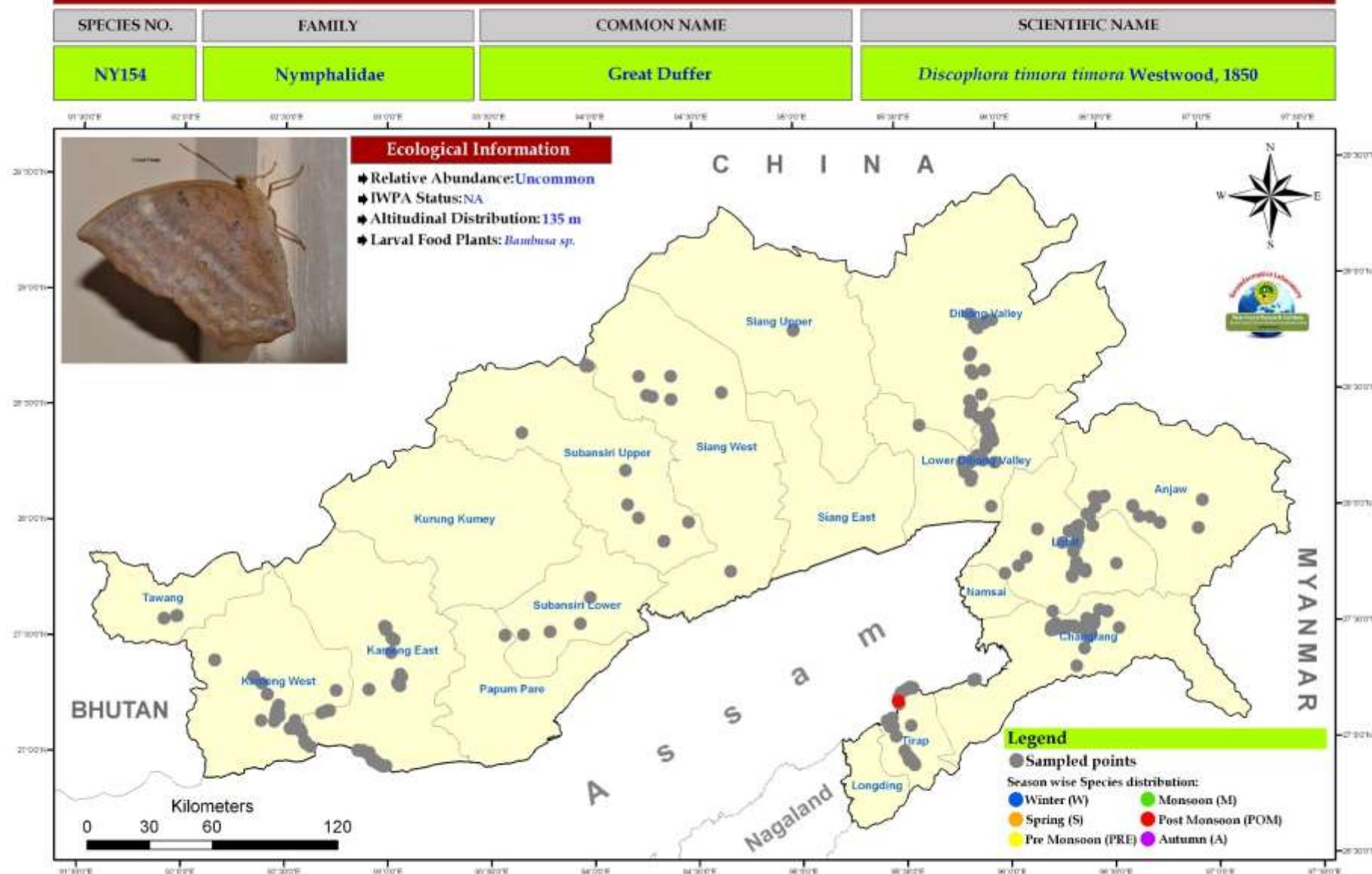
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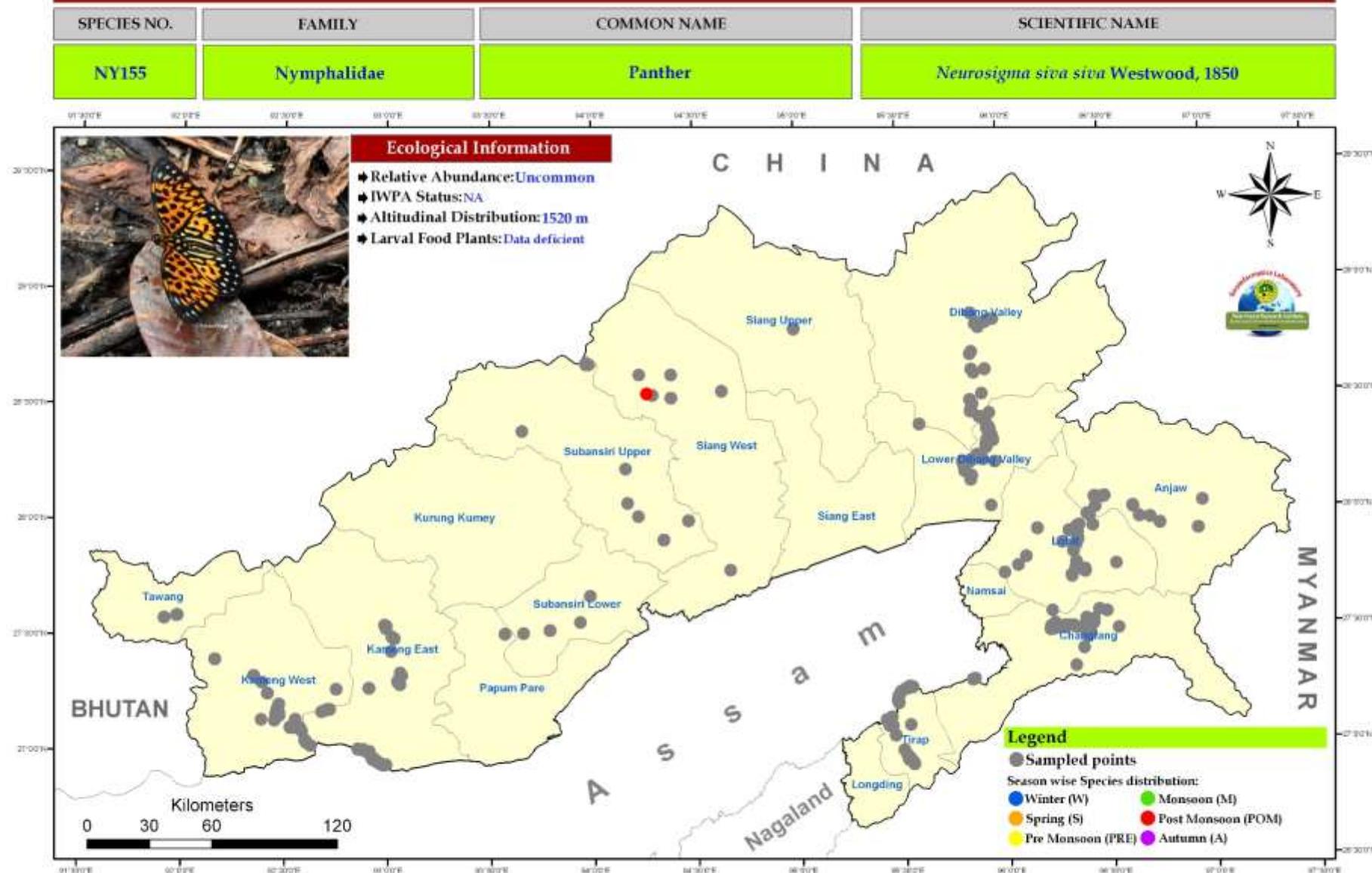
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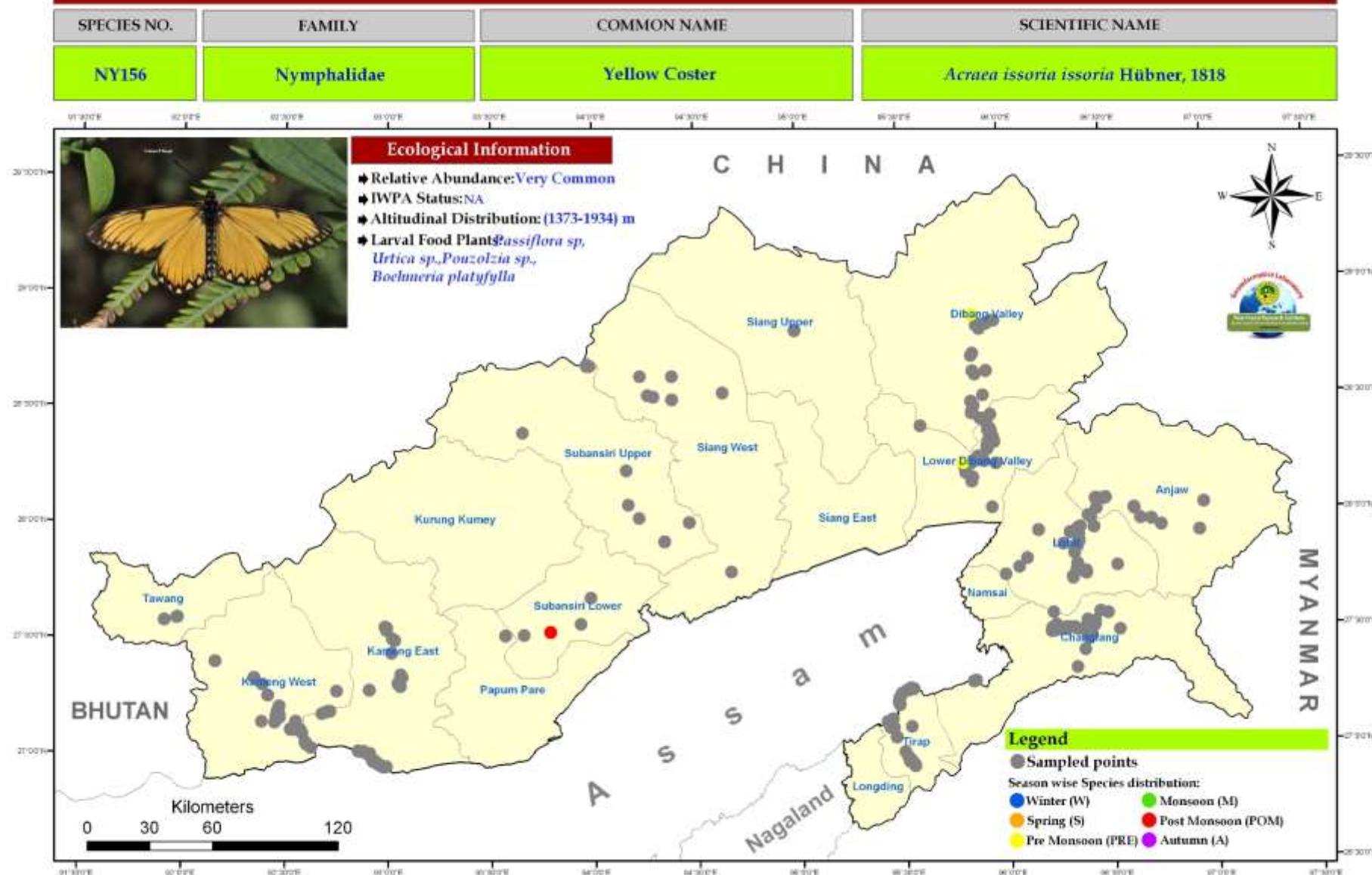
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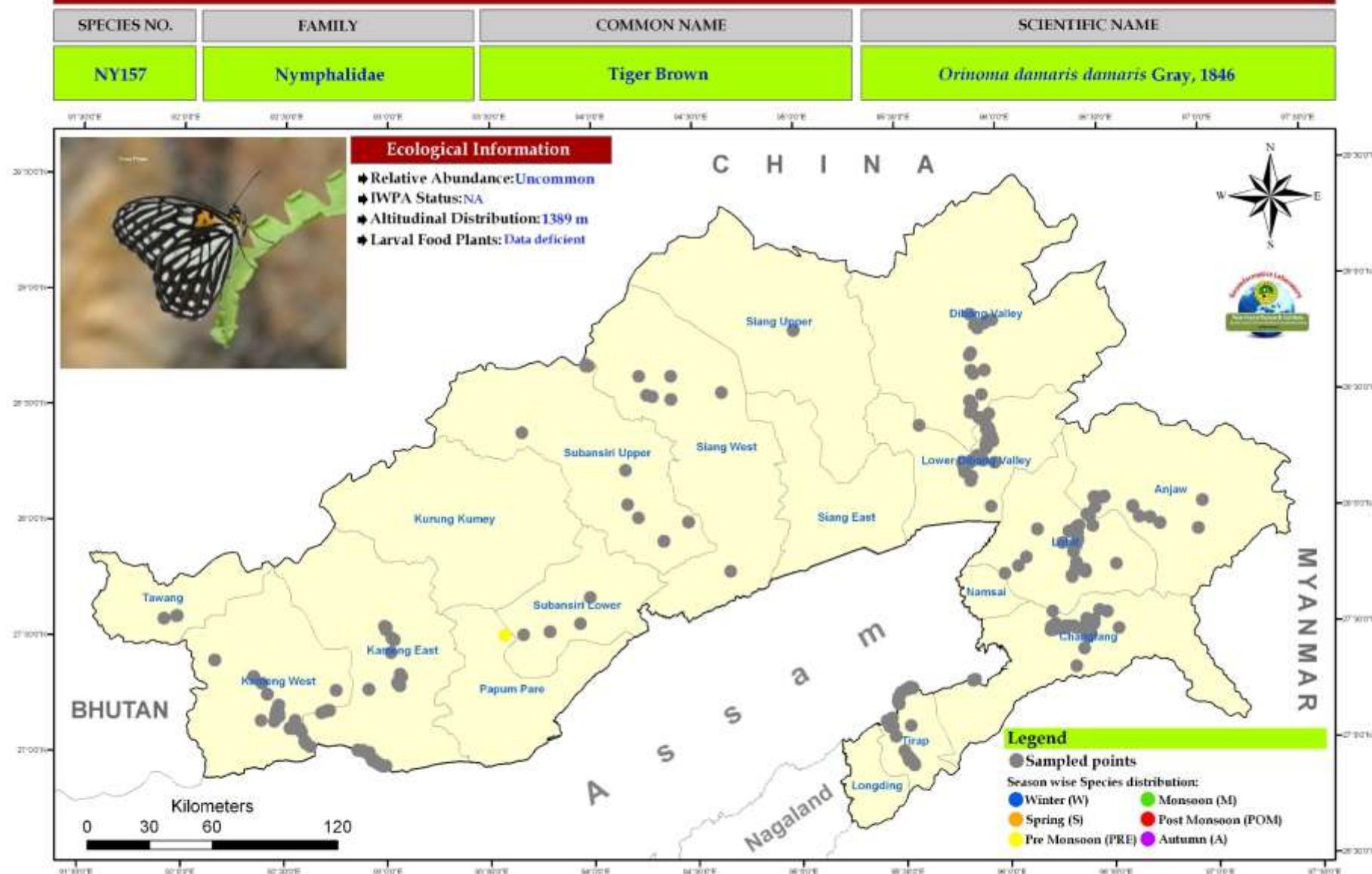
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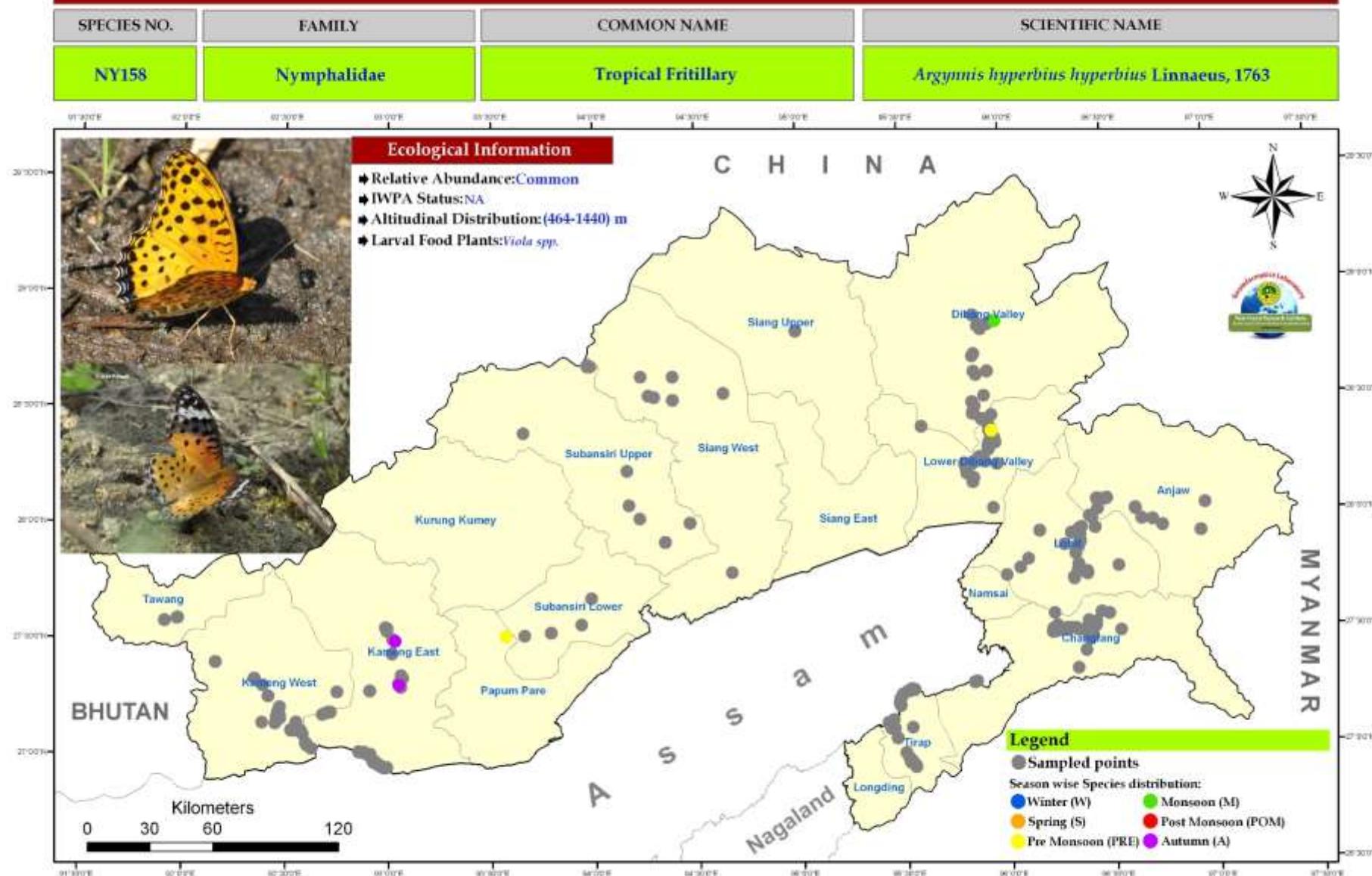
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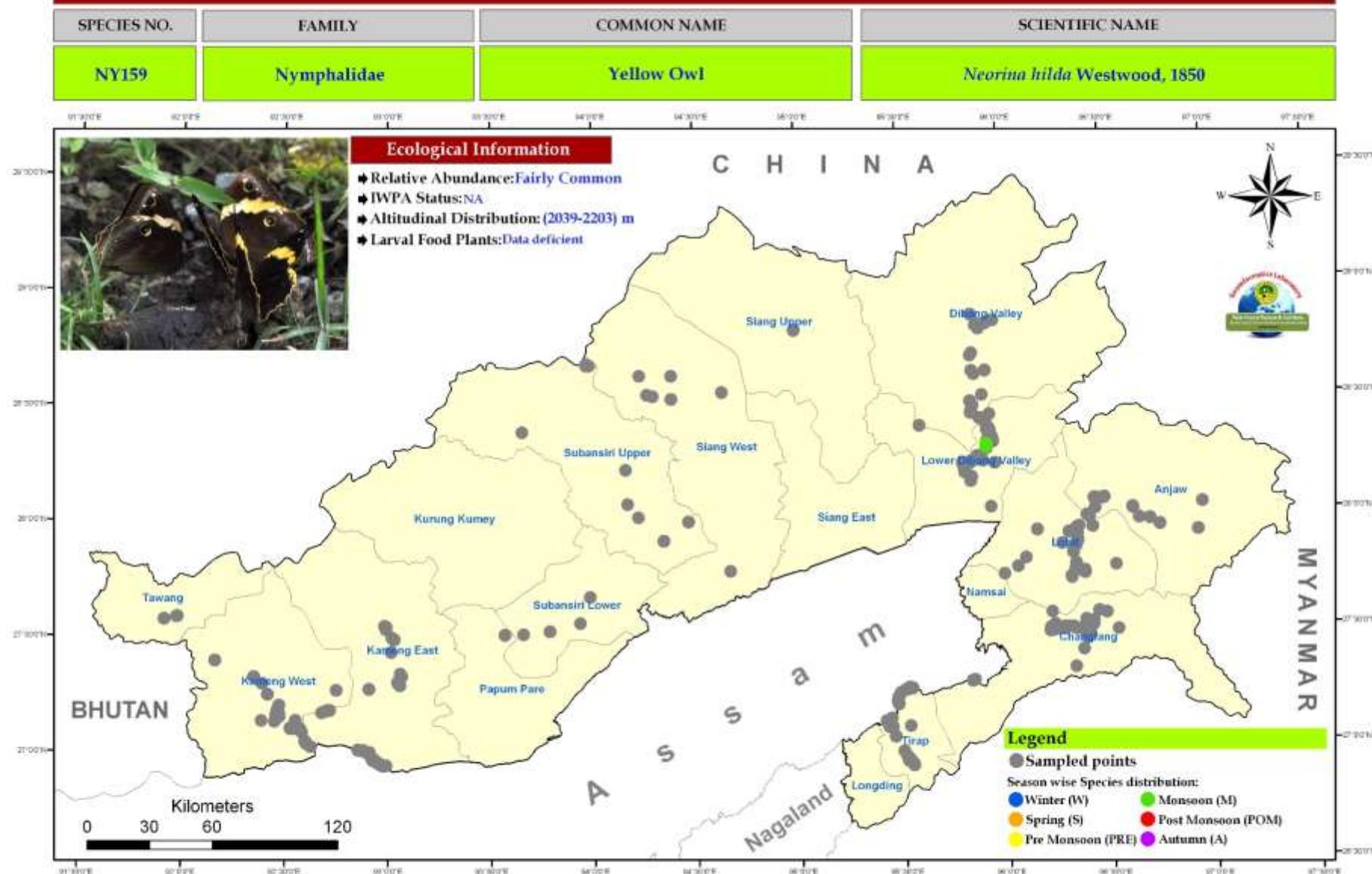
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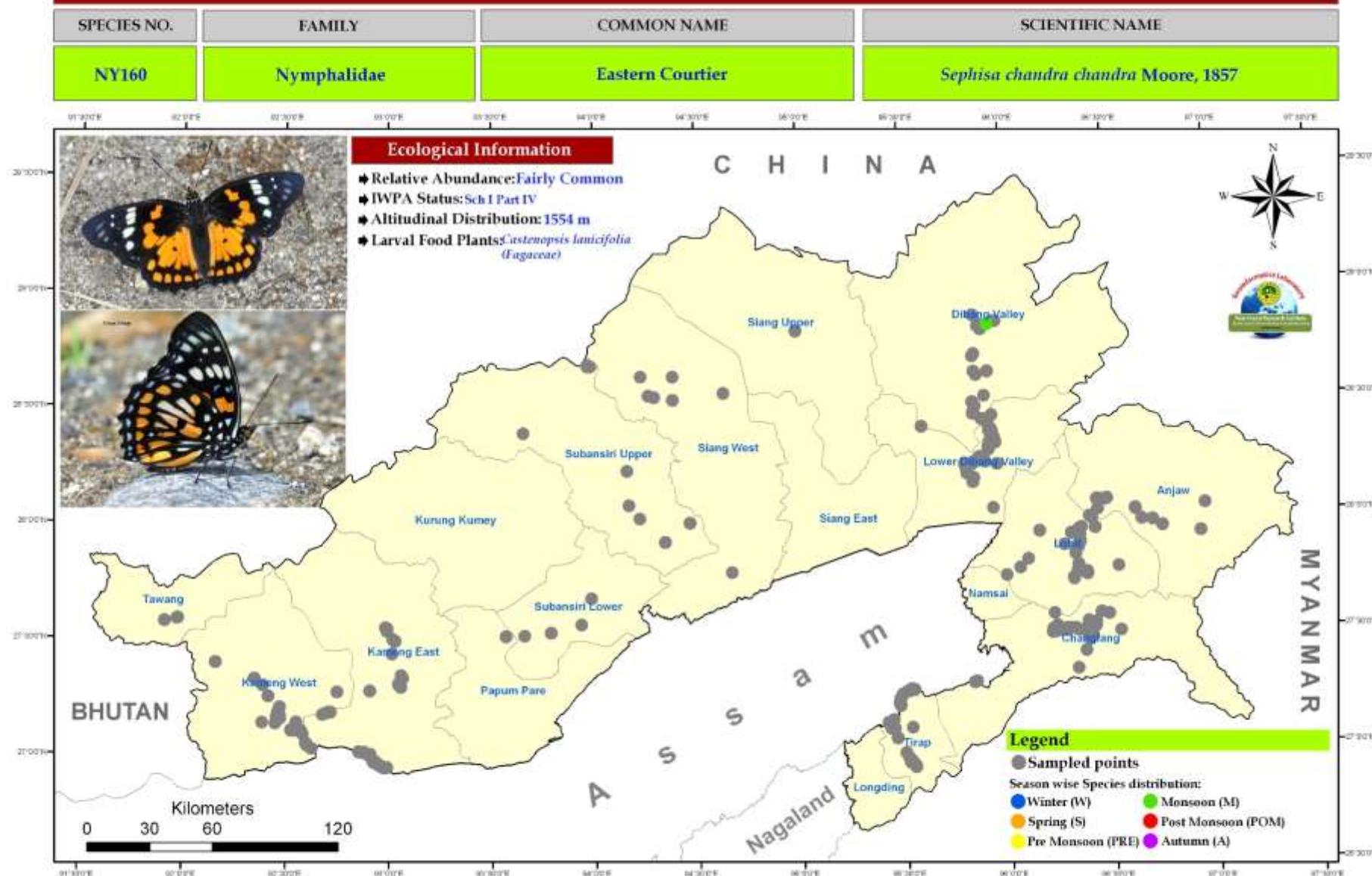
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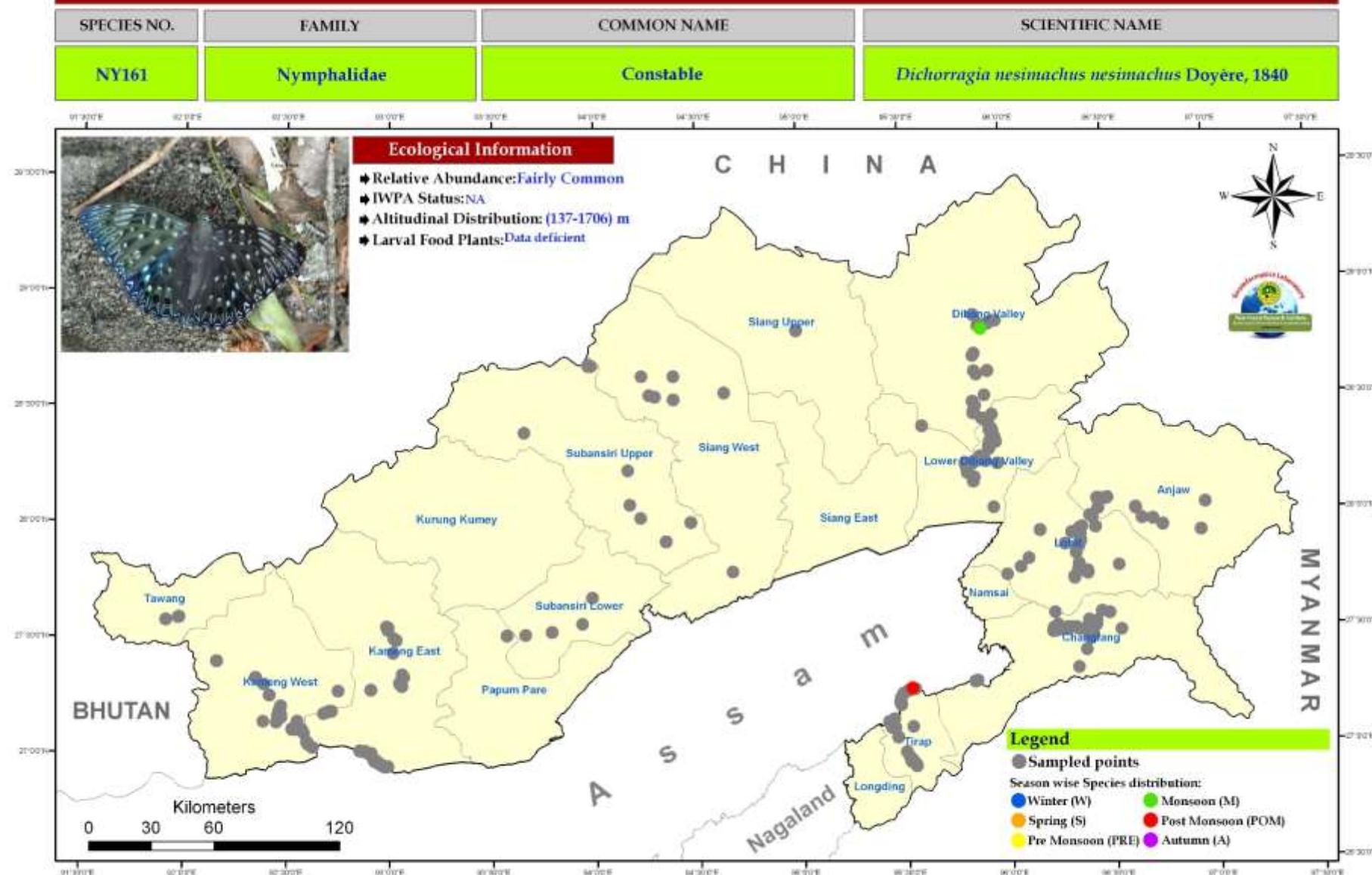
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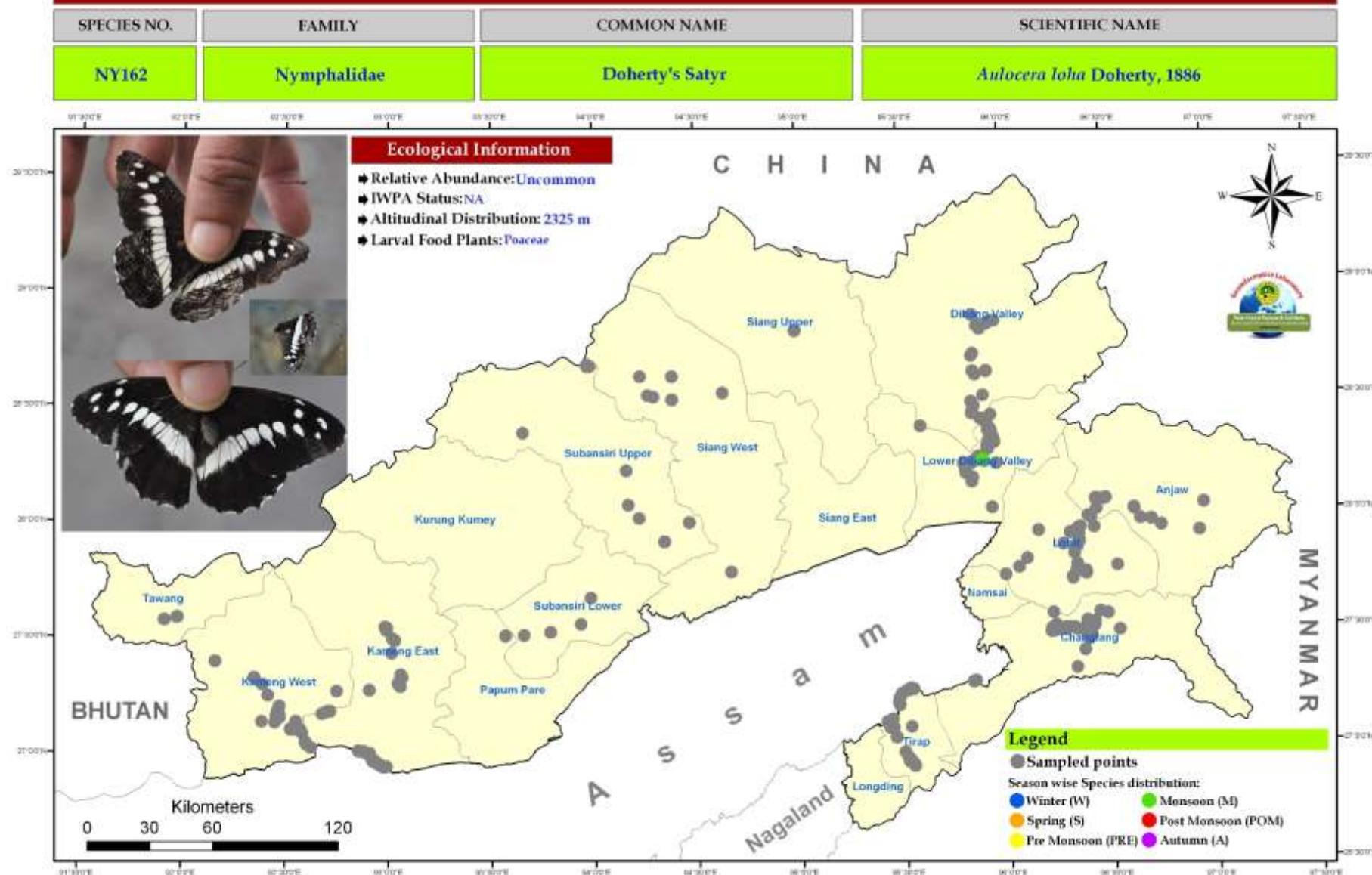
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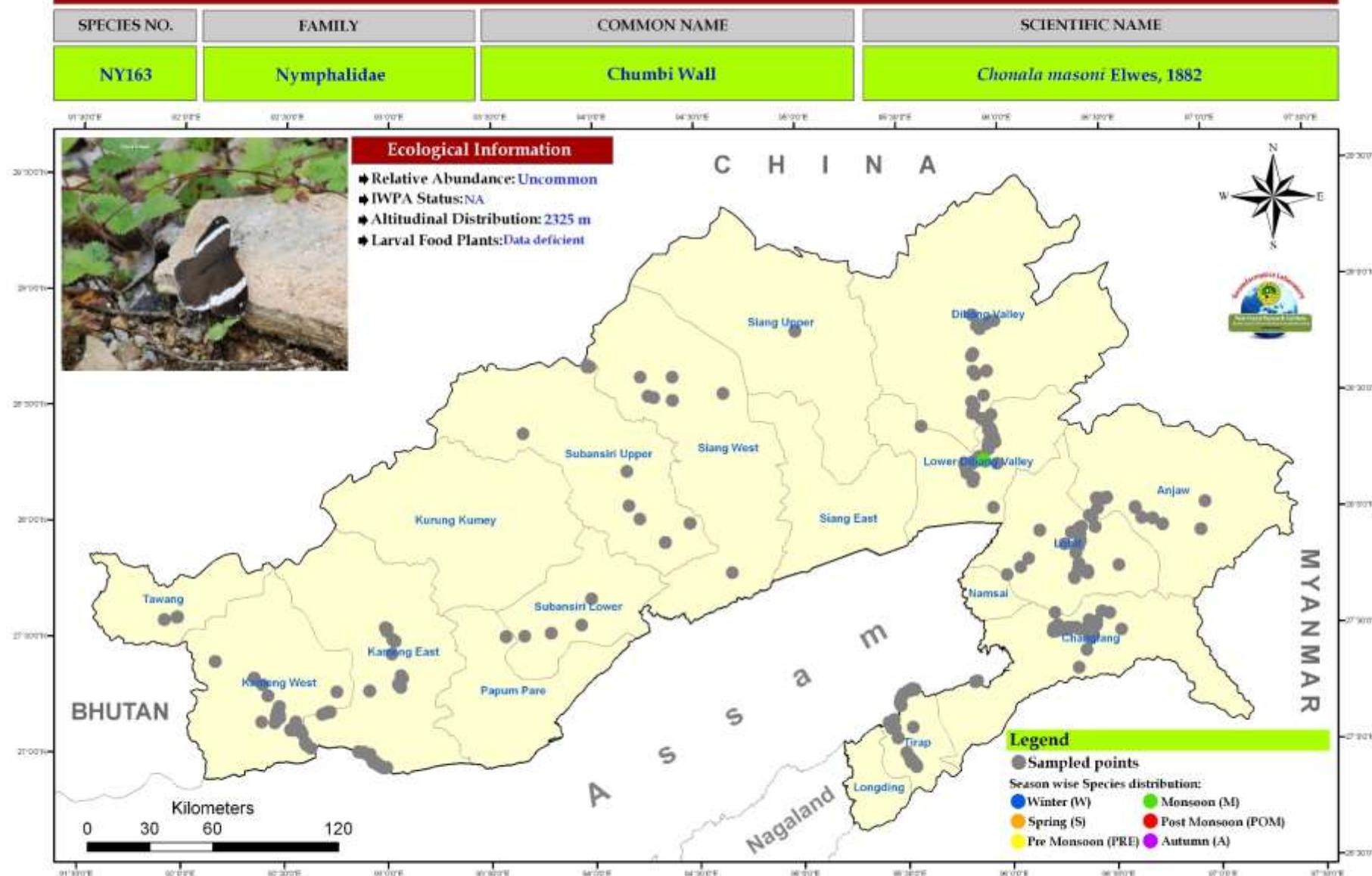
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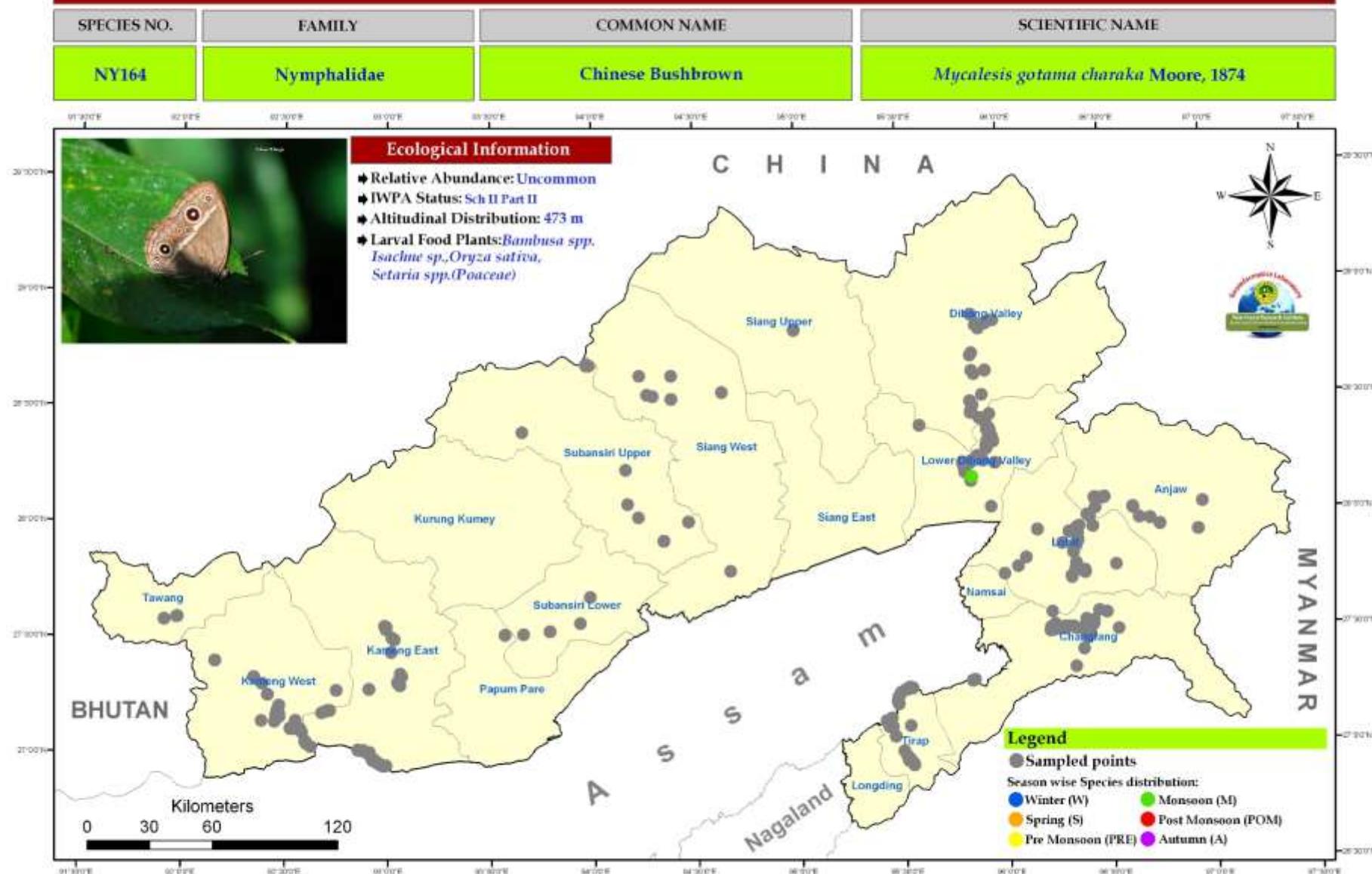
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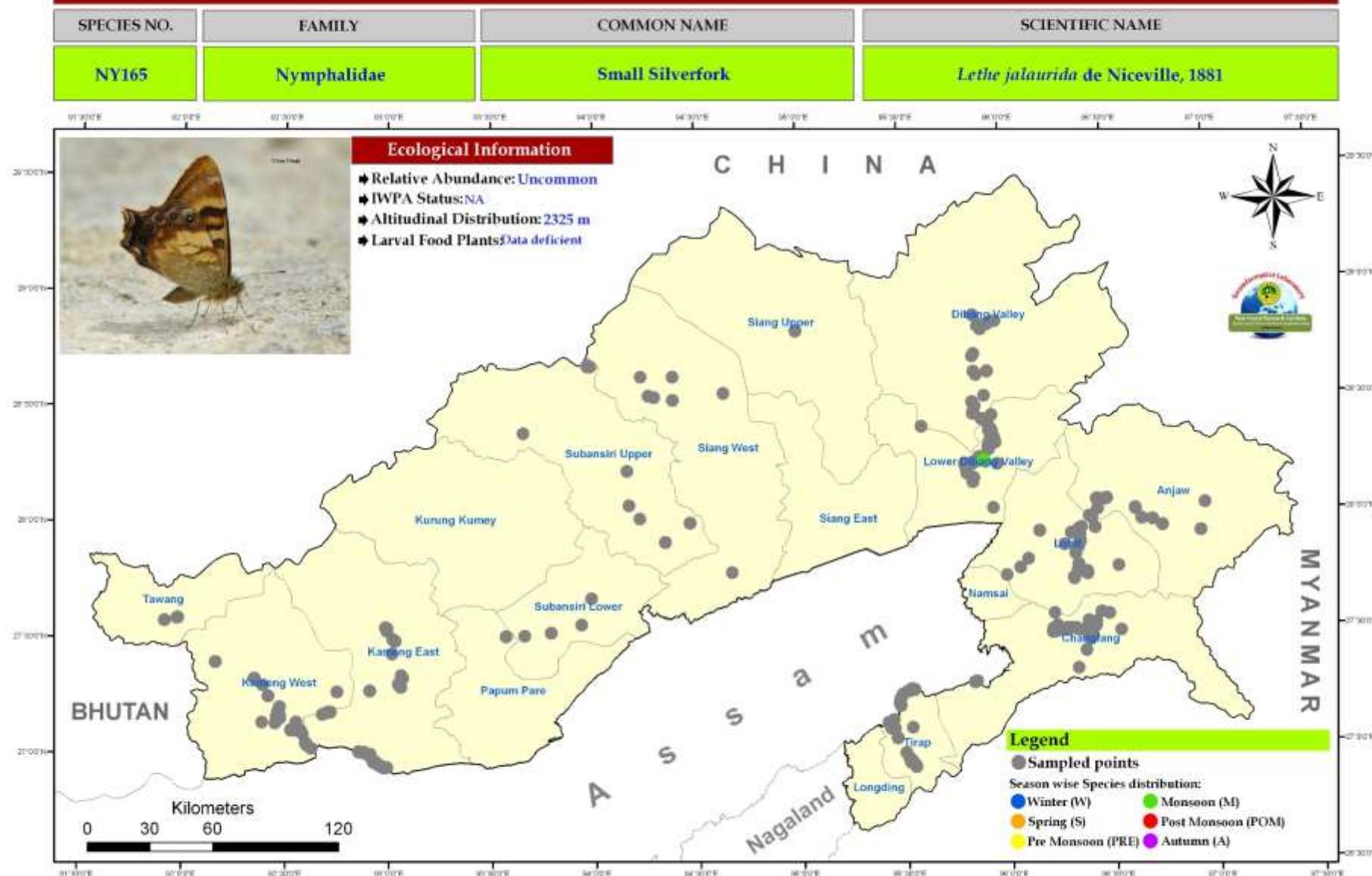
