TEAM Vegetation - Trees & Lianas Monitoring Protocol Metadata

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The TEAM Network of Conservation International funds and coordinates the systematic monitoring of biodiversity through a network of tropical field stations, to quantify and forecast changes in biodiversity at local, regional and global scales. TEAM aims to understand both the underlying dynamics of biodiversity, and the responses of biodiversity to major drivers of change, particularly changes in climate and land use/land cover. The TEAM Network members recognize that achieving this goal requires the coordination of an integrated and systematic sampling program at multiple spatial and temporal scales. Further, to maximize the utility of TEAM data for change detection and for informing the development of sound conservation strategies, rapid dissemination of TEAM data to the global scientific and conservation communities is crucial. Thus, the TEAM Network is committed to making TEAM data globally accessible to the scientific and conservation communities and to the general public.

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"All data in this publication were provided by the Tropical Ecology Assessment and Monitoring (TEAM) Network, a collaboration between Conservation International, the Missouri Botanical Garden, the Smithsonian Institution, and the Wildlife Conservation Society, and partially funded by these institutions, the Gordon and Betty Moore Foundation, and other donors."

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If to Conservation International Foundation

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General Information

Vegetation - Trees & Lianas Metadata Version 1.5. This is a Metadata File (**Vegetation - Trees & Lianas-Metadata.1.5.pdf**) for the TEAM Vegetation - Trees & Lianas Monitoring Protocol data. Data are available for download at the TEAM Network website (www.teamnetwork.org). The purpose of this Metadata File is to provide the data user with more information to help them understand and utilize the data sets they download. Suggestions on improving the format of the Metadata File and the query output format can be sent to team-webmaster@teamnetwork.org.

Abstract

The Tropical Ecology, Assessment and Monitoring (TEAM) Network is a program in the program coordinated from within the Science and Knowledge Division at Conservation International (CI). The TEAM Network's mission is to monitor long-term trends in biodiversity through a network of tropical field stations, providing an early warning system on the status of biodiversity that can effectively guide conservation action. The TEAM Network conducts research through a global network of field stations in tropical and sub-tropical forests using a standardized methodology. To study trees the TEAM Network will focus on both, tropical forest assessment and monitoring. The assessment will be part of the whole vegetation assessment that primarily addresses differences among sites within a region or across regions. Sampling will be conducted in both tropical and subtropical forested regions, focusing on the following points: (1) Difference of forest biomass among forests, (2) Difference of forest structure, growth and turnover among forests and (3) Difference of forest community composition among different forests. Monitoring will be concerned with trends and fluctuations over time within sites, looking for correlation between the indicators and local process (human disturbance) as well as global processes (atmospheric and climate trends and fluctuations). Monitoring will focus on how do these vegetation Protocol is available here: http://www.teamnetwork.org/protocols/bio/vegetation

Keywords

Aboveground Biomass Forest Structure Forest Dynamics and Turnover Phenology Community Composition

TEAM Network Partner Institutions

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Geographic Coverage

The TEAM Vegetation Monitoring Protocol (http://www.teamnetwork.org/protocols/bio/vegetation) describes the spatial arrangement for tree and liana measurements. Individual tree and liana latitude and longitudes Cartesian coordinates as well a latitude and longitude (Datum: WGS84) locations when possible. The latitude and longitude coordinates for the 1ha plots at each TEAM Site are listed in the table below. Each column has the following definition: Name: a two letter code for the protocol, a 2-3 letter code for the TEAM Site and a number for the 1ha plot; 1ha Plot Coordinate: defines the particular corner of the 1ha plot (i.e., the 0,0 corner as specified in the protocol); Longitude: Datum - WGS84; Latitude: Datum - WGS-84; Collection Date: Date when the 1ha Plot Coordinate was collected.

Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate
VG-BCI-6	0,0	-79.74438574165106	9.15660995990038	2012-03-22
VG-BCI-3	0,0	-79.77443662472069	9.200405236333609	2012-03-23
VG-BCI-1	0,0	-79.85346715897322	9.105386976152658	2012-04-09
VG-BCI-4	0,0	-79.74066954106092	9.168865140527487	2012-03-28
VG-BCI-2	0,0	-79.86121916212142	9.158292459324	2012-05-01
VG-BCI-5	0,0	-79.71263433806598	9.146816963329911	2012-03-28
Bukit Barisan	TEAM Site			
Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate
VG-BBS-2	0,0	104.40137917	-5.67447863	2010-09-30
VG-BBS-3	0,0	104.40137917	-5.61628793	2010-09-30
VG-BBS-4	0,0	104.4828133	-5.64433537	2010-09-30
VG-BBS-5	0,0	104.43636926	-5.62738457	2010-09-30
VG-BBS-6	0,0	104.49453531	-5.68786293	2010-09-30
VG-BBS-1	0,0	104.41399067	-5.64635684	2010-09-30
Bwindi Imper	etrable Forest TEAM	Site	L L	
Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate
VG-BIF-1	0,0	29.6970333	-0.9132334	2009-11-23
VG-BIF-2	0,0	29.7260666	-0.8930833	2009-11-23
VG-BIF-3	0,0	29.7063833	-1.0125	2009-11-23
VG-BIF-4	0,0	29.6390166	-1.0246833	2009-11-23
VG-BIF-5	0,0	29.7606833	-1.0573	2009-11-23
VG-BIF-6	0,0	29.7177333	-1.0953	2009-11-23
Caxiuanã TE	AM Site		L I	
Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate
VG-CAX-1	0,0	-51.45916	-1.70781	2011-05-27
VG-CAX-6	0,0	-51.4309	-1.72358	2011-05-27
VG-CAX-5	0,0	-51.59084	-1.78128	2011-05-27
VG-CAX-4	0,0	-51.52048	-1.75391	2011-05-27
VG-CAX-3	0,0	-51.51098	-1.73408	2011-05-27
VG-CAX-2	0,0	-51.48499	-1.72963	2011-05-27
Central Surin	ame Nature Reserve T	EAM Site	L	
Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate
VG-CSN-2	0,0	-56.1860075	4.6969741	2011-01-11
VG-CSN-1	0,0	-56.1877726	4.7380984	2011-01-11
VG-CSN-5	0,0	-56.20514	4.8133699	2011-01-11
VG-CSN-3	0,0	-56.1183967	4.8128766	2011-01-11
Cocha Cashu	- Manu National Park	TEAM Site	<u> </u>	
Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate
VG-COU-1	0,0	-71.3978222	-11.8870005	2011-09-13
VG-COU-2	0,0	-71.4249016	-11.8993577	2011-09-13
VG-COU-3	0.0	-71.2813285	-11.9371996	2011-09-13

Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate	
VG-COU-4	0,0	-71.4024744	-11.904708	2011-09-13	
VG-COU-5	0,0	-71.4086283	-11.8784896	2011-09-13	
VG-COU-6	0,0	-71.2692159	-11.965529	2011-09-13	
Korup Nation	al Park TEAM Site				
Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate	
VG-KRP-1	0,0	8.85385	5.06505	2011-11-09	
VG-KRP-2	0,0	8.86735	5.08098	2011-11-09	
VG-KRP-3	0,0	8.84137	5.07968	2011-11-09	
VG-KRP-4	0,0	8.83203	5.06102	2011-11-09	
VG-KRP-5	0,0	8.8376	5.03708	2011-11-09	
VG-KRP-6	0,0	8.85833	5.03741	2011-11-09	
Manaus TEA					
Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate	
VG-MAS-1	0,0	-59.9468382	-2.9289898	2010-11-30	
VG-MAS-2	0,0	-59.9053463	-2.9698361	2010-11-30	
VG-MAS-3	0,0	-59.9015673	-2.4066878	2010-11-30	
VG-MAS-4 VG-MAS-5	0,0	-59.794235 -60.2098673	-2.4313394	2010-11-30 2010-11-30	
VG-MAS-5 VG-MAS-6	0,0 0,0	-60.2098673	-2.6185037 -2.5975461	2010-11-30	
	,	-00.1073700	-2.37/3401	2010-11-30	
Nam Kading		- -	1 -		
Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate	
VG-NAK-1	0,0	104.27965	18.2985	2010-03-09	
VG-NAK-2 VG-NAK-3	0,0 0,0	104.27967 104.15525	18.2985 18.39701	2010-03-24 2009-12-09	
VG-NAK-3 VG-NAK-4	0,0	104.15525	18.36779	2009-12-09	
VG-NAK-4 VG-NAK-5	0,0	104.10645	18.43812	2009-11-10	
VG-NAK-6	0,0	104.12318	18.40492	2010-02-13	
	ki TEAM Site	101.12510	10.101/2	2010 01 10	
		T	T a d'das Ja		
Name VG-NNN-4	1ha Plot Coordinate 0,0	Longitude 16.4659089	Latitude 2.4014756	CollectionDate 2010-03-11	
VG-NNN-5	0,0	16.4283399	2.35894	2010-03-11	
VG-NNN-6	0,0	16.360348	2.3551752	2010-03-11	
		16.6207812	2.6572454	2010-03-11	
VG-NNN-1 VG-NNN-3	0,0 0,0 0,0	16.6207812 16.5348413	2.6572454 2.614436	2010-03-11 2010-03-11	
VG-NNN-1	0,0				
VG-NNN-1 VG-NNN-3 VG-NNN-2	0,0 0,0 0,0	16.5348413	2.614436	2010-03-11	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest	0,0 0,0 0,0 Reserve TEAM Site	16.5348413 16.5537878	2.614436 2.6397392	2010-03-11 2010-03-11	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest	0,0 0,0 0,0	16.5348413	2.614436	2010-03-11	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest J Name	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate	16.5348413 16.5537878 Longitude	2.614436 2.6397392 Latitude	2010-03-11 2010-03-11 CollectionDate	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest J Name VG-PSH-1 VG-PSH-2 VG-PSH-3	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845	2010-03-11 2010-03-11 CollectionDate	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest 1 Name VG-PSH-1 VG-PSH-1 VG-PSH-2 VG-PSH-3 VG-PSH-4	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013	2010-03-11 2010-03-11 CollectionDate 	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest 1 Name VG-PSH-1 VG-PSH-1 VG-PSH-3 VG-PSH-4 VG-PSH-6	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628	2010-03-11 2010-03-11 CollectionDate 	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest J Name VG-PSH-1 VG-PSH-2 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013	2010-03-11 2010-03-11 CollectionDate 	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest 1 Name VG-PSH-1 VG-PSH-1 VG-PSH-3 VG-PSH-4 VG-PSH-6	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.9806	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189	2010-03-11 2010-03-11 CollectionDate 	
VG-NNN-1 VG-NNN-2 Pasoh Forest J Name VG-PSH-1 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana 7 Name	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0 ,0 TEAM Site 1ha Plot Coordinate	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude	2010-03-11 2010-03-11 CollectionDate CollectionDate	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest I Name VG-PSH-1 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana 7 Name VG-RNF-1	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,00 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,00 0,00 0,00 0,00 0,00 0,00 000 0000000000000	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295	2010-03-11 2010-03-11 CollectionDate CollectionDate 2010-12-29	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest I Name VG-PSH-1 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana 7 Name VG-RNF-1 VG-RNF-1	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866	2010-03-11 2010-03-11 CollectionDate CollectionDate 2010-12-29 2010-12-29	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest I Name VG-PSH-1 VG-PSH-3 VG-PSH-4 VG-PSH-4 VG-PSH-5 Ranomafana 7 Name VG-RNF-1 VG-RNF-1 VG-RNF-2 VG-RNF-3	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866 -21.21793	2010-03-11 2010-03-11 CollectionDate CollectionDate 2010-12-29 2010-12-29 2010-12-29	
VG-NNN-1 VG-NNN-2 Pasoh Forest J Name VG-PSH-1 VG-PSH-2 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana 7 Name VG-RNF-1 VG-RNF-1 VG-RNF-2 VG-RNF-3 VG-RNF-3	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841 47.4533218	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866 -21.21793 -21.2219612	2010-03-11 2010-03-11 CollectionDate CollectionDate 2010-12-29 2010-12-29 2010-12-29 2010-12-29	