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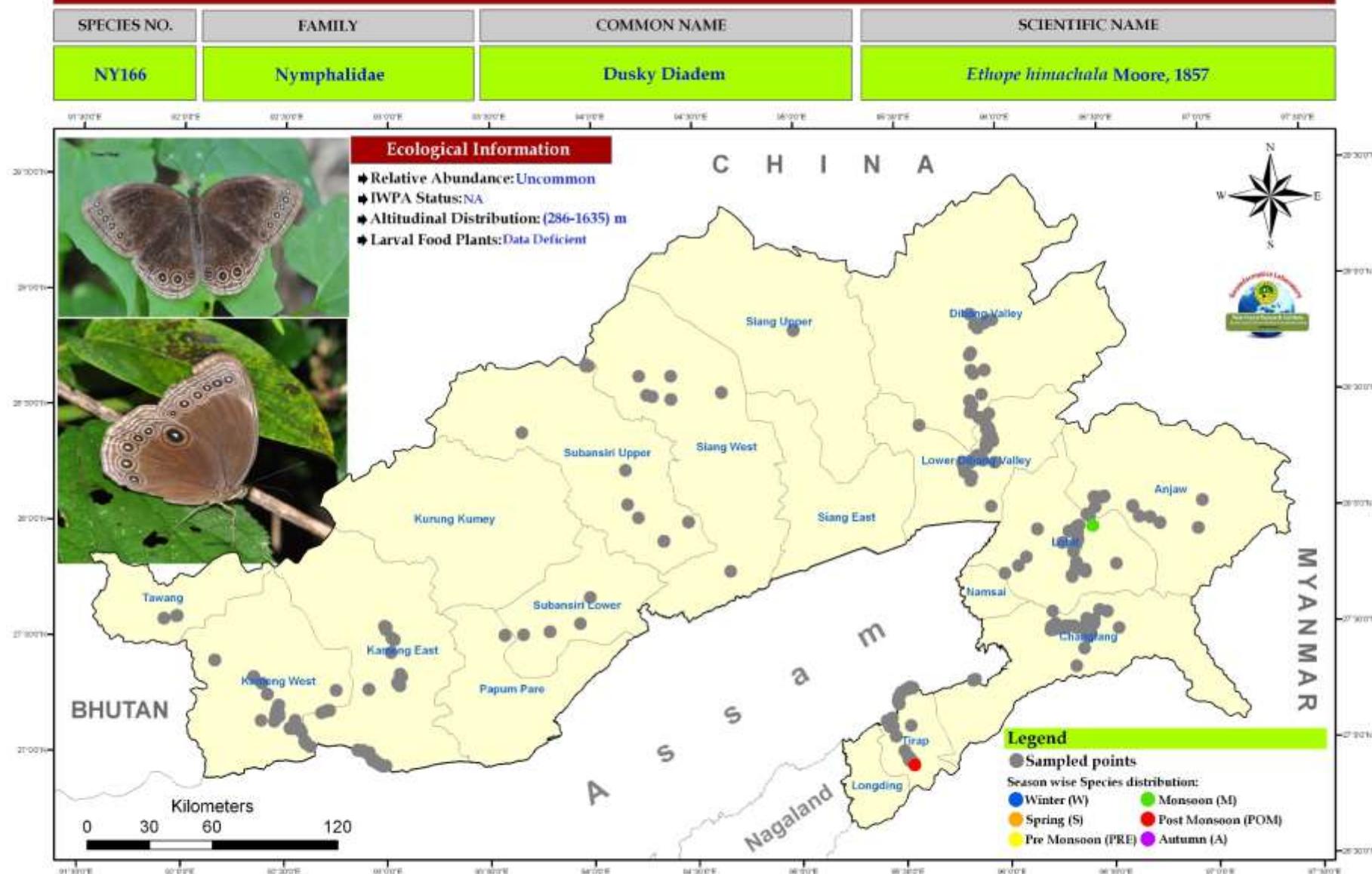
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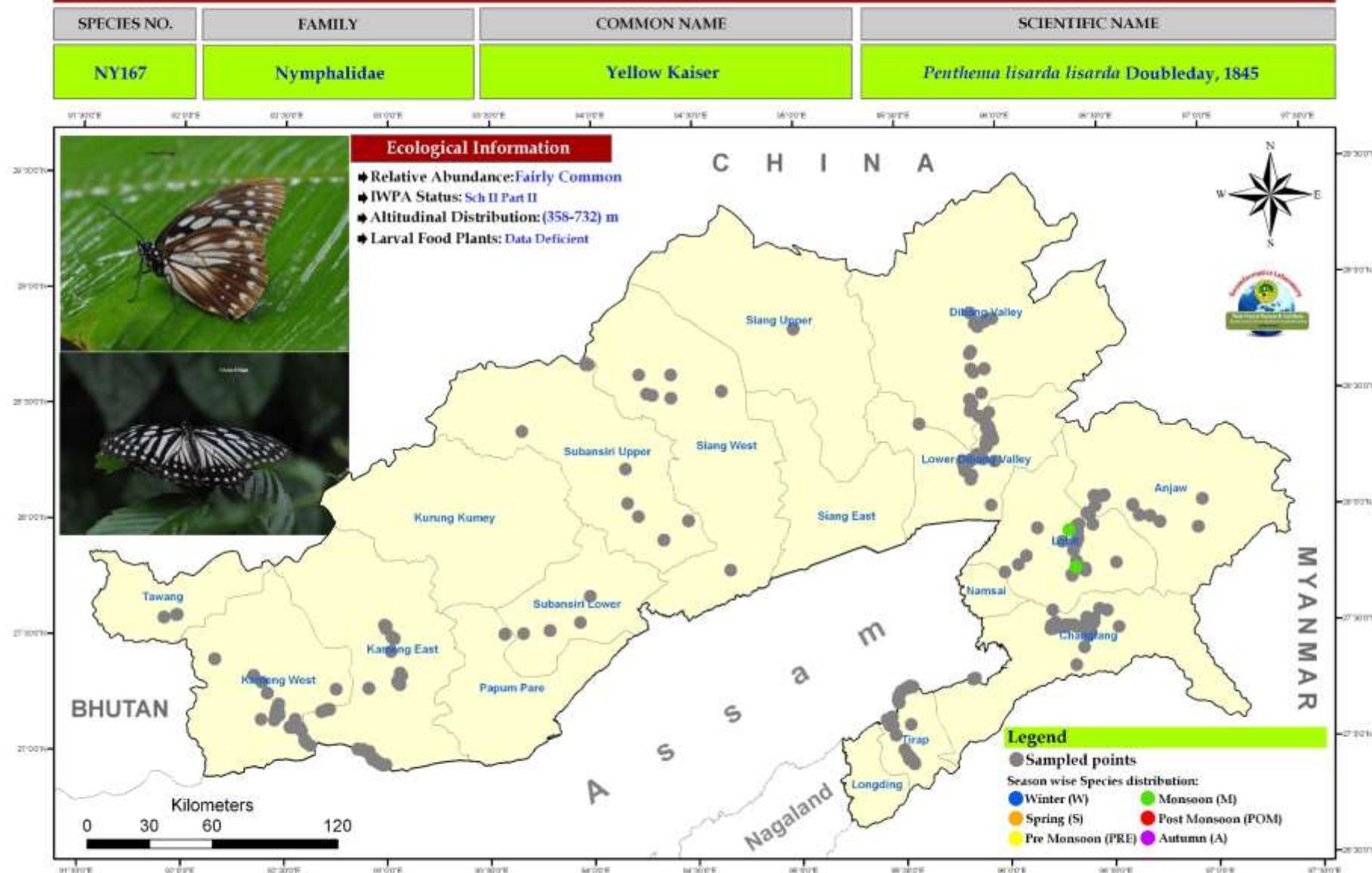
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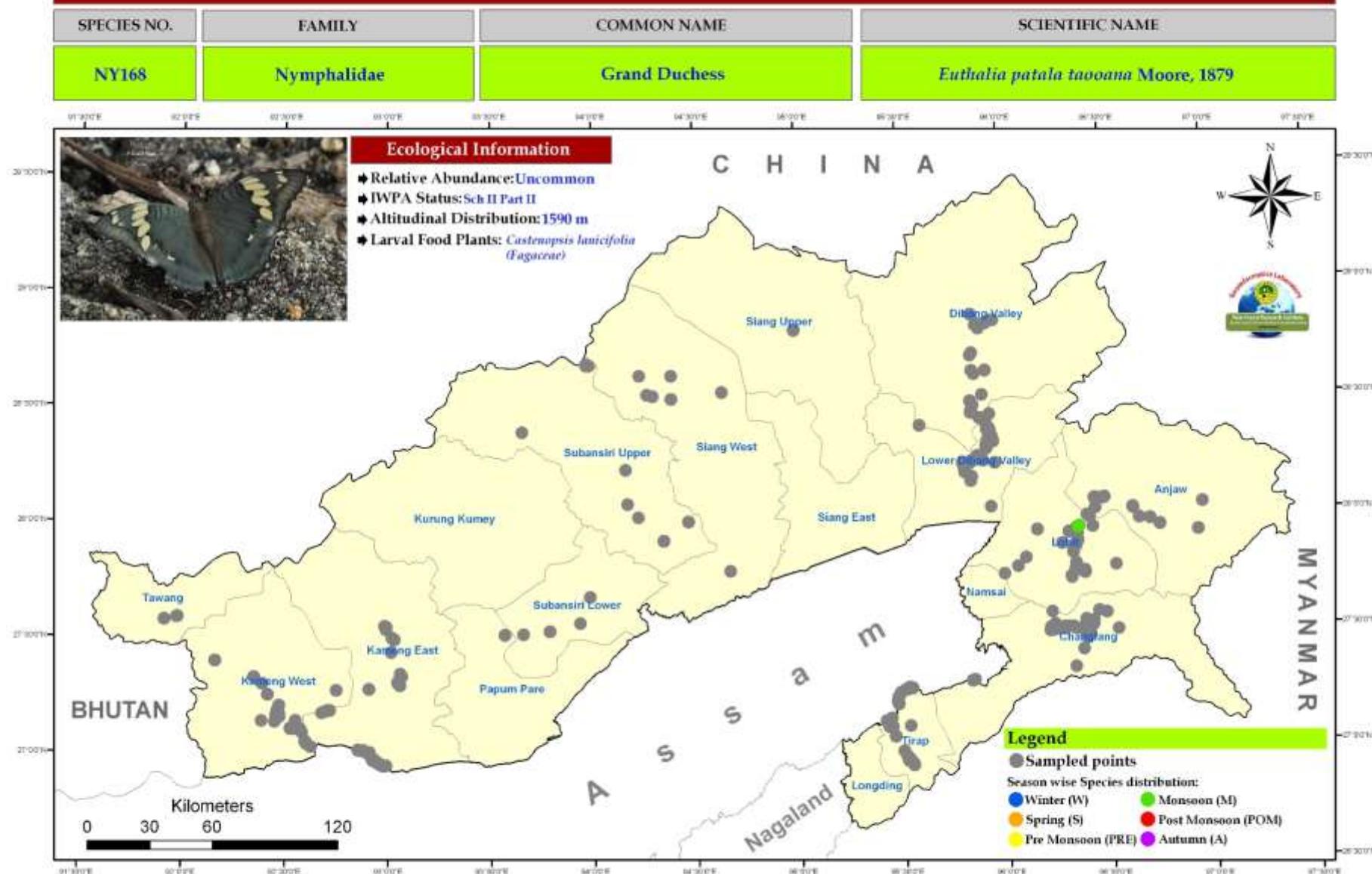
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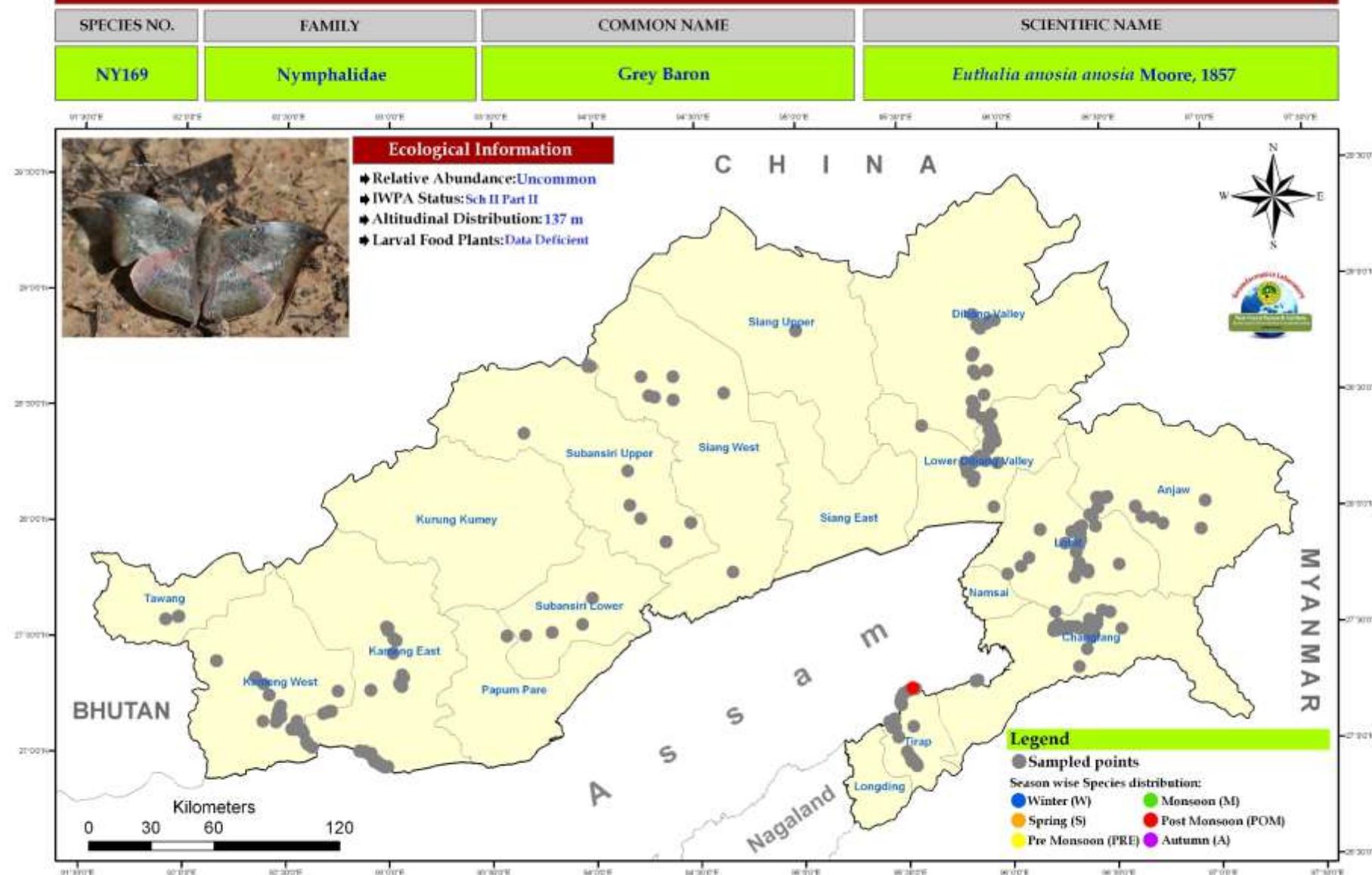
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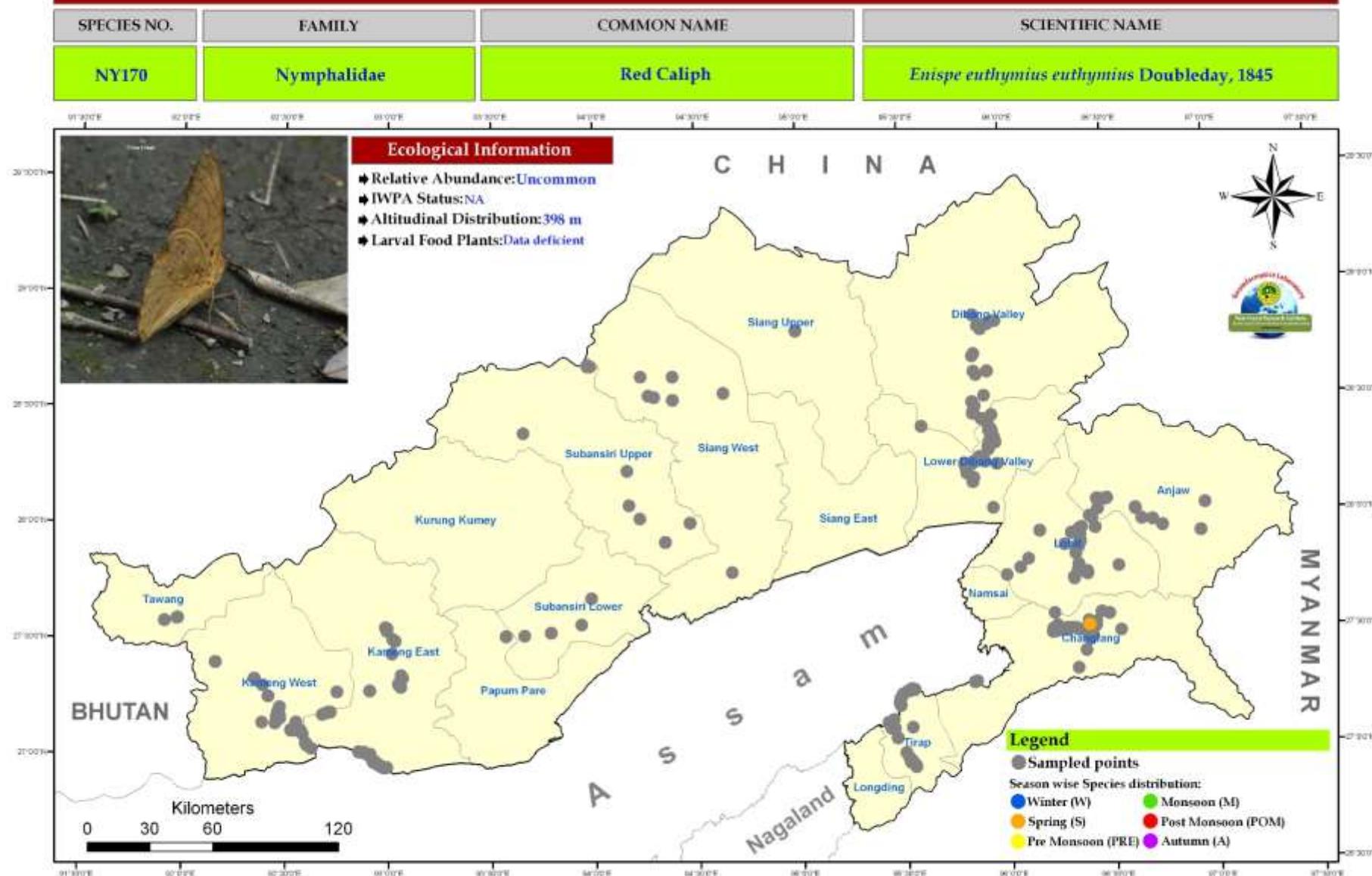
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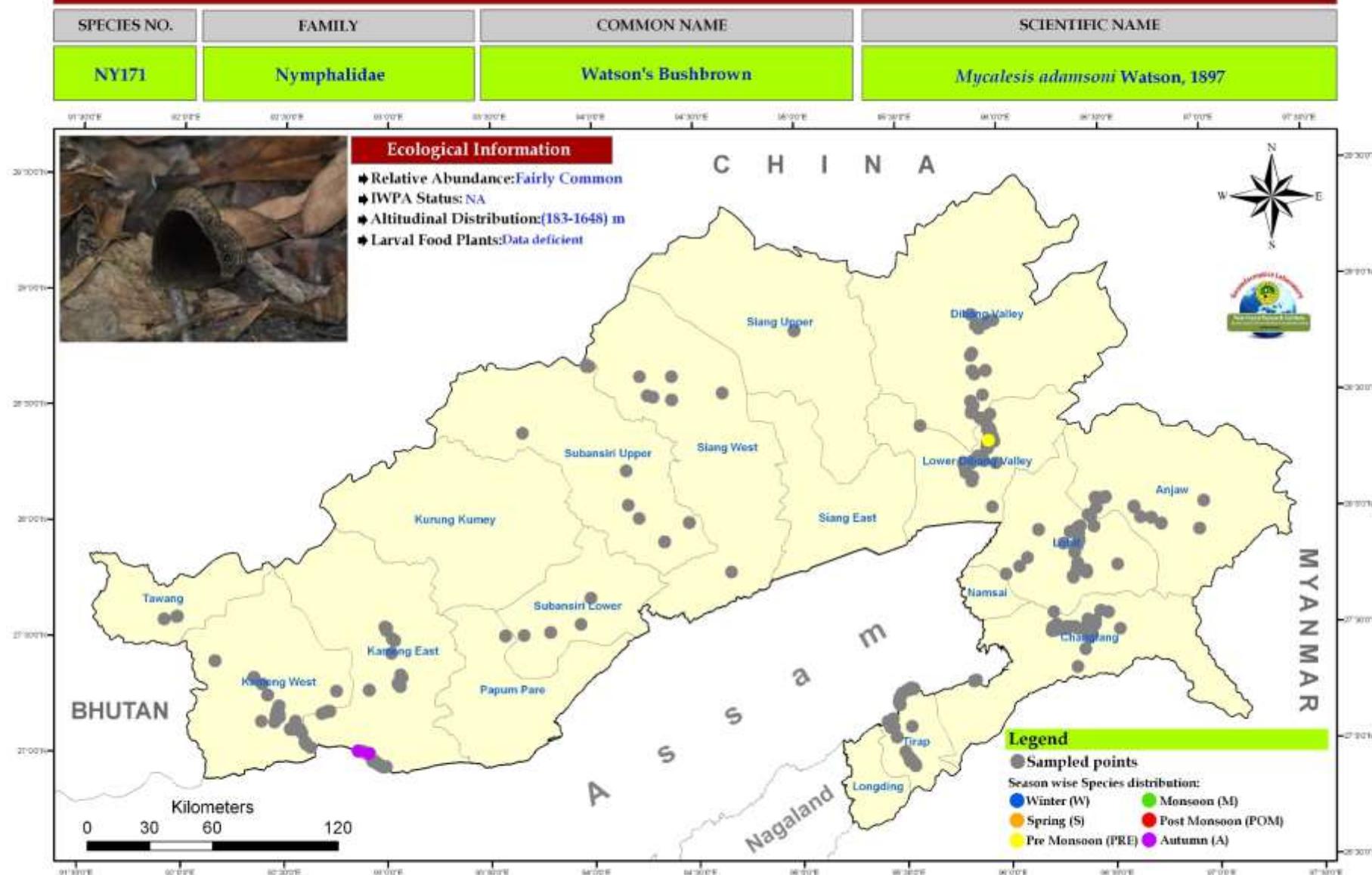
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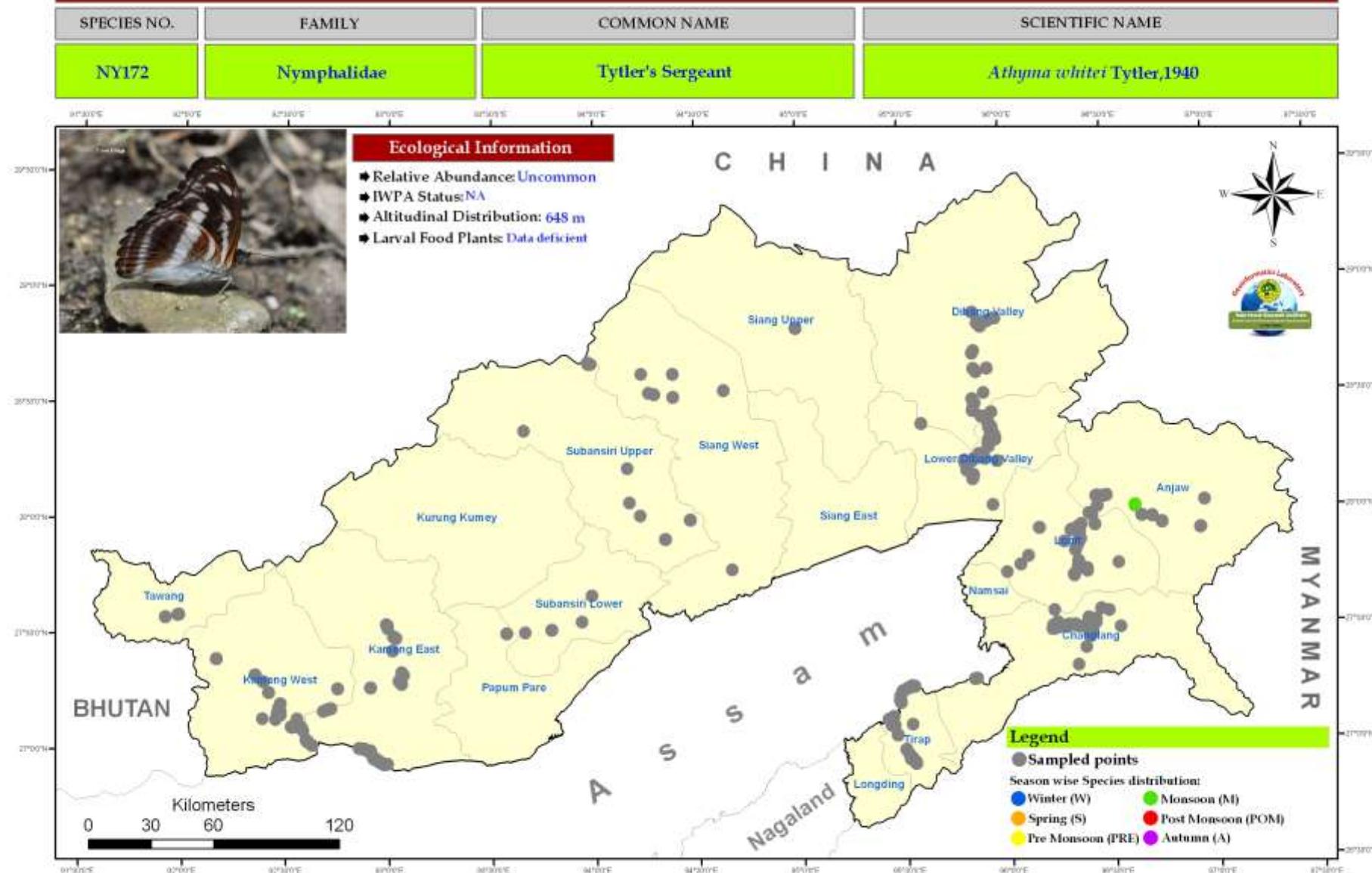
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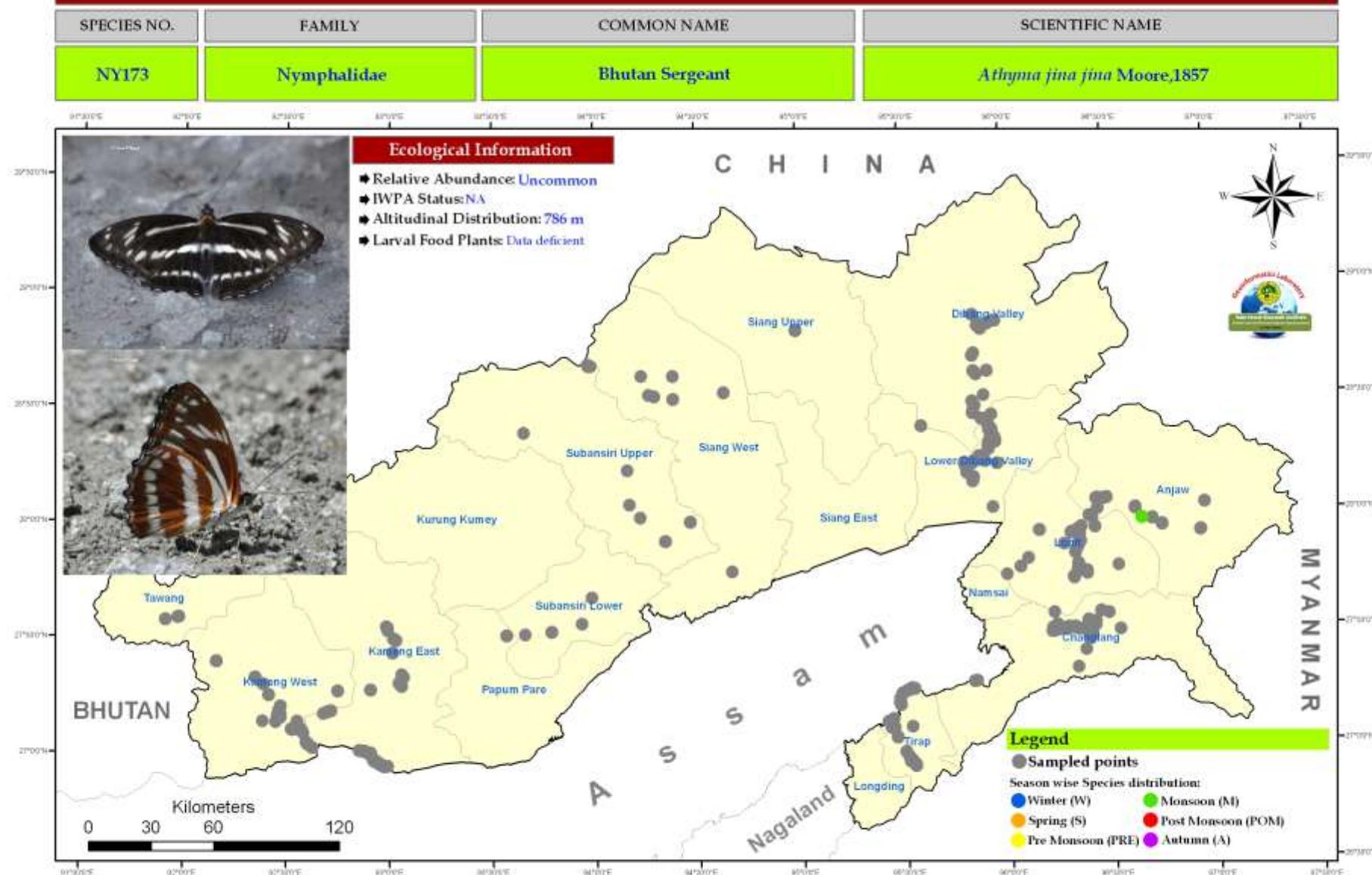
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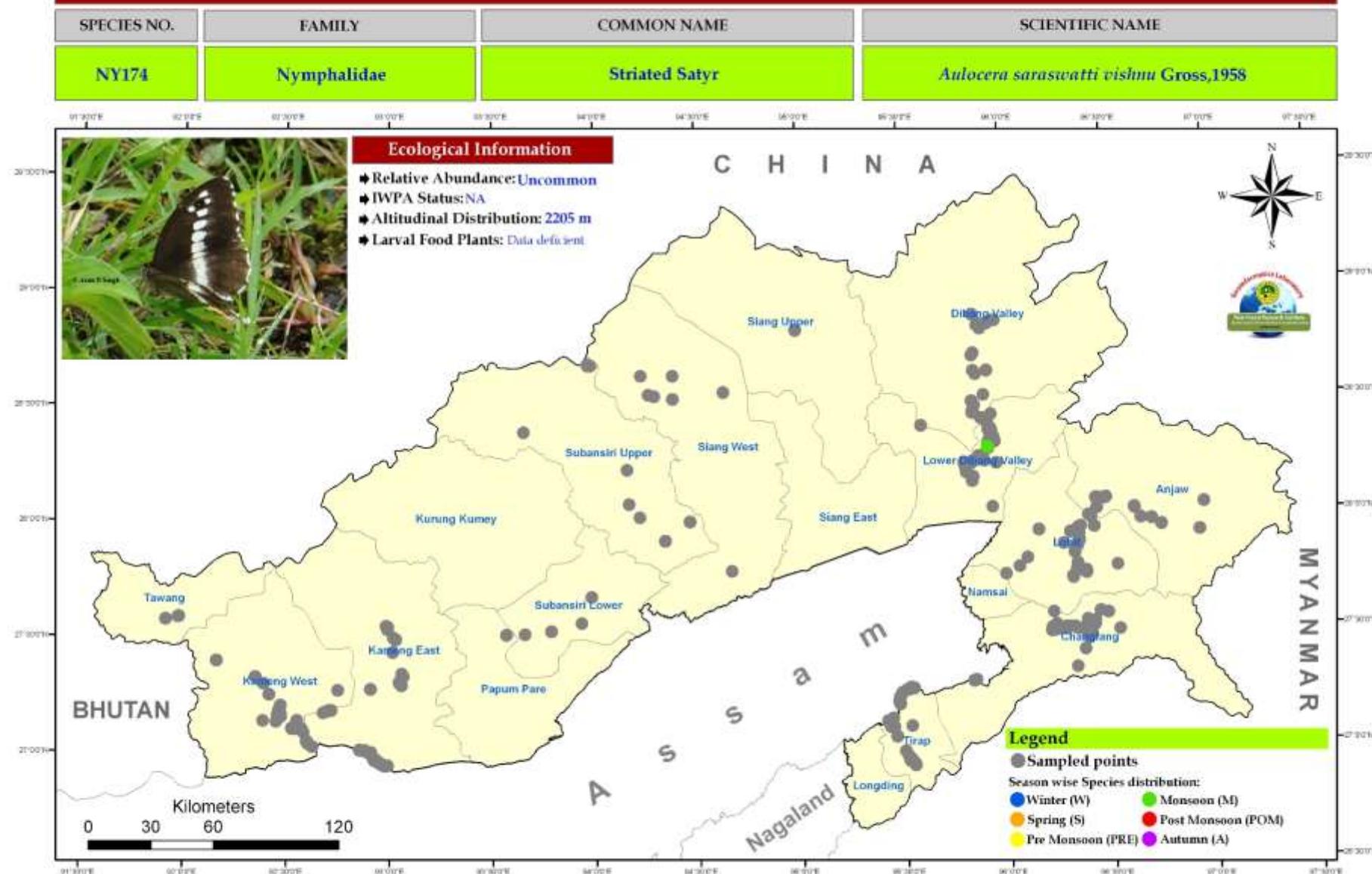
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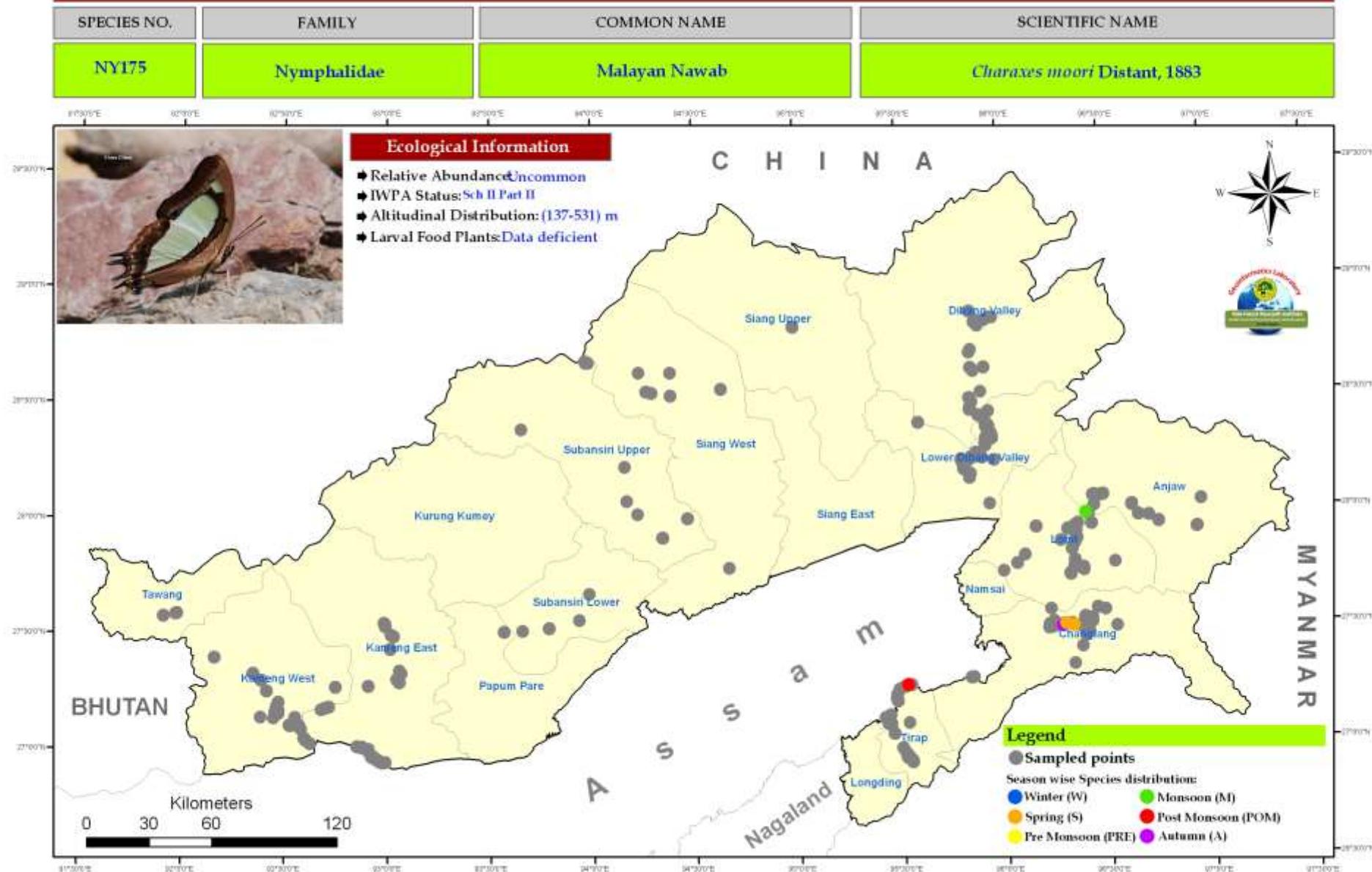
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SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA



SPECIES DISTRIBUTION MAP IN ARUNACHAL PRADESH, INDIA



Butterfly Distribution Maps

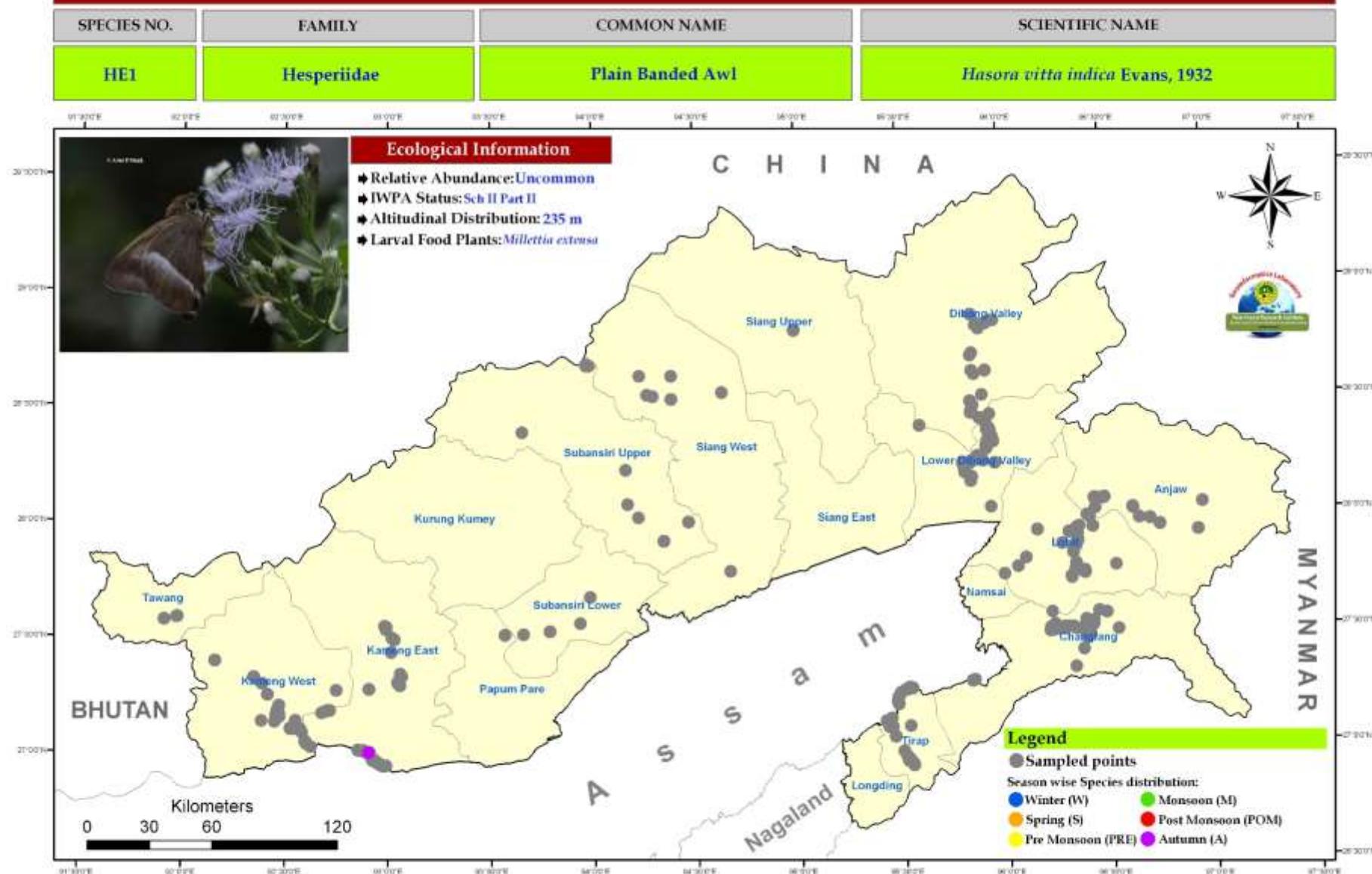
HESPERIDAE

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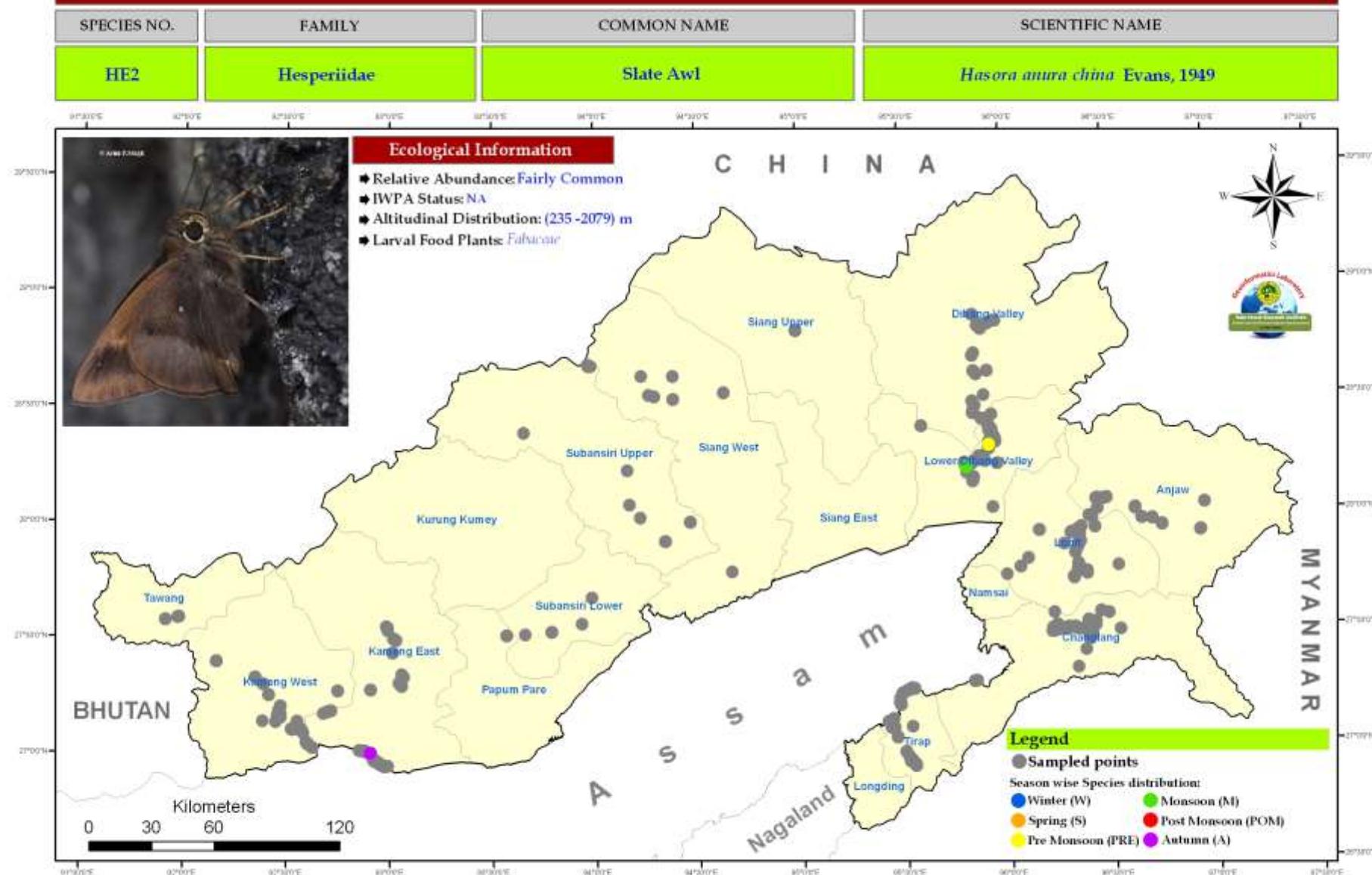
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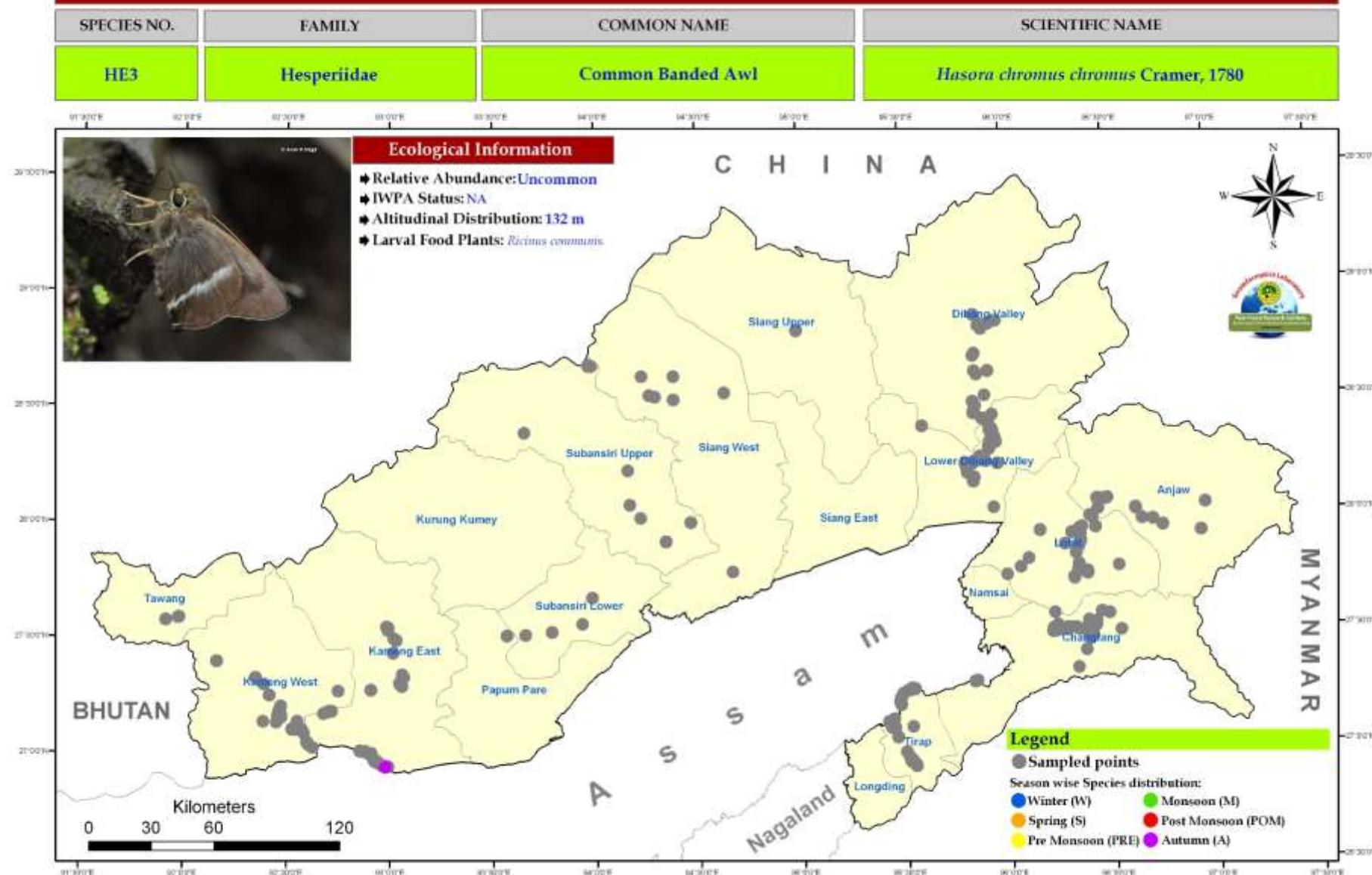
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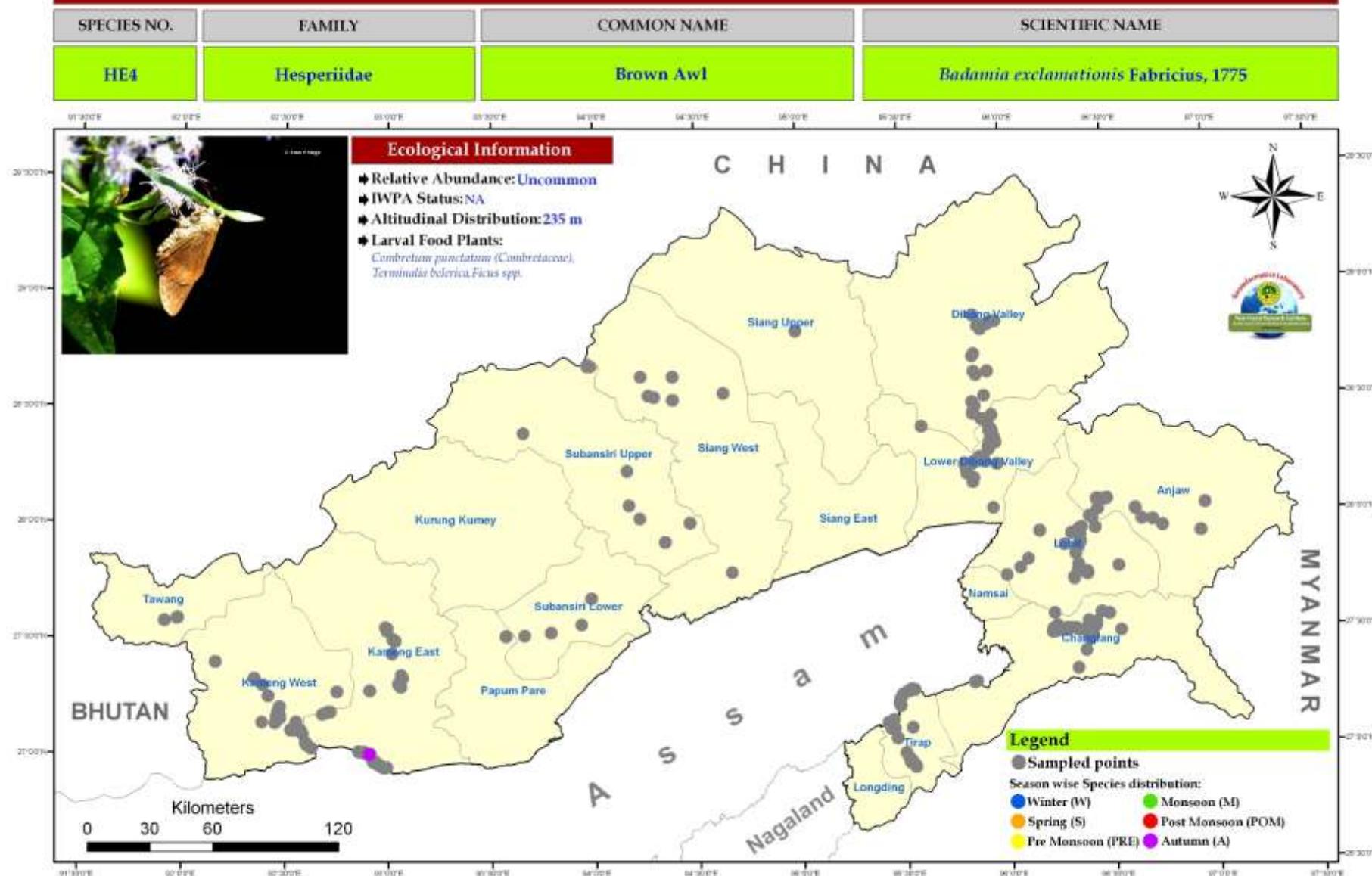
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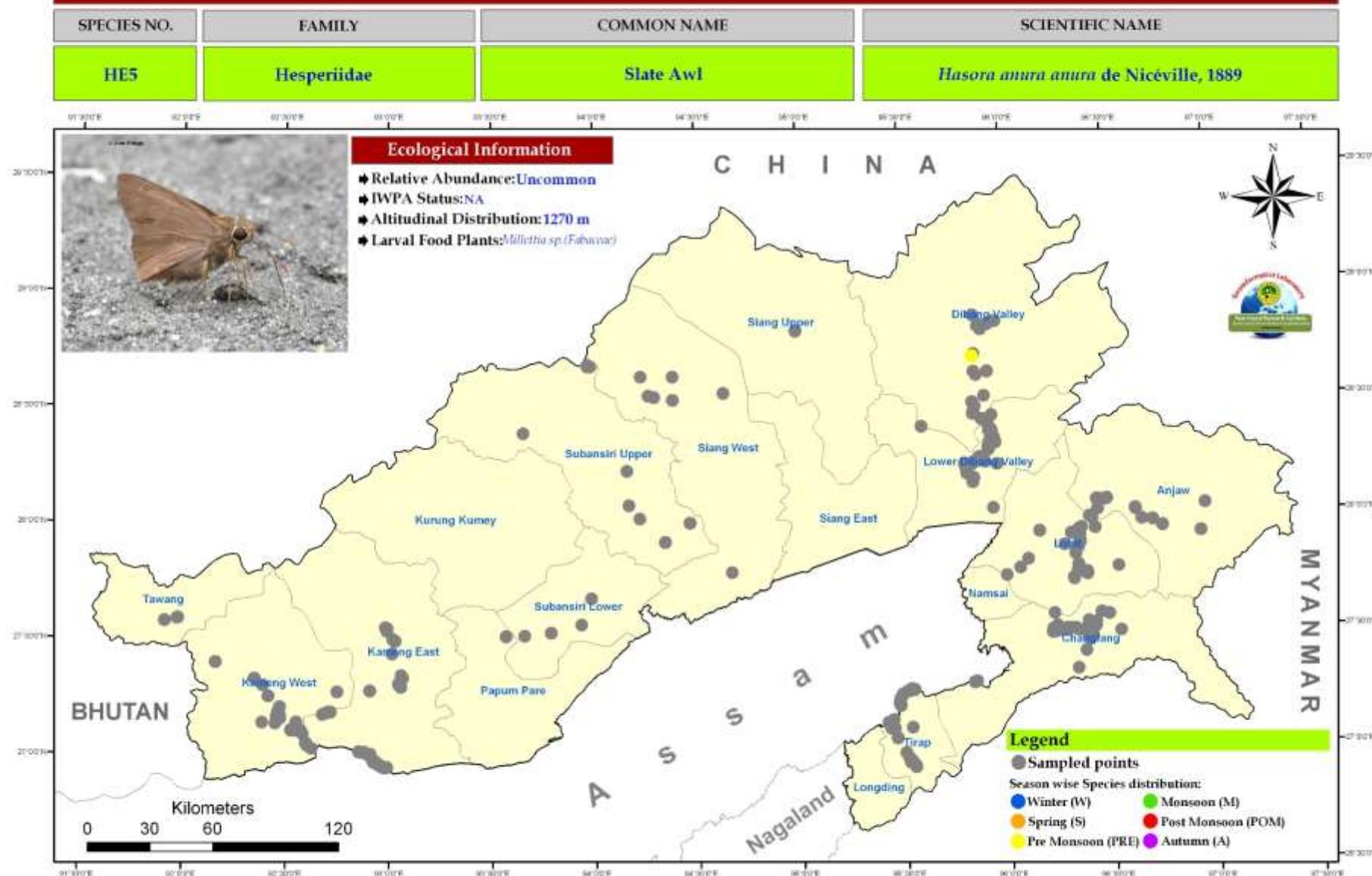
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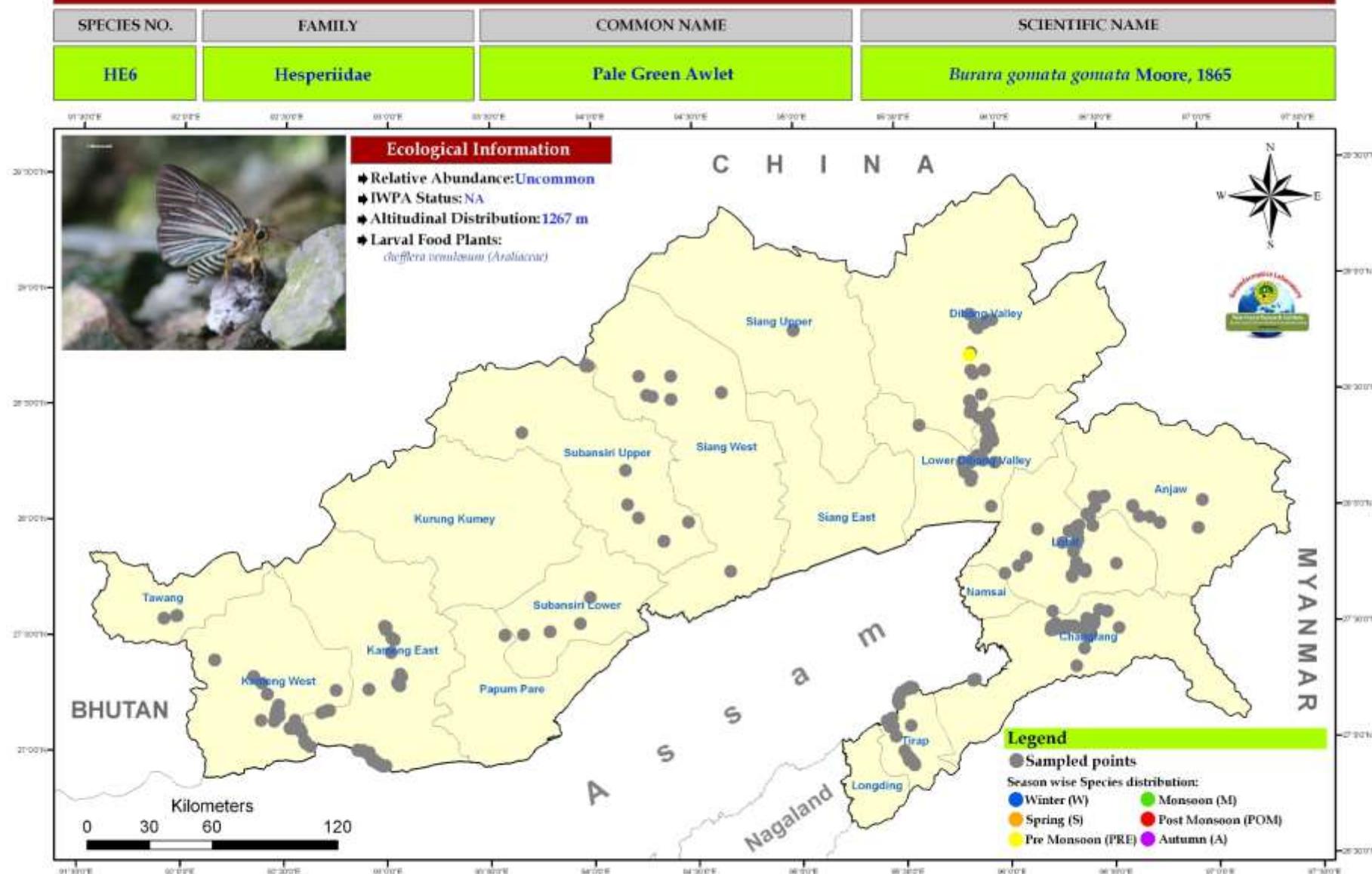
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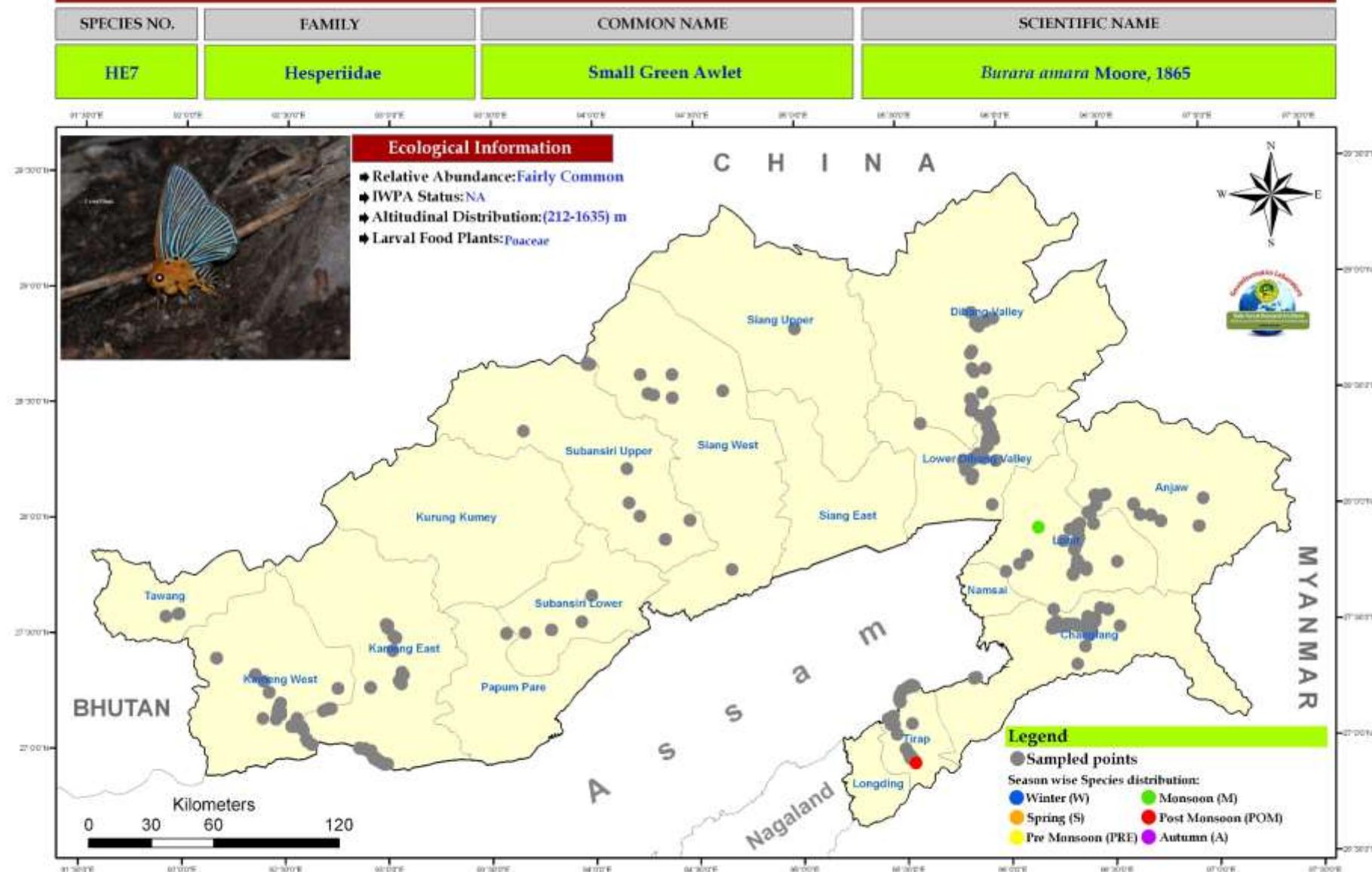
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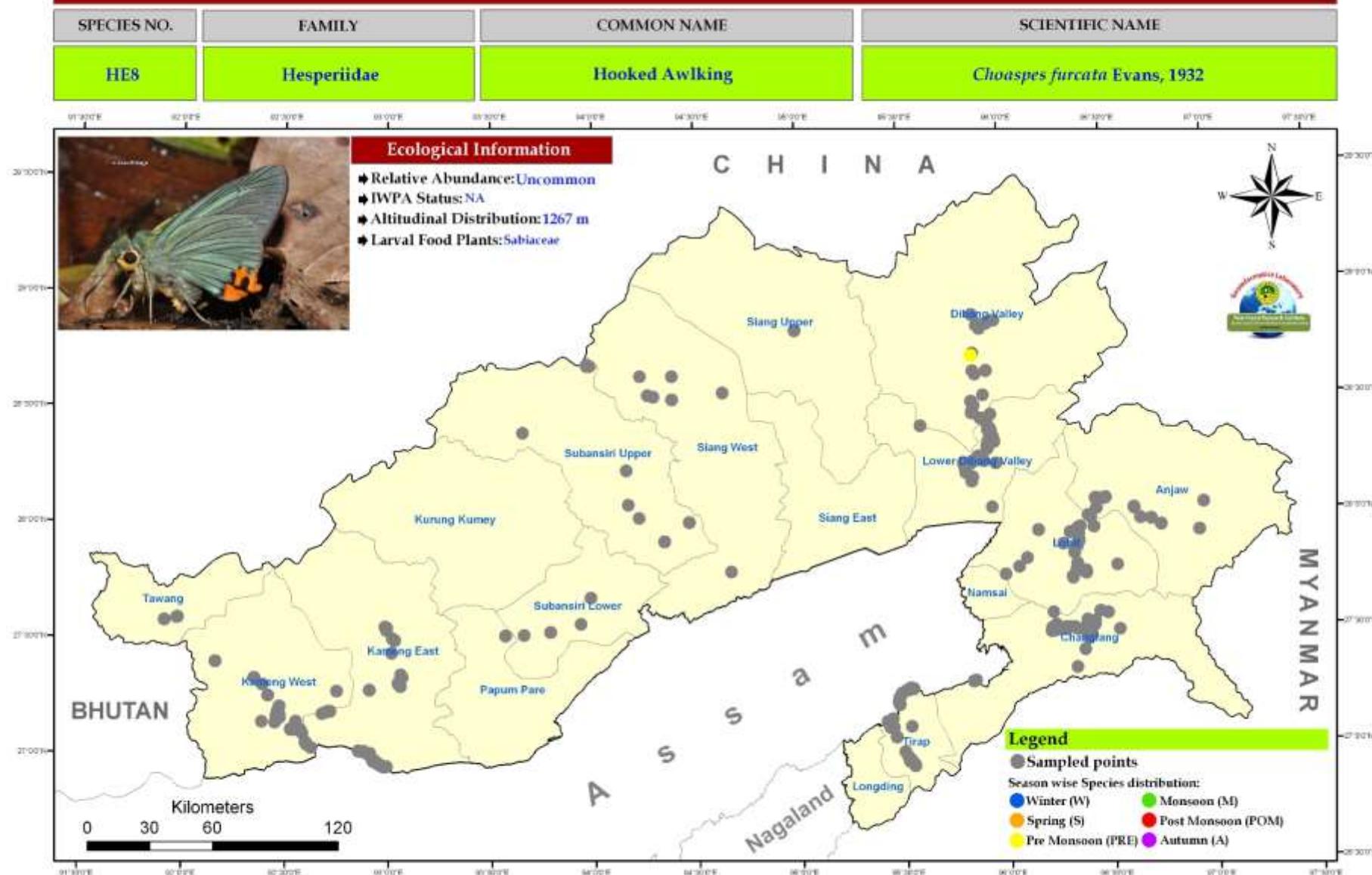
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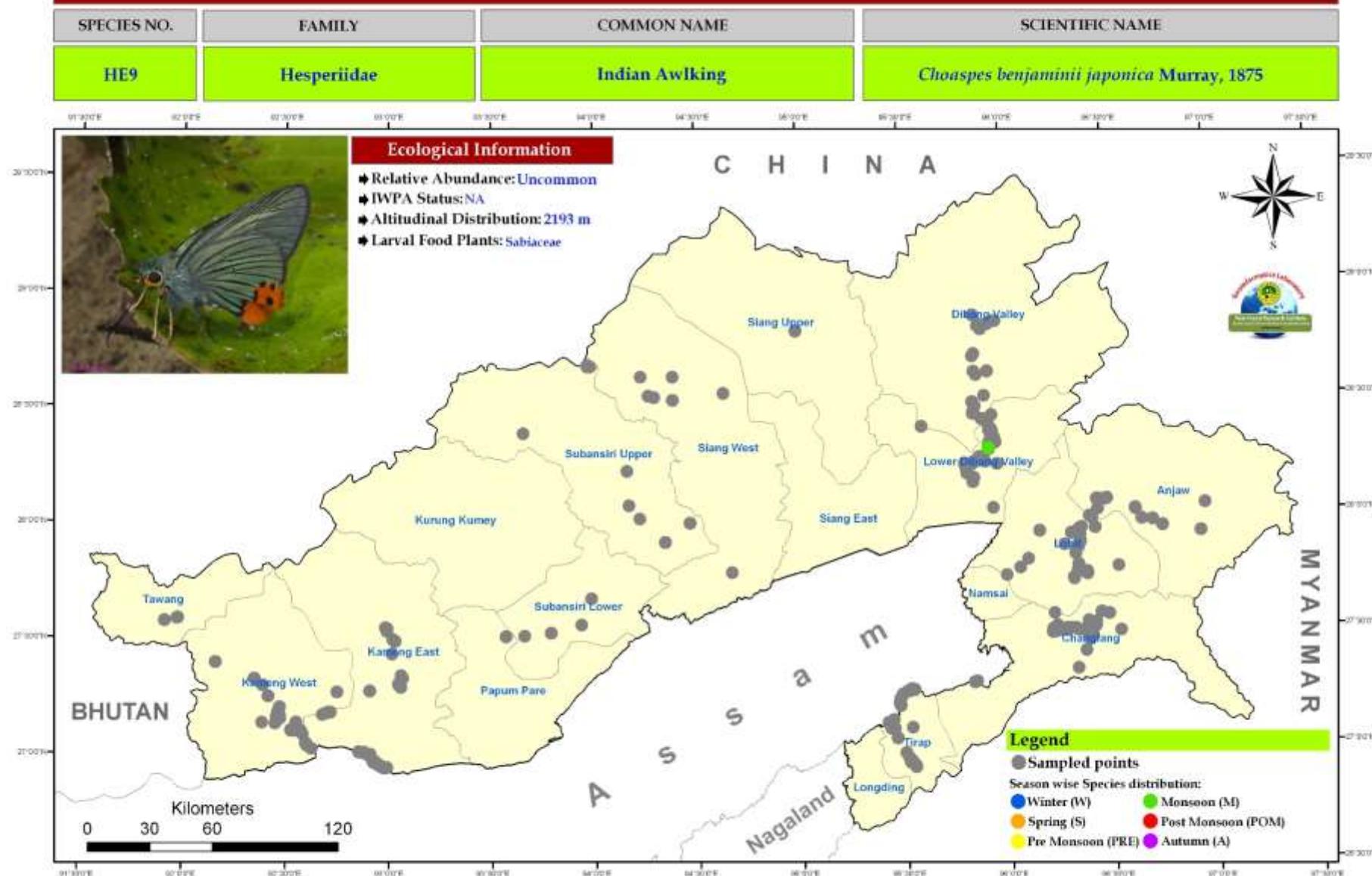
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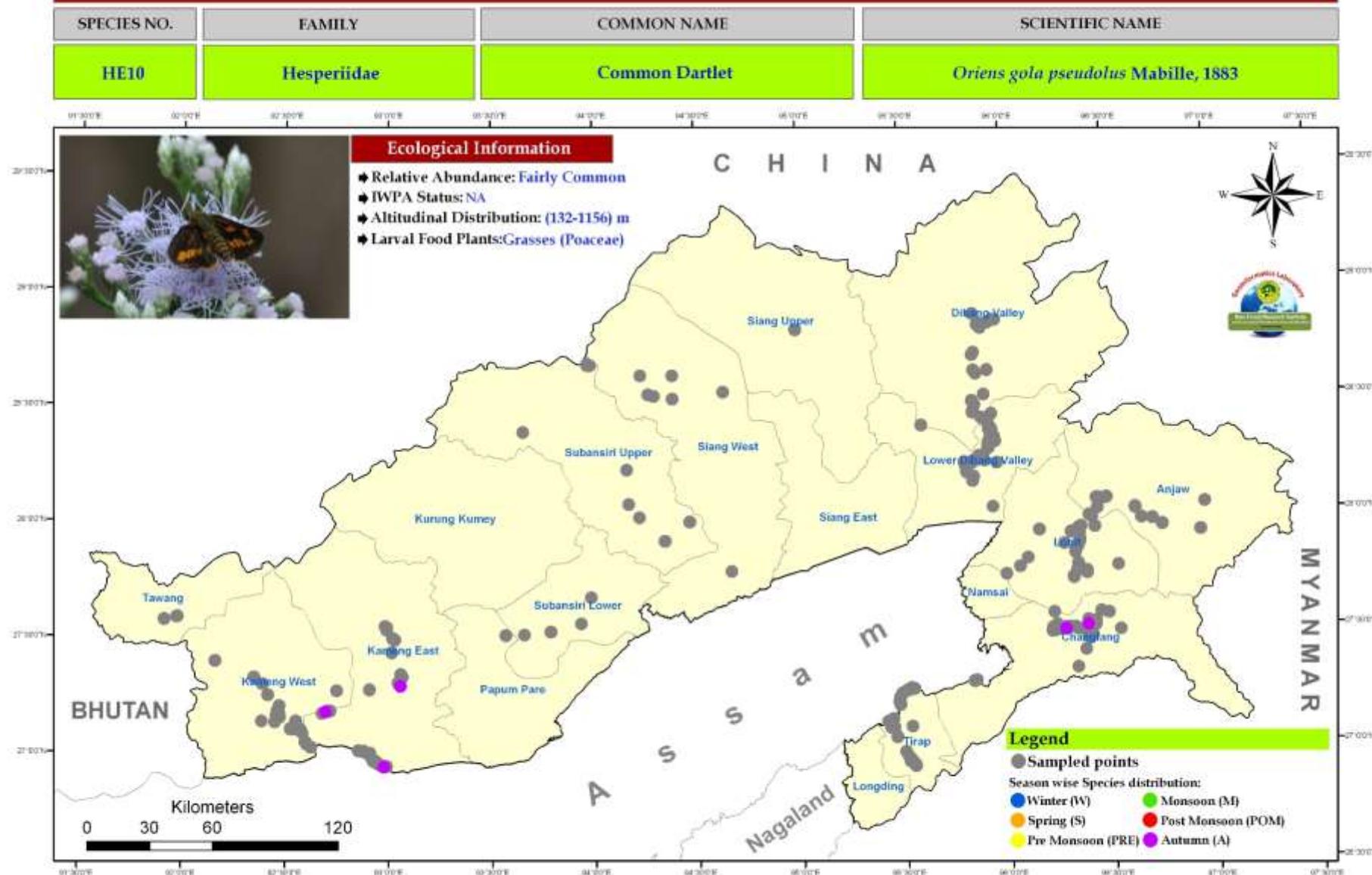
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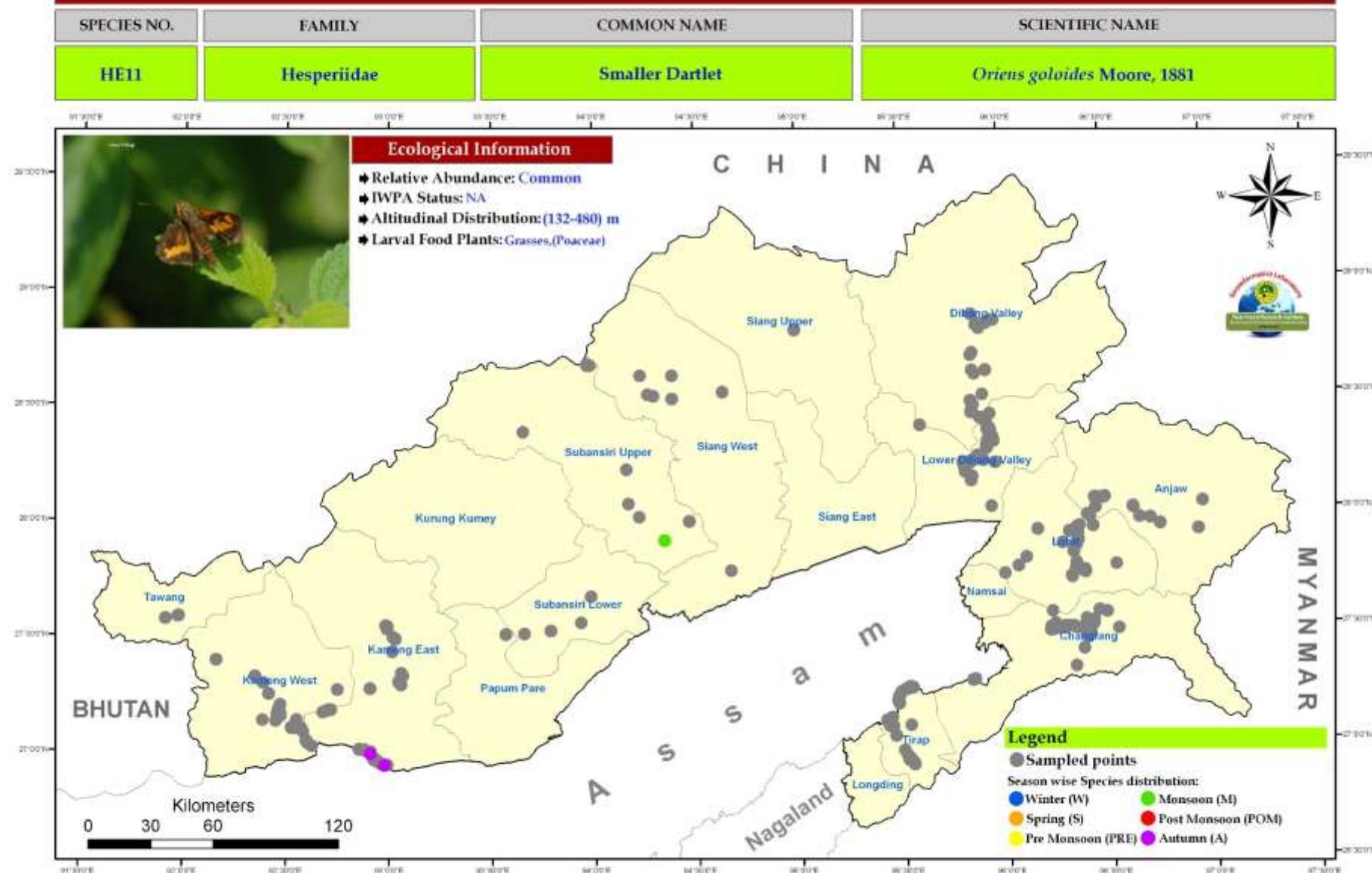
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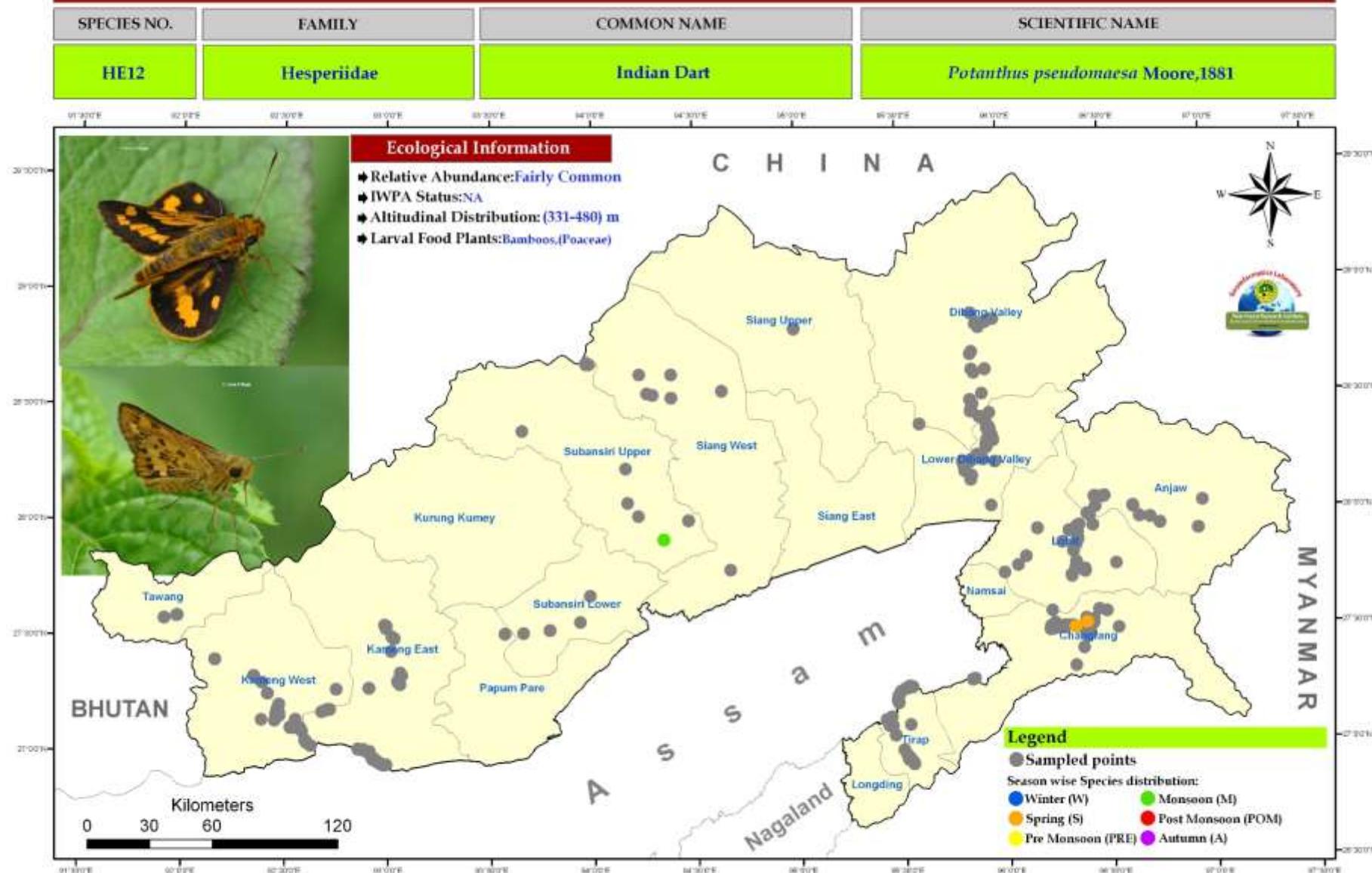
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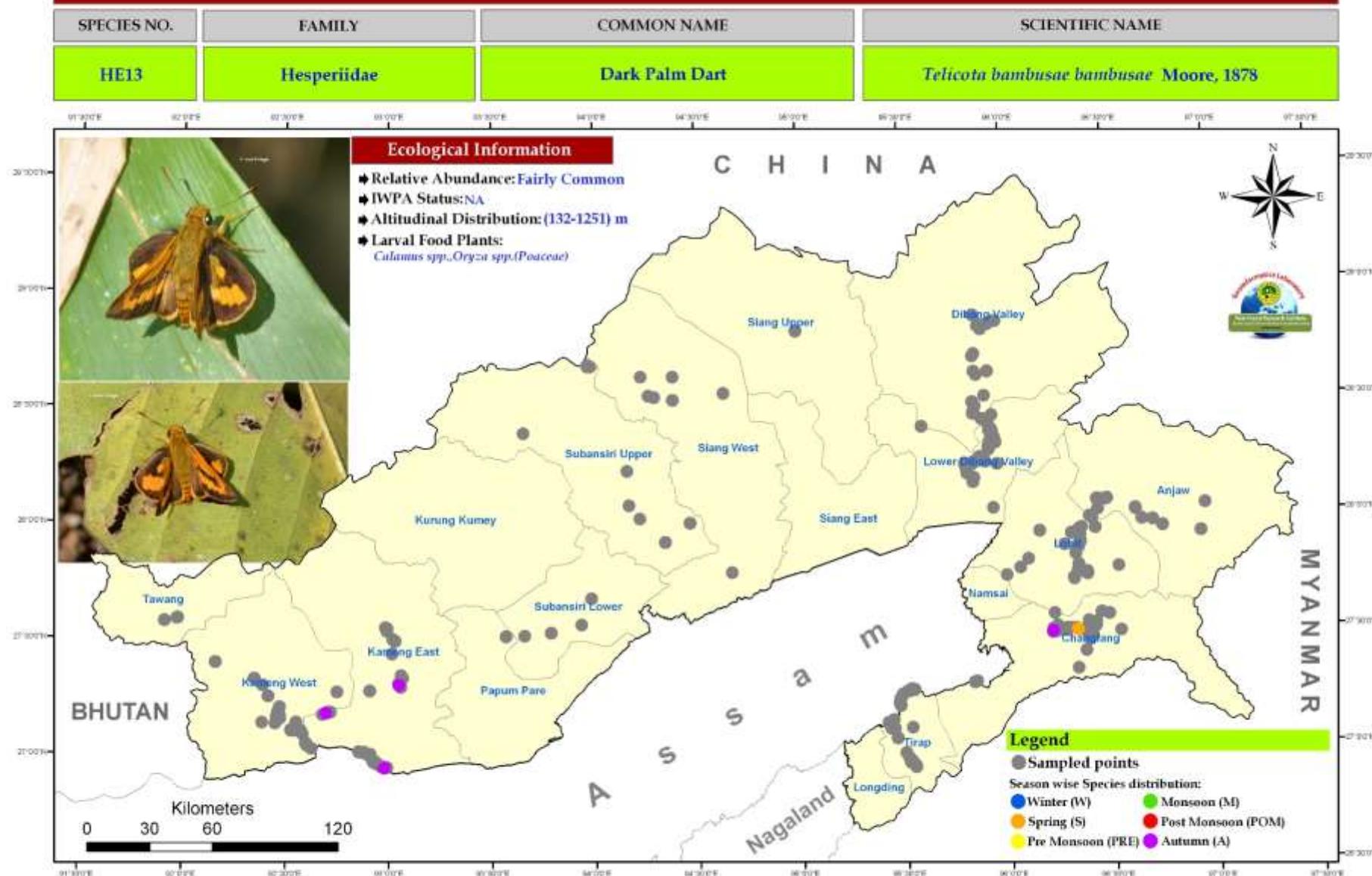
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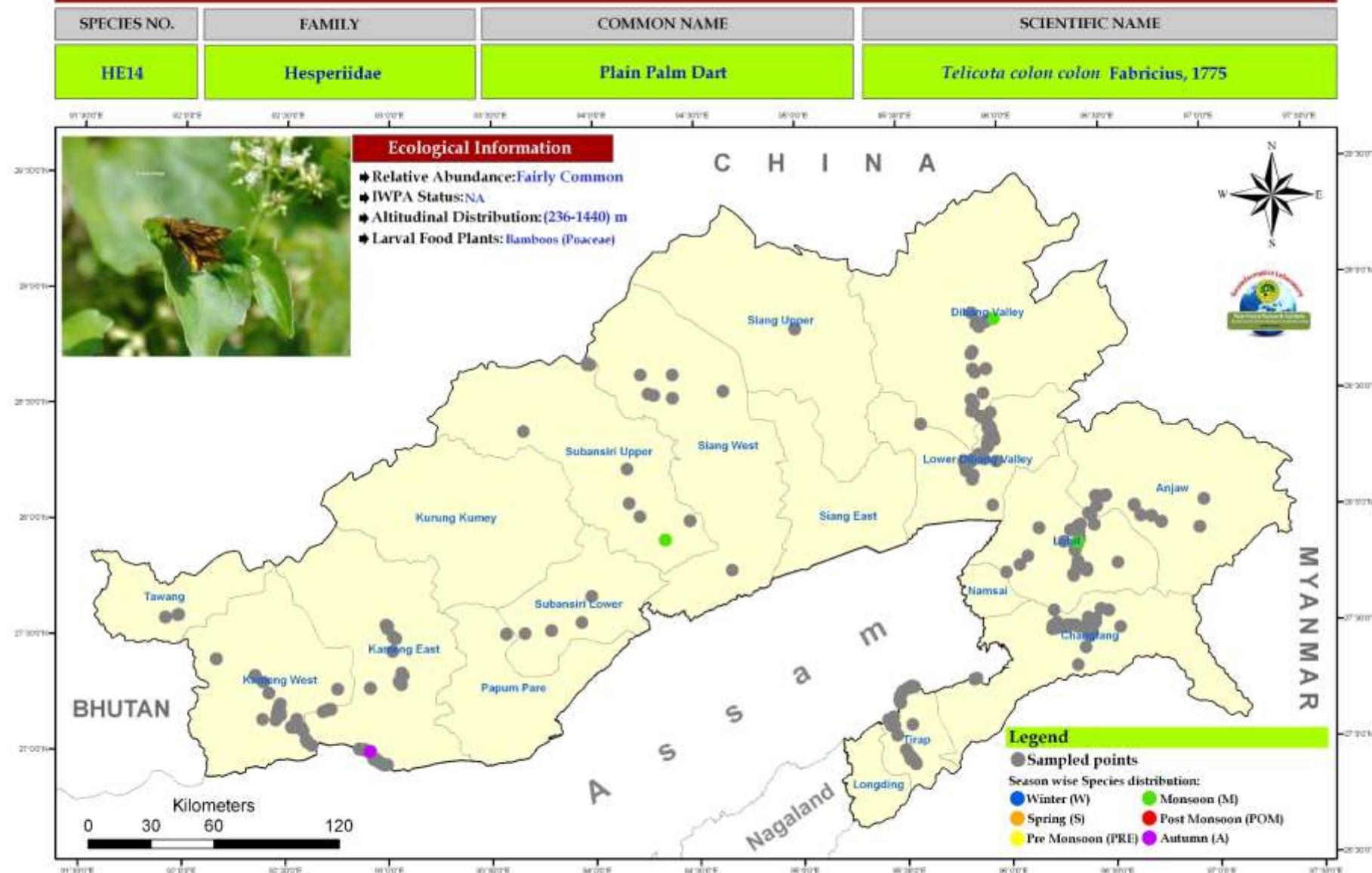
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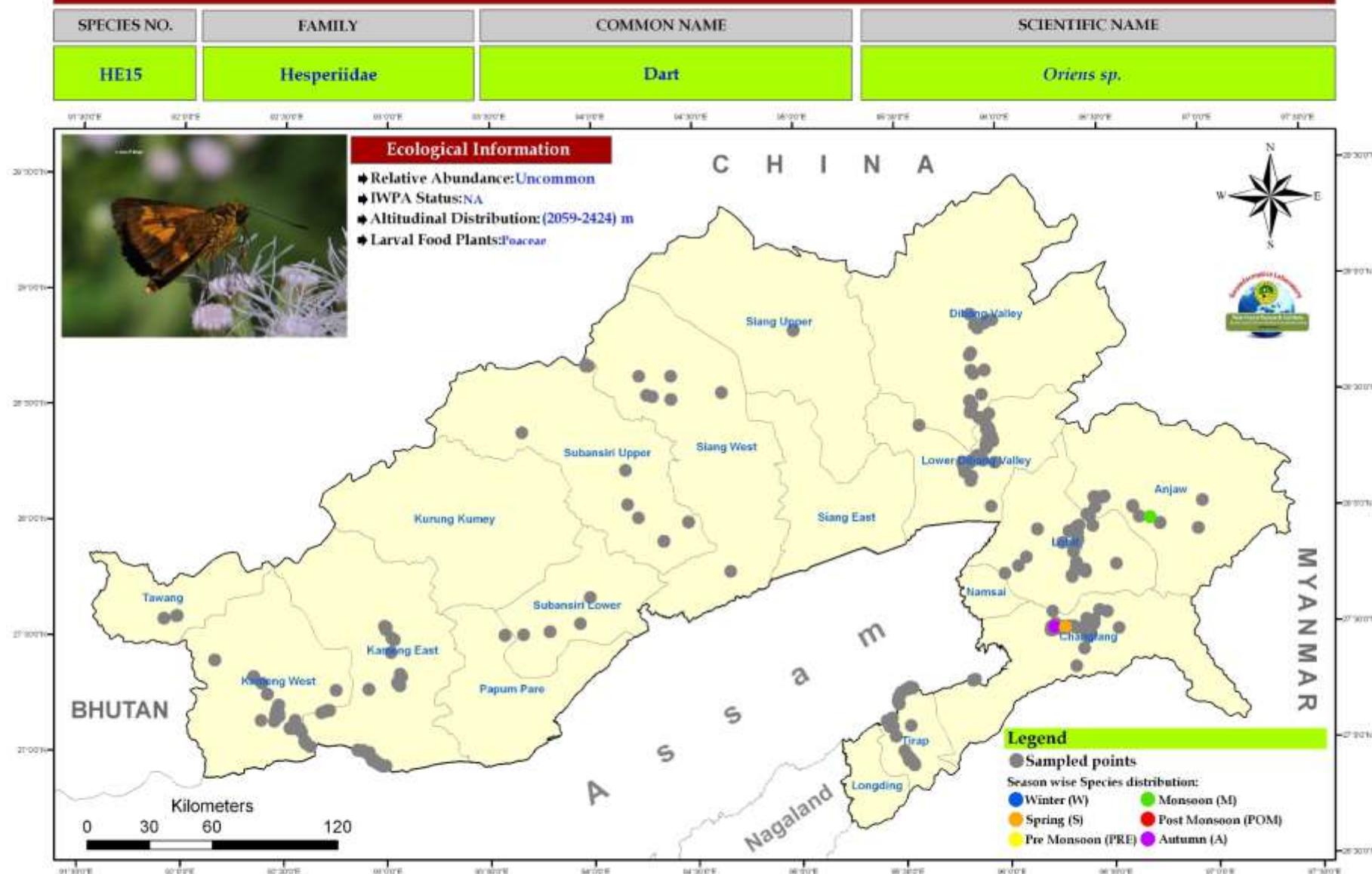