VG-NNN-1 VG-NNN-2 Pasoh Forest J Name VG-PSH-1 VG-PSH-2 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana 7 Name VG-RNF-1 VG-RNF-1 VG-RNF-2 VG-RNF-3 VG-RNF-3	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841 47.4533218 47.40719	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866 -21.21793 -21.2219612 -21.30393	2010-03-11 2010-03-11 CollectionDate CollectionDate 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest VG-PSH-1 VG-PSH-2 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana VG-RNF-1 VG-RNF-1 VG-RNF-2 VG-RNF-3 VG-RNF-4 VG-RNF-4 VG-RNF-5 VG-RNF-6	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0 ,0 TEAM Site 1ha Plot Coordinate 0,0 0 ,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841 47.4533218	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866 -21.21793 -21.2219612	2010-03-11 2010-03-11 CollectionDate CollectionDate 2010-12-29 2010-12-29 2010-12-29 2010-12-29	
VG-NNN-1 VG-NNN-2 VG-NNN-2 Pasoh Forest J VG-PSH-1 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana 7 VG-RNF-1 VG-RNF-1 VG-RNF-2 VG-RNF-3 VG-RNF-4 VG-RNF-5 VG-RNF-6 Udzungwa TE	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841 47.4533218 47.40719 47.4457188	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866 -21.21793 -21.2219612 -21.30393 -21.3658431	2010-03-11 2010-03-11 CollectionDate CollectionDate 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest J VG-PSH-1 VG-PSH-2 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana 7 VG-RNF-1 VG-RNF-1 VG-RNF-3 VG-RNF-3 VG-RNF-4 VG-RNF-5 VG-RNF-6 Udzungwa TH Name	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841 47.4533218 47.40719 47.4457188 Longitude	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866 -21.21793 -21.2219612 -21.30393 -21.3658431 Latitude	2010-03-11 2010-03-11 CollectionDate CollectionDate 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29	
VG-NNN-1 VG-NNN-3 VG-NNN-2 Pasoh Forest J Name VG-PSH-1 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana 7 Name VG-RNF-1 VG-RNF-1 VG-RNF-3 VG-RNF-3 VG-RNF-3 VG-RNF-4 VG-RNF-5 VG-RNF-6 Udzungwa TH Name VG-UDZ-1	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841 47.4533218 47.40719 47.4457188 Longitude 36.8860650460001	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866 -21.21793 -21.2219612 -21.30393 -21.3658431 Latitude -7.71113257399998	2010-03-11 2010-03-11 CollectionDate CollectionDate 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29	
VG-NNN-1 VG-NNN-2 VG-NNN-2 Pasoh Forest I VG-PSH-1 VG-PSH-2 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana 7 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-3 VG-RNF-3 VG-RNF-3 VG-RNF-3 VG-RNF-4 VG-RNF-5 VG-RNF-5 VG-RNF-6 Udzungwa TE Name VG-UDZ-1 VG-UDZ-1	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841 47.4533218 47.40719 47.4457188 Longitude 36.8860650460001 36.873368214	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.21793 -21.219612 -21.30393 -21.3658431	2010-03-11 2010-03-11 CollectionDate CollectionDate 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29	
VG-NNN-1 VG-NNN-2 Pasoh Forest J Name VG-PSH-1 VG-PSH-2 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-6 VG-PSH-5 Ranomafana 7 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-3 VG-RNF-3 VG-RNF-3 VG-RNF-4 VG-RNF-5 VG-RNF-5 VG-RNF-6 Udzungwa TE Name VG-UDZ-1 VG-UDZ-1 VG-UDZ-3	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841 47.4533218 47.40719 47.4457188 Longitude 36.8860650460001 36.873368214 36.8956057340001	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866 -21.21793 -21.2219612 -21.30393 -21.3658431 Latitude -7.71113257399998 -7.69493397499997 -7.77724184299996	2010-03-11 2010-03-11 CollectionDate -	
VG-NNN-1 VG-NNN-2 Pasoh Forest I Name VG-PSH-1 VG-PSH-3 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-5 Ranomafana 7 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-2 VG-RNF-3 VG-RNF-3 VG-RNF-3 VG-RNF-4 VG-RNF-5 VG-RNF-5 VG-RNF-5 VG-RNF-5 VG-RNF-5 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-UDZ-1 VG-UDZ-1 VG-UDZ-3 VG-UDZ-3	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841 47.4533218 47.40719 47.4457188 Longitude 36.8860650460001 36.873368214 36.8956057340001 36.8707778880001	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866 -21.21793 -21.2219612 -21.30393 -21.3658431 Latitude -7.71113257399998 -7.69493397499997 -7.77724184299996 -7.75978012899998	2010-03-11 2010-03-11 CollectionDate 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2010-12-29 2009-11-28 2009-11-28 2009-11-28 2009-11-28	
VG-NNN-1 VG-NNN-2 Pasoh Forest J Name VG-PSH-1 VG-PSH-2 VG-PSH-3 VG-PSH-4 VG-PSH-6 VG-PSH-6 VG-PSH-5 Ranomafana 7 VG-RNF-1 VG-RNF-1 VG-RNF-1 VG-RNF-3 VG-RNF-3 VG-RNF-3 VG-RNF-4 VG-RNF-5 VG-RNF-5 VG-RNF-6 Udzungwa TE Name VG-UDZ-1 VG-UDZ-1 VG-UDZ-3	0,0 0,0 0,0 Reserve TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 TEAM Site 1ha Plot Coordinate 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	16.5348413 16.5537878 Longitude 102.18362 102.33218 102.33264 101.97991 101.97735 101.9806 Longitude 47.5114 47.52052 47.410841 47.4533218 47.40719 47.4457188 Longitude 36.8860650460001 36.873368214 36.8956057340001	2.614436 2.6397392 Latitude 2.58797 3.05078 3.09845 3.11013 3.1628 3.19189 Latitude -21.12295 -21.17866 -21.21793 -21.2219612 -21.30393 -21.3658431 Latitude -7.71113257399998 -7.69493397499997 -7.77724184299996	2010-03-11 2010-03-11 CollectionDate -	