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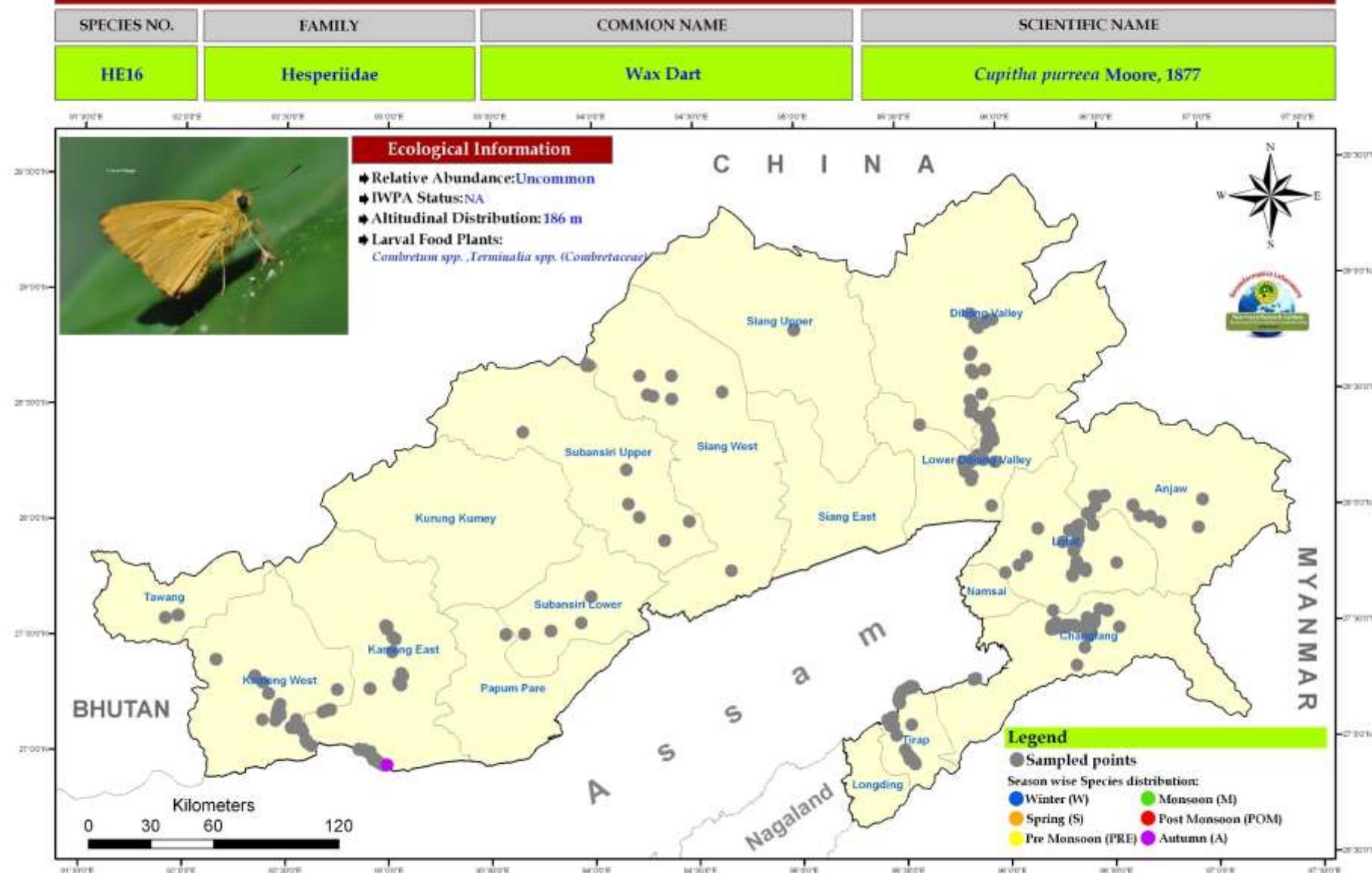
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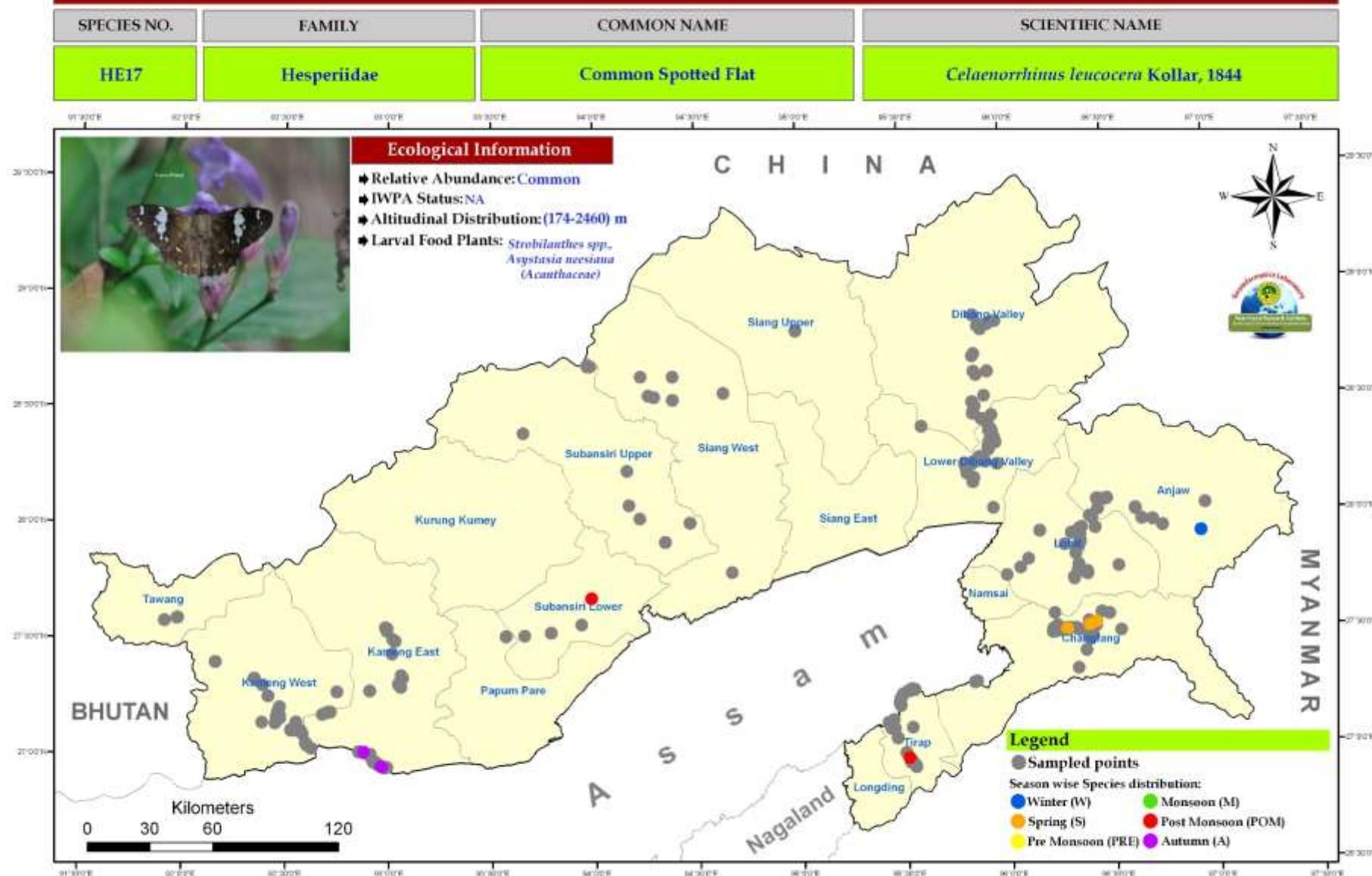
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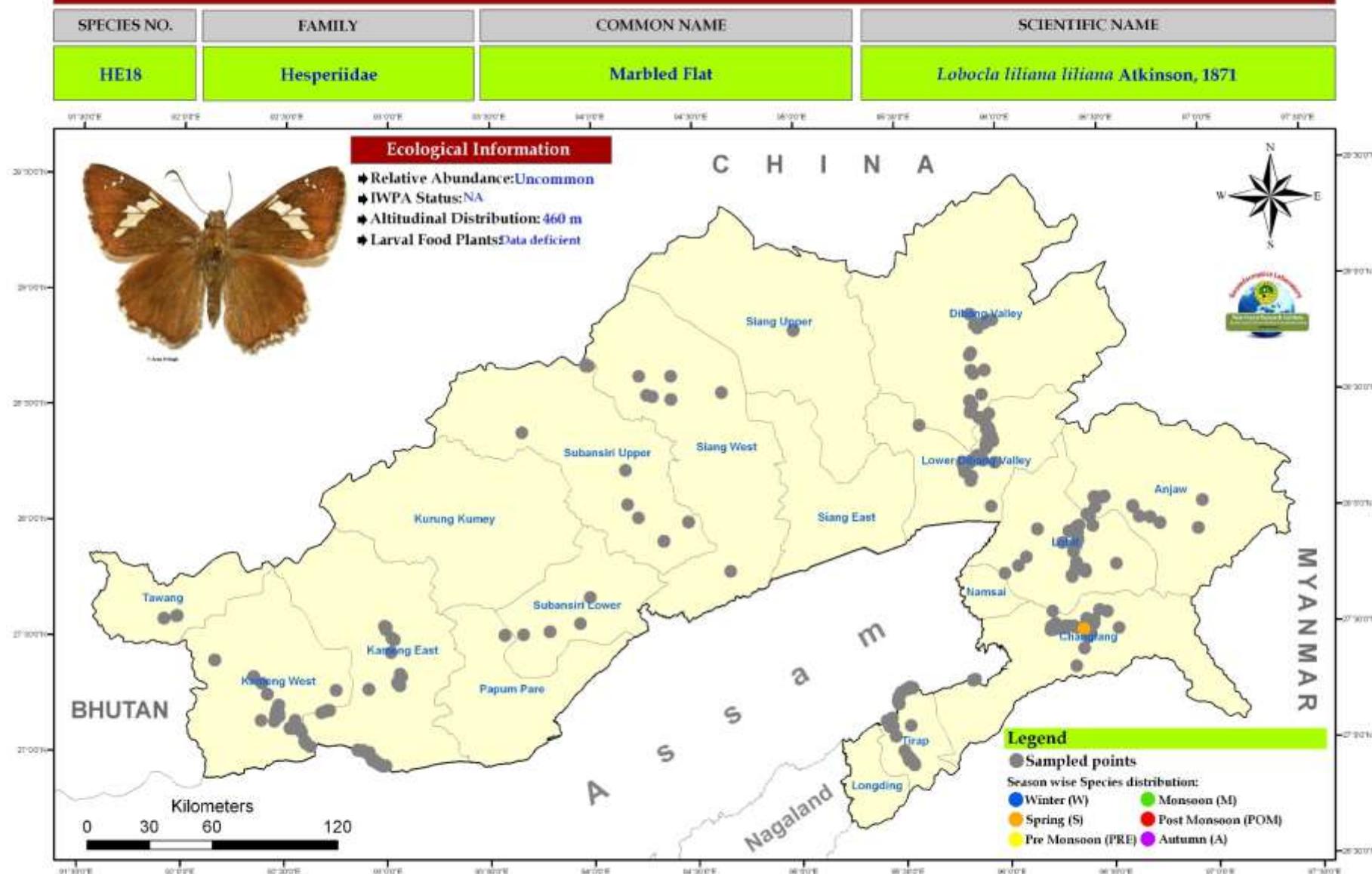
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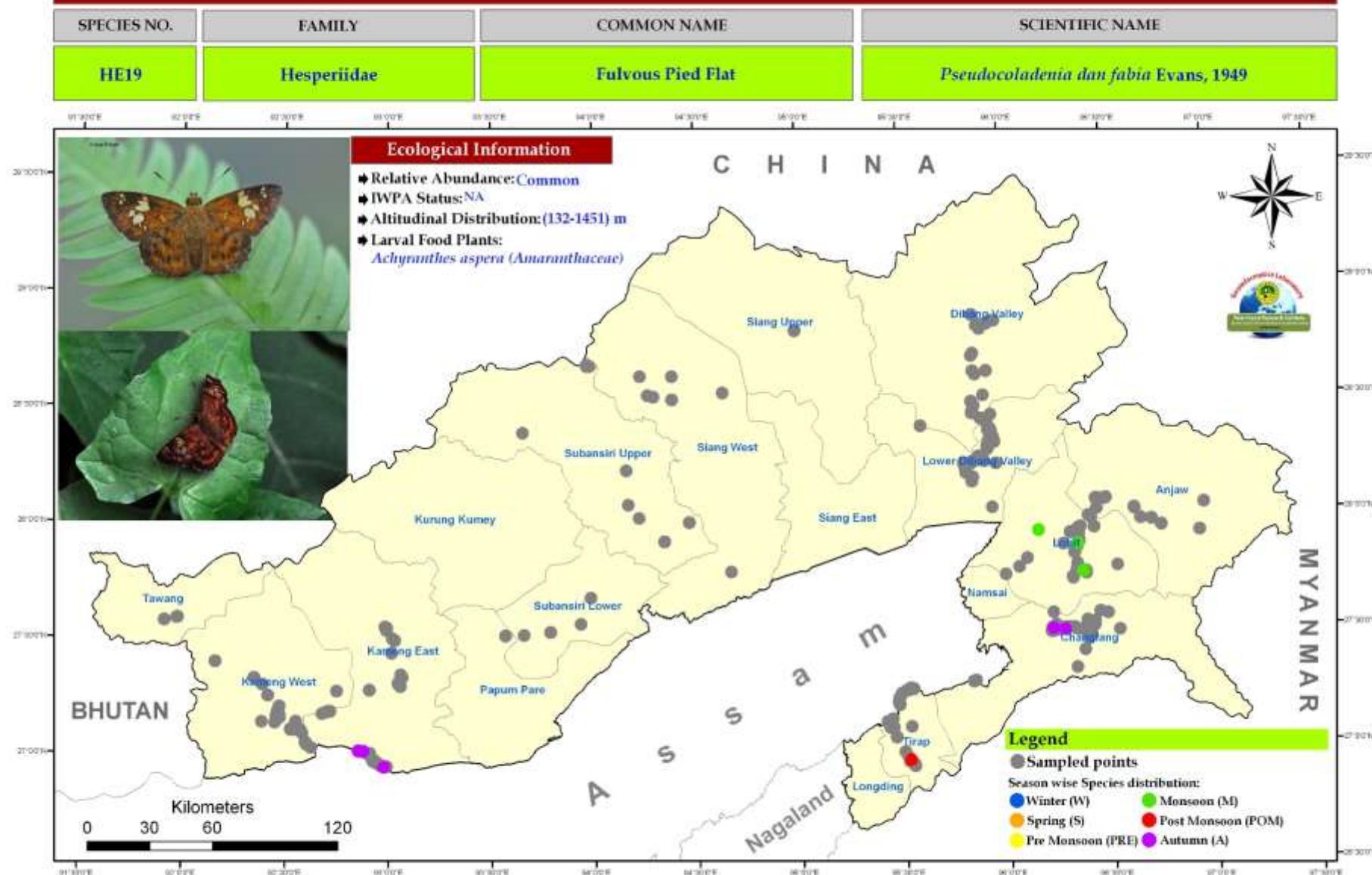
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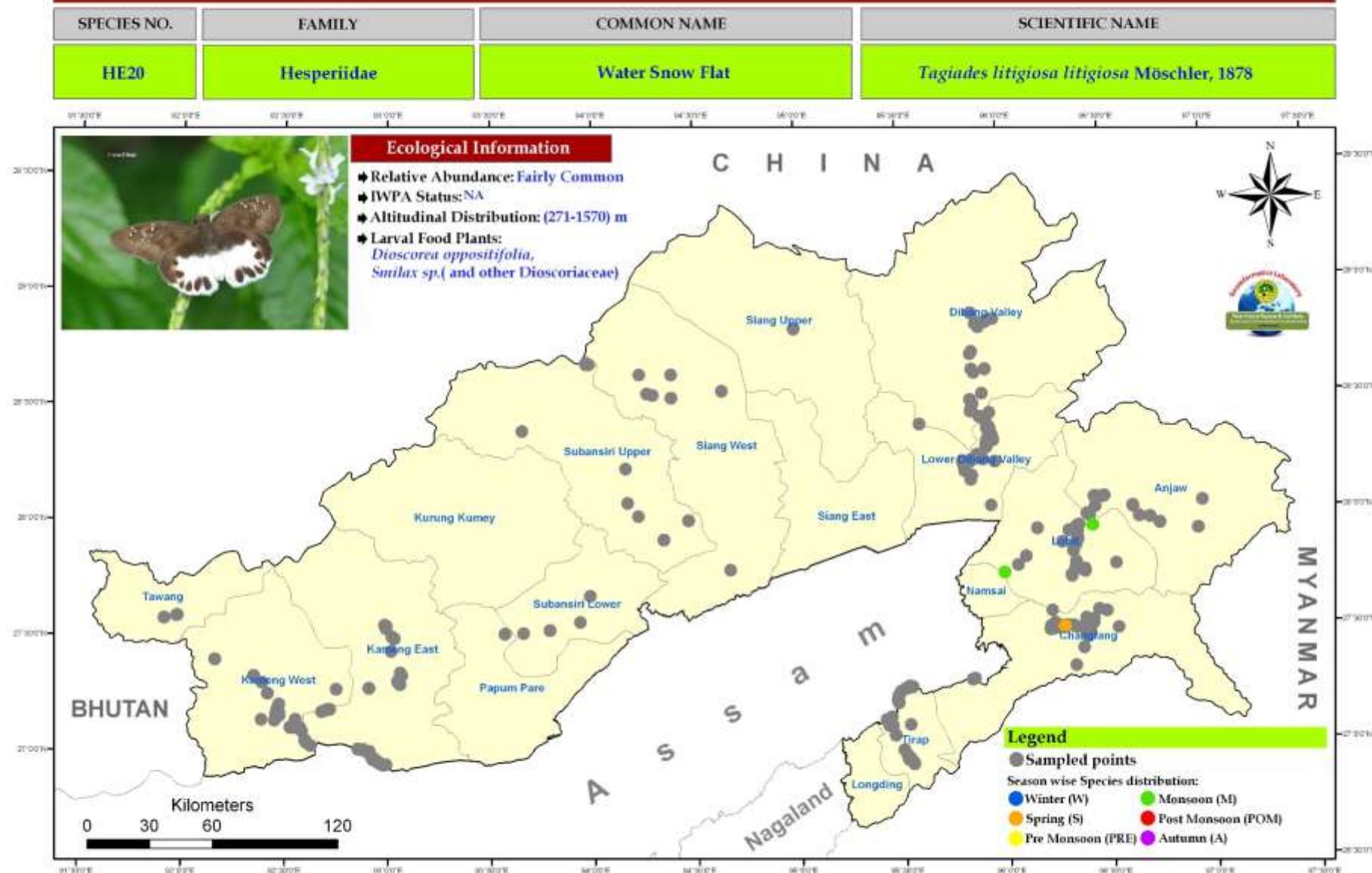
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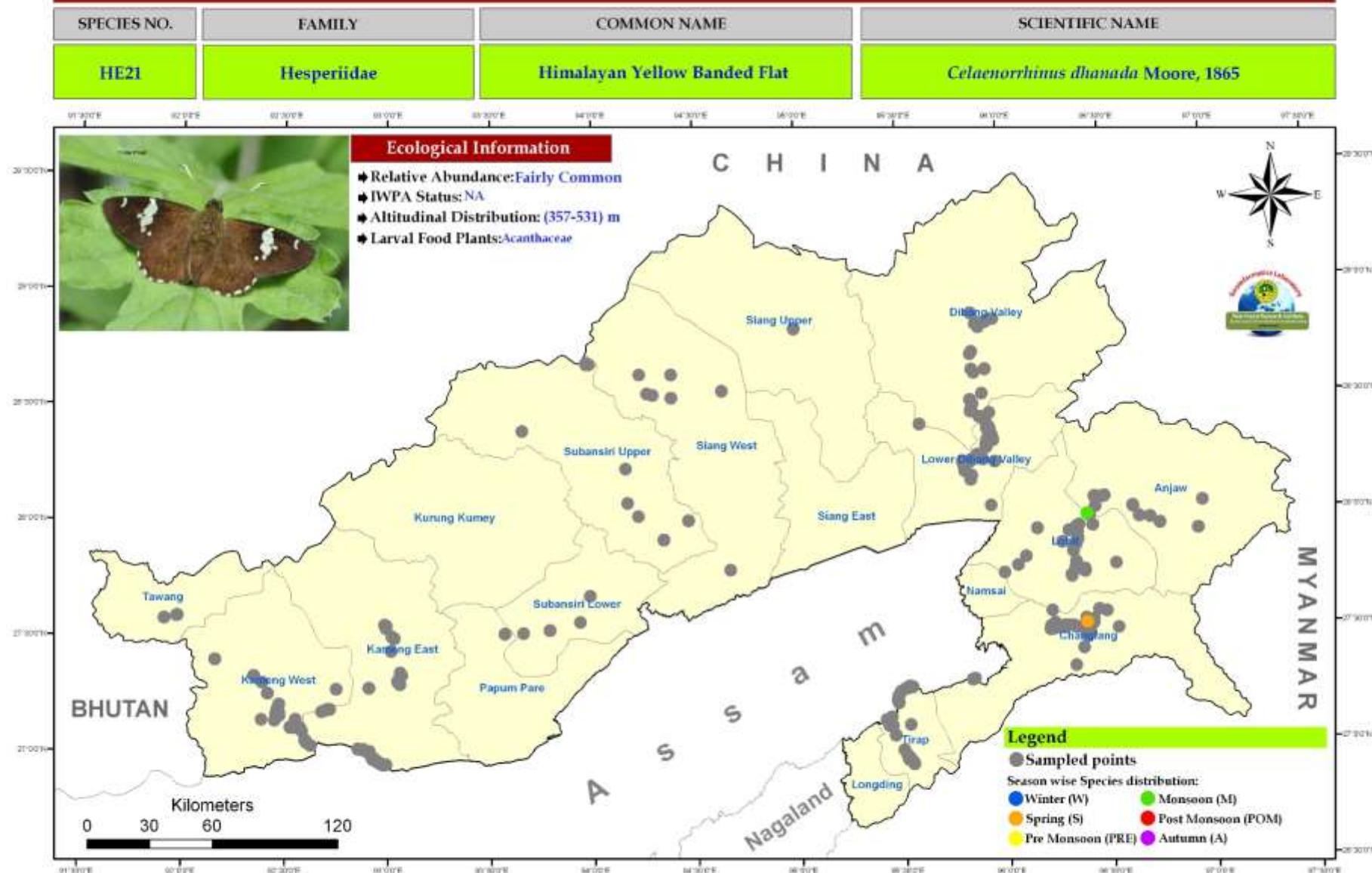
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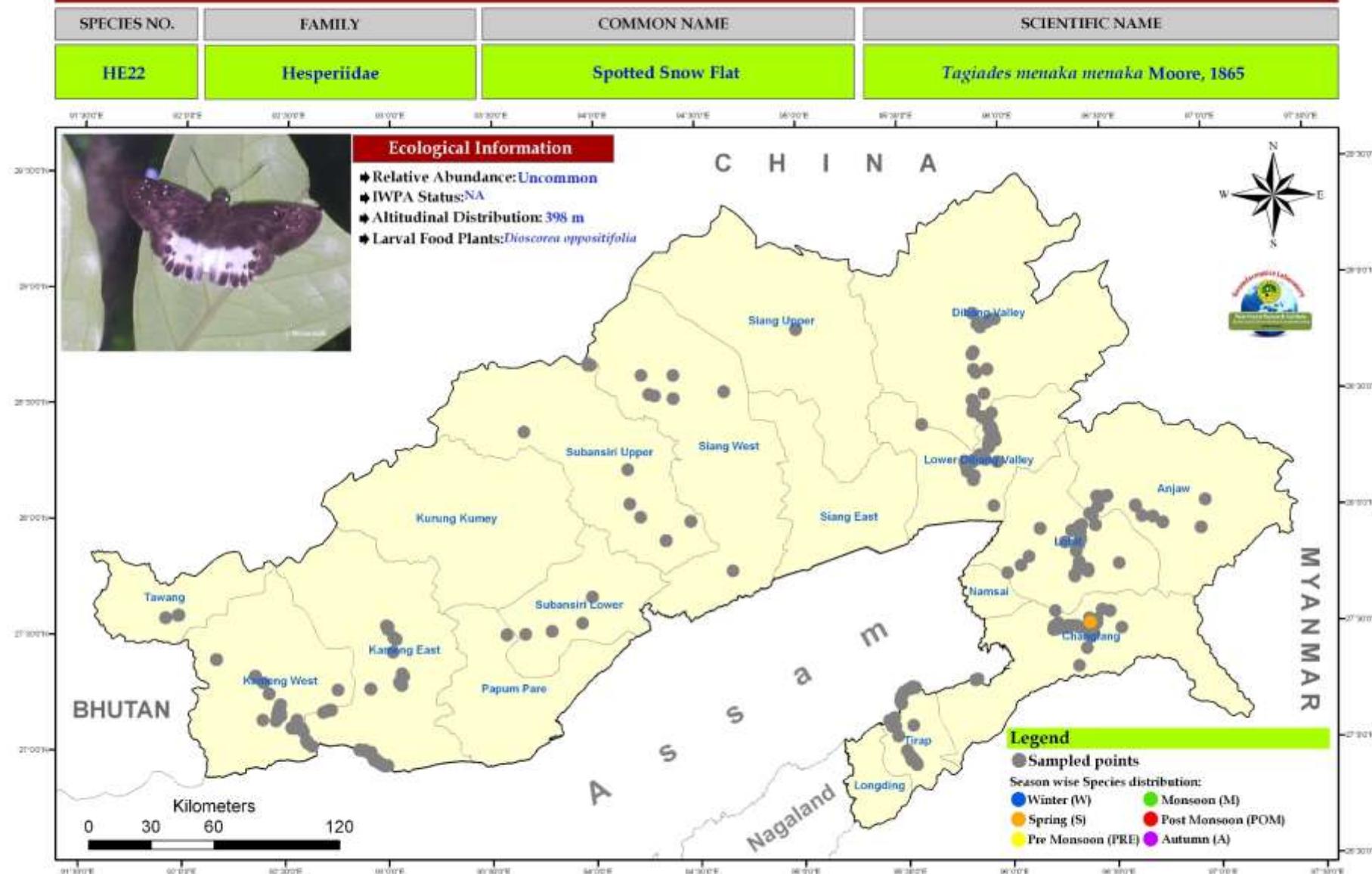
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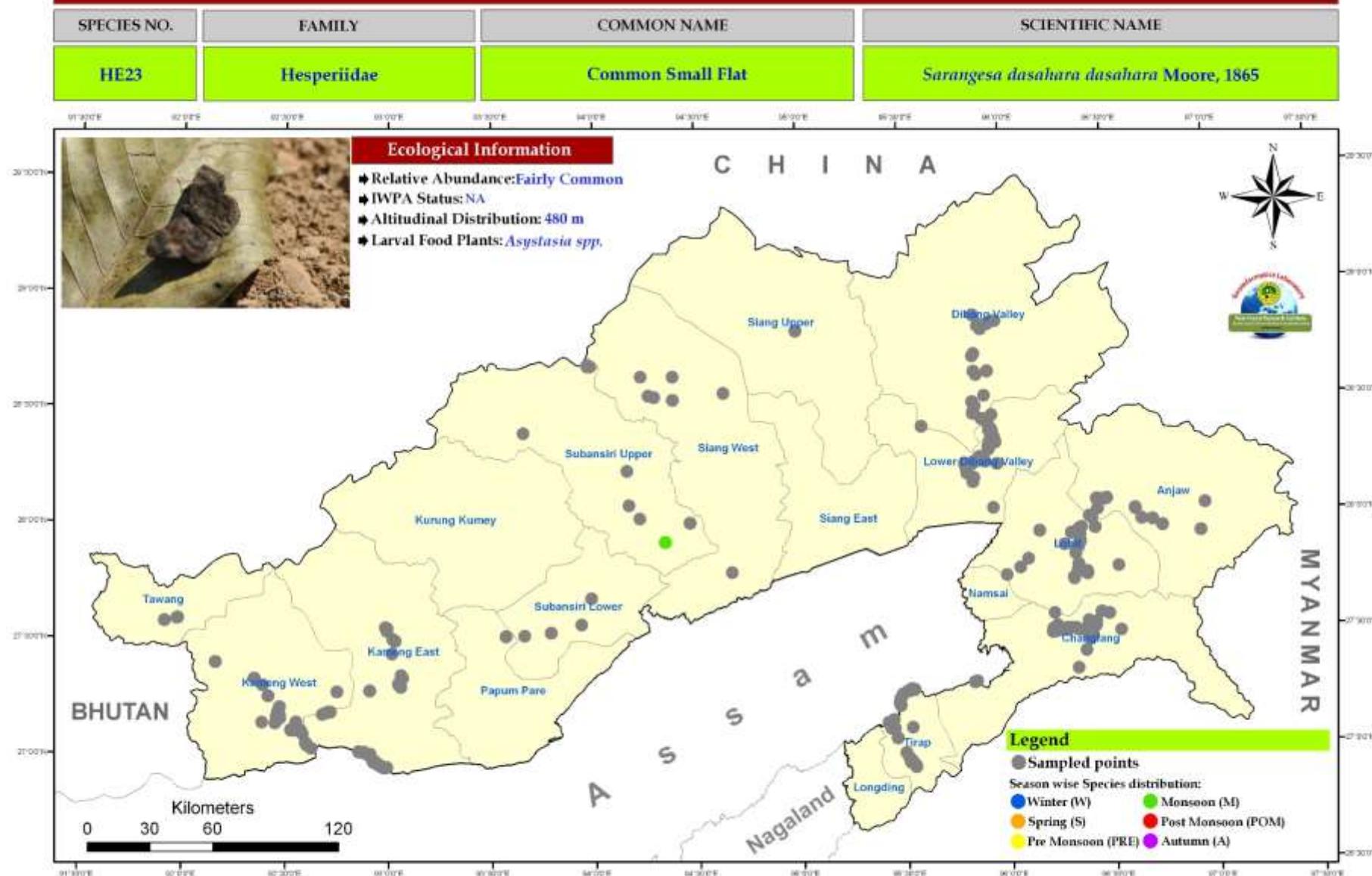
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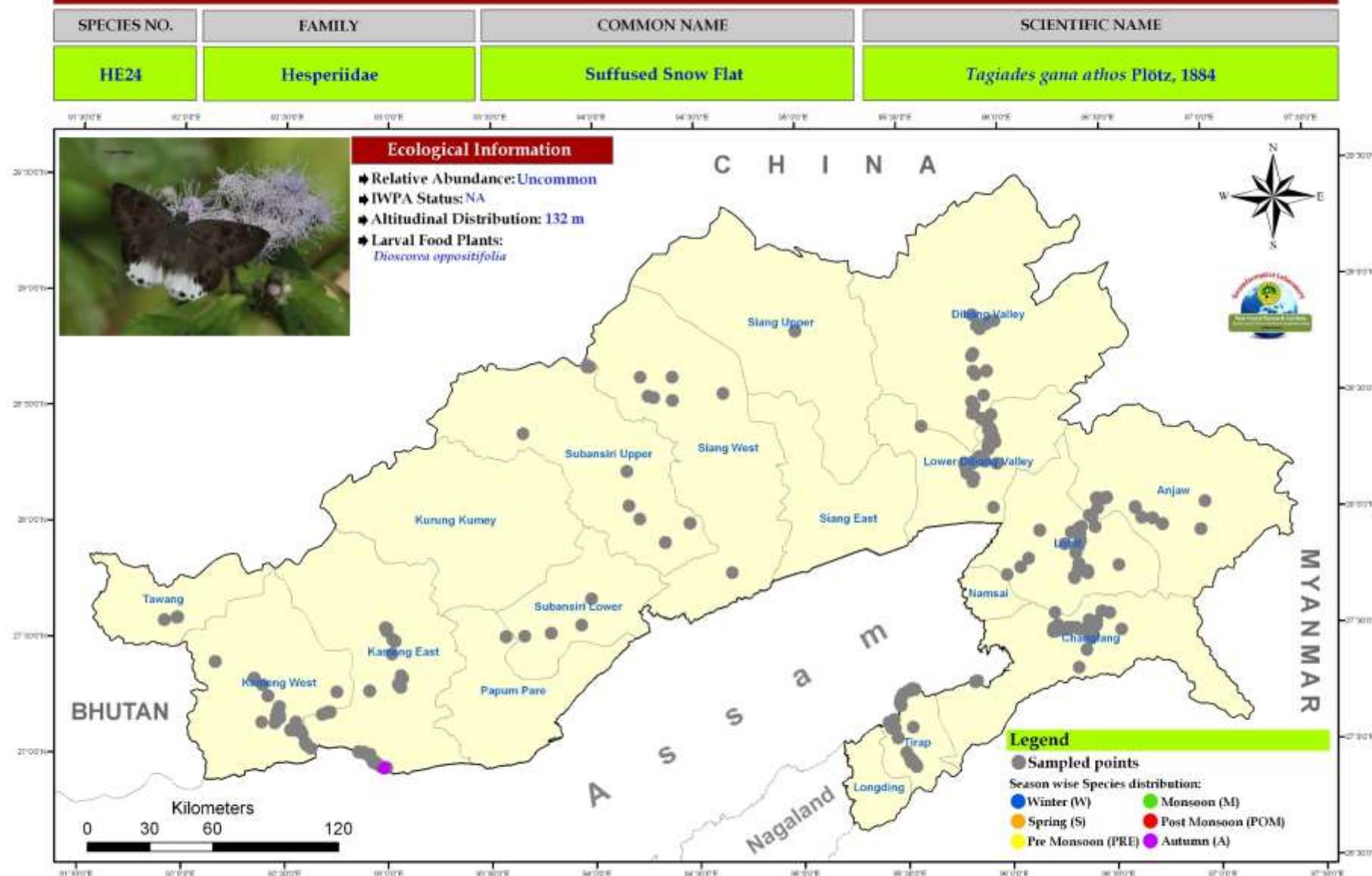
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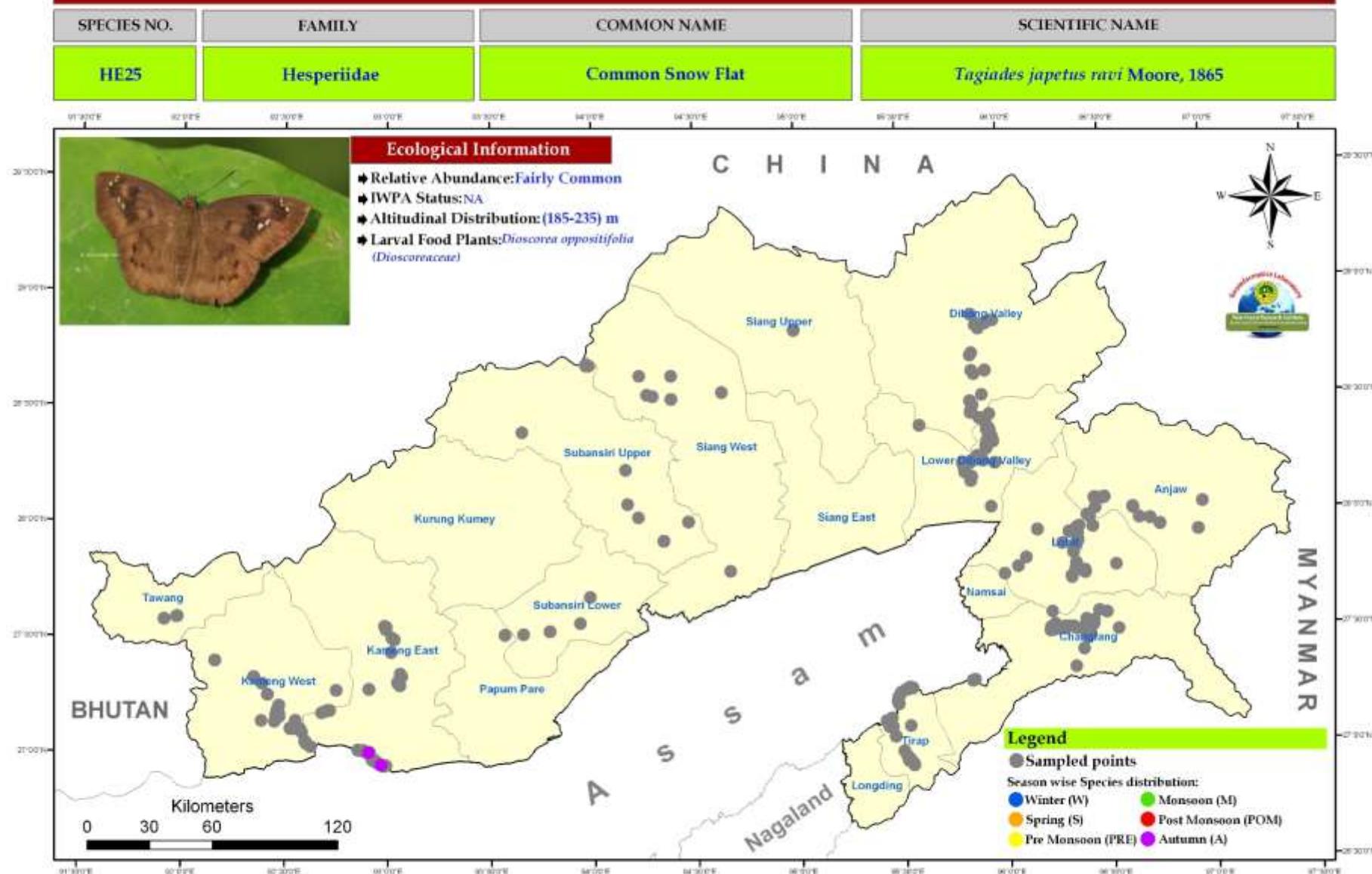
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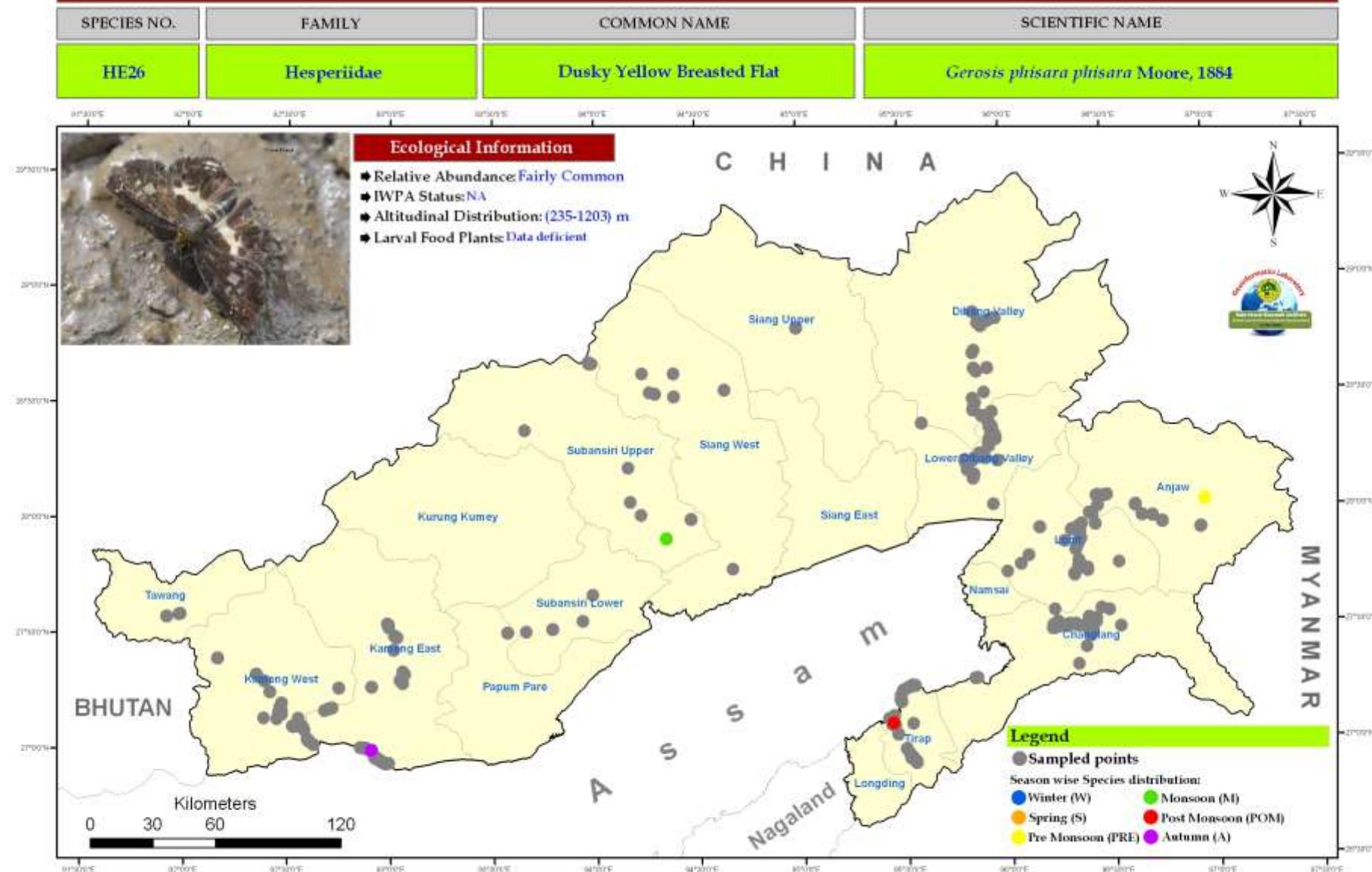
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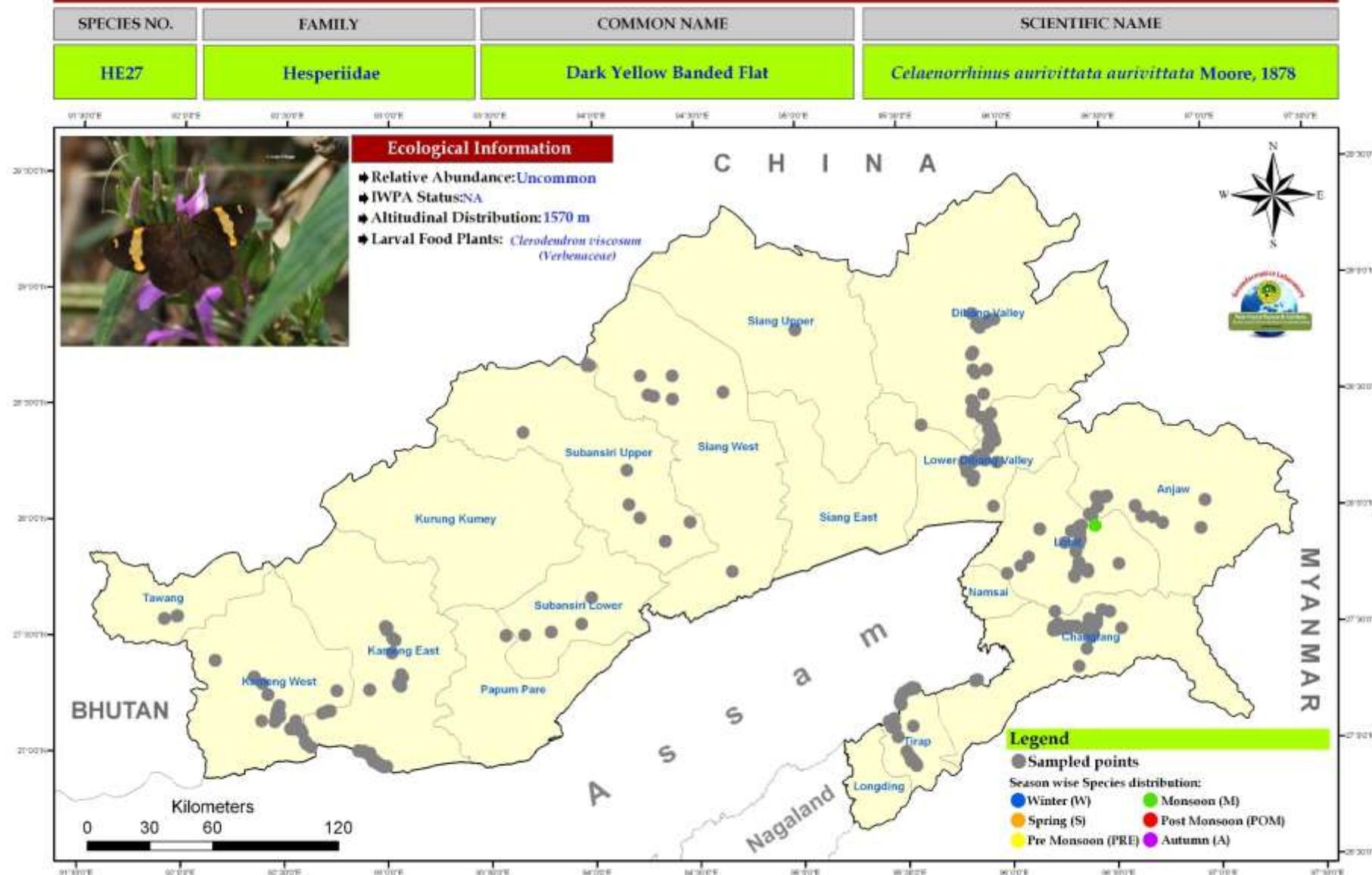
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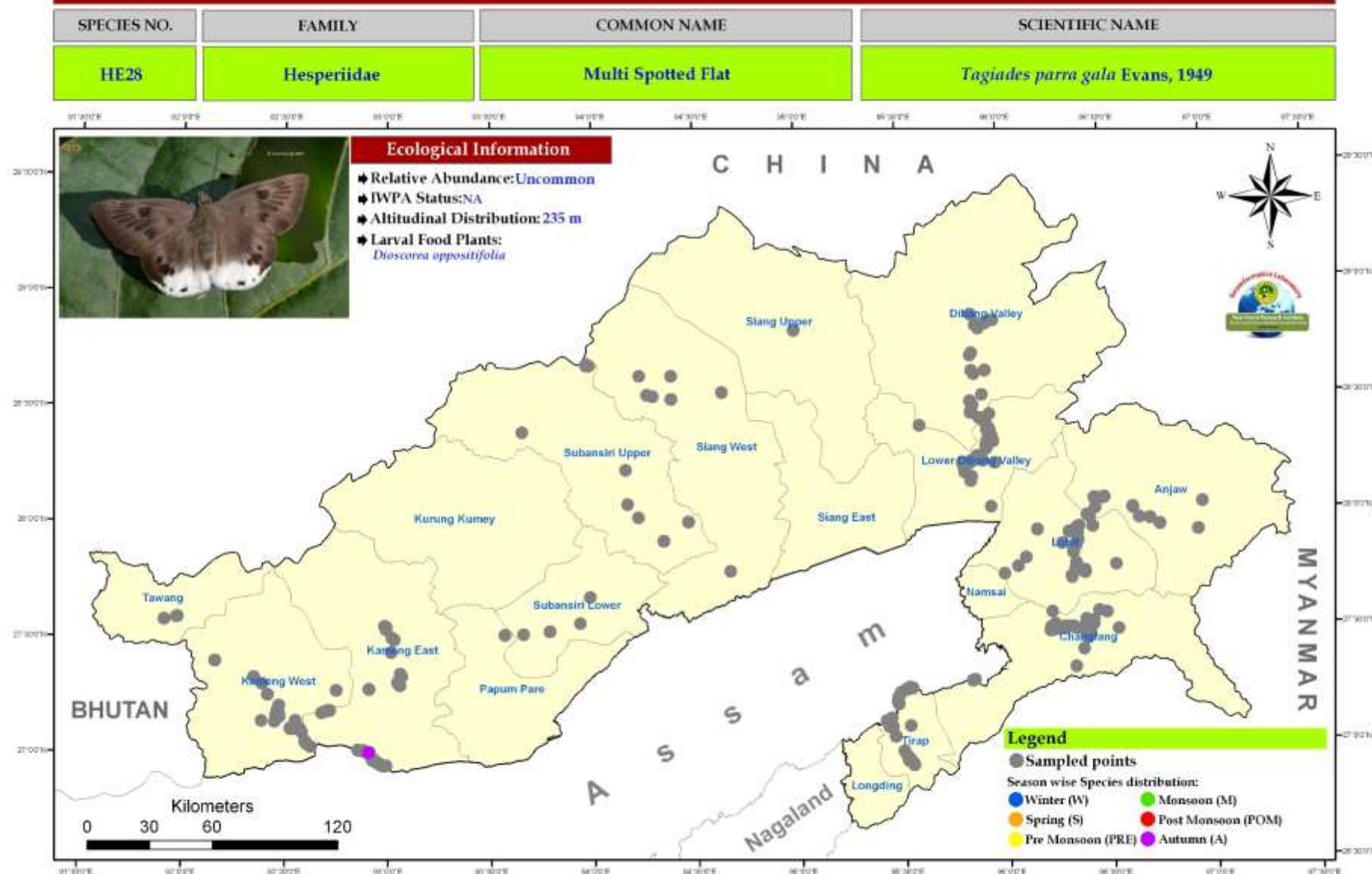
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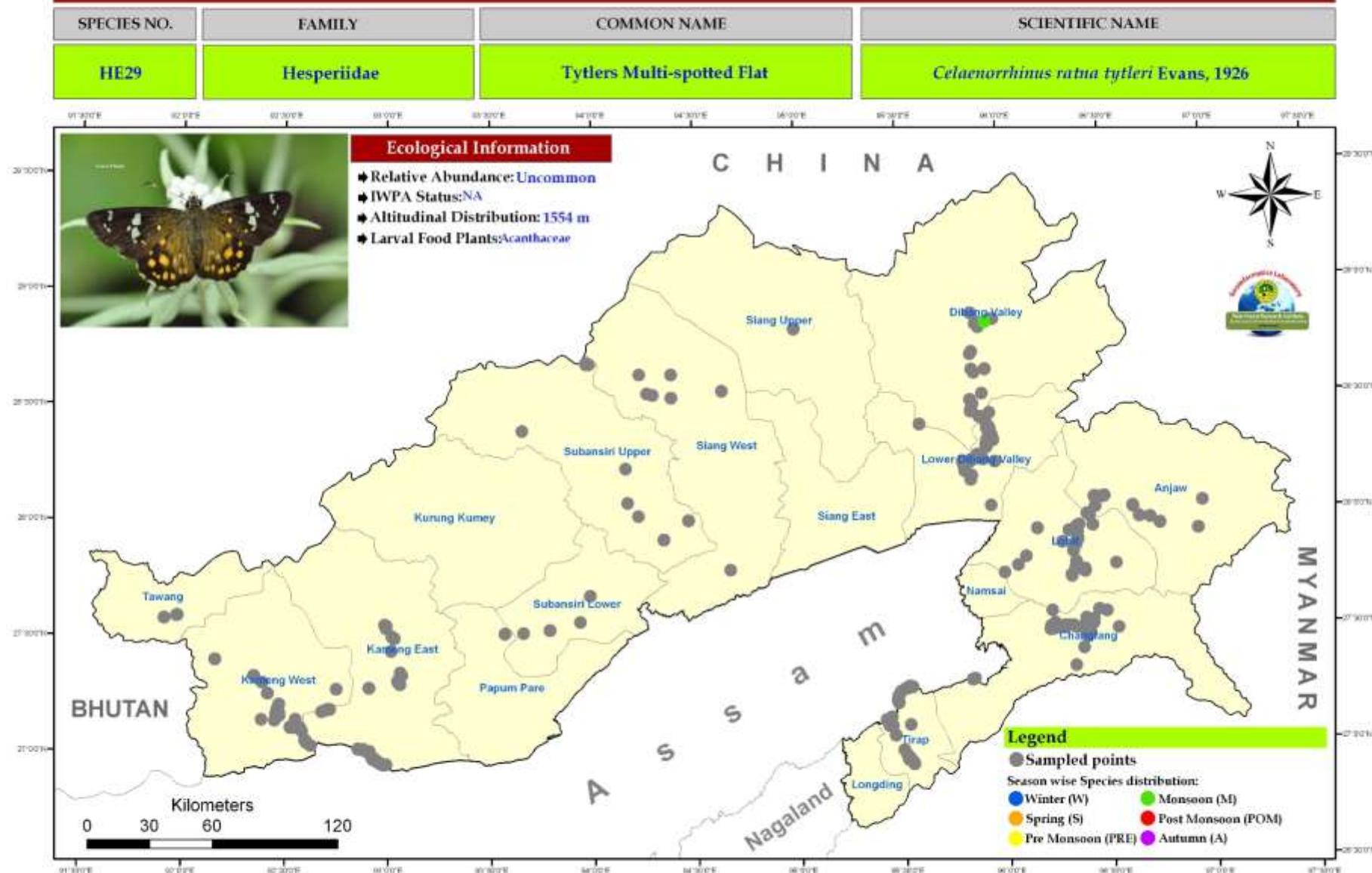
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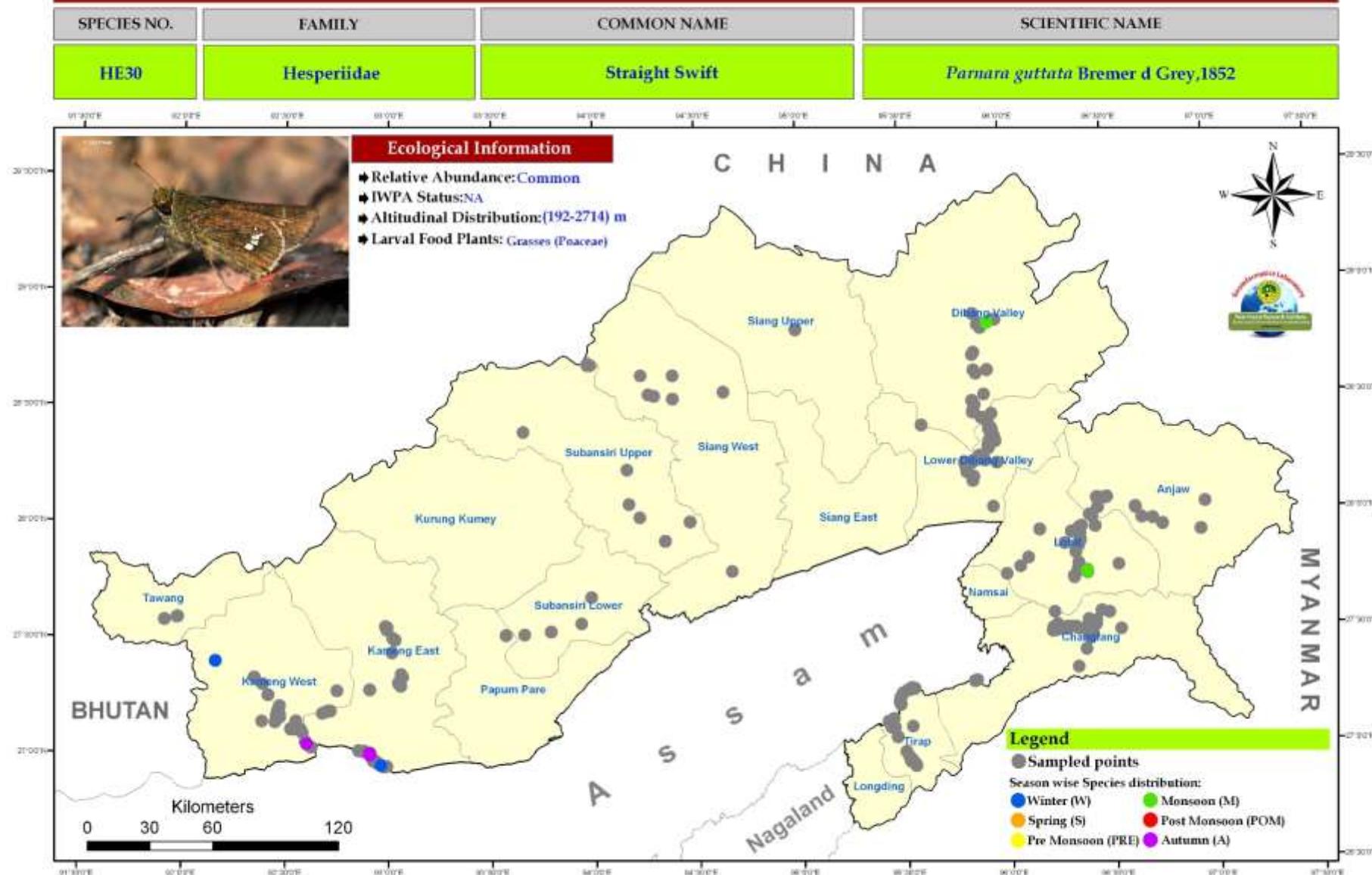
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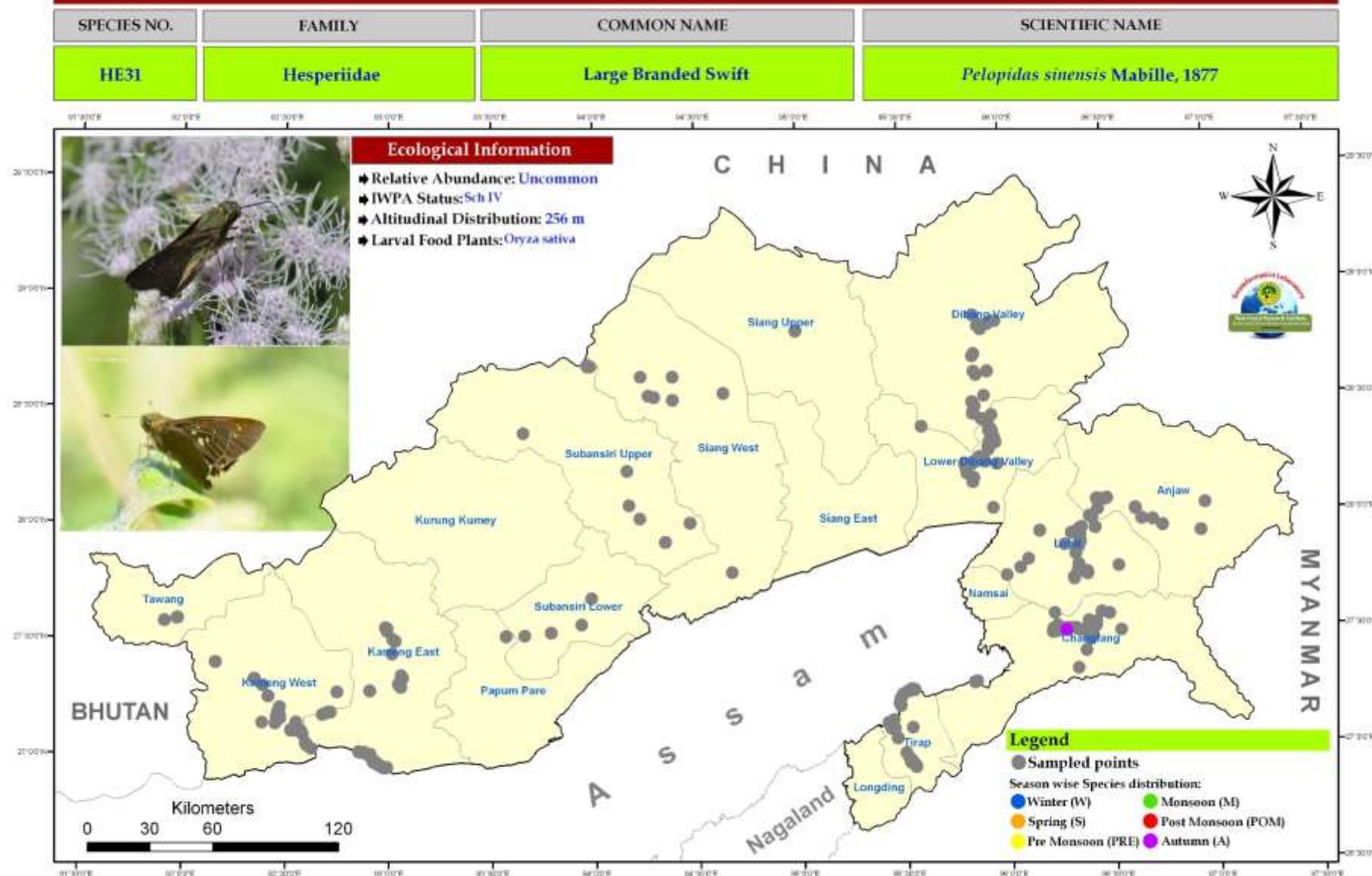
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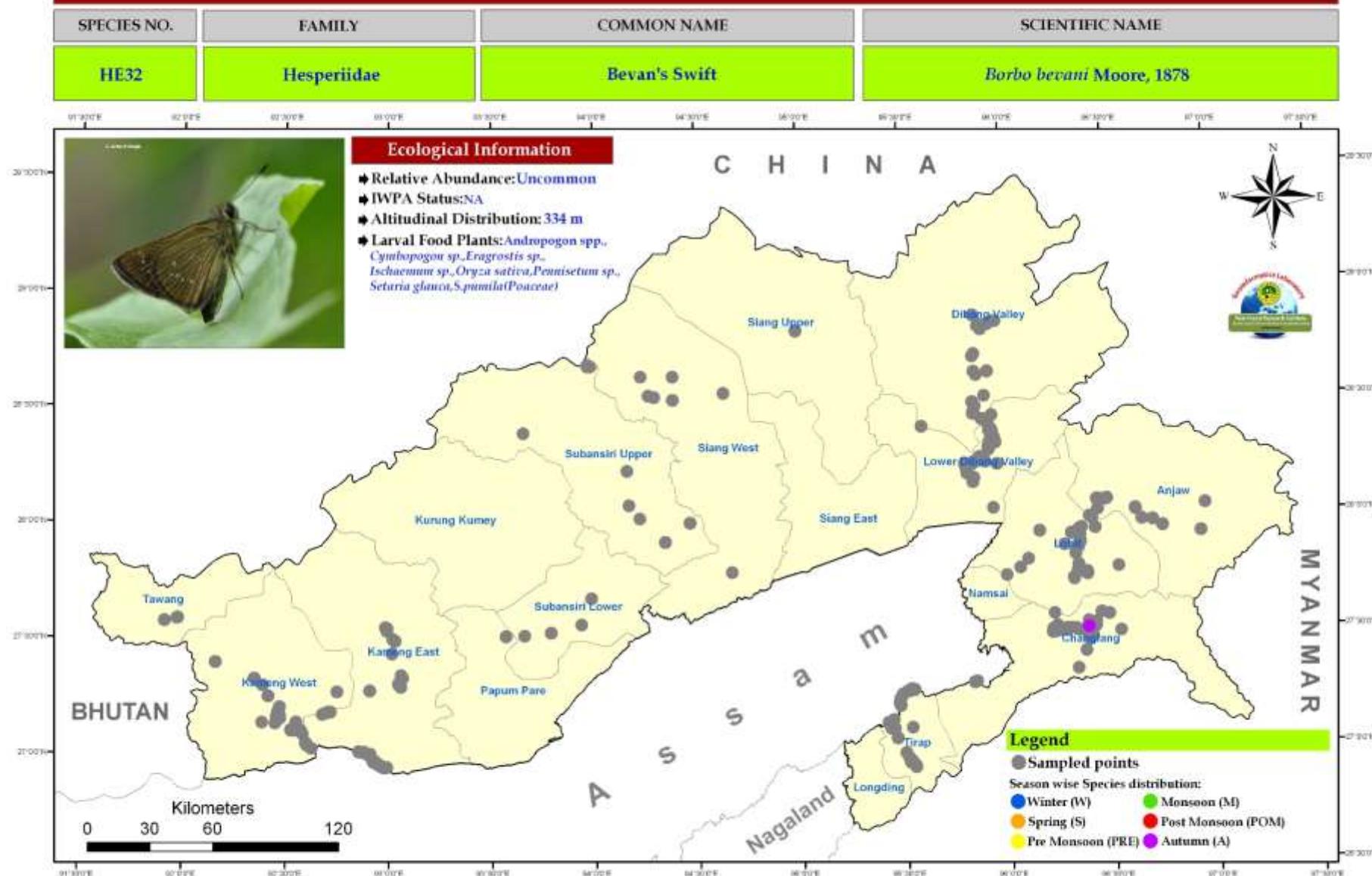
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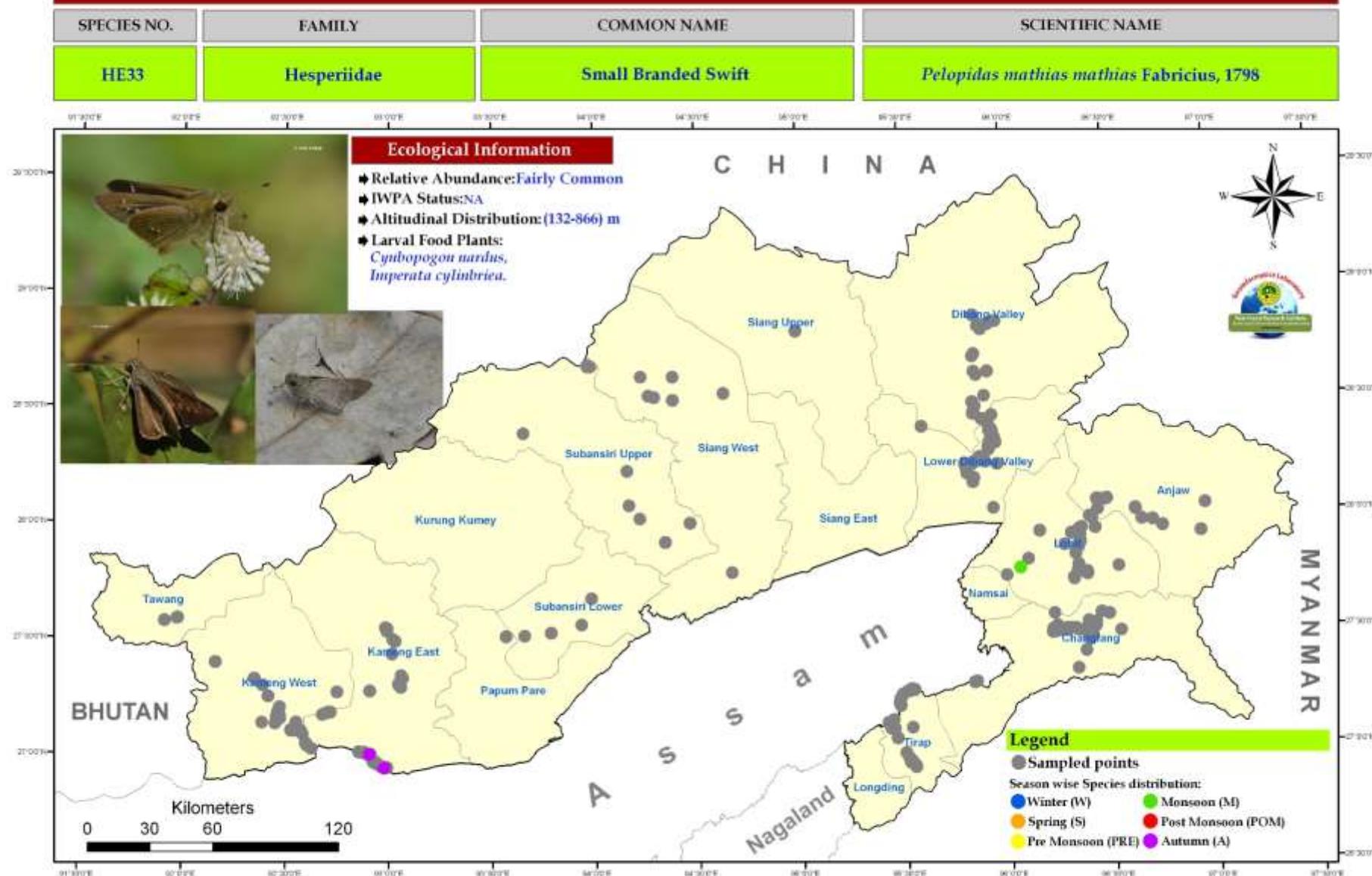
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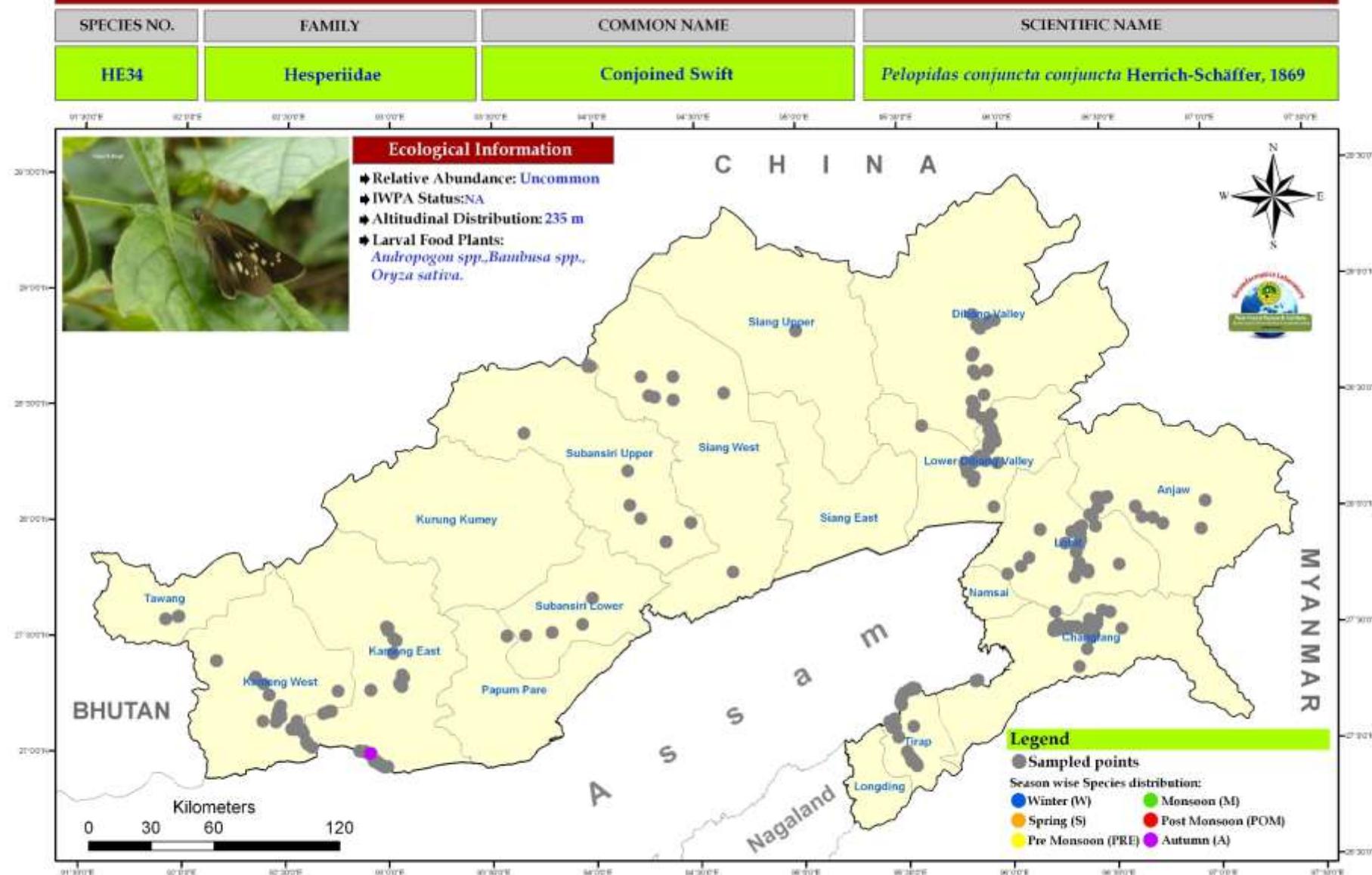
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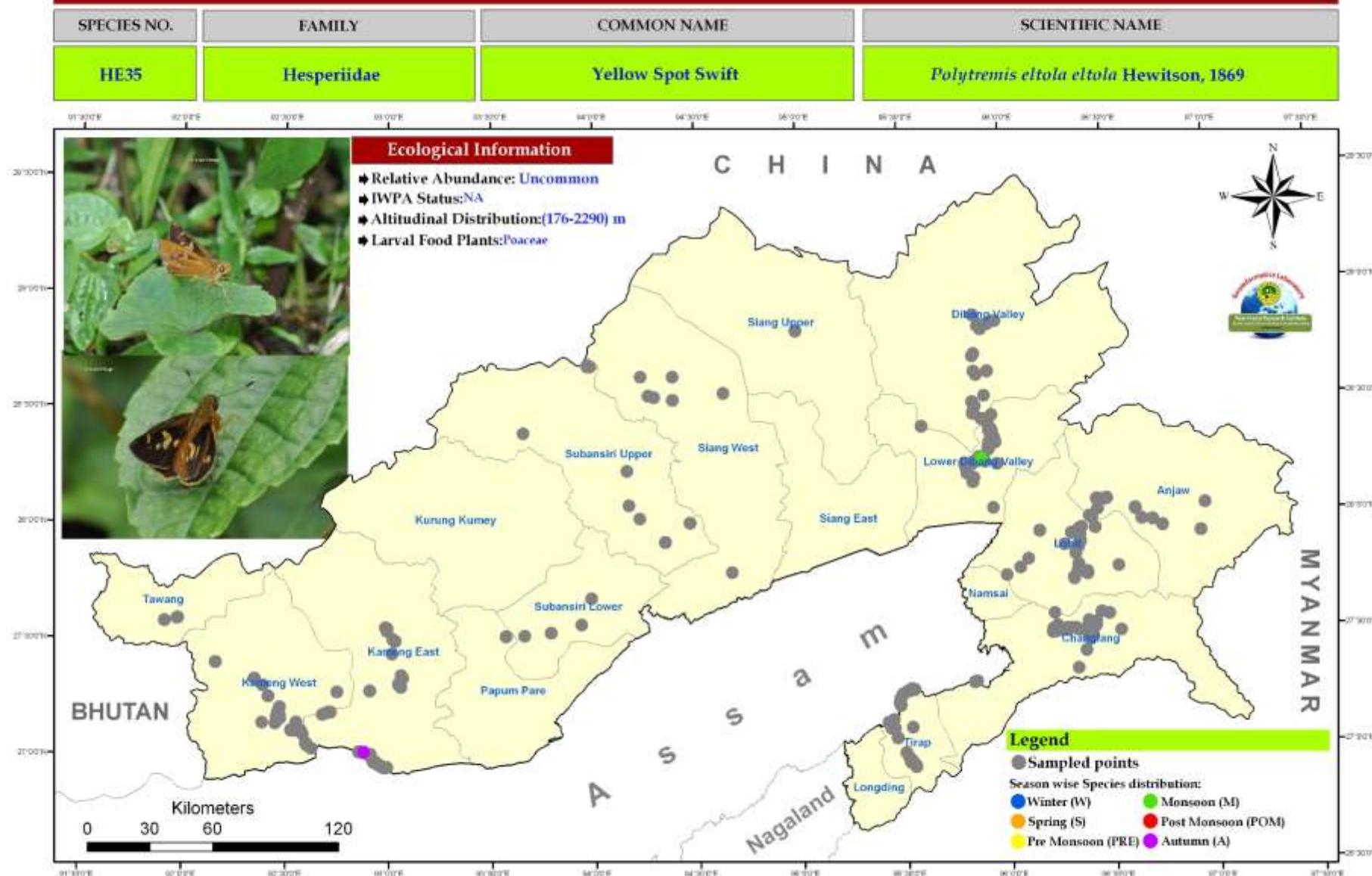
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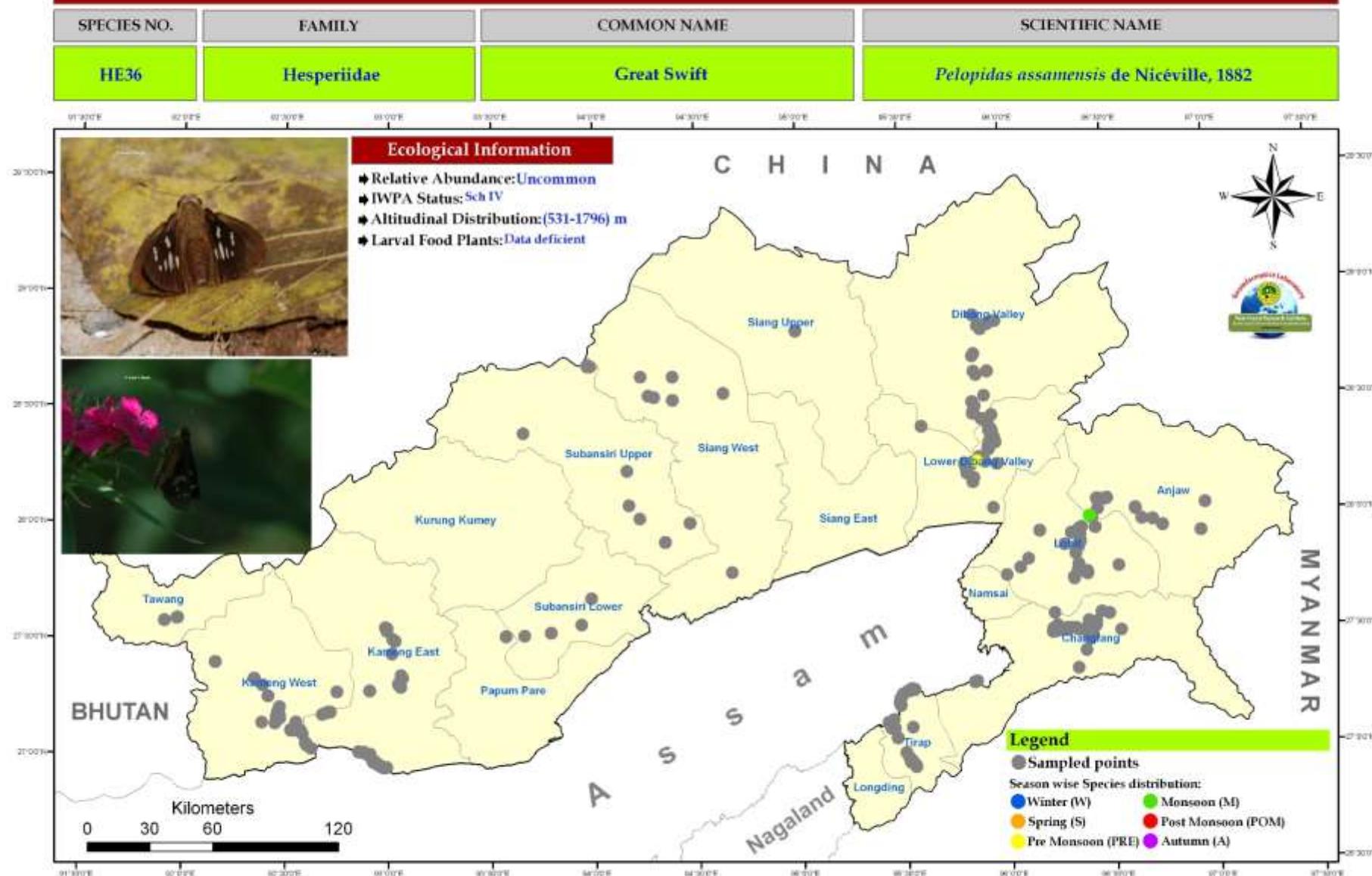
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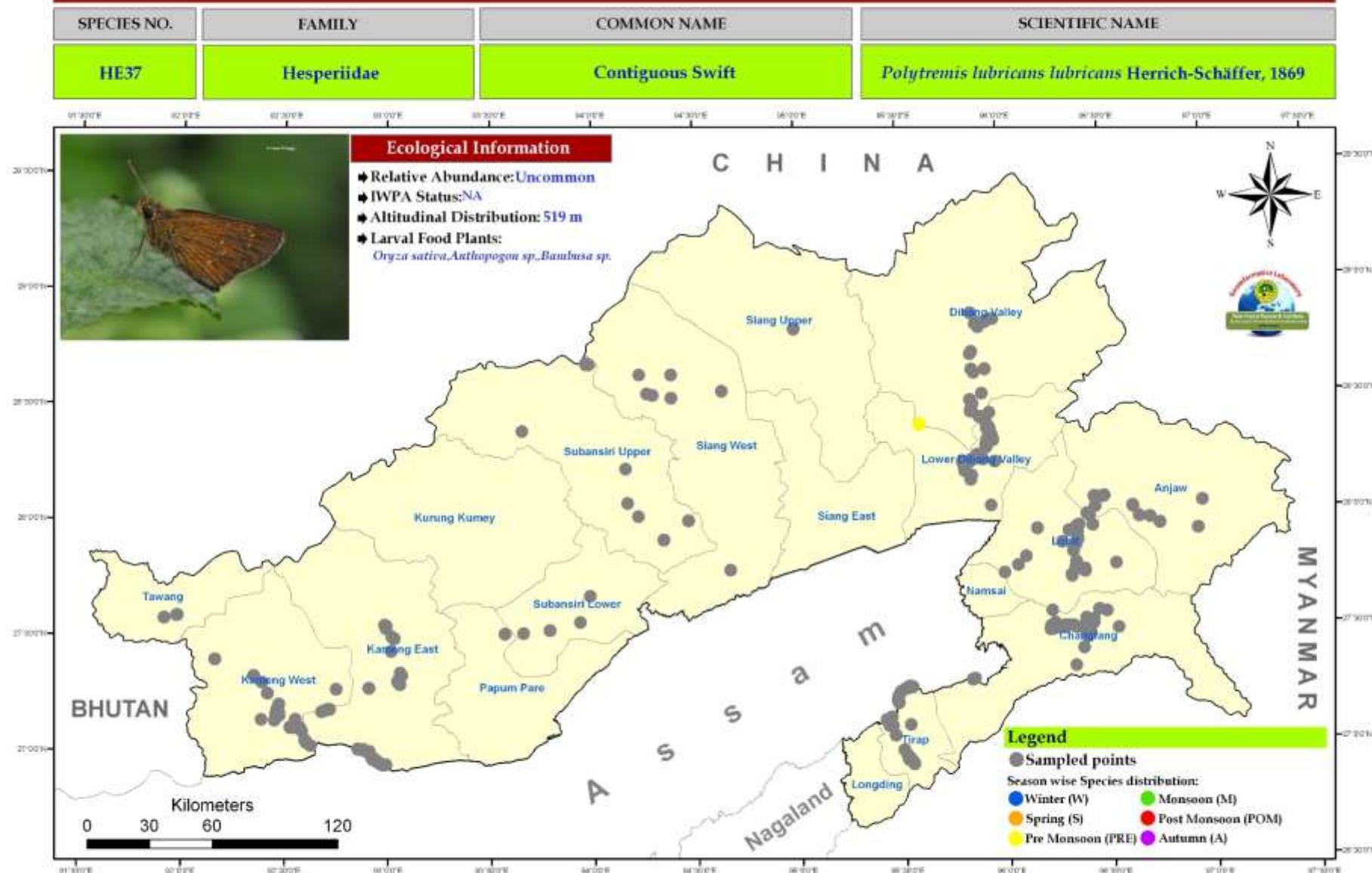
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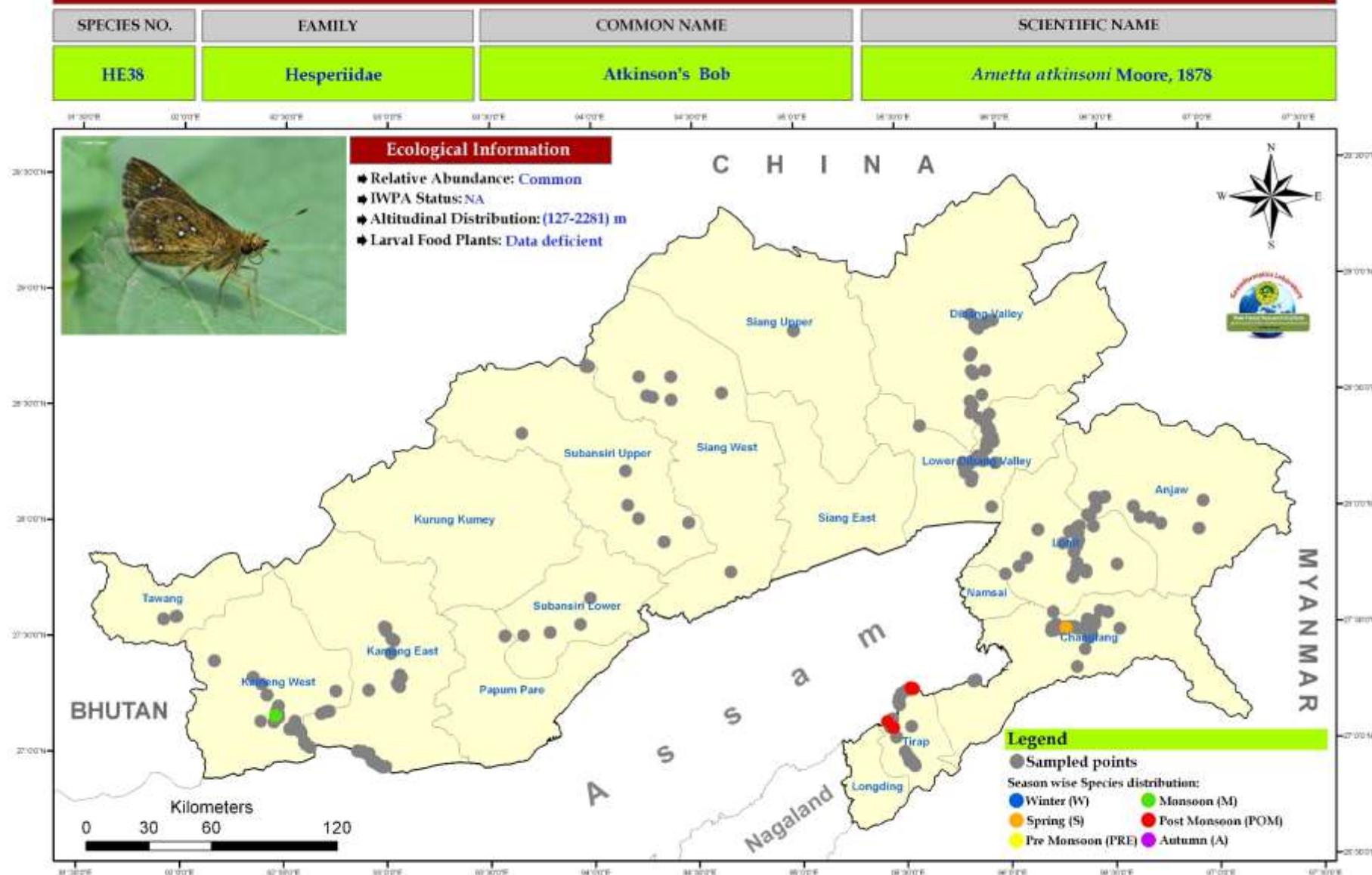
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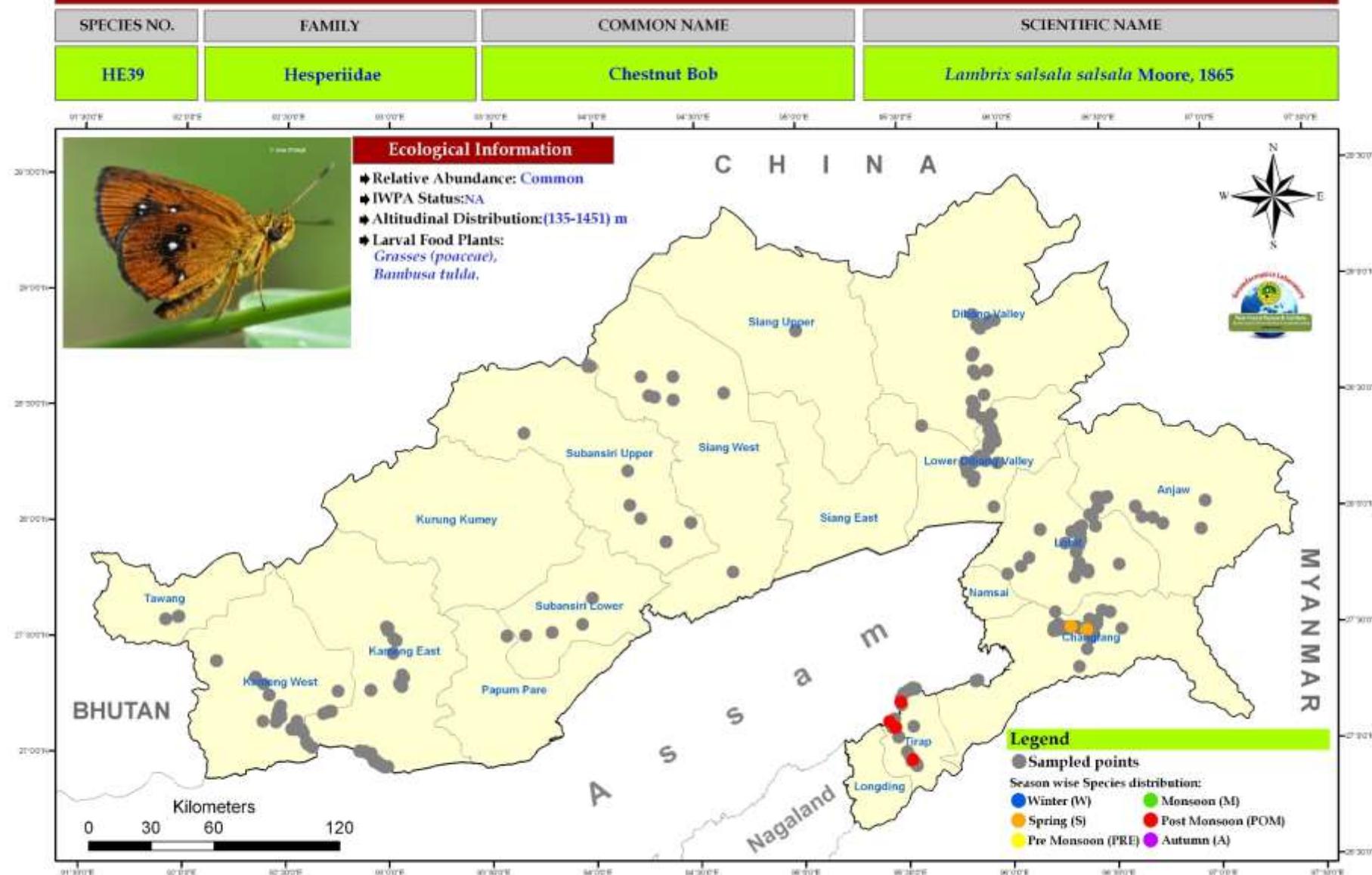
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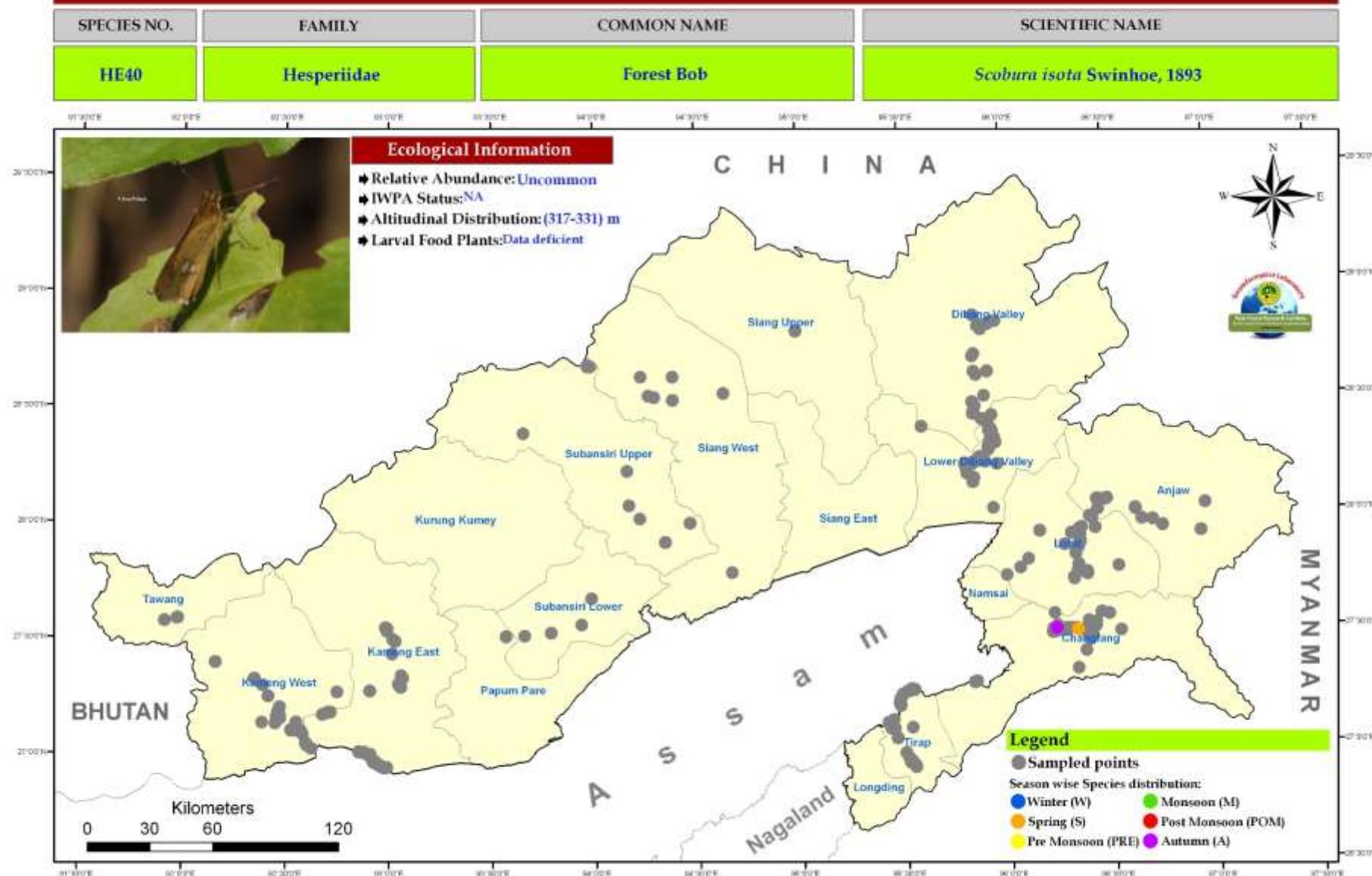
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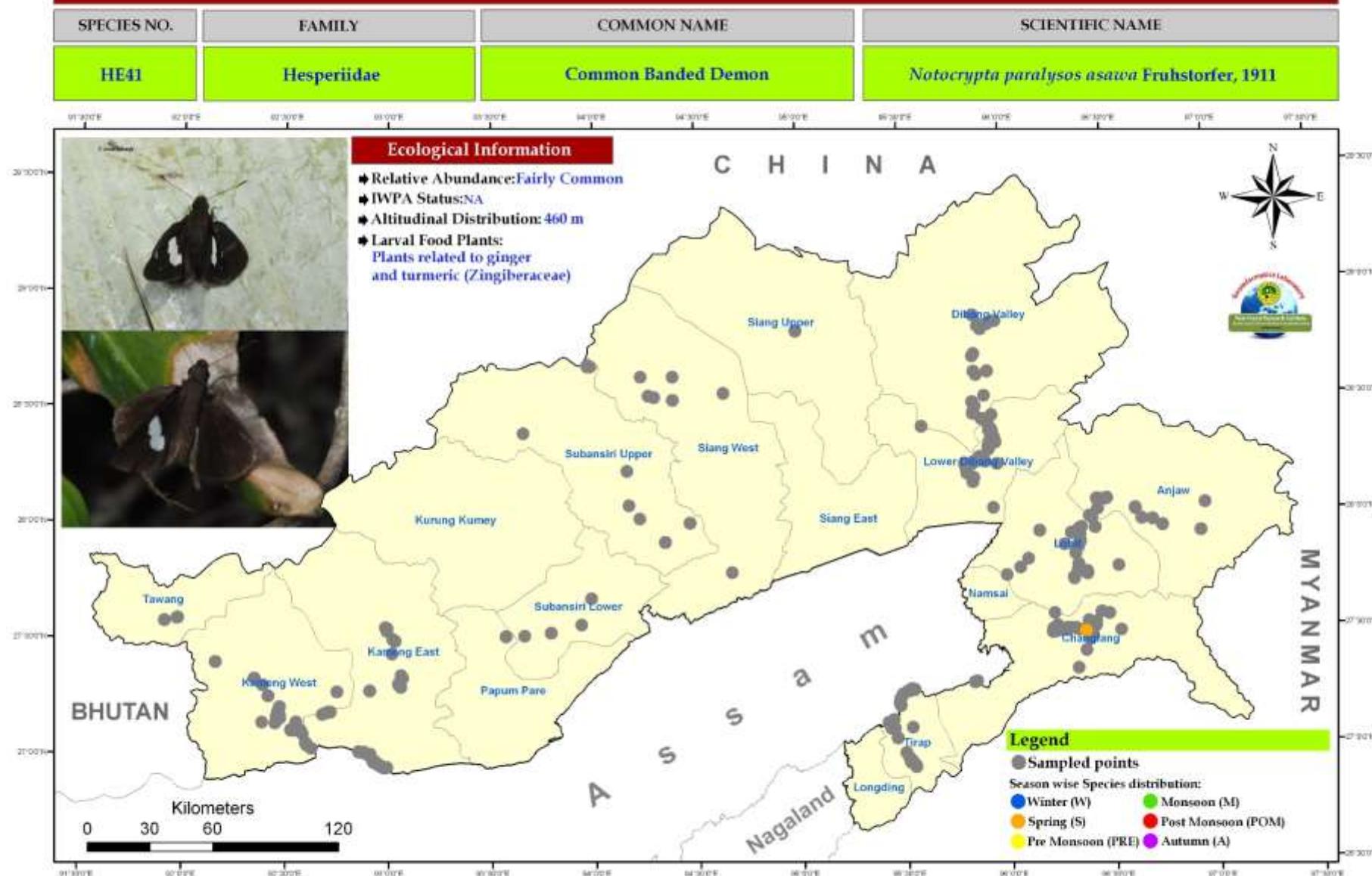
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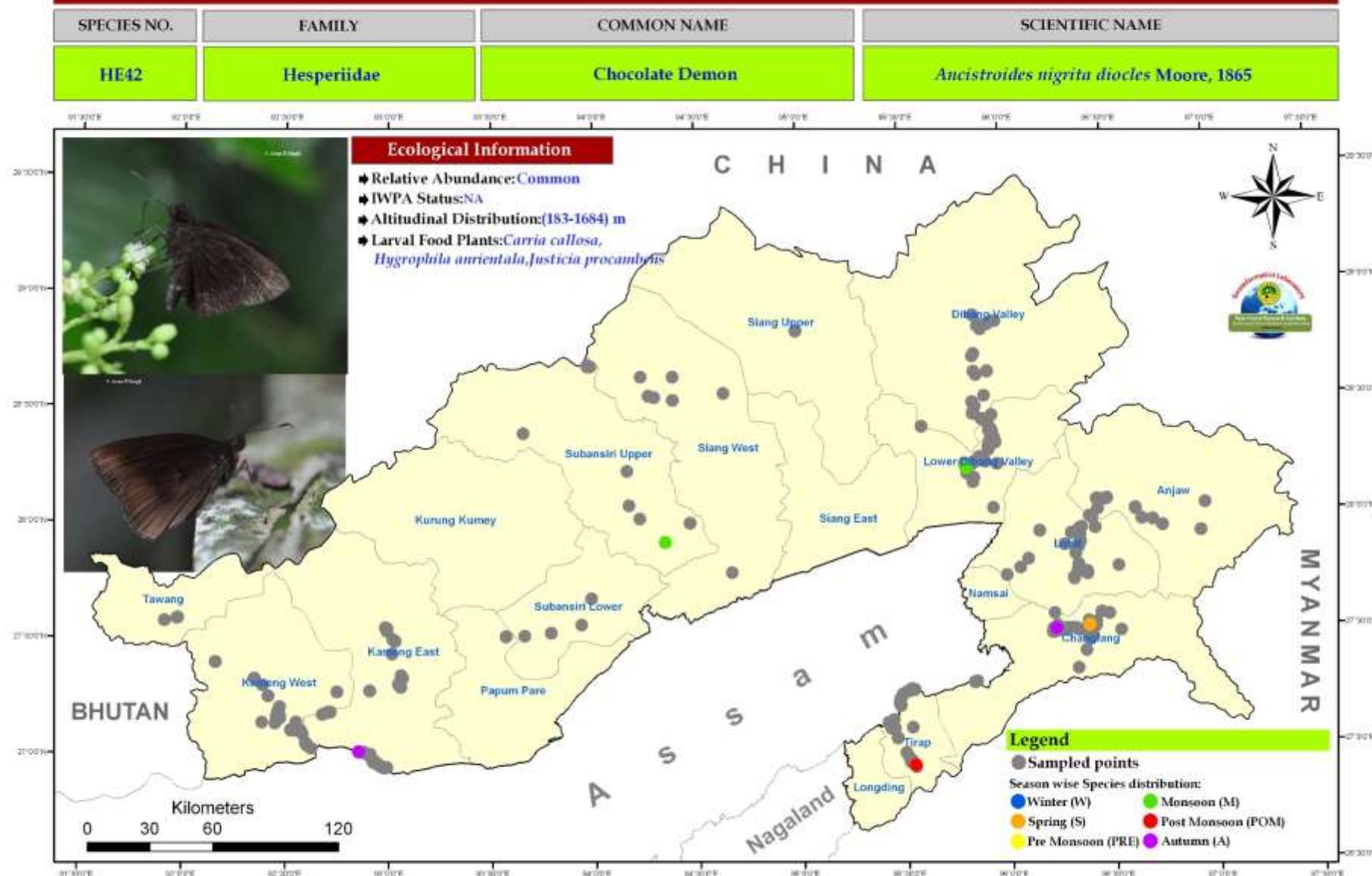
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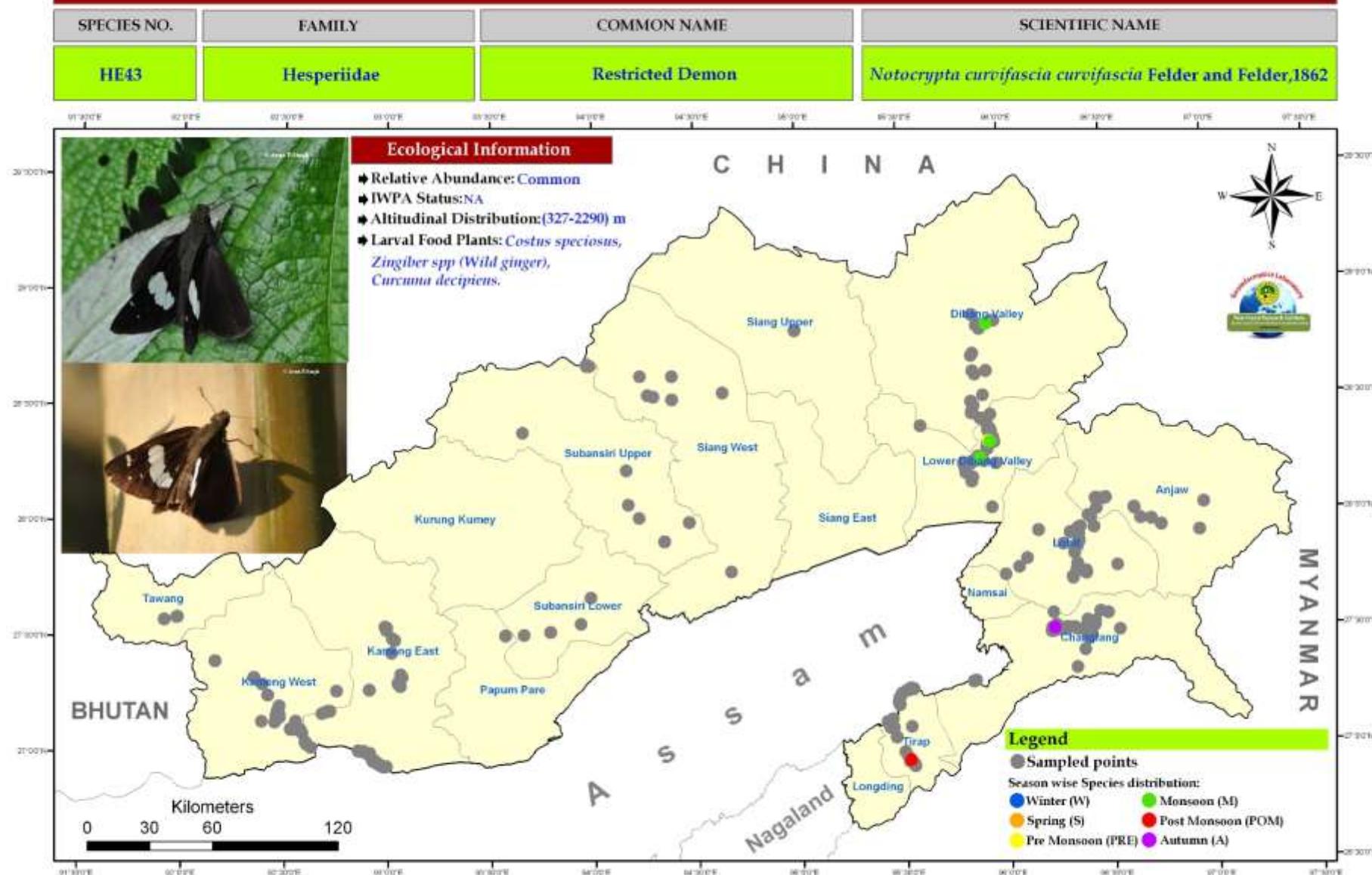
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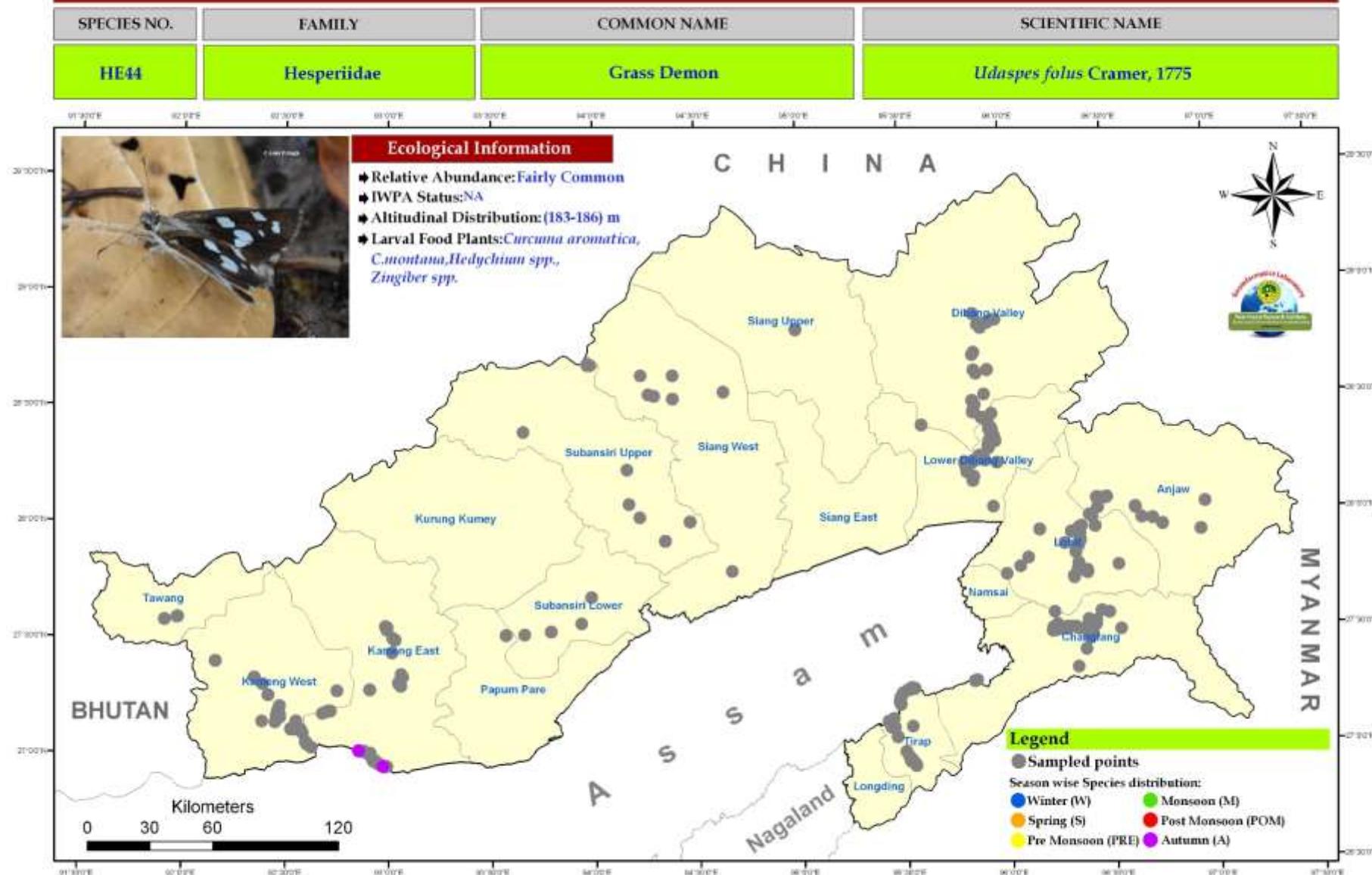
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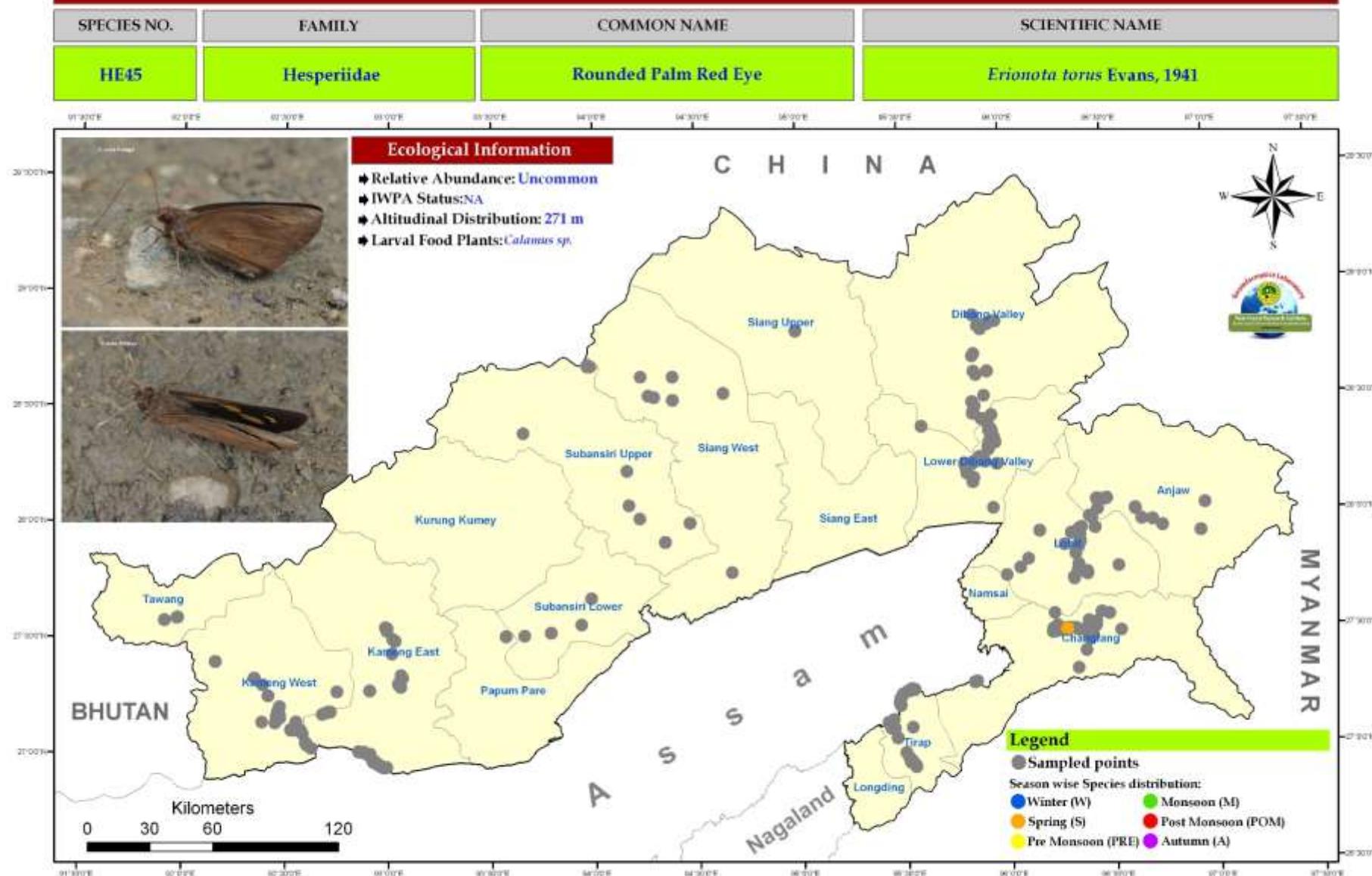