Name	1ha Plot Coordinate	Longitude	Latitude	CollectionDate
VG-VB-1	0,0	-84.0200572927	10.41687655	2009-01-28
VG-VB-2	0,0	-84.037524144	10.403171239	2008-06-05
VG-VB-3	0,0	-84.0476422415	10.3160400918	2008-05-08
VG-VB-4	0,0	-84.0572281091	10.3447163271	2008-05-30
VG-VB-5	0,0	-84.1068322137	10.1823432219	2009-05-26
VG-VB-6	0,0	-84.1080677857	10.1351986936	2009-05-25
VG-VB-7	0,0	-84.0552816144	10.2678697806	2008-10-21
VG-VB-8	0,0	-84.0850028149	10.2403425582	2009-11-13
VG-VB-9	0,0	-84.00985772	10.43214216	2010-05-28
	0,0 himillén National Park		10.43214216	2010-05-28
	,		10.43214216 Latitude	2010-05-28 CollectionDate
Yanachaga Cl	himillén National Park	TEAM Site		
Yanachaga Cl Name	himillén National Park 1ha Plot Coordinate	TEAM Site Longitude	Latitude	
Yanachaga Cl Name VG-YAN-1	himillén National Park 1ha Plot Coordinate 0,0	TEAM Site Longitude -75.2503069	Latitude -10.35049162	CollectionDate
Yanachaga Cl Name VG-YAN-1 VG-YAN-2	himillén National Park Iha Plot Coordinate 0,0 0,0	Longitude -75.2503069 -75.25653021	Latitude -10.35049162 -10.3806513	CollectionDate
Yanachaga Cl Name VG-YAN-1 VG-YAN-2 VG-YAN-3	himillén National Park 1ha Plot Coordinate 0,0 0,0 0,0 0,0	TEAM Site Longitude -75.2503069 -75.25653021 -75.28502173	Latitude -10.35049162 -10.3806513 -10.35418209	CollectionDate