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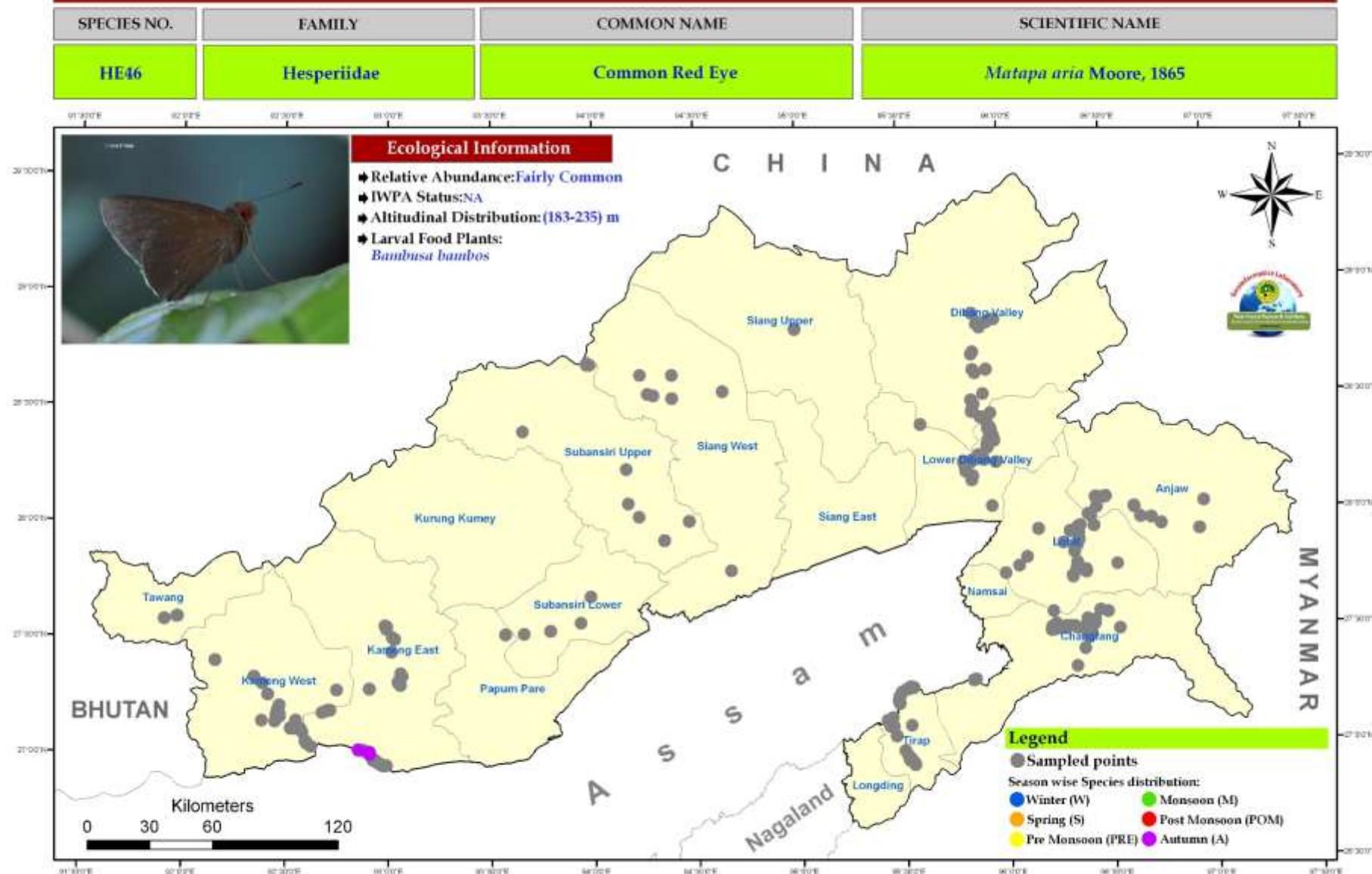
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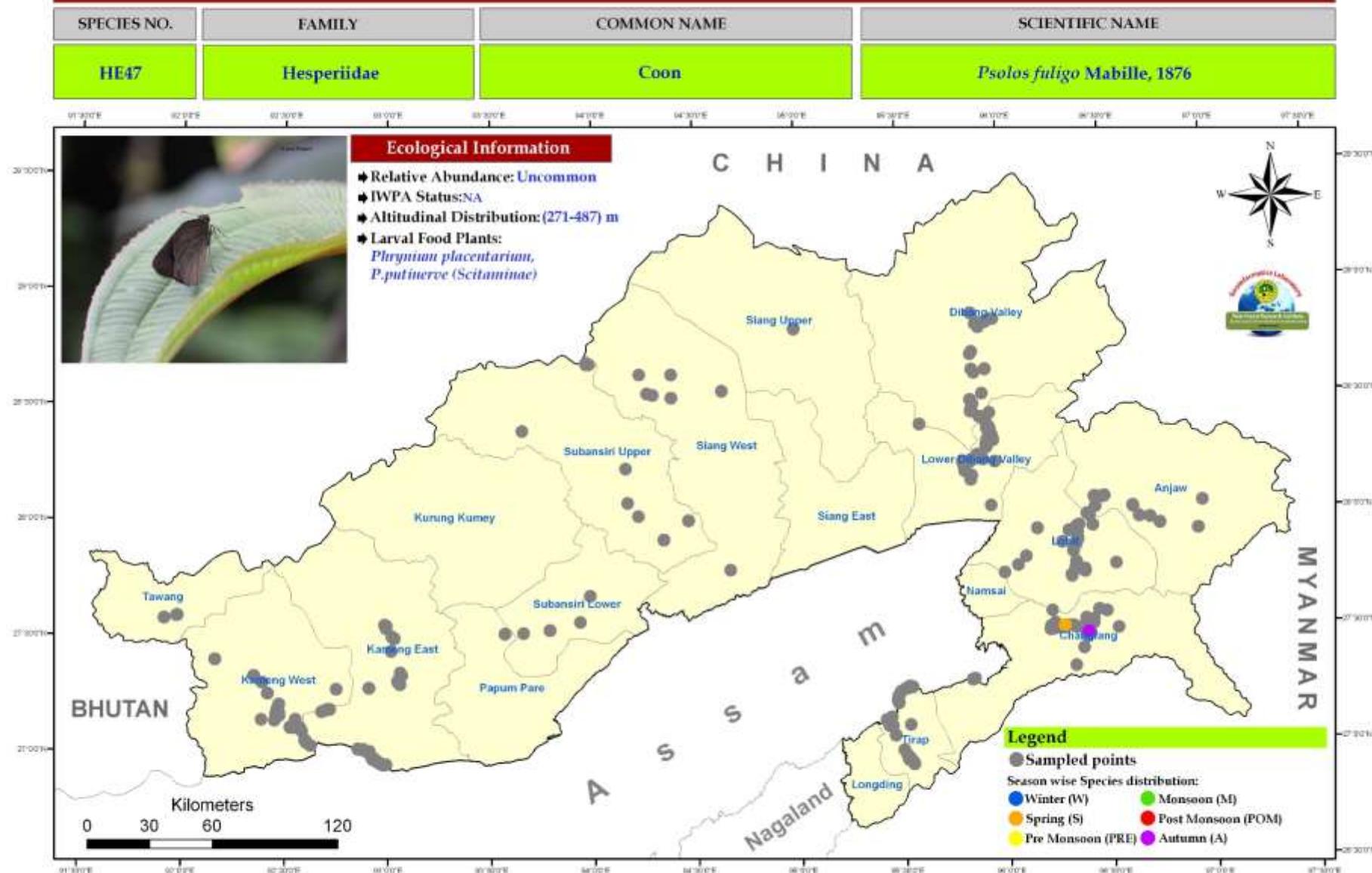
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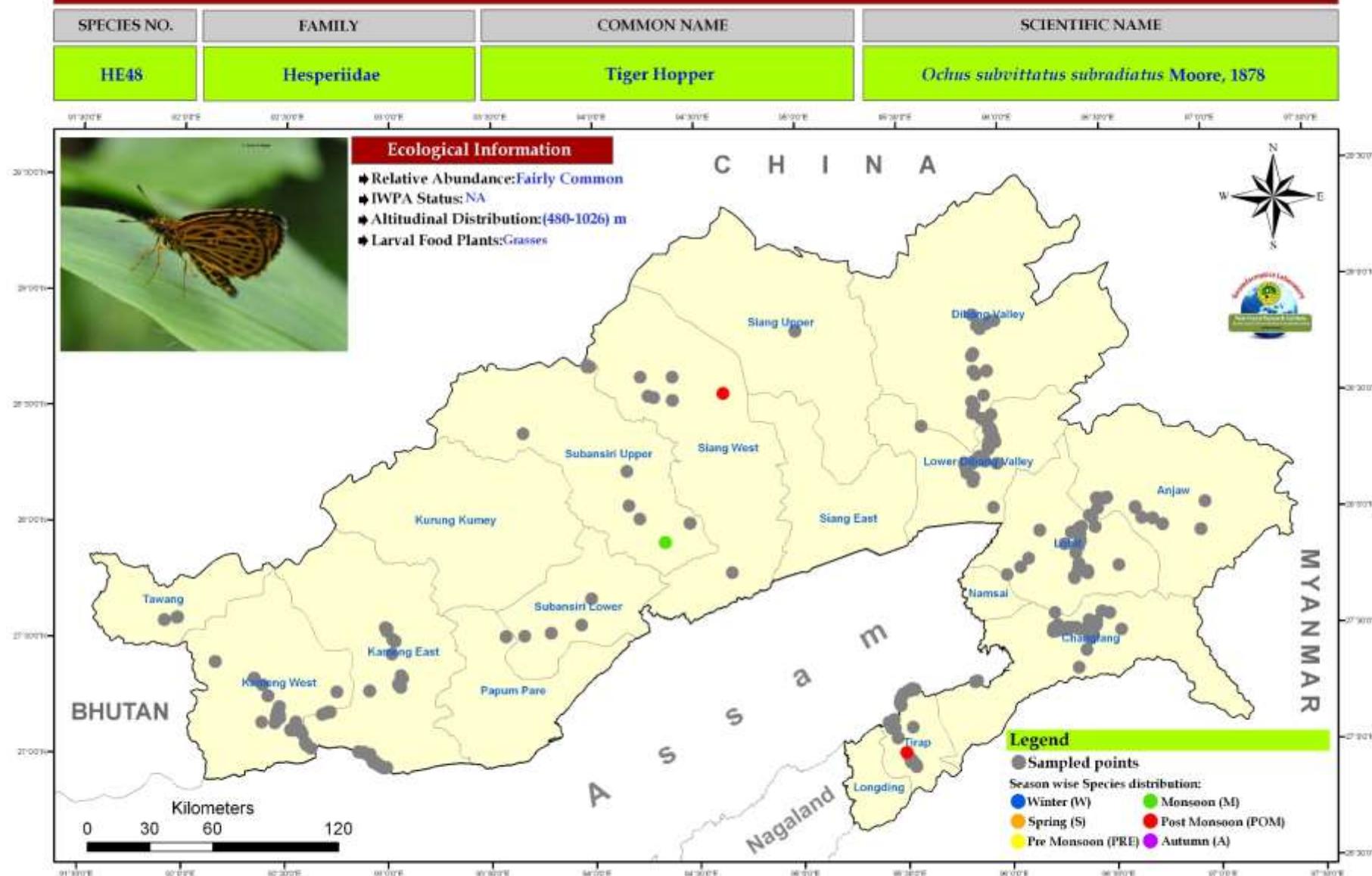
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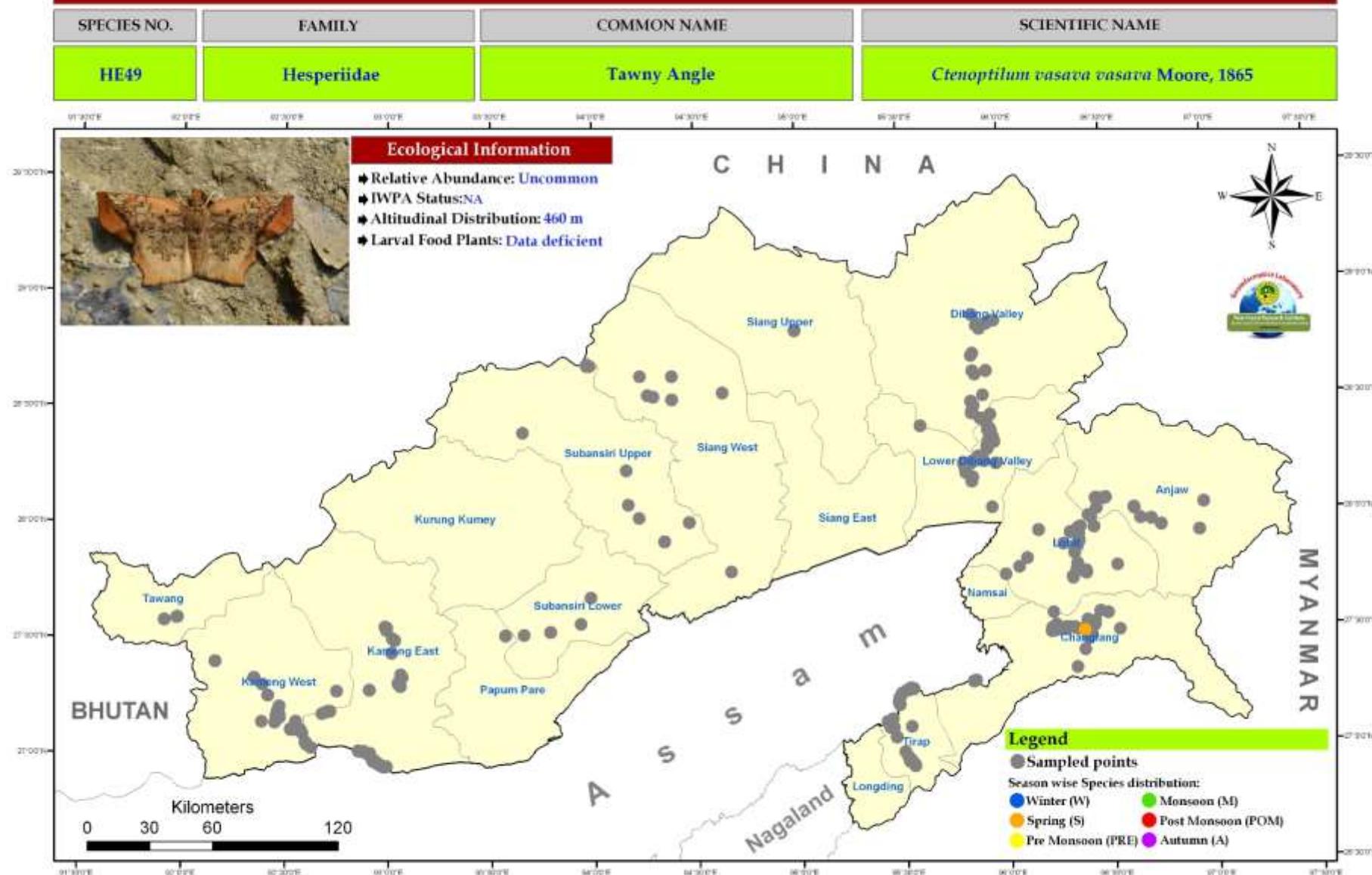
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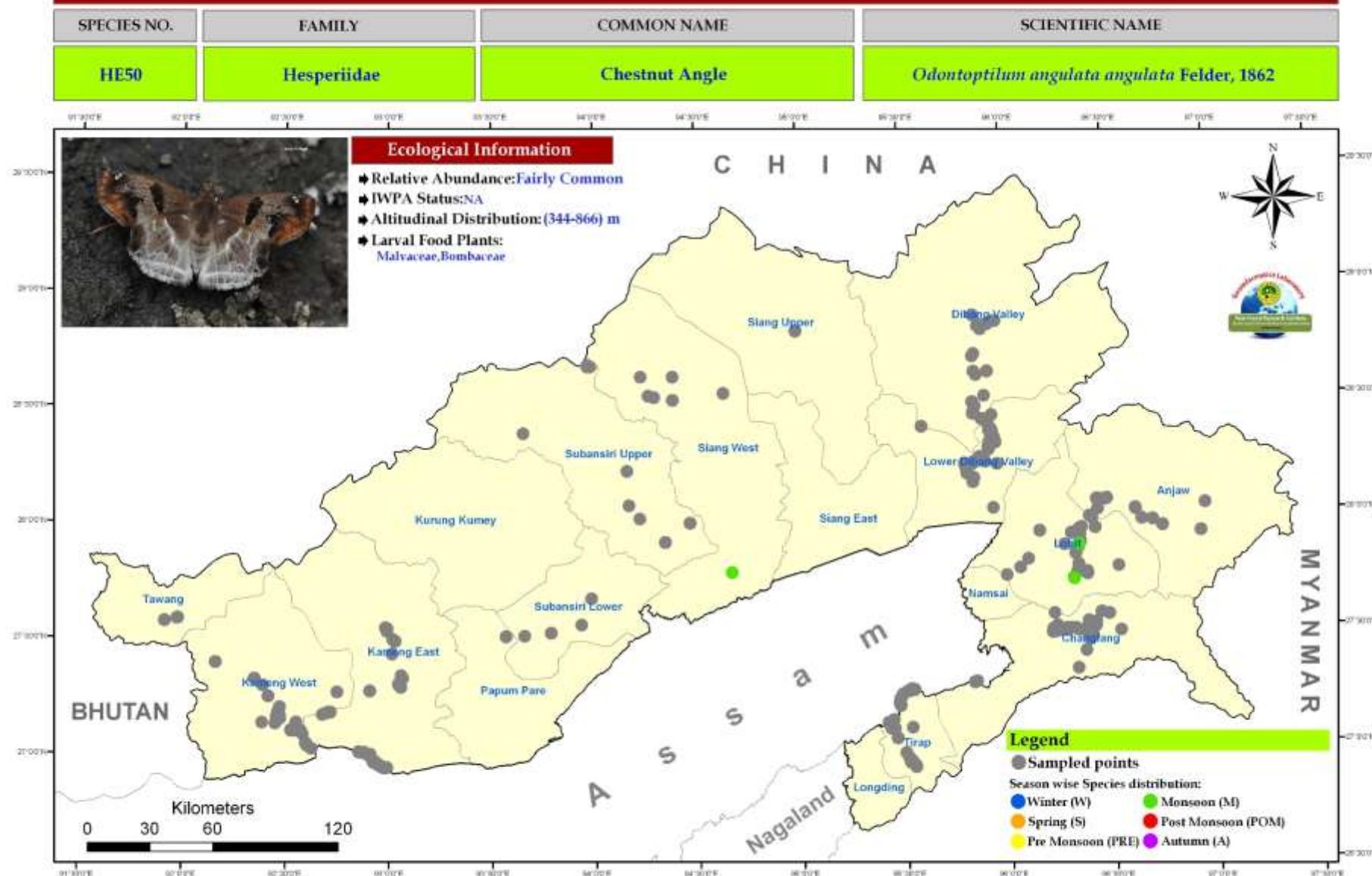
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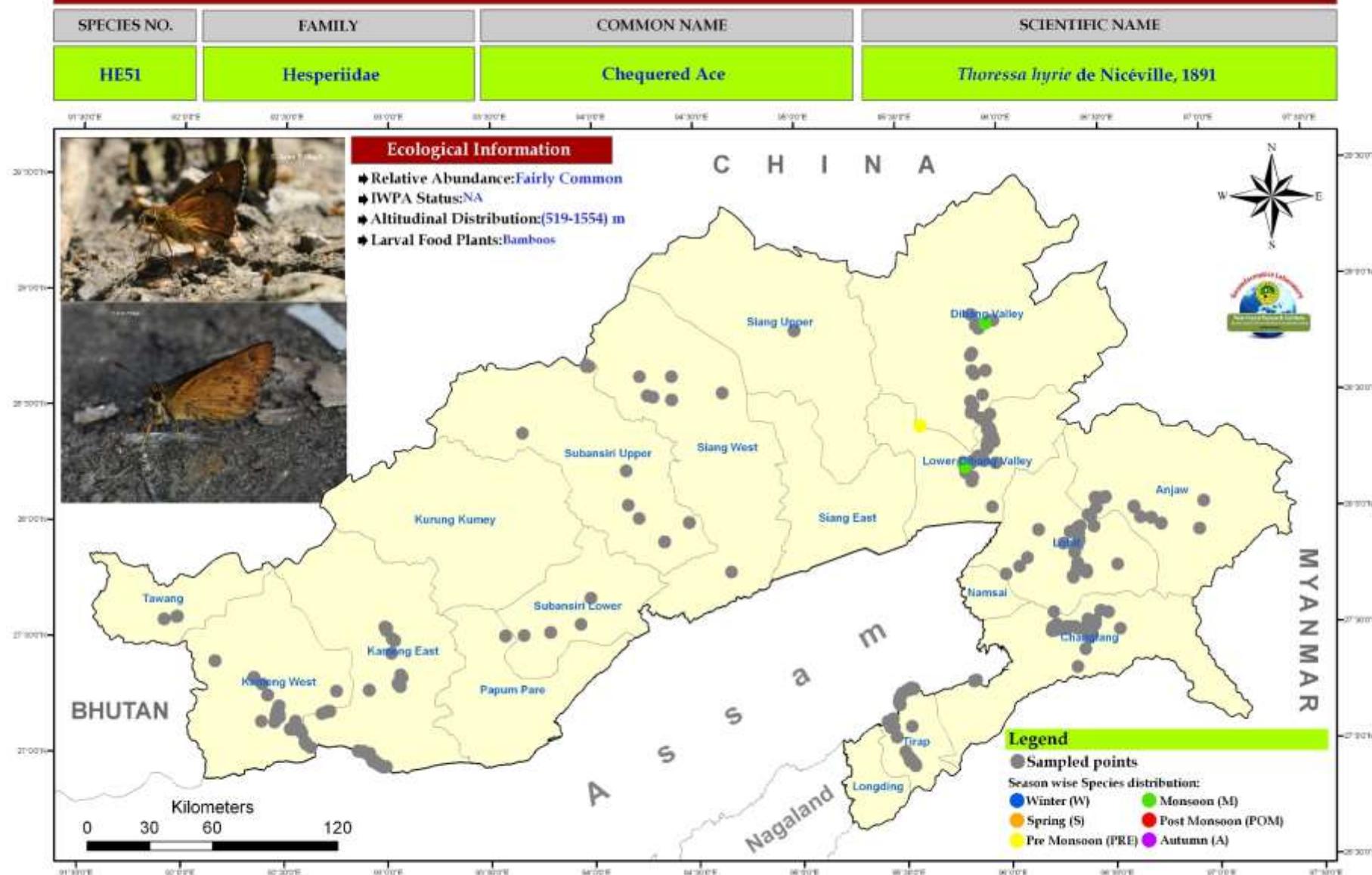
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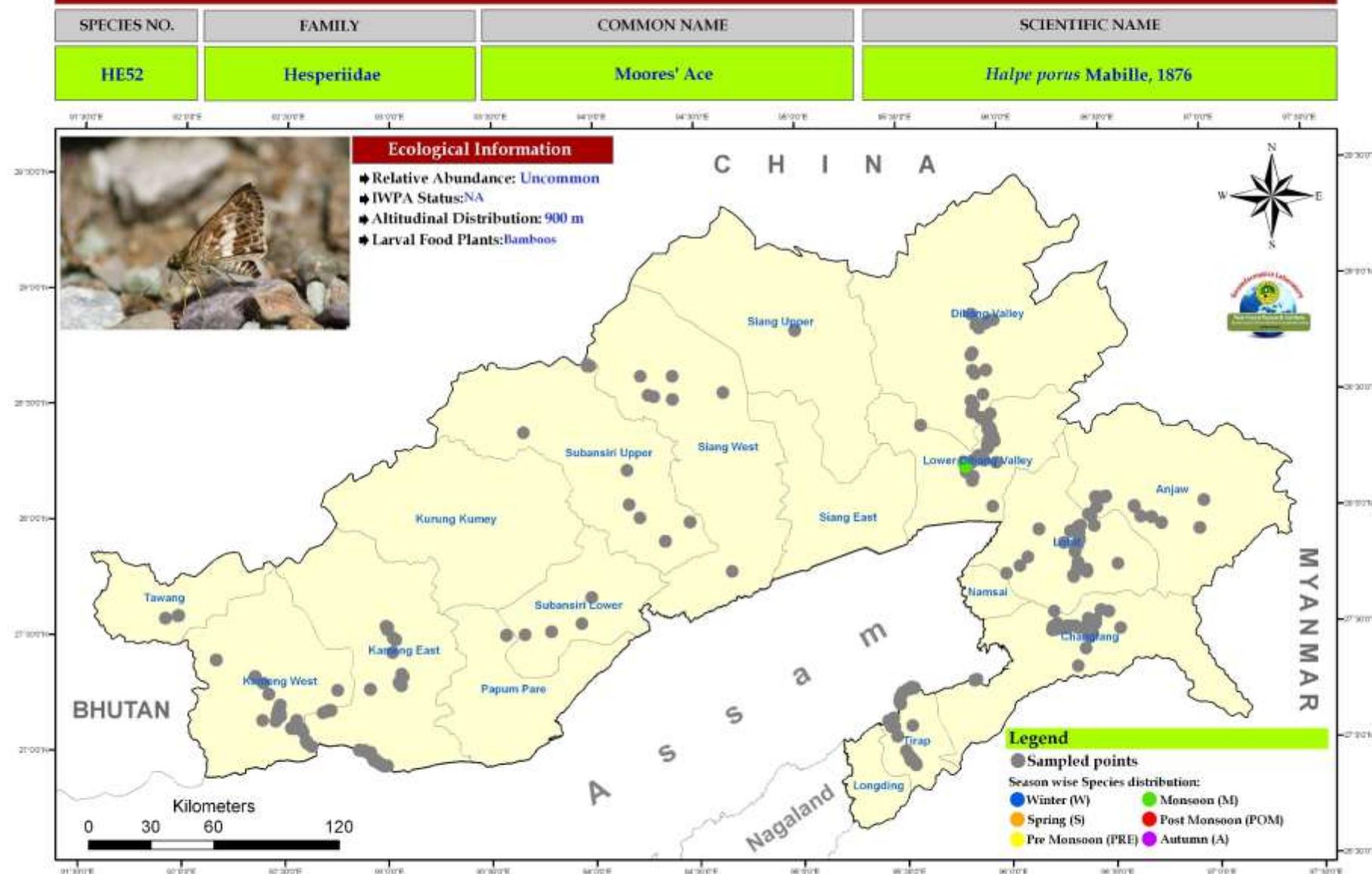
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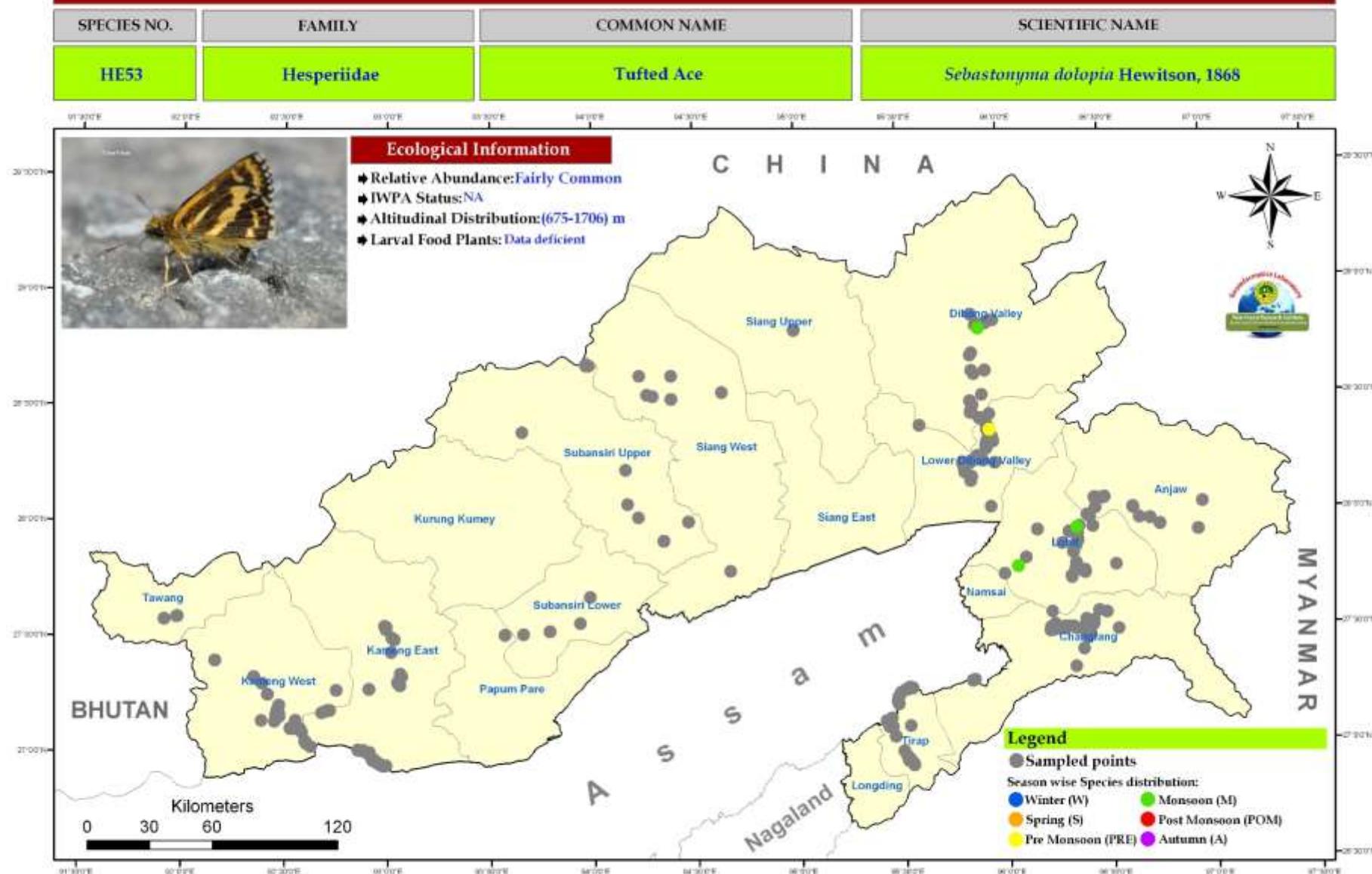
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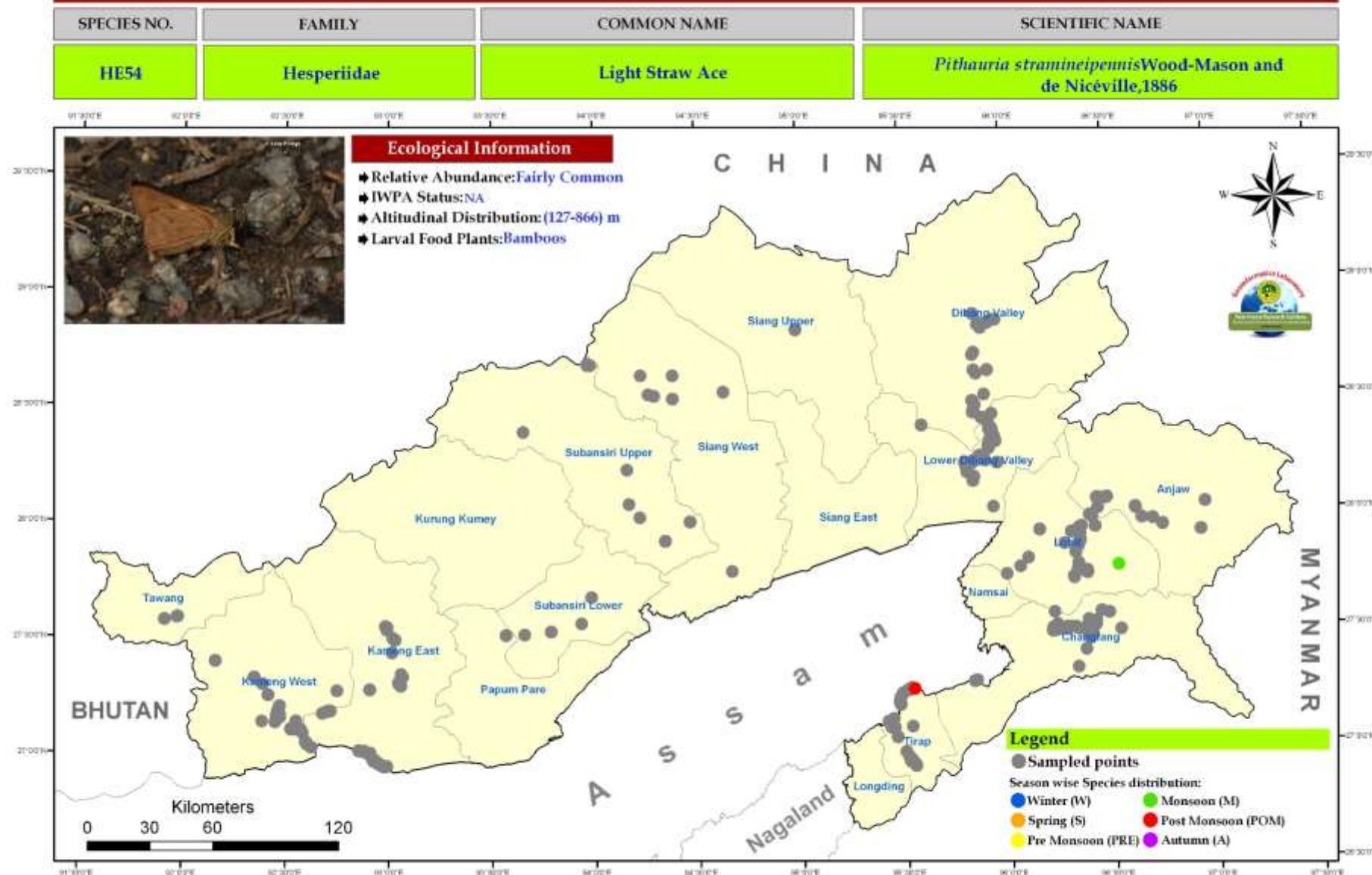
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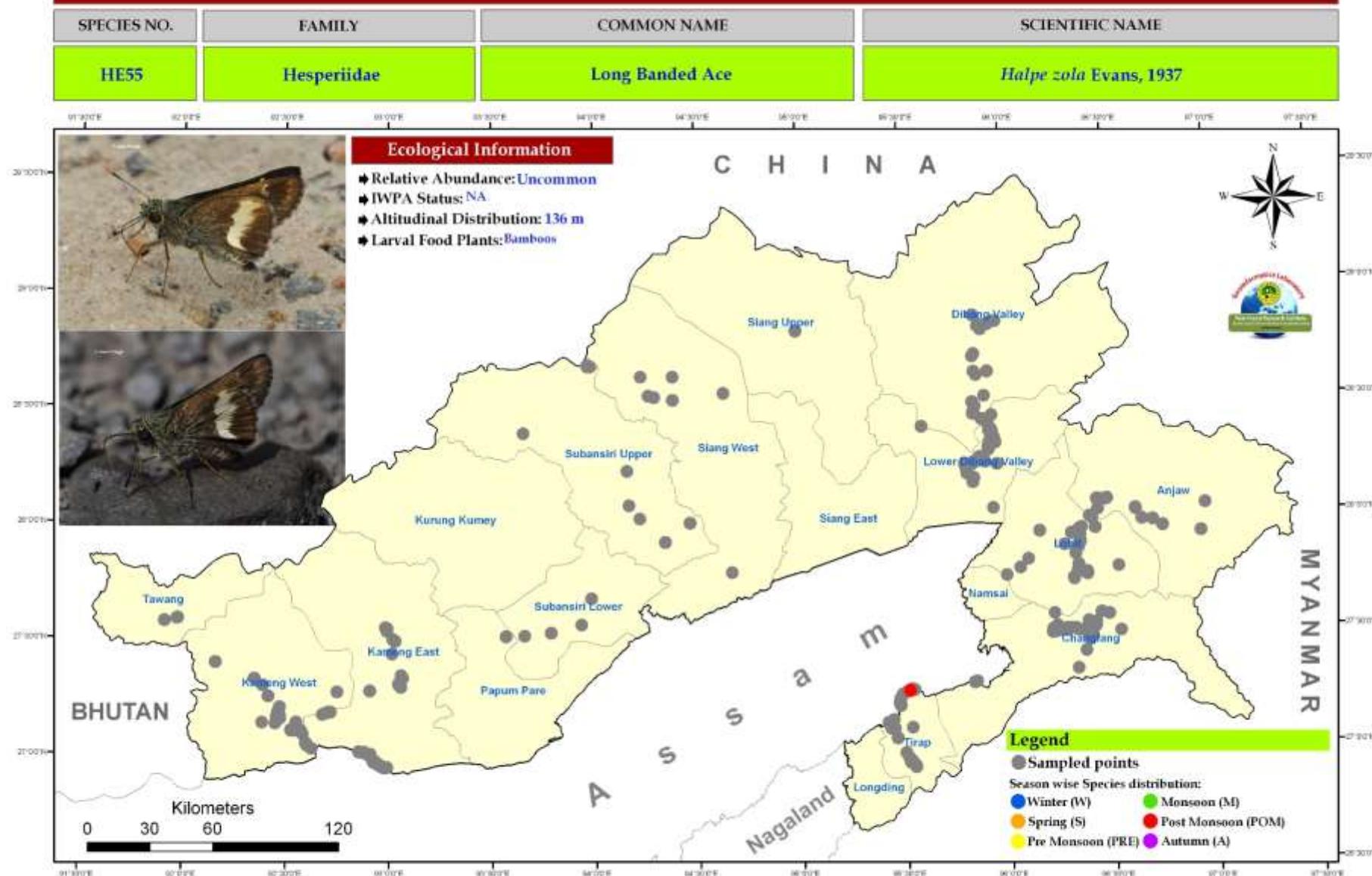
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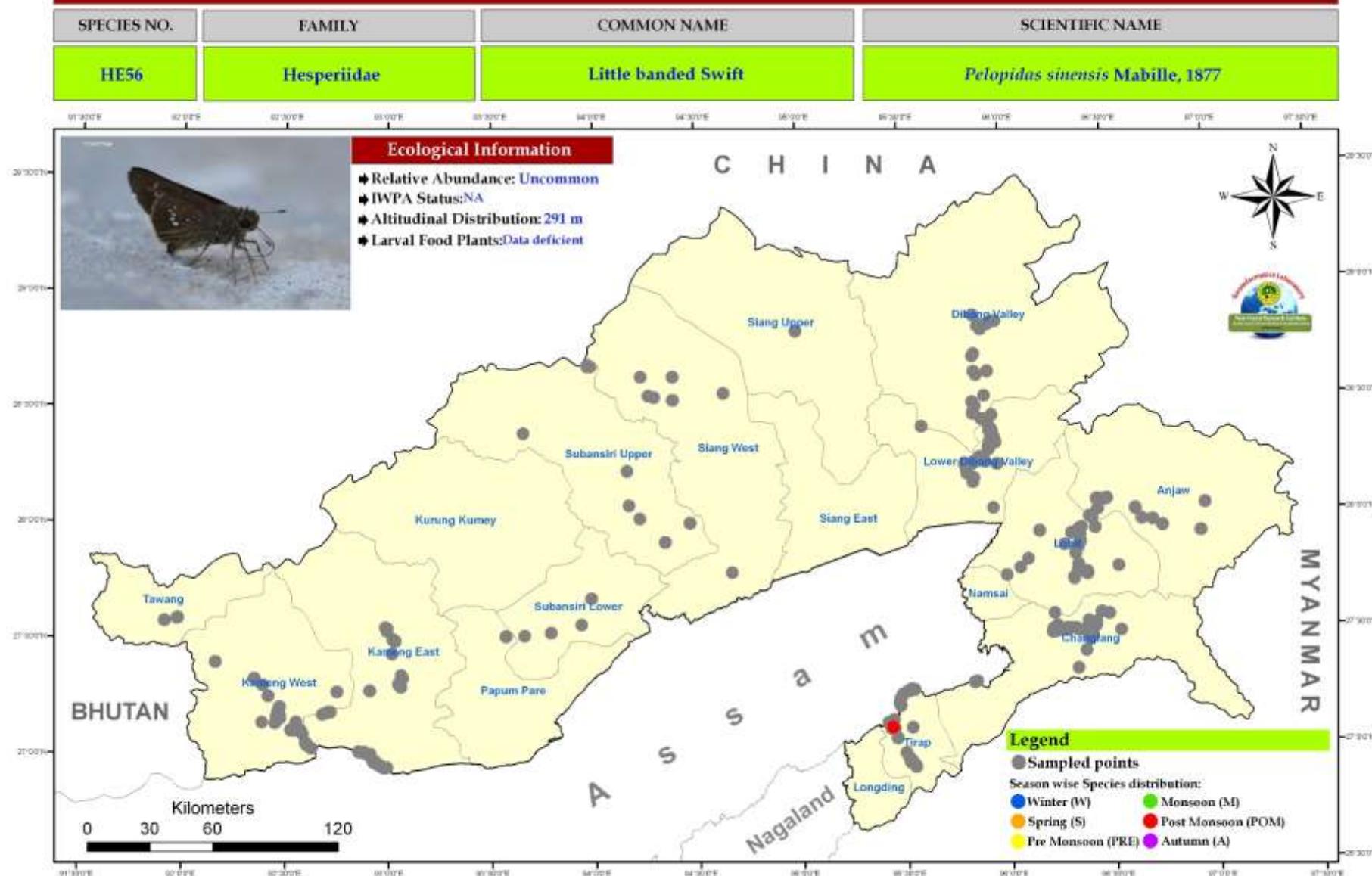
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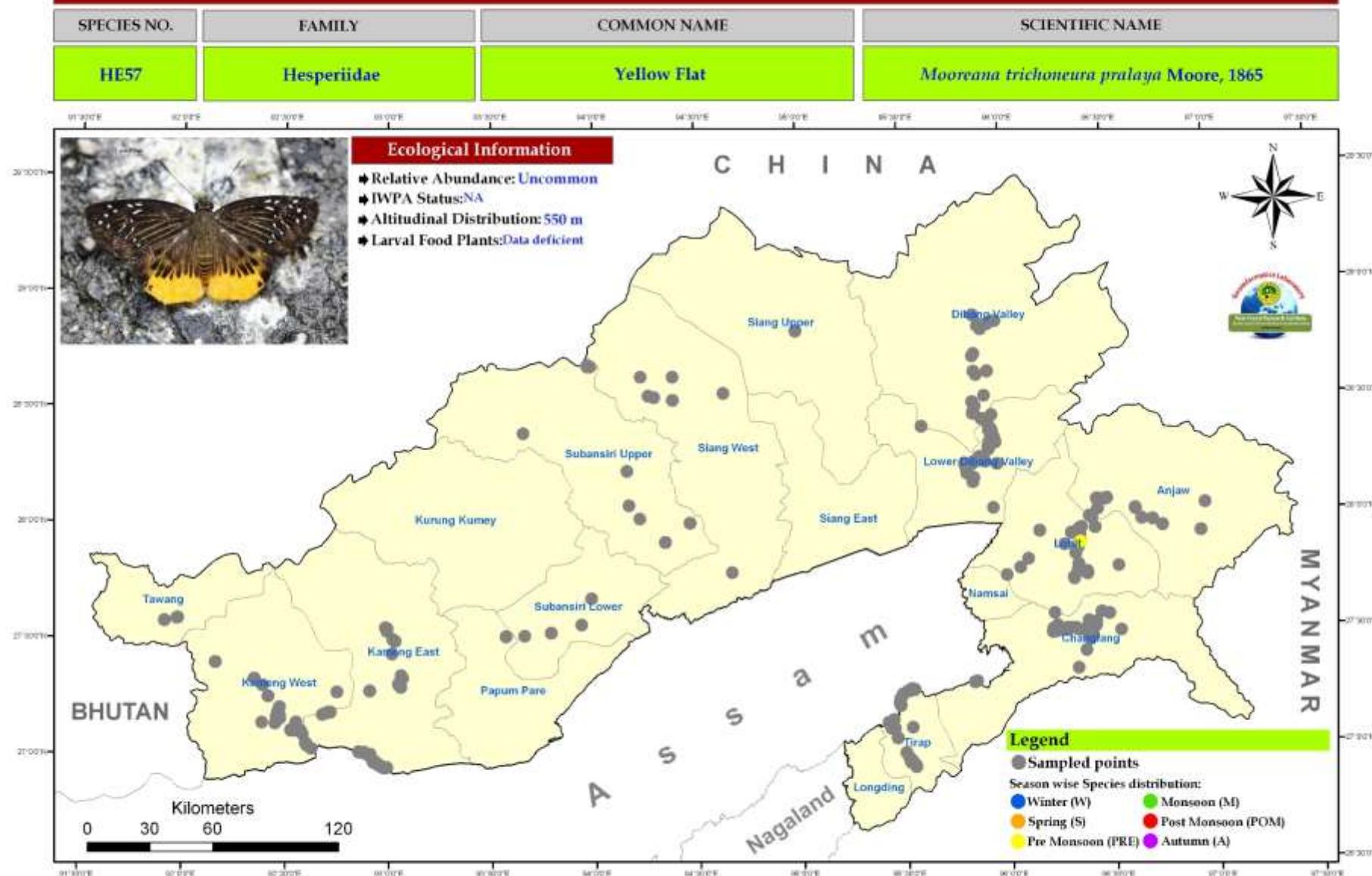
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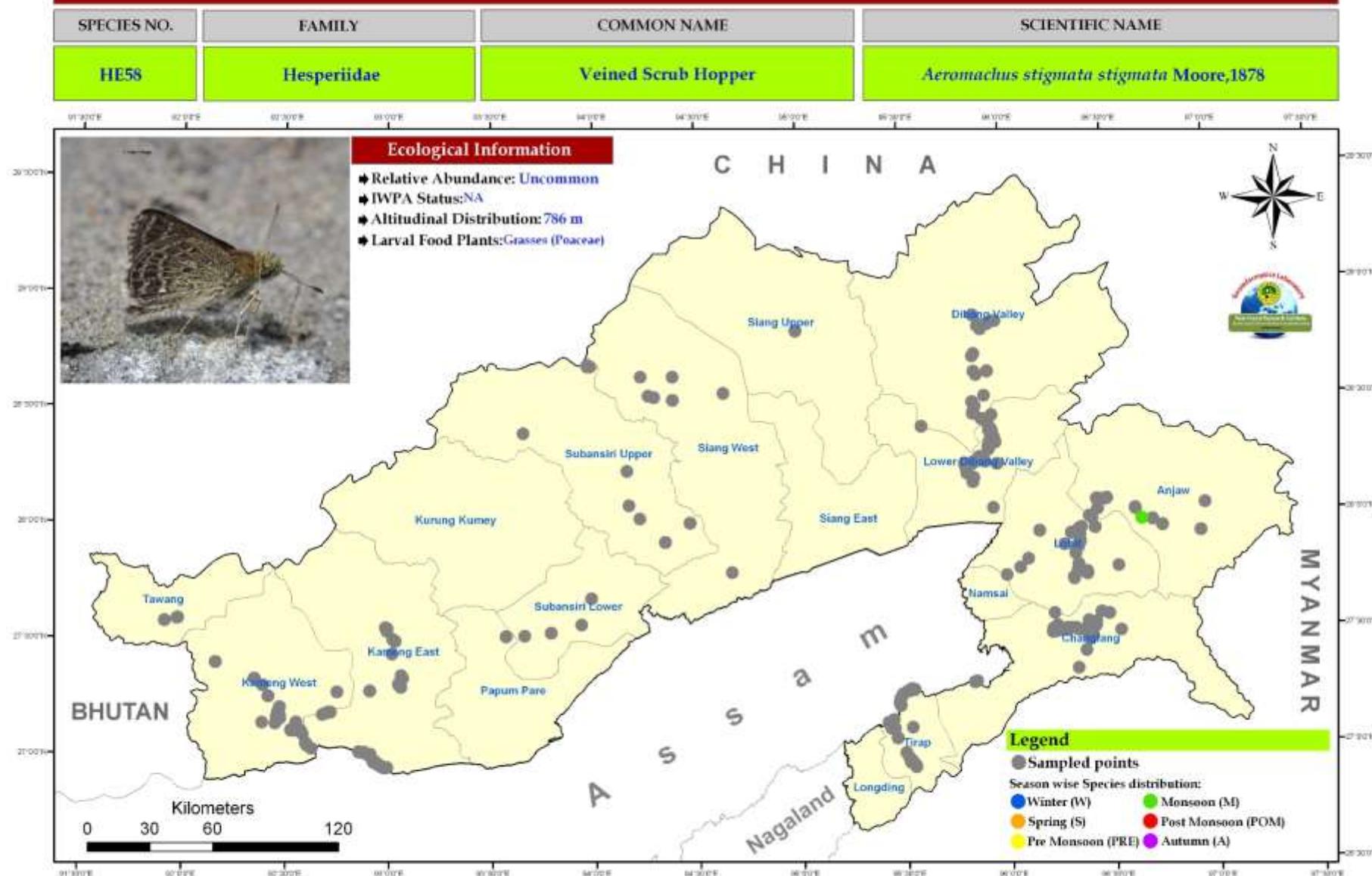
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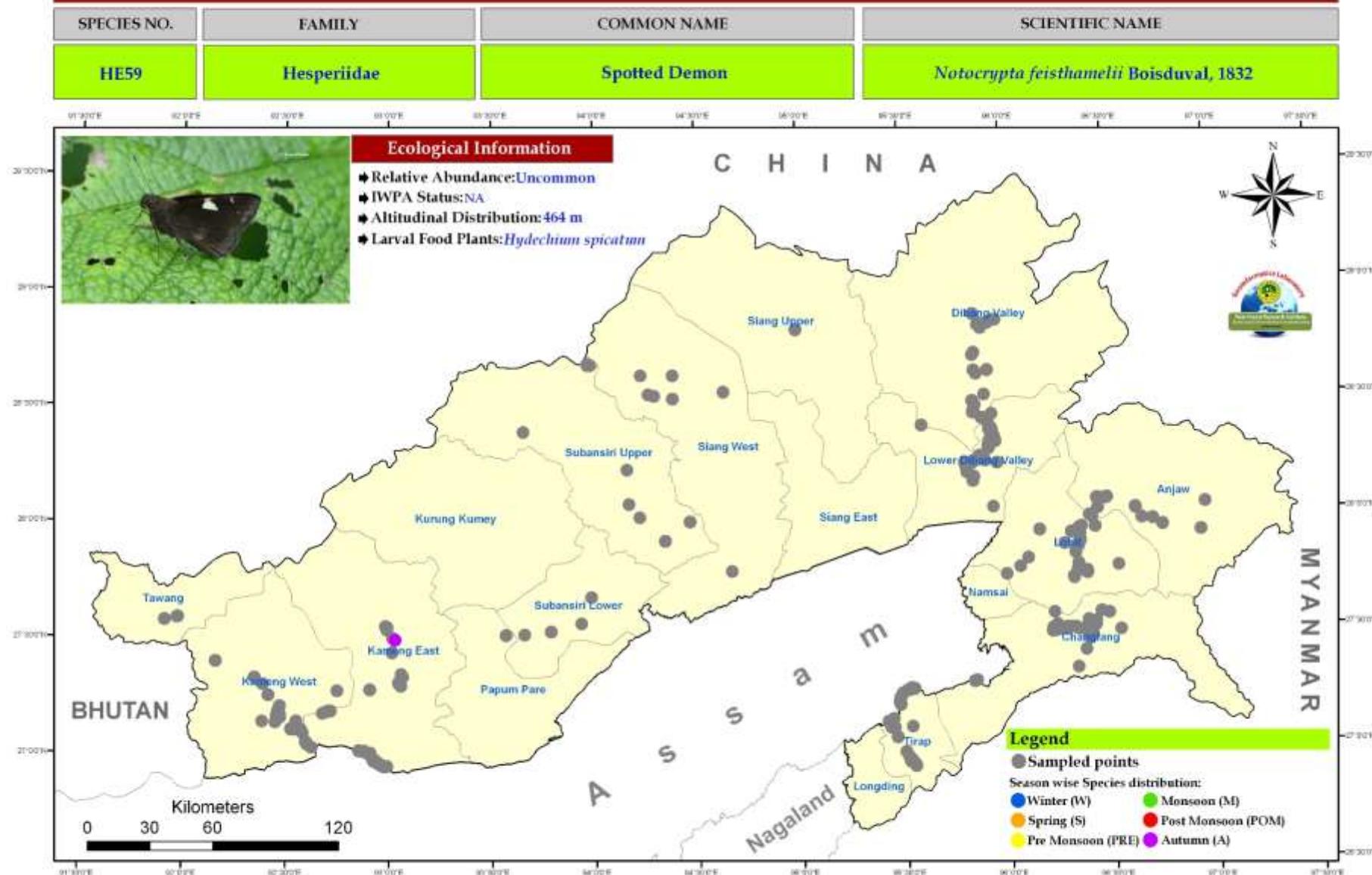
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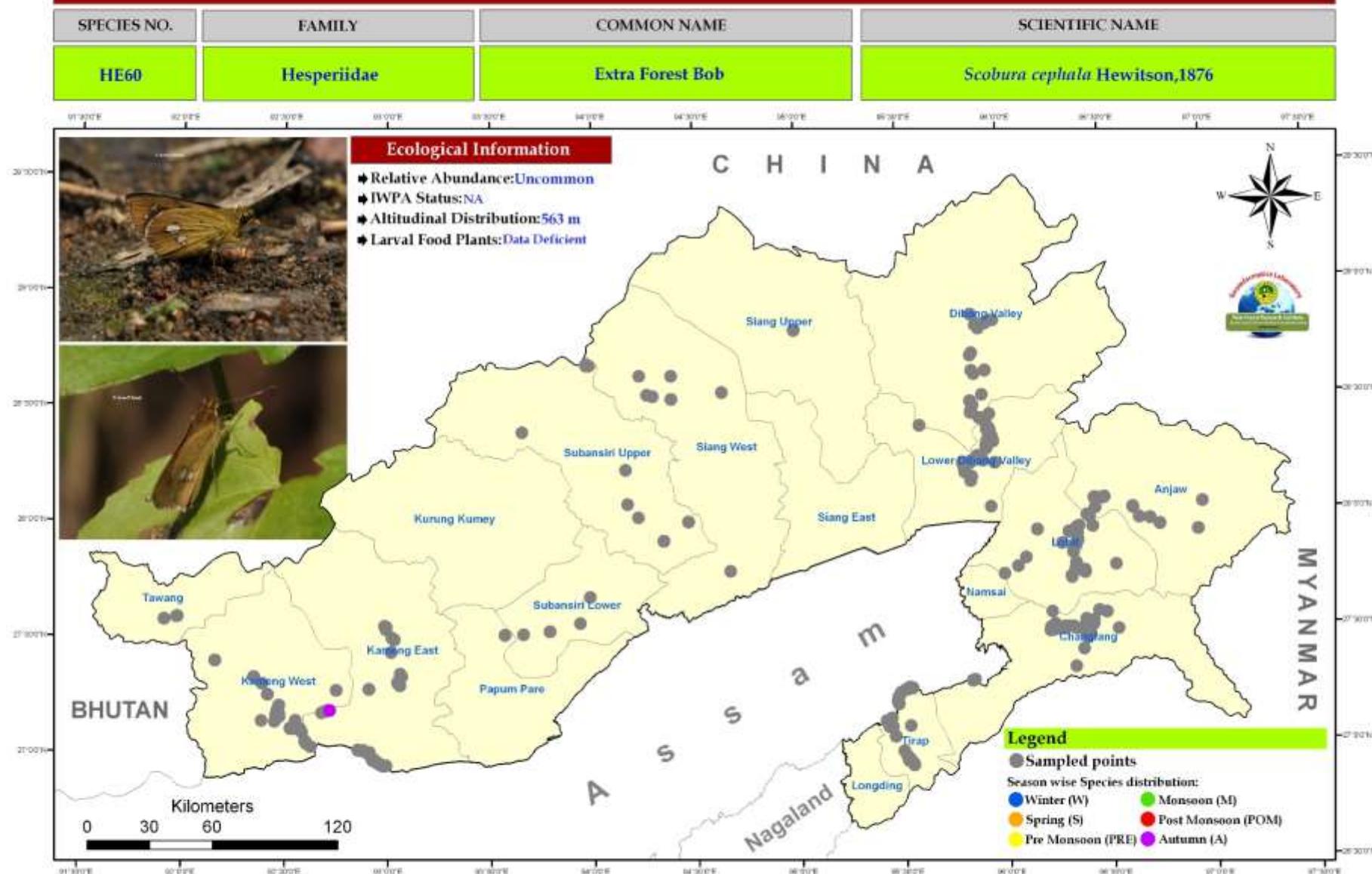
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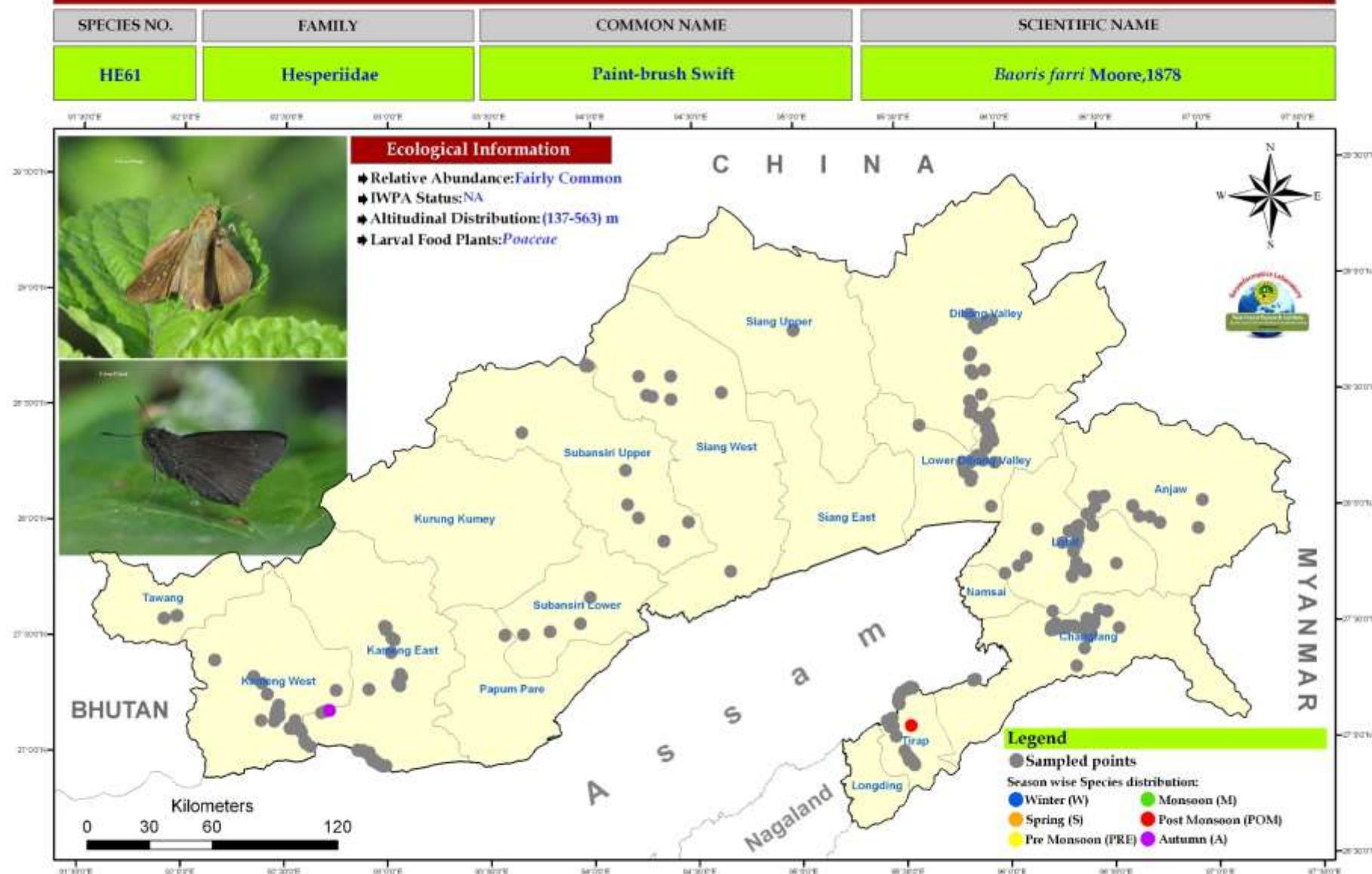
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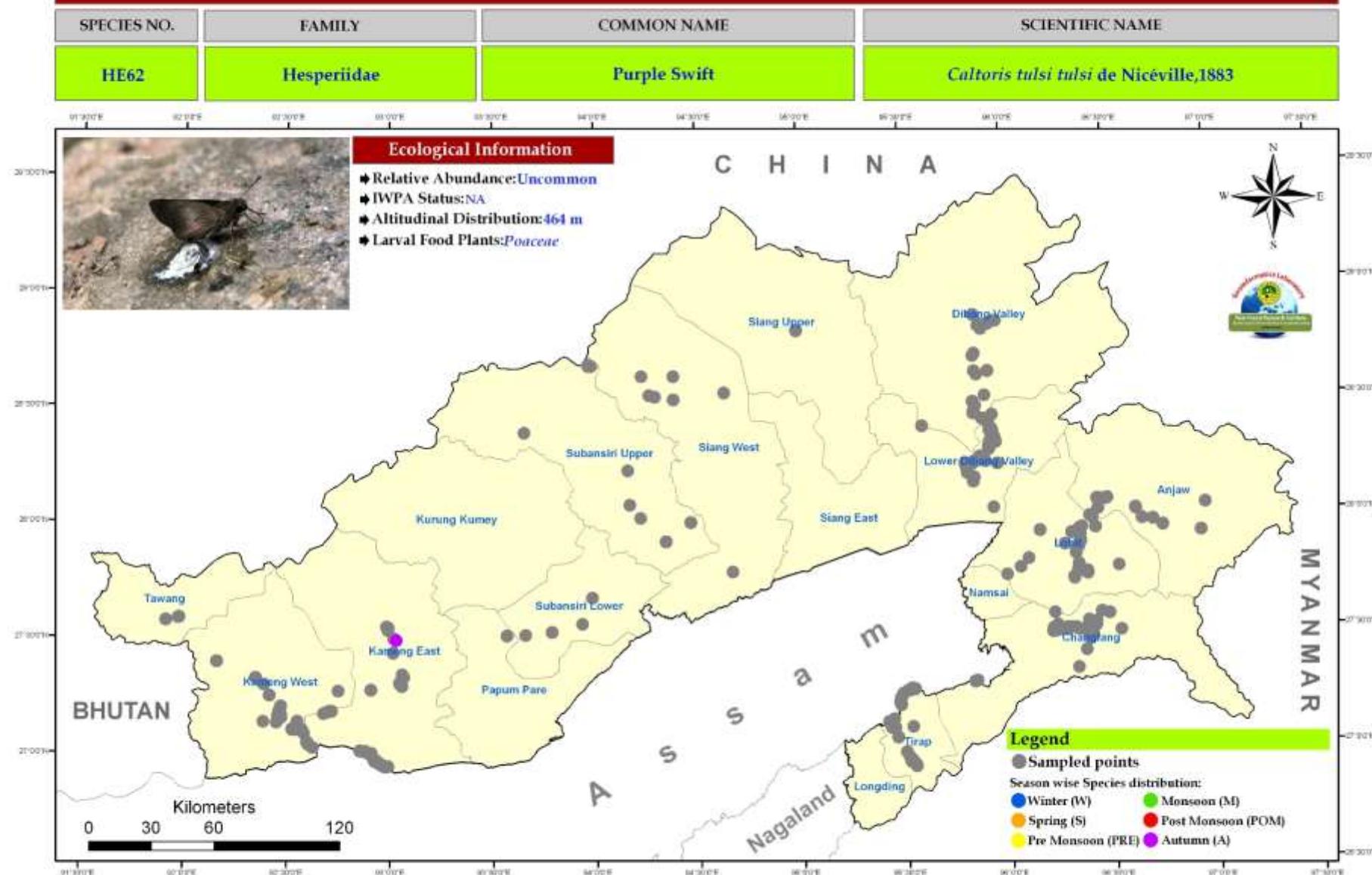
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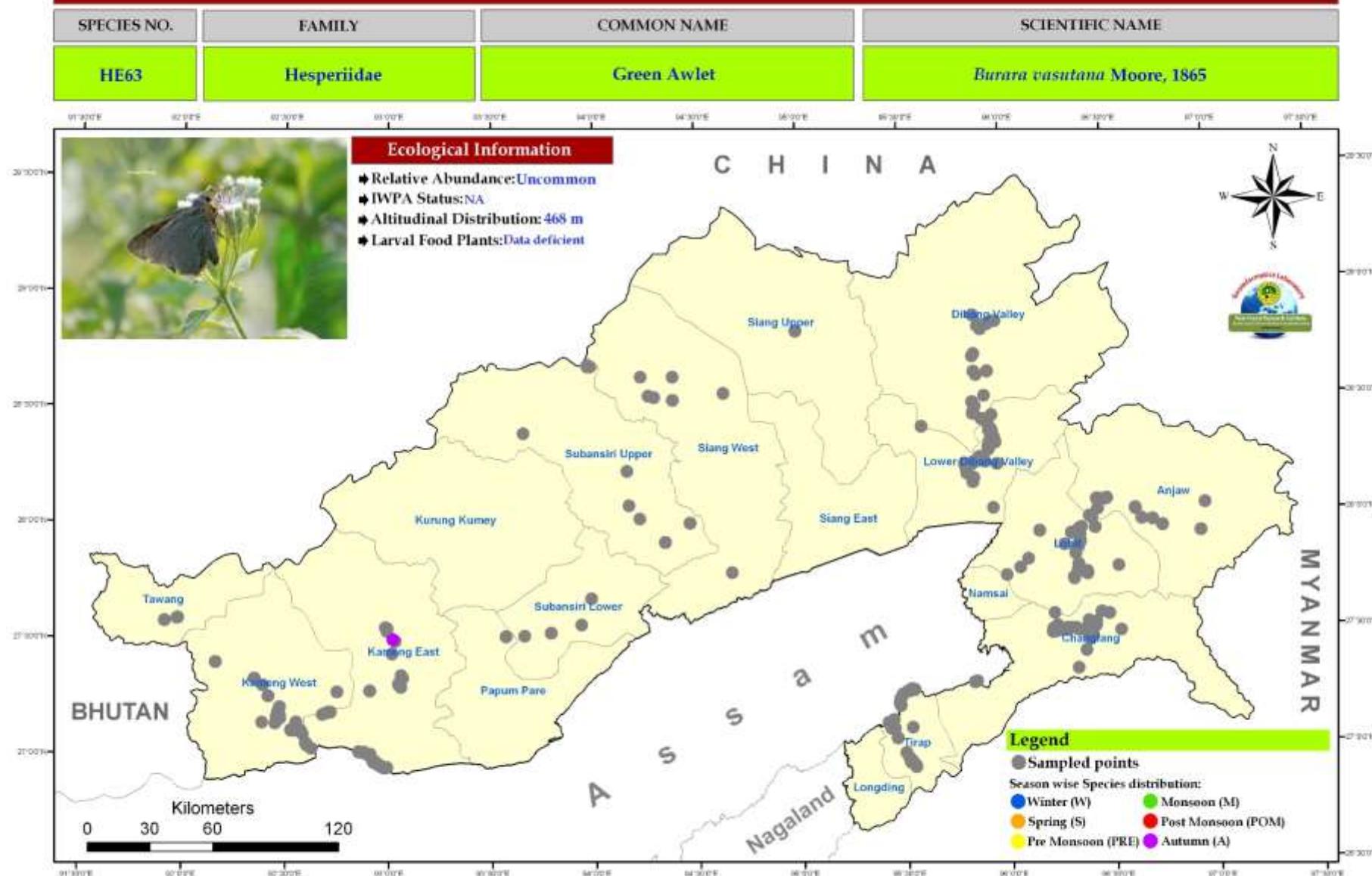
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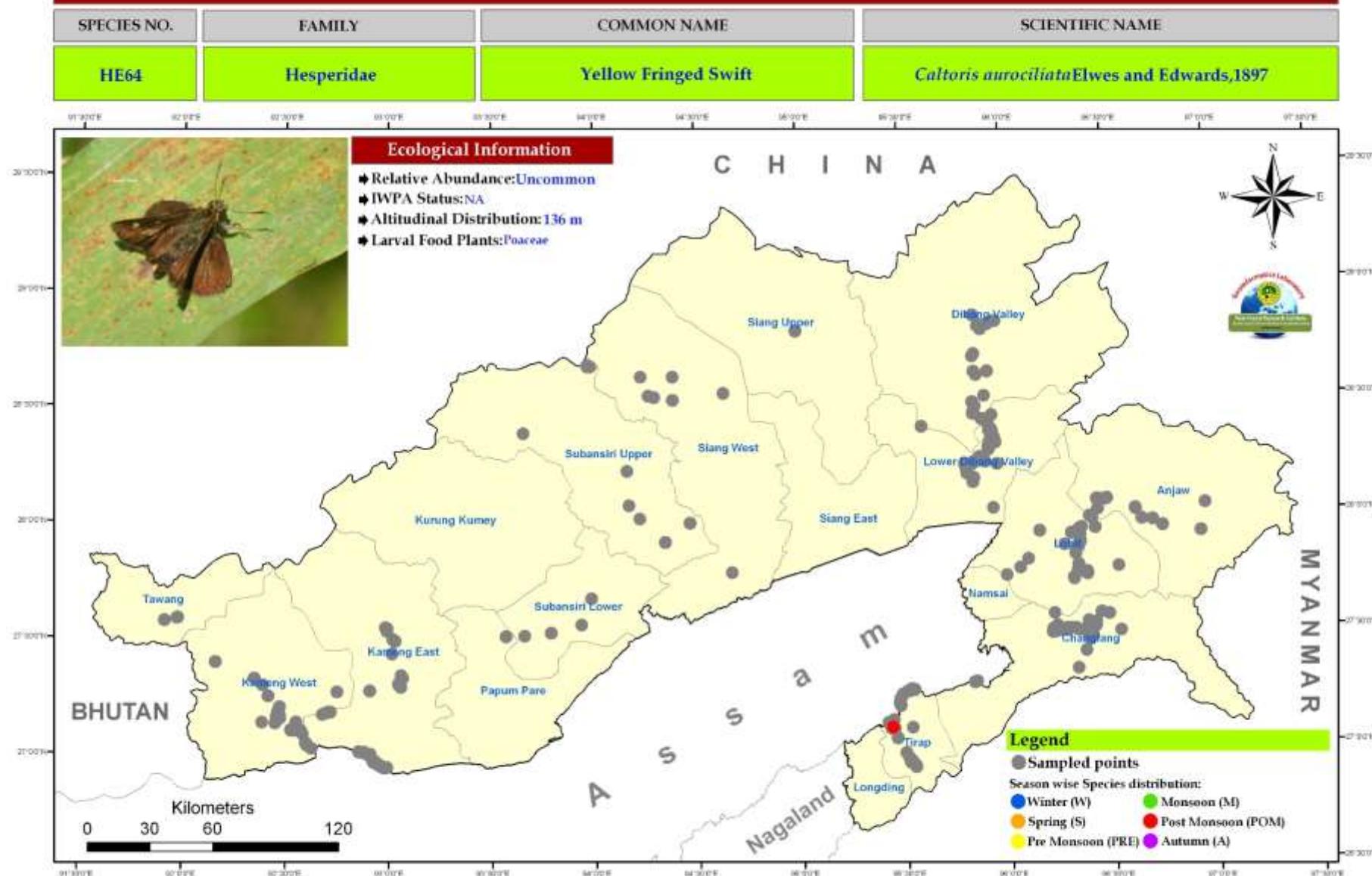
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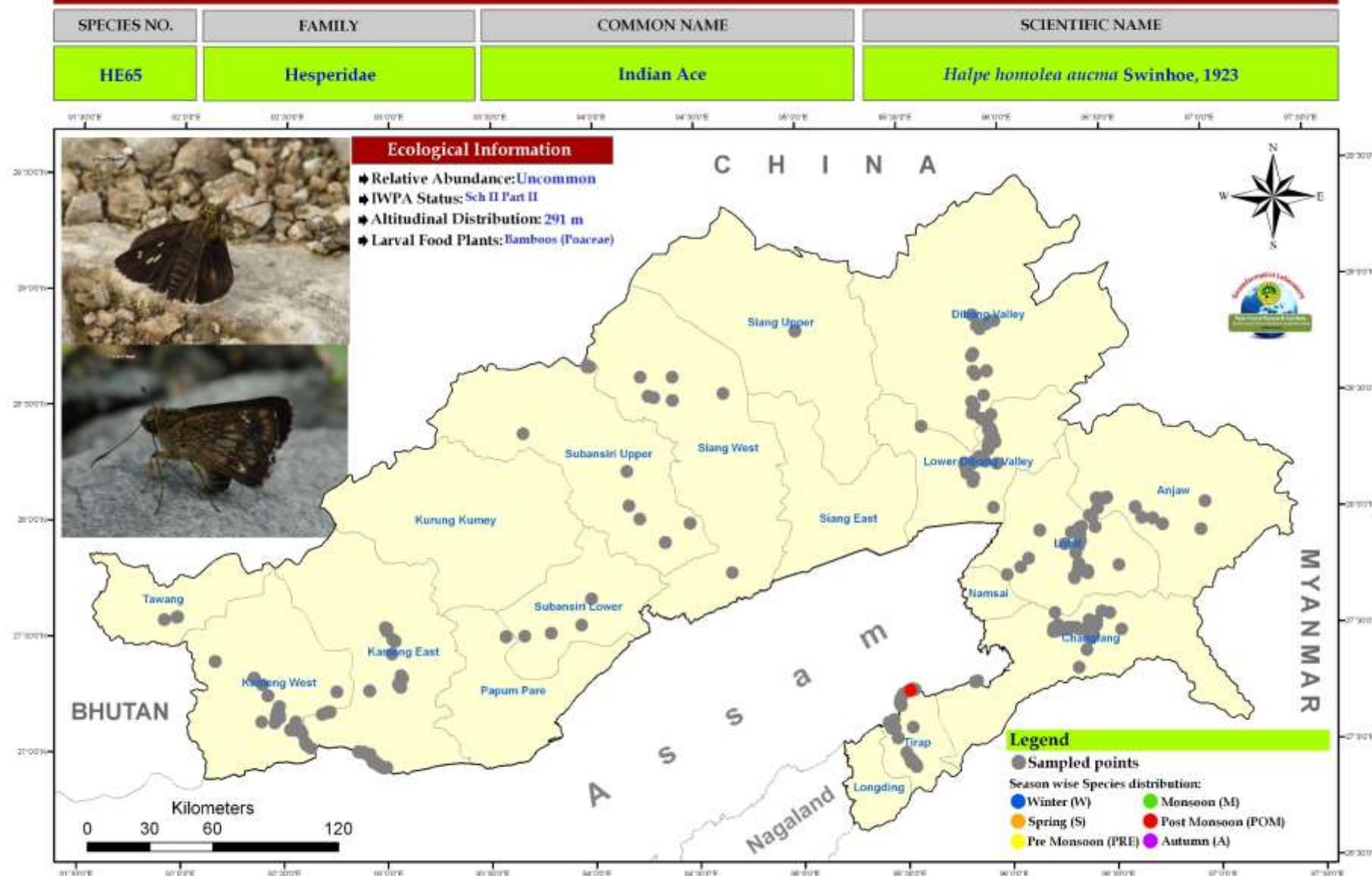
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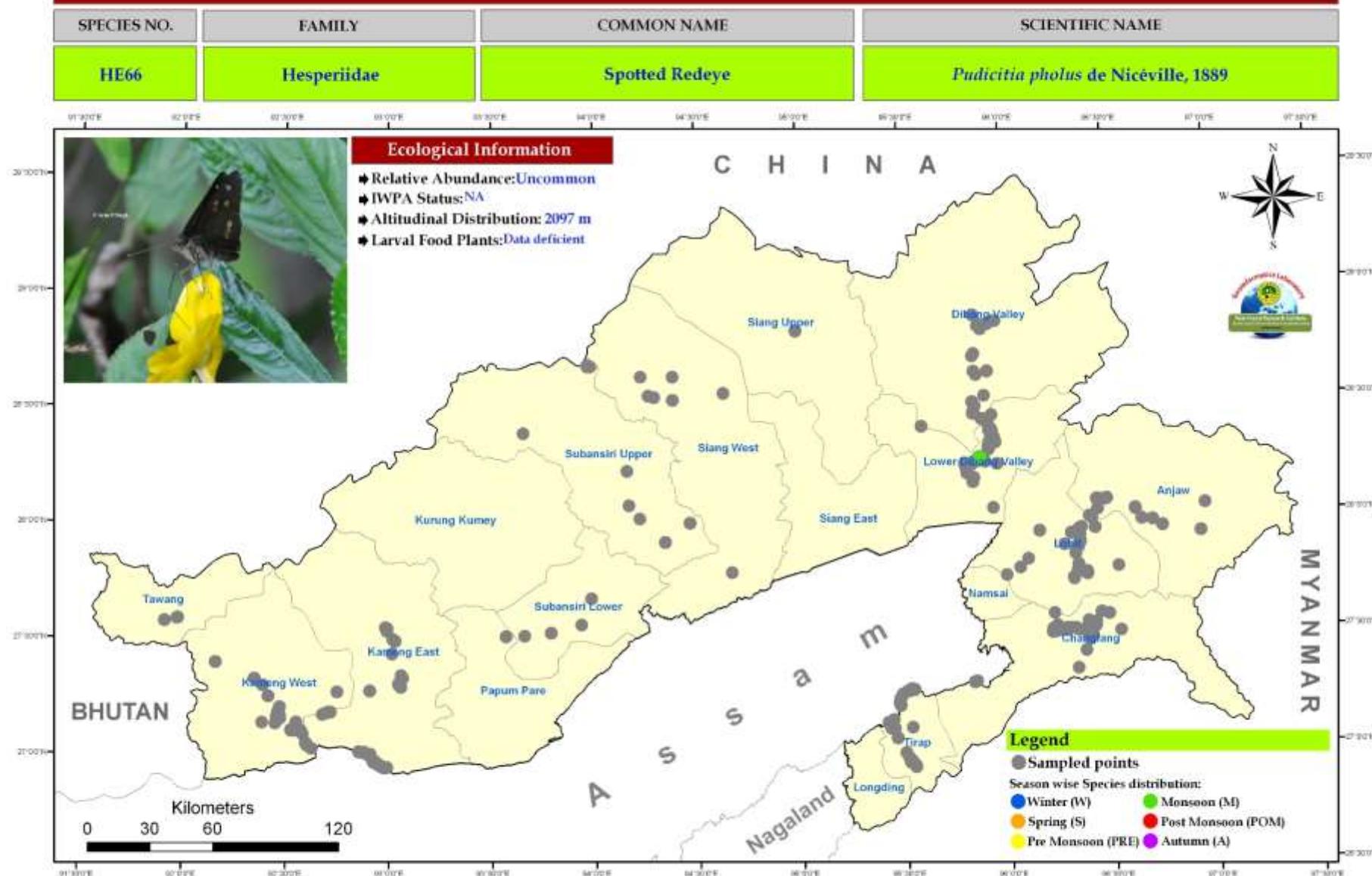
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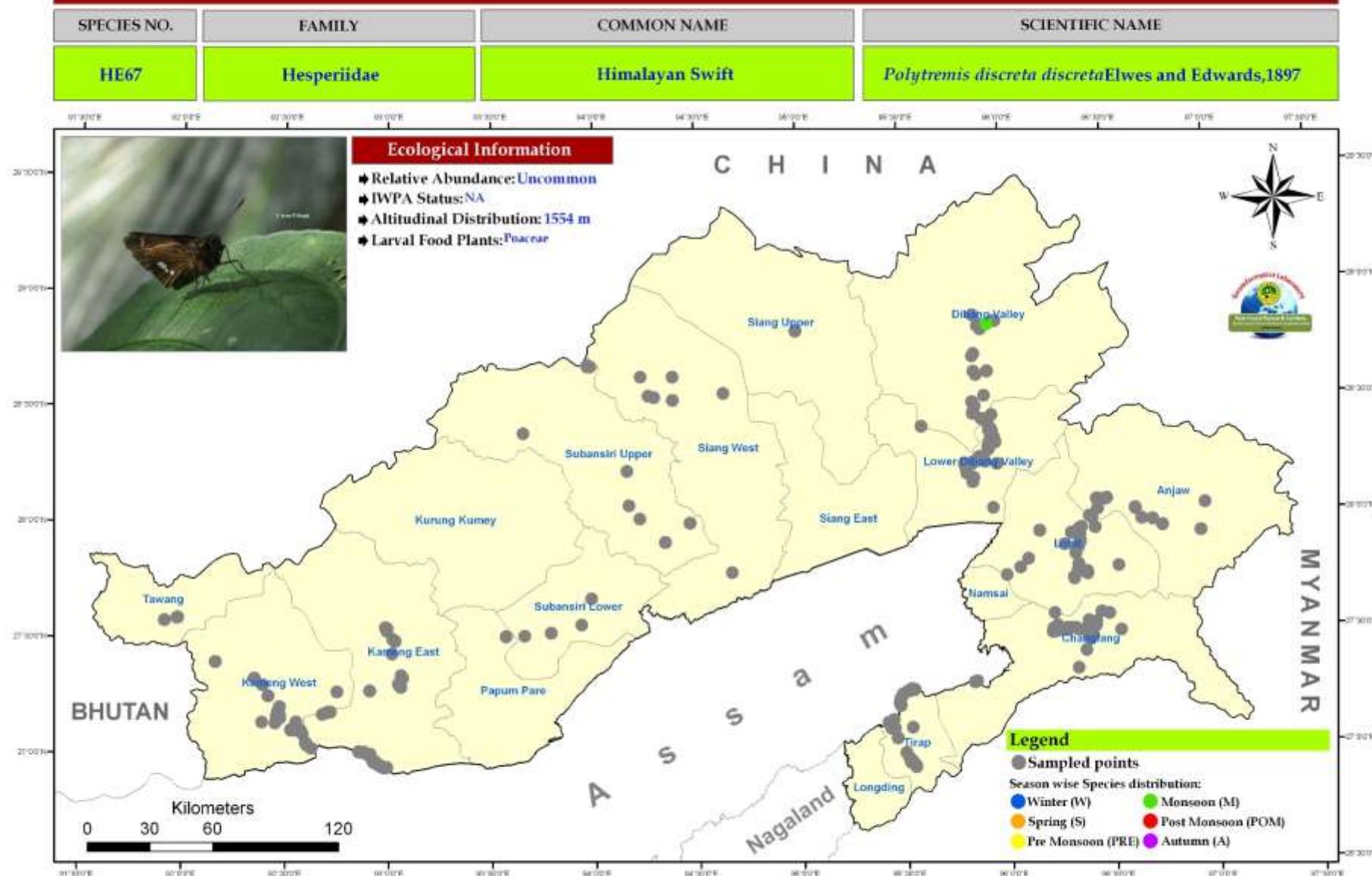
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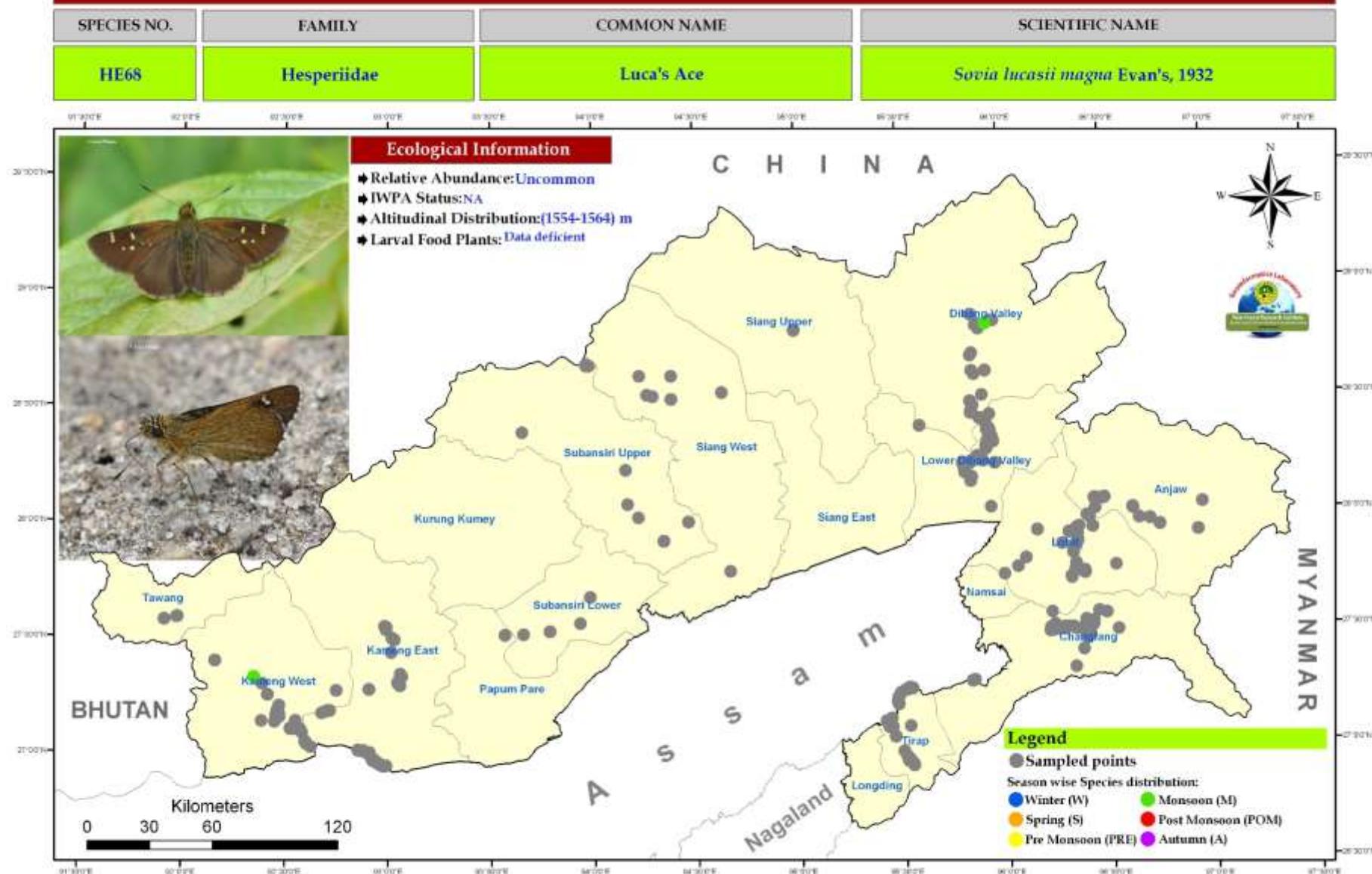
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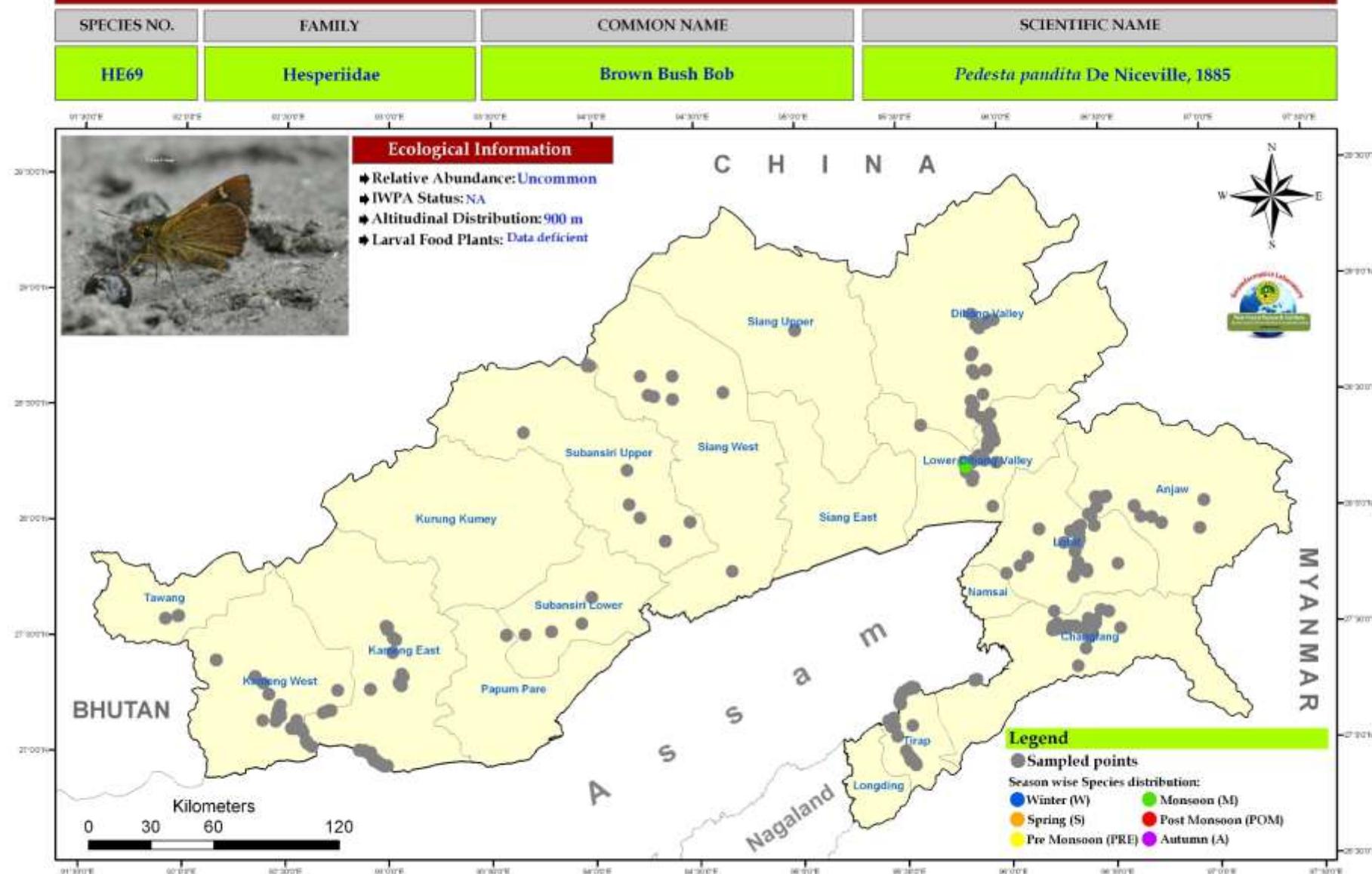
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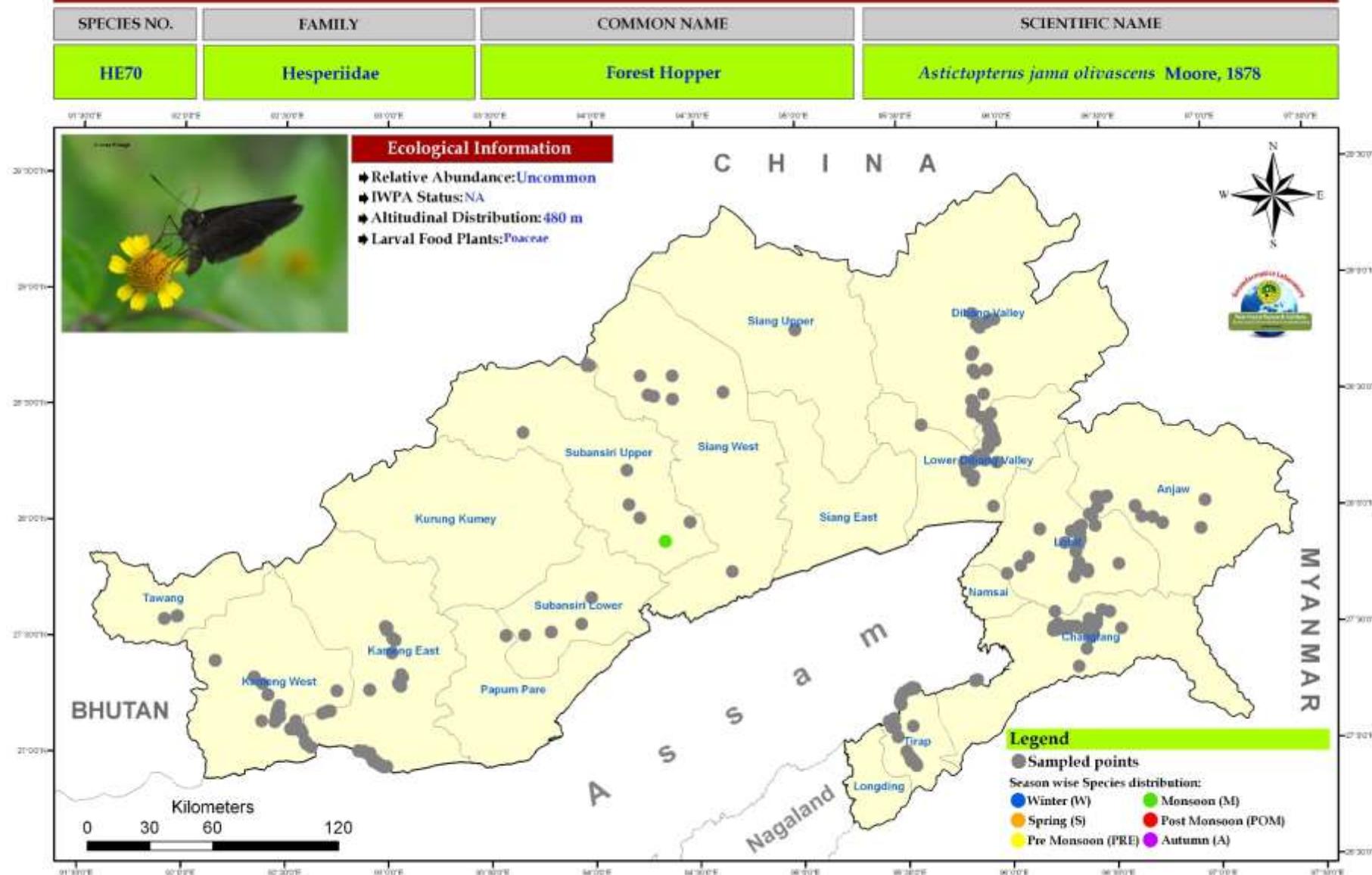
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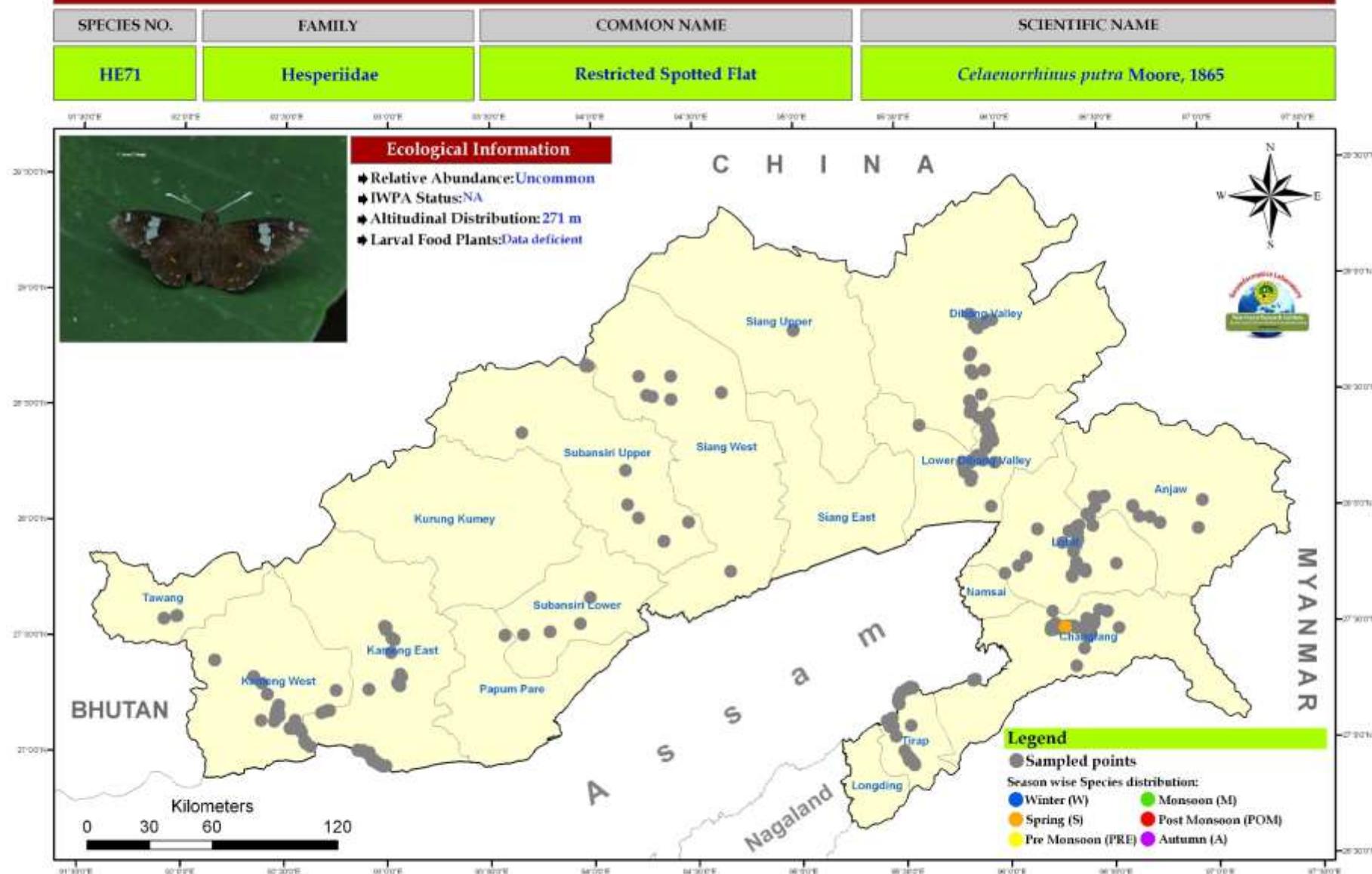
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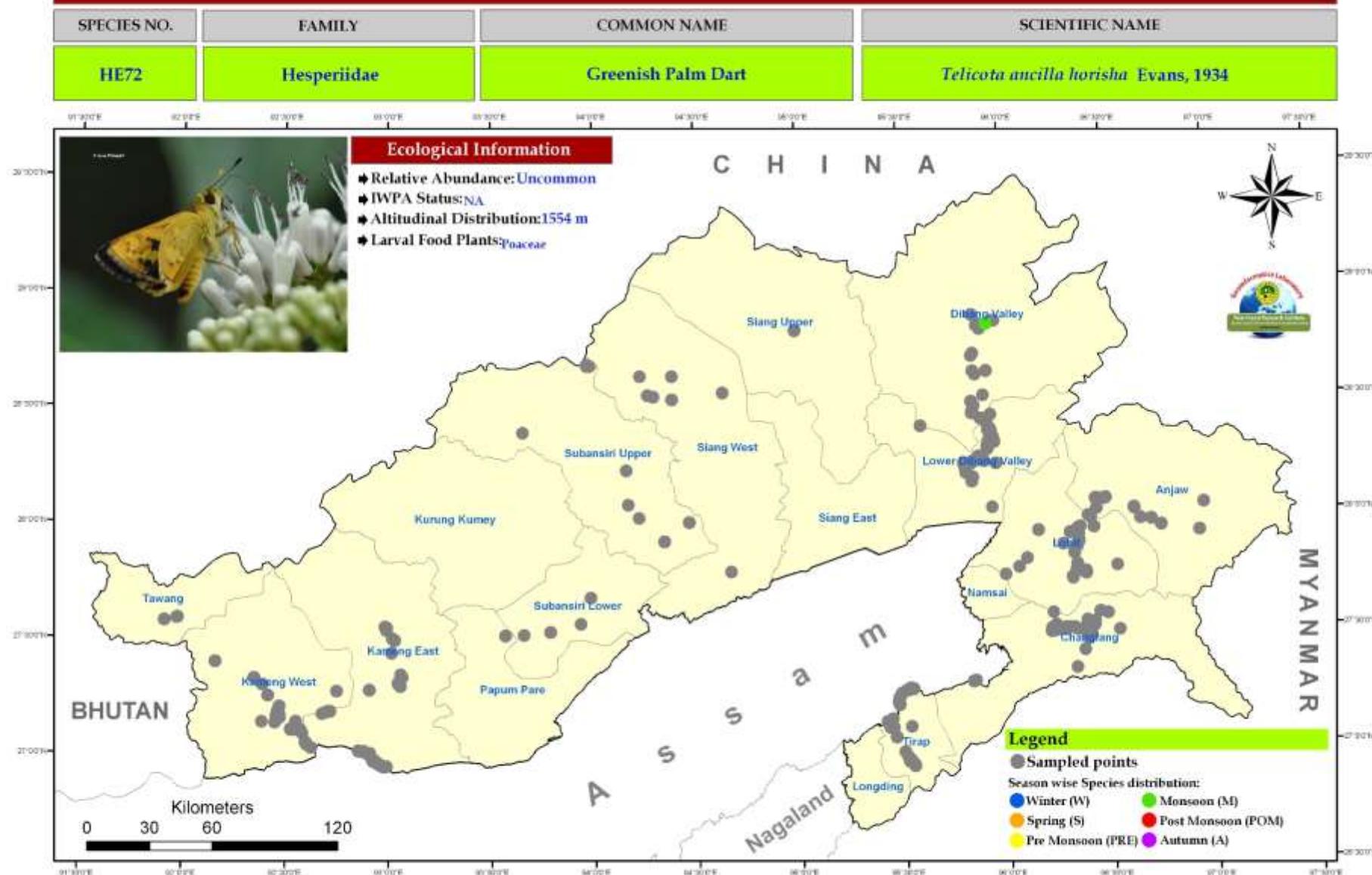
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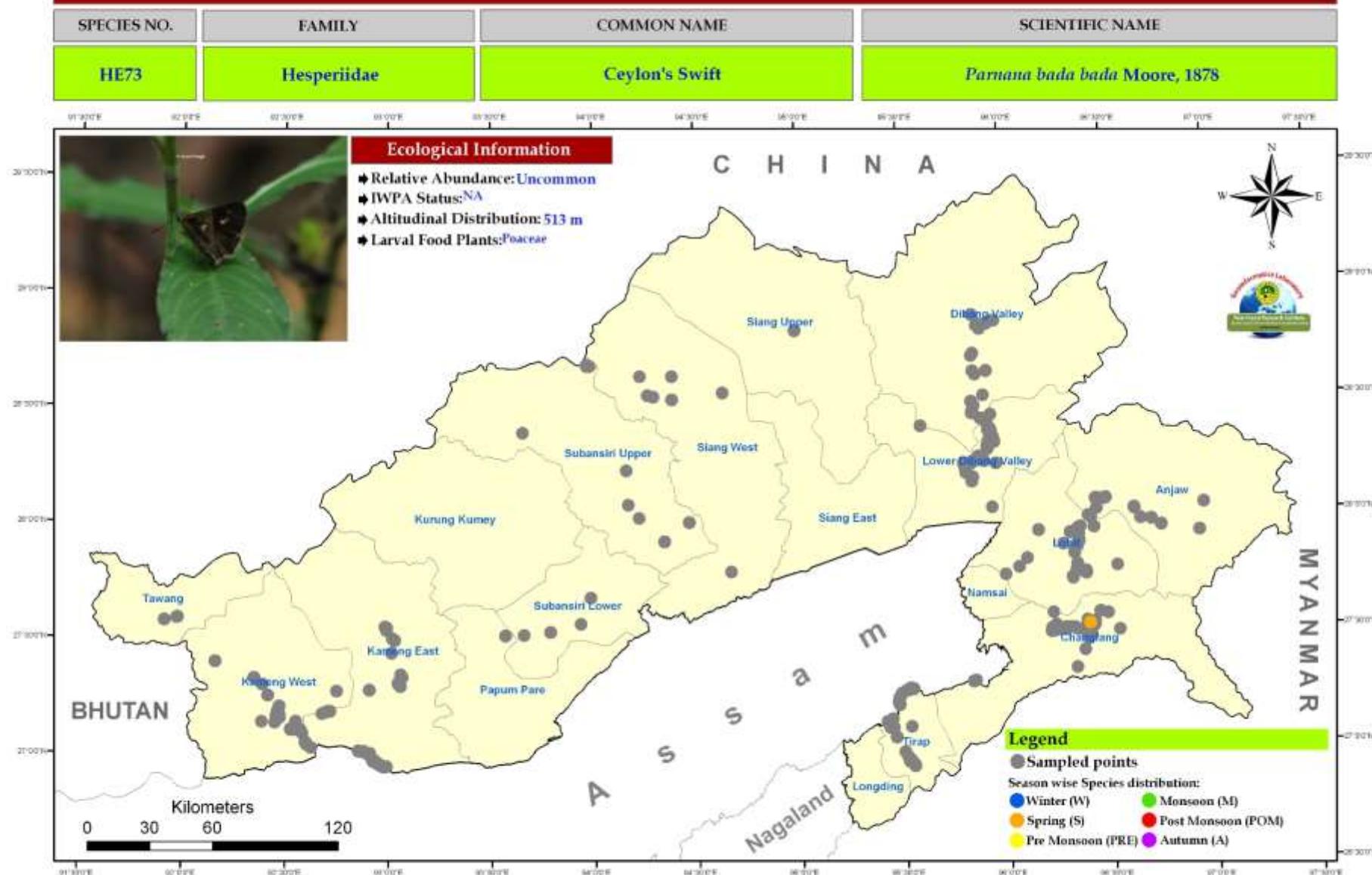
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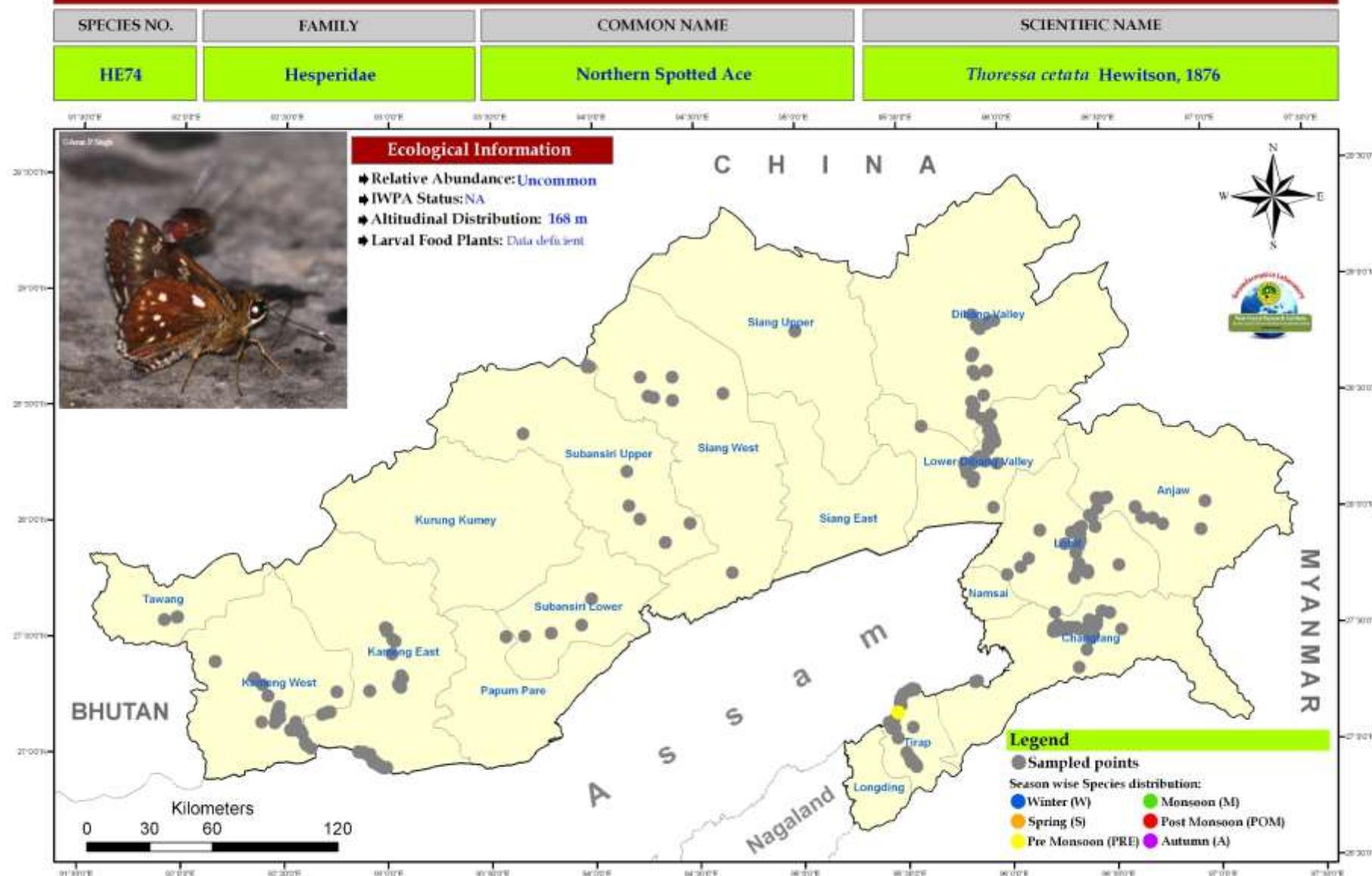
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Identification of butterflies

Identification of butterflies was carried out using comparison of images captured in the field with field guides (Evans, 1932, Wynter-Blyth, 1957, D'Abrera, 1982, 1985 & 1986, Smith, 1989, 2006, Haribal, 1992, Smith, 2006, Kehimkar 2008, Singh, 2011, Gogoi, 2012 & 2013, Sondhi et al., 2013, Sondhi & Kunte, 2014, Smetacek, 2015) and comparision of images with the specimens at the National Reference Forest Insect Collection at Forest Research Institute, Dehradun, Uttarakhand, India.

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Systematic checklist of butterflies of Arunachal Pradesh (Dec'2011-Dec'2014 & June2015).

Code	Common Name	Scientific Name
PAPILIONIDAE		
PA1	Ludlow's Bhutan Swallowtail	<i>Bhutanitis ludlowi</i> Gabriel ,1942
PA2	Green Dragontail	<i>Lamproptera meges indistincta</i> Tytler, 1912
PA3	White Dragontail	<i>Lamproptera curius curius</i> Fabricius, 1787
PA4	Golden Birdwing	<i>Troides aeacus</i> Felder & Felder, 1860
PA5	Common Birdwing	<i>Troides helena cerberus</i> Felder & Felder, 1865
PA6	Lesser Zebra	<i>Graphium macareus indicus</i> Rothschild, 1895
PA7	Great Zebra	<i>Graphium xenocles phrontis</i> de Nicéville, 1897
PA8	Spangle	<i>Papilio protenor euprotenor</i> Fruhstorfer, 1908
PA9	Paris Peacock	<i>Papilio paris paris</i> Linnaeus, 1758
PA10	Common Peacock	<i>Papilio bianor ganesa</i> Doubleday, 1842
PA11	Blue Peacock	<i>Papilio arcturus arcturus</i> Westwood, 1842
PA12	Common Windmill	<i>Byasa polyeuctes polyeuctes</i> Doubleday, 1842
PA13	Great Windmill (Sch II Part II)	<i>Byasa dasarada dasarada</i> Moore, 1857
PA14	Common Batwing	<i>Atrophaneura varuna astorion</i> Westwood, 1842
PA15	Lesser Batwing	<i>Atrophaneura aidoneus</i> Doubleday, 1845
PA16	Common Rose	<i>Pachliopta aristolochiae aristolochiae</i> Fabricius, 1775
PA17	Common Redbreast	<i>Papilio alcmenor</i> C&R Felder, 1864
PA18	Yellow Helen	<i>Papilio nephelus chaon</i> Westwood, 1845
PA19	Red Helen	<i>Papilio helenus helenus</i> Linnaeus, 1758
PA20	Great Mormon	<i>Papilio memnon agenor</i> Linnaeus, 1758
PA21	Common Mormon	<i>Papilio polytes romulus</i> Cramer, 1775
PA22	Five-bar Swordtail	<i>Graphium antiphates pompilius</i> Fabricius, 1787
PA23	Common Bluebottle	<i>Graphium sarpedon sarpedon</i> Linnaeus, 1758
PA24	Glassy Bluebottle	<i>Graphium cloanthus cloanthus</i> Westwood, 1841
PA25	Common Jay	<i>Graphium doson axion</i> Felder & Felder, 1864
PA26	Tailed Jay	<i>Graphium agamemnon agamemnon</i> Linnaeus, 1758
PA27	Veined Jay	<i>Graphium chironides chironides</i> Honrath, 1884
PA28	Common Raven	<i>Papilio castor polias</i> Jordan, 1909
PA29	Yellow Gorgon	<i>Meandrusa payeni evan</i> Doubleday, 1845
PA30	Brown Gorgon	<i>Meandrusa lachinus lachinus</i> Fruhstorfer, 1902
PA31	Tawny Mime	<i>Chilasa agestor agestor</i> Gray, 1831
PA32	Lime butterfly	<i>Papilio demoleus demoleus</i> Linnaeus, 1758
PA33	Common Clubtail	<i>Losaria coon cacharensis</i> Butler, 1885
PA34	Great Blue Mime	<i>Papilio paradoxus telearchus</i> Hewitson, 1852
PA35	Common Yellow Swallowtail	<i>Papilio machaon</i> Linnaeus, 1758
PA36	Tailed Redbreast	<i>Papilio bootes janaka</i> Westwood, 1842
PA37	Great Jay	<i>Graphium eurypylus cheronus</i> Fruhstorfer, 1903
PIERIDAE		
PI1	One-spot Grass Yellow	<i>Eurema andersonii jordani</i> Corbet & Pendlebury, 1932
PI2	Three-spot Grass Yellow	<i>Eurema blanda silhetana</i> Wallace, 1867
PI3	Common Grass Yellow	<i>Eurema hecate hecate</i> Linnaeus, 1758
PI4	Small Grass Yellow	<i>Eurema brigitta rubella</i> Wallace, 1867
PI5	Tree Yellow	<i>Gandaca harina assamica</i> Moore, 1906
PI6	White Orange Tip	<i>Ixias marianne</i> Cramer, 1779
PI7	Yellow Orange Tip	<i>Ixias pyrene familiaris</i> Butler, 1874
PI8	Great Orange Tip	<i>Hebomoia glaucippe glaucippe</i> Linnaeus, 1758
PI9	Orange Albatross	<i>Appias galba</i> Wallace, 1867
PI10	Mottled Emigrant	<i>Catopsilia pyranthe pyranthe</i> Linnaeus, 1758
PI11	Common Albatross	<i>Appias albina darada</i> Felder & Felder, 1865
PI12	Chocolate Albatross	<i>Appias lyncida eleonora</i> Boisduval, 1836
PI13	Eastern Striped Albatross	<i>Appias olfenna</i> Swinhoe, 1890
PI14	Spot Puffin	<i>Appias lalage lalage</i> Doubleday, 1842
PI15	Plain Puffin	<i>Appias indra indra</i> Moore, 1857
PI16	Pale Wanderer	<i>Pareronia avatar</i> Moore, 1857
PI17	Indian Cabbage White	<i>Pieris canidia indica</i> Evans, 1926

PI18	Large Cabbage White	<i>Pieris brassicae nepalensis</i> Doubleday, 1846
PI19	Green Veined White	<i>Pieris melete ajaka</i> , Moore 1865
PI20	Psyche	<i>Leptosia nina nina</i> Fabricius, 1793
PI21	Lesser Gull	<i>Cepora nadina nadina</i> Lucas, 1852
PI22	Common Gull	<i>Cepora nerissa nerissa</i> Fabricius, 1775
PI23	Spotted Sawtooth	<i>Prioneris thestylis thestylis</i> Doubleday, 1842
PI24	Red-Spot Sawtooth	<i>Prioneris philonome clemanthe</i> Doubleday, 1846
PI25	Yellow Jezebel	<i>Delias agostina agostina</i> Hewitson, 1852
PI26	Hill Jezebel	<i>Delias belladonna ithiela</i> Butler, 1869
PI27	Red Spot Jezebel	<i>Delias descombesi descombesi</i> Boisduval, 1836
PI28	Painted Jezebel	<i>Delias hyparete indica</i> Wallace, 1867
PI29	Red base Jezebel	<i>Delias pasithoe pasithoe</i> Linnaeus, 1767
PI30	Dark Jezebel	<i>Delias berinda boyleae</i> Butler, 1885
PI31	Pale Jezebel	<i>Delias sanaca</i> Moore 1857
PI32	Red breast Jezebel	<i>Delias acalis pyramus</i> Wallace, 1867
PI33	Great Blackvein	<i>Aporia harrietae</i> de Niceville, 1893
PI34	Tailed Sulphur	<i>Dercas verhuelli</i> Doubleday, Moore, 1905
PI35	Plain Sulphur	<i>Derca lycorias lycorias</i> Doubleday, 1842
PI36	Dark Clouded Yellow	<i>Colias fieldii fieldii</i> Ménétriés, 1855
PI37	Common Emigrant	<i>Catopsilia pomona pomona</i> Fabricius, 1775

LYCAENIDAE

LY1	Hooked Oakblue	<i>Arhopala paramuta paramuta</i> de Nicéville, 1883
LY2	Centaur oakblue	<i>Arhopala centaurus pirithous</i> Moore, 1883
LY3	Aberrant Oakblue	<i>Arhopala abseus indicus</i> Riley, 1923
LY4	Indian Oakblue	<i>Arhopala atrax</i> Hewitson, 1862
LY5	Green Oakblue	<i>Arhopala eumolphus eumolphus</i> Cramer, 1780
LY6	Common Gem	<i>Poritia hewitsoni hewitsoni</i> Moore, 1865
LY7	Powdered Oakblue	<i>Arhopala bazalus teesta</i> de Nicéville, 1886
LY8	Chocolate Royal	<i>Remelana jangala ravata</i> Moore, 1865
LY9	Bi-spot Royal	<i>Ancema ctesia ctesia</i> Hewitson, 1865
LY10	Pale Spark	<i>Sinthusa virgo</i> Elwes, 1887
LY11	Indigo Flash	<i>Rapala varuna orseis</i> Hewitson, 1863
LY12	Slate Flash	<i>Rapala manea schistacea</i> Moore, 1879
LY13	Indian Red Flash	<i>Rapala iarbus iarbus</i> Fabricius, 1787
LY14	Copper Flash	<i>Rapala pheretima petosiris</i> Hewitson, 1863
LY15	Scarlet Flash	<i>Rapala dieneces</i> Hewitson, 1878
LY16	Assam Flash	<i>Rapala tara</i> de Nicéville, 1888
LY17	Shot Flash	<i>Rapala rectivitta</i> Moore, 1879
LY18	Blue Tit	<i>Chliaria kina kina</i> Hewitson, 1869
LY19	Common Tit	<i>Hypolycaena erylus himavantus</i> Fruhstorfer, 1912
LY20	Fluffy tit	<i>Zeltus amasa amasa</i> Hewitson, 1865
LY21	Orchid Tit	<i>Chliaria othona othona</i> Hewitson, 1865
LY22	Common Imperial	<i>Cheritra freja evansi</i> Cowan, 1965
LY23	Blue imperial	<i>Ticherra acte acte</i> Moore, 1857
LY24	Cornelian	<i>Deudorix epijarbas epijarbas</i> Moore, 1857
LY25	Long-banded Silverline	<i>Spindasis lohita himalayanus</i> Moore, 1884
LY26	Silverygrey Silverline	<i>Spindasis nipalicus</i> Moore, 1884
LY27	Club Silverline	<i>Spindasis syama peguanus</i> Moore, 1884
LY28	Green Sapphire	<i>Heliochorus androcles</i> Westwood, 1851
LY29	Powdery Green Sapphire	<i>Heliochorus tamu</i> Kollar, 1844
LY30	Golden Sapphire	<i>Heliochorus brahma</i> Moore, 1857
LY31	Purple Sapphire	<i>Heliochorus epicles latilimbata</i> Fruhstorfer, 1908
LY32	Dark Sapphire	<i>Heliochorus indicus</i> Fruhstorfer, 1908
LY33	Yamfly	<i>Loxura atymnus continentalis</i> Fruhstorfer, 1912
LY34	Branded Yamfly	<i>Yasoda tripunctata tripunctata</i> Hewitson, 1863
LY35	Quaker	<i>Neopithecops zalmora zalmora</i> Butler, 1870
LY36	Blue Quaker	<i>Pithecopus fulgens fulgens</i> Doherty, 1889
LY37	Malayan	<i>Megisba malaya sikkima</i> Moore, 1884
LY38	Elbowed Pierrot	<i>Caleta elna noliteia</i> Fruhstorfer, 1918
LY39	Straight line Pierrot	<i>Caleta roxus roxana</i> de Nicéville, 1897
LY40	Common Pierrot	<i>Castalius rosimon rosimon</i> Fabricius, 1775
LY41	Veined Pierrot	<i>Tarucus callinra</i> Butler, 1886

LY42	Dark Pierrot	<i>Tarucus ananda</i> de Nicéville, 1883
LY43	Forest Pierrot	<i>Taraka hamada mendesia</i> Fruhstorfer, 1918
LY44	Bright Sunbeam	<i>Curetis bulis bulis</i> Westwood, 1851
LY45	Indian Sunbeam	<i>Curetis thetis</i> Drury, 1773
LY46	Dark Cerulean	<i>Jamides bochus bochus</i> Stoll, 1782
LY47	Common Cerulean	<i>Jamides celeno</i> Cramer, 1775
LY48	Metallic Cerulean	<i>Jamides aleクト eurysaces</i> Fruhstorfer, 1915
LY49	White Cerulean	<i>Jamides pura pura</i> Moore, 1886
LY50	Dark Grass Blue	<i>Zizeeria karsandra</i> Moore, 1865
LY51	Pale Grass Blue	<i>Pseudozizeeria maha maha</i> Kollar, 1844
LY52	Lesser Grass Blue	<i>Zizina otis otis</i> Fabricius, 1787
LY53	Eastern Grass Jewel	<i>Freyeria putli</i> Kollar, 1844
LY54	Common Hedge Blue	<i>Acytolepis puspa gisca</i> Fruhstorfer, 1910
LY55	Pale Hedge Blue	<i>Udara dilecta dilecta</i> Moore, 1879
LY56	Straight winged blue	<i>Orthomiella pontis pontis</i> Elwes, 1887
LY57	Great Spotted Blue	<i>Phengaris atroguttata</i> Oberthür, 1876
LY58	Moore's Cupid	<i>Shijimia moorei moorei</i> Leech, 1889
LY59	Spangled Plushblue	<i>Flos asoka</i> de Nicéville, 1883
LY60	Common Acacia Blue	<i>Surendra quercretorum quercretorum</i> Moore, 1857
LY61	Pointed Ciliate Blue	<i>Anthene lycaenina lycaenina</i> Felder, 1868
LY62	Common Ciliate Blue	<i>Anthene emolus emolus</i> Godart, 1823
LY63	Bhutya Line Blue	<i>Prosotas bhutea</i> de Nicéville, 1883
LY64	Common Line blue	<i>Prosotas nora ardatus</i> Moore, 1874
LY65	Tailless Line blue	<i>Prosotas dubiosa indica</i> Evans, 1925
LY66	Banded Lineblue	<i>Prosotas aluta coelestis</i> Wood-Mason & de Nicéville, 1886
LY67	Large 4 Lineblue	<i>Nacaduba pactolus</i> Felder, 1860
LY68	Silver forget me not	<i>Catochrysops panormus exiguus</i> Distant, 1886
LY69	Forget me not	<i>Catochrysops strabo strabo</i> Fabricius, 1793
LY70	Pea blue	<i>Lampides boeticus</i> Linnaeus, 1767
LY71	Zebra Blue	<i>Leptotes plinius</i> Fabricius, 1793
LY72	Pointed Line blue	<i>Lonolyce helicon merguiana</i> Moore, 1884
LY73	Opaque six line blue	<i>Nacaduba beroe gythion</i> Fruhstorfer, 1916
LY74	Dark judy	<i>Abisara fylla</i> Westwood, 1851
LY75	Tailed judy	<i>Abisara neophron neophron</i> Hewitson, 1861
LY76	Punchinello	<i>Zemeros fleygas fleygas</i> Cramer, 1780
LY77	Striped Punch	<i>Dodona adonira adonira</i> Hewitson, 1865
LY78	Orange Punch	<i>Dodona egeon egeon</i> Westwood, 1851
LY79	Tailed Punch	<i>Dodona eugenies venox</i> Fruhstorfer, 1912
LY80	Lesser Punch	<i>Dodona dipoea dipoea</i> Hewitson, 1865
LY81	Plain Hedge Blue	<i>Celastrina lavendularis limbata</i> Moore, 1879
LY82	Tiny Grass Blue	<i>Zizula hylax</i> Fabricius, 1775
LY83	Lime Blue	<i>Chilades lajus lajus</i> Stoll, 1780
LY84	Common Flash	<i>Rapala nissa nissa</i> Kollar
LY85	Plains Cupid	<i>Chilades pandava pandava</i> Horsefield, 1829
LY86	Sylhet Oakblue	<i>Arhopala silhetensis silhetensis</i> Hewitson, 1862
LY87	Glistening Cerulean	<i>Jamides elpis pseudelpis</i> Butler, 1879
LY88	Brilliant Flash	<i>Rapala sphinx</i> Fabricius, 1775
LY89	White-banded Hedge Blue	<i>Lestranicus transpectus</i> Moore, 1879
LY90	Transparent Six-Lineblue	<i>Nacaduba kurava euplea</i> Fruhstorfer, 1916
LY91	Dingy Lineblue	<i>Petrelaea dana</i> de Nicéville, 1883

NYMPHALIDAE

NY1	Chestnut Tiger	<i>Parantica sita sita</i> Kollar, 1844
NY2	Chocolate Tiger	<i>Parantica melaneus plataniston</i> Fruhstorfer, 1910
NY3	Blue Tiger	<i>Tirumala limniace</i> Cramer, 1775
NY4	Dark Blue Tiger	<i>Tirumala septentrionis septentrionis</i> Butler, 1874
NY5	Glassy Tiger	<i>Parantica aglea melanoides</i> Moore, 1883
NY6	Striped Tiger	<i>Danaus genutia genutia</i> Cramer, 1779
NY7	Striped Tiger (Pale form)	<i>Danaus genutia</i> Cramer, 1779
NY8	Magpie Crow	<i>Euploea radamanthus radamanthus</i> Fabricius, 1793
NY9	Blue Spotted Crow	<i>Euploea midamus rogenhoferi</i> Felder & Felder, 1865
NY10	Striped Blue Crow	<i>Euploea mulciber mulciber</i> Cramer, 1777
NY11	Long Branded Blue Crow	<i>Euploea algea deione</i> Westwood, 1848

NY12	Double Branded Crow	<i>Euploea sylvester hopei</i> Felder & Felder, 1865
NY13	Indian Common Crow	<i>Euploea core core</i> Cramer, 1780
NY14	Jewelled Nawab	<i>Charaxes delphis delphis</i> Doubleday, 1843
NY15	Common Nawab	<i>Charaxes athamas athamas</i> Drury, 1770
NY16	Pallid Nawab	<i>Charaxes arja arja</i> Felder & Felder, 1866
NY17	Great Nawab	<i>Charaxes eudamippus eudamippus</i> Doubleday, 1843
NY18	Variegated Rajah	<i>Charaxes kahruba</i> Moore, 1895
NY19	Tawny Rajah	<i>Charaxes bernardus hierax</i> Felder & Felder, 1866
NY20	Yellow Rajah	<i>Charaxes marmax marmax</i> Westwood, 1847
NY21	Veined Labyrinth	<i>Neope pulaha pulaha</i> Moore, 1857
NY22	Tailed Labyrinth	<i>Neope bhadra</i> Moore, 1857
NY23	Common Forester	<i>Lethe insana dinarbas</i> Hewitson, 1863
NY24	Tailed Red Forester	<i>Lethe sinorix sinorix</i> Hewitson, 1863
NY25	Scarce Red Forester	<i>Lethe distans</i> Butler, 1870
NY26	Angled Red Forester	<i>Lethe chandica flanona</i> Fruhstorfer, 1911
NY27	Common Red Forester	<i>Lethe mekara mekara</i> Moore, 1857
NY28	Bamboo Forester	<i>Lethe kansa zeugitana</i> Fruhstorfer, 1911
NY29	Dull Forester	<i>Lethe gulnihal gulnihal</i> Nicéville, 1887
NY30	Blue Forester	<i>Lethe scanda</i> Moore, 1857
NY31	Lilacfork	<i>Lethe sura</i> Doubleday, 1849
NY32	Common Woodbrown	<i>Lethe sidonis sidonis</i> Hewitson, 1863
NY33	Yellow Woodbrown	<i>Lethe nicetas nicetas</i> Hewitson, 1863
NY34	Barred Woodbrown	<i>Lethe maitrya maitrya</i> Nicéville, 1880
NY35	Bamboo Tree brown	<i>Lethe europa niladana</i> Fruhstorfer, 1911
NY36	Straight banded Tree brown	<i>Lethe verma sintica</i> Fruhstorfer, 1911
NY37	Banded tree brown	<i>Lethe confusa confusa</i> Aurivillius, 1898
NY38	Common Palmfly	<i>Elymnias hypermnestra undularis</i> Drury, 1773
NY39	Peal's Palmfly	<i>Elymnias peali</i> Wood-Mason, 1883
NY40	Blue Striped Palmfly	<i>Elymnias patna patna</i> Westwood, 1851
NY41	Spotted Palmfly	<i>Elymnias malelas</i> Hewitson, 1863
NY42	Tiger Palmfly	<i>Elymnias nesaea</i> Linnaeus, 1764
NY43	Medus Brown	<i>Orsotriaena medus medus</i> Fabricius, 1775
NY44	Striped Ringlet	<i>Ragadia crisilda crisilda</i> Hewitson, 1862
NY45	Pallid Argus	<i>Callerebia scanda opima</i> Watkins, 1927
NY46	Yellow-ringed Argus	<i>Callerebia dibangensis</i> (Roy2013)
NY47	Common Five-ring	<i>Ypthima baldus baldus</i> Fabricius, 1775
NY48	Common Four-ring	<i>Ypthima huebneri</i> Kirby, 1871
NY49	Newar Three-ring	<i>Ypthima newara newara</i> Moore, 1874
NY50	Himalayan Five-ring	<i>Ypthima sakra sakra</i> Moore, 1857
NY51	Orange Oakleaf	<i>Kallima inachus inachus</i> Boisduval, 1836
NY52	Scarce Blue Oakleaf	<i>Kallima knyvettii</i> de Nicéville, 1886
NY53	Autumn Leaf	<i>Doleschallia bisaltide indica</i> Moore, 1899
NY54	Great Eggfly	<i>Hypolimnas bolina jacintha</i> Drury, 1773
NY55	Wizard	<i>Rhinopalpa polynice birmana</i> Fruhstorfer, 1897
NY56	Chocolate Pansy	<i>Junonia iphita iphita</i> Cramer, 1779
NY57	Lemon Pansy	<i>Junonia lemonias</i> Linnaeus, 1758
NY58	Peacock Pansy	<i>Junonia almana almana</i> Linnaeus, 1758
NY59	Grey Pansy	<i>Junonia atlites atlites</i> Linnaeus, 1763
NY60	Yellow Pansy	<i>Junonia hirta hirta</i> Fabricius, 1798
NY61	Blue Pansy	<i>Junonia orithya</i> Linnaeus, 1758
NY62	Common Jester	<i>Symbrenthia lilaea khasiana</i> Moore, 1874
NY63	Himalayan Spotted Jester	<i>Symbrenthia hypselis cotanda</i> Moore, 1874
NY64	Blue-tailed Jester	<i>Symbrenthia niphanda niphanda</i> Moore, 1872
NY65	Circe	<i>Hestinalis nama nama</i> Doubleday, 1844
NY66	Courtesan	<i>Euripus nyctelius nyctelius</i> Doubleday, 1845
NY67	Angled Castor	<i>Ariadne ariadne</i> Linnaeus, 1763
NY68	Common Castor	<i>Ariadne merione tapestrina</i> Moore, 1884
Y69	Popinjay	<i>Stibochiona nicea nicea</i> Gray, 1846
NY70	Red Lacewing	<i>Cethosia biblis tisamena</i> Fruhstorfer, 1912
NY71	Leopard Lacewing	<i>Cethosia cyane cyane</i> Drury, 1770
NY72	Large Silverstripe	<i>Argynnис childreni childreni</i> Gray, 1831
NY73	Cruiser	<i>Vindula erota erota</i> Fabricius, 1793

NY74	Common Yeoman	<i>Cirrochroa tyche mithila</i> Moore, 1872
NY75	Large Yeoman	<i>Cirrochroa aoris aoris</i> Doubleday, 1847
NY76	Vagrant	<i>Vagrans egista sinha</i> Kollar, 1844
NY77	Common leopard	<i>Phalanta phalantha phalantha</i> Drury, 1773
NY78	Indian Red Admiral	<i>Vanessa indica indica</i> Herbst, 1794
NY79	Blue Admiral	<i>Kaniska canace canace</i> Linnaeus, 1763
NY80	Painted Lady	<i>Vanessa cardui</i> Linnaeus, 1758
NY81	Indian Tortoiseshell	<i>Aglais caschmirensis aesis</i> Fruhstorfer, 1912
NY82	Commander	<i>Moduza procris procris</i> Cramer, 1777
NY83	Common Sergeant	<i>Athyma perius perius</i> Linnaeus, 1758
NY84	Small Staff Sergeant	<i>Athyma zeroaca zeroaca</i> Moore, 1872
NY85	Orange Staff Sergeant	<i>Athyma cama cama</i> Moore, 1857
NY86	Staff Sergeant	<i>Athyma selenophora bahula</i> Moore, 1858
NY87	Blackvein Sergeant	<i>Athyma ranga ranga</i> Moore, 1857
NY88	Color Sergeant	<i>Athyma inara inara</i> Doubleday, 1850
NY89	Dot- dash Sergeant	<i>Athyma kanwa phorkys</i> Fruhstorfer, 1912
NY90	Himalayan Sergeant	<i>Athyma orientalis</i> Elwes, 1888
NY91	Studded Sergeant	<i>Athyma asura asura</i> Moore, 1857
NY92	Unbroken Sergeant	<i>Athyma pravara acutipennis</i> Fruhstorfer, 1906
NY93	Common Lascar	<i>Pantoporia hordonia hordonia</i> Stoll, 1790
NY94	Perak Lascar	<i>Pantoporia paraka paraka</i> Butler, 1877
NY95	Dingy Sailer	<i>Neptis pseudovikasi</i> Moore, 1899
NY96	Dingiest Sailer	<i>Neptis harita harita</i> Moore, 1874
NY97	Pallas's Sailer	<i>Neptis sappho astola</i> Moore, 1872
NY98	Small Yellow Sailer	<i>Neptis miah miah</i> Moore, 1857
NY99	Yellow Sailer	<i>Neptis ananta ochracea</i> Evans, 1924
NY100	Great Yellow Sailer	<i>Neptis radha radha</i> Moore, 1857
NY101	Great Hockey Stick Sailer	<i>Phaedyma aspasia aspasia</i> Leech, 1890
NY102	Common Sailer	<i>Neptis hylas varmona</i> Moore, 1872
NY103	Sullied Sailer	<i>Neptis clinia susruta</i> Moore, 1872
NY104	Broad-banded Sailer	<i>Neptis sankara amba</i> Moore, 1858
NY105	Spotted Sailer	<i>Neptis magadha khasiana</i> Moore, 1872
NY106	Clear Sailer	<i>Neptis nata adipala</i> Moore, 1872
NY107	Short-banded Salier	<i>Phaedyma columella ophiana</i> Moore, 1872
NY108	Knight	<i>Lebadea martha martha</i> Fabricius, 1787
NY109	Powdered Baron	<i>Euthalia monina kesava</i> Moore, 1859
NY110	Common Baron	<i>Euthalia aconthea garuda</i> Moore, 1857
NY111	Gaudy Baron	<i>Euthalia lubentina lubentina</i> Cramer, 1777
NY112	White-edged Blue Baron	<i>Euthalia phemius phemius</i> Doubleday, 1848
NY113	Bronze Duke	<i>Euthalia nara nara</i> Moore, 1859
NY114	Green Duke	<i>Euthalia sahadeva sahadeva</i> Moore, 1859
NY115	French Duke	<i>Euthalia franciae franciae</i> Gray, 1846
NY116	Blue Duke	<i>Bassarona durga durga</i> Moore, 1857
NY117	Dark Archduke	<i>Lexias dirtea khasiana</i> Swinhoe, 1893
NY118	Great Archduke?	<i>Lexias cyanipardus cyanipardus</i> Butler, 1868?
NY119	Grey Count	<i>Tanaecia lepidea sthavara</i> Fruhstorfer, 1913
NY120	Plain Earl	<i>Tanaecia jahnu jahnu</i> Moore, 1857
NY121	Common Earl	<i>Tanaecia julii</i> Lesson, 1837
NY122	Common Map	<i>Cyrestis thyodamas thyodamas</i> Boisduval, 1836
NY123	Common Maplet	<i>Chersonesia risa risa</i> Doubleday, 1848
NY124	Dark-brand Bushbrown	<i>Mycalesis mineus mineus</i> Linnaeus, 1758
NY125	Intermediate Bushbrown	<i>Mycalesis intermedia</i> Moore, 1892
NY126	Plain Bushbrown	<i>Mycalesis malsarida</i> Butler, 1868
NY127	Long branded Bushbrown	<i>Mycalesis visala visala</i> Moore, 1857
NY128	Whitebar Bushbrown	<i>Mycalesis anaxias aemate</i> Fruhstorfer, 1911
NY129	Common Bushbrown	<i>Mycalesis perseus blasius</i> Fabricius, 1798
NY130	Salmon-branded Bushbrown	<i>Mycalesis misenus misenus</i> de Nicéville, 1889
NY131	Tabby	<i>Pseudergolis wedah wedah</i> Kollar, 1844
NY132	Common Beak	<i>Libythea leptia leptia</i> Moore, 1857
NY133	Indian Purple Emperor	<i>Apatura ambica ambica</i> Kollar, 1844
NY134	Sordid Emperor	<i>Chitoria sordida sordida</i> Moore, 1865
NY135	Common Evening Brown	<i>Melanitis leda leda</i> Linnaeus, 1758

NY136	Dark Evening Brown	<i>Melanitis phedima ganapati</i> Fruhstorfer, 1908
NY137	Scarce Evening Brown	<i>Cyllogenes janetae loba</i> (subspecies nov.2012)
NY138	Small Tawny Wall	<i>Rhaphicera moorei mantra</i> Talbot, 1947
NY139	Large Tawny Wall	<i>Rhaphicera satricus satricus</i> Doubleday, 1849
NY140	French Duke (B)	<i>Euthalia franciae raja</i> Felder & Felder, 1859
NY141	Dark Catseye	<i>Zipaetis scylax scylax</i> Hewitson, 1863
NY142	Jungle Glory	<i>Thaumantis diores diores</i> Doubleday, 1845
NY143	Black Prince	<i>Rohana parisatis parisatis</i> Westwood, 1850
NY144	Brown Prince	<i>Rohana parvata parvata</i> Moore, 1857
NY145	Green Commodore	<i>Sumalia daraxa daraxa</i> Doubleday, 1848
NY146	White Commodore	<i>Parasarpa dudu dudu</i> Westwood, 1850
NY147	Bicolor commodore	<i>Parasarpa zayla zayla</i> Doubleday, 1848
NY148	Commodore	<i>Auzakia danava danava</i> Moore, 1857
NY149	Grey Commodore	<i>Bhagadatta austenia austenia</i> Moore, 1872
NY150	Manipur jungle Queen	<i>Stichophthalma sparta tytleri</i> Rothschild, 1918
NY151	Northern Jungle Queen	<i>Stichophthalma camadeva nicevillei</i> Röber, 1900
NY152	Empress	<i>Sasakia funebris funebris</i> Leech, 1891
NY153	Common Duffer	<i>Discophora sondaica zal</i> Westwood, 1851
NY154	Great Duffer	<i>Discophora timora timora</i> Westwood, 1850
NY155	Panther	<i>Neurosigma siva siva</i> Westwood, 1850
NY156	Yellow Coster	<i>Acraea issoria issoria</i> Hübner, 1818
NY157	Tiger Brown	<i>Orinoma damaris damaris</i> Gray, 1846
NY158	Tropical Fritillary	<i>Argynnis hyperbius hyperbius</i> Linnaeus, 1763
NY159	Yellow Owl	<i>Neorina hilda</i> Westwood, 1850
NY160	Eastern Courtier	<i>Sephisa chandra chandra</i> Moore, 1857
NY161	Constable	<i>Dichorragia nesimachus nesimachus</i> Doyère, 1840
NY162	Doherty's Satyr	<i>Aulocera loha</i> Doherty, 1886
NY163	Chumbi Wall	<i>Chonala masoni</i> Elwes, 1882
NY164	Chinese Bushbrown	<i>Mycalesis gotama charaka</i> Moore, 1874
NY165	Small Silverfork	<i>Zophoessa jalaurida</i> de Niceville, 1880.
NY166	Dusky Diadem	<i>Ethope himachala</i> Moore, 1857
NY167	Yellow Kaiser	<i>Penthema lisarda lisarda</i> Doubleday, 1845
NY168	Grand Duchess	<i>Euthalia patala taoana</i> Moore, 1879
NY169	Grey Baron	<i>Euthalia anosia anosia</i> Moore, 1857
NY170	Red Caliph	<i>Enispe euthymius euthymius</i> Doubleday, 1845
NY171	Watson's Bushbrown	<i>Micalessis adamsoni</i> Watson, 1897
NY172	Tytler's Sergeant	<i>Athyma whitei</i> Tytler, 1940
NY173	Bhutan Sergeant	<i>Athyma jina jina</i> Moore, 1857
NY174	Striated Satyr	<i>Aulocera saraswatti vishnu</i> Gross, 1958
NY175	Malayan Nawab	<i>Charaxes moori</i> Distant, 1883

HESPERIIDAE

HE1	Plain Banded Awl	<i>Hasora vitta indica</i> Evans, 1932
HE2	Slate Awl (1)	<i>Hasora anura china</i> Evans, 1949
HE3	Common-banded Awl	<i>Hasora chromus chromus</i> Cramer, 1780
HE4	Brown Awl	<i>Badamia exclamationis</i> Fabricius, 1775
HE5	Slate Awl (2)	<i>Hasora anura anura</i> de Nicéville, 1889
HE6	Pale Green Awlet	<i>Burara gomata gomata</i> Moore, 1865
HE7	Small green Awlet	<i>Burara amara</i> Moore, 1865
HE8	Hooked Awlking	<i>Choaspes furcata</i> Evans, 1932
HE9	Indian Awlking	<i>Choaspes benjamini japonica</i> Murray, 1875
HE10	Common Dartlet	<i>Oriens gola pseudolus</i> Mabille, 1883
HE11	Smaller Dartlet	<i>Oriens goloides</i> Moore, 1881
HE12	Indian Dart	<i>Potanthus pseudomaesa</i> Moore, 1881
HE13	Dark Palm Dart	<i>Telicota bambusae bambusae</i> Moore, 1878
HE14	Plain Palm Dart	<i>Telicota colon colon</i> Fabricius, 1775
HE15	Dart	<i>Telicota sp.</i>
HE16	Wax Dart	<i>Cupitha purreea</i> Moore, 1877
HE17	Common Spotted Flat	<i>Celaenorrhinus leucocera</i> Kollar, 1844
HE18	Marbled Flat	<i>Lobocla liliana liliana</i> Atkinson, 1871
HE19	Fulvous Pied Flat	<i>Pseudocoladenia dan fabia</i> Evans, 1949
HE20	Water Snow Flat	<i>Tagiades litigiosa litigiosa</i> Möschler, 1878
HE21	Himalayan Yellow Banded Flat	<i>Celaenorrhinus dhanada</i> Moore, 1865

HE22	Spotted Snow Flat	<i>Tagiades menaka menaka</i> Moore, 1865
HE23	Common Small Flat	<i>Sarangesa dasahara dasahara</i> Moore, 1865
HE24	Suffused Snow Flat	<i>Tagiades gana athos</i> Plötz, 1884
HE25	Common Snow Flat	<i>Tagiades japerus ravi</i> Moore, 1865
HE26	Dusky yellow breasted flat	<i>Gerosis phisara phisara</i> Moore, 1884
HE27	Dark Yellow Banded Flat	<i>Celaenorrhinus aurivittata aurivittata</i> Moore, 1878
HE28	Multi-spotted Snow Flat	<i>Tagiades parra gala</i> Evans, 1949
HE29	Tytlers Multi-spotted Flat	<i>Celaenorrhinus ratna tytleri</i> Evans, 1926
HE30	Straight Swift	<i>Parnara guttata</i> Bremer d Grey, 1852
HE31	Large Branded Swift	<i>Pelopidas sinensis</i> Mabille, 1877
HE32	Bevans Swift	<i>Borbo bevani</i> Moore, 1878
HE33	Small branded Swift	<i>Pelopidas mathias mathias</i> Fabricius, 1798
HE34	Conjoined Swift	<i>Pelopidas conjuncta conjuncta</i> Herrich-Schäffer, 1869
HE35	Yellow Spot Swift	<i>Polytremis eltola eltola</i> Hewitson, 1869
HE36	Great Swift	<i>Pelopidas assamensis</i> de Nicéville, 1882
HE37	Contiguous Swift	<i>Polytremis lubricans lubricans</i> Herrich-Schäffer, 1869
HE38	Atkinson's Bob	<i>Arnetta atkinsoni</i> Moore, 1878
HE39	Chestnut Bob	<i>Iambrix salsala salsala</i> Moore, 1865
HE40	Forest Bob	<i>Scobura isota</i> Swinhoe, 1893
HE41	Common Banded Demon	<i>Notocrypta paralysos asawa</i> Fruhstorfer, 1911
HE42	Chocolate Demon	<i>Ancistroides nigrita diocles</i> Moore, 1865
HE43	Restricted Demon	<i>Notocrypta curvifascia curvifascia</i> Felder & Felder, 1862
HE44	Grass Demon	<i>Udaspes folus</i> Cramer, 1775
HE45	Rounded Palm Red Eye	<i>Erionota torus</i> Evans, 1941
HE46	Common red eye	<i>Matapa aria</i> Moore, 1865
HE47	Coon	<i>Psolos fuligo</i> Mabille, 1876
HE48	Tiger Hopper	<i>Ochus subvittatus subradiatus</i> Moore, 1878
HE49	Tawny Angle	<i>Ctenoptilum vasava vasava</i> Moore, 1865
HE50	Chestnut Angle	<i>Odontoptilum angulata angulata</i> Felder, 1862
HE51	Chequered Ace	<i>Thoressa hyrie</i> de Nicéville, 1891
HE52	Moores' Ace	<i>Halpe porus</i> Mabille, 1876
HE53	Tufted Ace	<i>Sebastonyma dolopia</i> Hewitson, 1868
HE54	Light Straw Ace	<i>Pithauria stramineipennis</i> Wood-Mason & de Nicéville, 1886
HE55	Long Banded Ace	<i>Halpe zola</i> Evans, 1937
HE56	Little banded Swift	<i>Pelopidas sinensis</i> Mabille, 1877
HE57	Yellow Flat	<i>Mooreana trichoneura pralaya</i> Moore, 1865
HE58	Veined Scrub Hopper	<i>Aeromachus stigmata stigmata</i> Moore, 1878
HE59	Spotted Demon	<i>Notocrypta feisthamelii</i> Boisduval, 1832
HE60	Extra Forest Bob	<i>Scobura cephalia</i> Hewitson, 1876
HE61	Paint brush Swift	<i>Baoris farri</i> Moore, 1878
HE62	Purple Swift	<i>Caltoptis tulsi tulsi</i> de Nicéville, 1883
HE63	Green Awlet	<i>Burara vasutana</i> Moore, 1865
HE64	Yellow fringed Swift	<i>Caltoptis aurociliata</i> Elwes & Edwards, 1897
HE65	Indian Ace	<i>Halpe homolea aucma</i> Swinhoe, 1923
HE66	Spotted Red-eye	<i>Pudicitia pholus</i> de Nicéville, 1889
HE67	Himalayan Swift	<i>Polytremis discreta discreta</i> Elwes & Edwards, 1897
HE68	Luca's Ace	<i>Sovia lucasii magna</i> Evan's, 1932
HE69	Brown Bush Bob	<i>Pedesta pandita</i> de Nicéville, 1885
HE70	Forest Hopper	<i>Astictopterus jama olivascens</i> Moore, 1878
HE71	Restricted Spotted Flat	<i>Celaenorrhinus putra</i> Moore, 1865
HE72	Greenish Palm Dart	<i>Telicota ancilla horisha</i> Evans, 1934
HE73	Ceylon's Swift	<i>Parnara bada bada</i> Moore, 1878
HE74	Northern Spotted Ace	<i>Thoressa cetata</i> Hewitson, 1876



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BUTTERFLY ATLAS OF ARUNACHAL PRADESH, INDIA

The Atlas covers 414 species of butterflies depicted in 627 colour images found across the state of Arunachal Pradesh. GIS based spatial distribution maps are given for each taxa along with ecological information on their seasonality, relative abundance, altitudinal distribution, Indian Wildlife (Protection) Act, 1972 status, larval food plants, besides forest type association of butterfly habitats.