Temporal Coverage

The temporal period for the TEAM Network Vegetation - Trees & Lianas Data Set is described below. This is the maximum temporal range. TEAM Site specific temporal ranges can be determined directly from the data.

Begin2002-11-13End2012-08-22

Methods Information

DATA COLLECTION

One (1) ha plots The one (1) ha plot, a 100m by 100m square lot, is a permanent long-term monitoring vegetation plot. The one ha plots are part of the TEAM standardized protocol and serve to monitor aboveground biomass, forest growth and dynamics, forest structure and composition. A summarized description of the steps followed to study vegetation in the 1 ha plots are: 1. Randomly locate the 1 ha plot within the designated research areas. 2. Establishment of the 1 ha plot. 3. First census of all trees 10cm or greater and lianas within the 1 ha plots. 4. Collection of voucher specimens. 5. Re-census of the 1 ha plot (calibrate the diameter measurer and add the new recruits). A detailed methodology is described in the Vegetation Monitoring Protocol that can be found at: http://www.teamnetwork.org/protocols/bio/vegetation.

DATA RECORDING

The following forms have been designed to collect field data: 1. First census 2. New recruits 3. Re-census 4. Moving the POM The forms can be found at the TEAM Network site: http://www.teamnetwork.org. Field station herbaria are used as repository for voucher specimens from the TEAM protocol plots.

The complete TEAM Monitoring Vegetation - Trees & Lianas Protocol document can be found at: http://www.teamnetwork.org/protocols/bio/vegetation.

DATA MANAGEMENT

Refer to the "Data Management Protocol" and the "TEAM Monitoring Vegetation - Trees & Lianas Protocol" for data management topics related to the TEAM Vegetation - Trees & Lianas Protocol.

Attribute Value	Definition	Data Type	Example
ID	Unique number to identify each data record in the database. This number provides a unique identifier for each record but is not necessarily sequential and should not be used for maintaining records across database versions.	numeric	55
Observation Date	Date of tree and liana observation. {YYYY-MM- DD}	date	2002-11-13
Family	Tree systematics.	string	Annon
Genus	Tree systematics.	string	Bocageopsis
Species	Tree systematics.	string	NA
Names of Collectors	Name of the person who collected	string	S de Almeida
Diameter	Tree diameter measurement. {cm} Data collected in Vegetation Protocol Version 1.3 do not meet these standards.	numeric	11.5
POM Height	Height at which the Diameter measurement was taken. {m} Data collected in Vegetation Protocol Version 1.3 do not meet these standards.	numeric	1.3
New Diameter	The new DBH associated with a new POM Height {cm} Data collected in Vegetation Protocol Version 1.3 do not meet these standards.	numeric	10.85
New POM Height	A new POM Height is needed if the POM the previous census is no longer appropriate. {m} Data collected in Vegetation Protocol Version 1.3 do not meet these standards.	numeric	1.85
Condition Codes	Codes describing the tree and measurement observation:	string	J,B
	B: Buttresses		
	C: Stilt Roots		
	D: Damaged or Deformed		
	E: Estimated Diameter		
	F: Fluted		
	G: Prostrate		
	H: Branched Trunk		
	I: Uprooted		
	J: Inclined		
	K: Dead		
	L: Ladder Used		
	N: Trunk with Regrowth		
	O: Broken at the Base		
	P: Broken at the Trunk		
	R: Partial Crown Loss		
	S: Missing Bark		
	T: Tree Dying		1

	V: Current Measurement Less Than Last Year		
	Data collected in Vegetation Protocol Version 1.3 do not meet these standards.		
Sampling Period	There is 1 Sampling Periods in a calendar year for the Tree/Liana Protocol. The Sampling Periods are the year sampling occurred plus the number of the sampling period. For the first Sampling Period in 2007 the Sampling Period is "2007.01".	numeric	2007.01
Comments	Any comments on the observation or identification.	string	Parts of tree collected for identification
Data Level	Data Levels are currently being established for each TEAM Network product. Current datasets being distributed are Level 0 which implies that all data being distributed meet the minimum data standards defined in this metadata document as well as additional QA/QC rules applied to incoming data. We will expand the Data Levels and corresponding definitions as more synthetic products are developed and additional data curation occur.	string	Level 0
Sampling Unit Name	Unique code to identify the tree or liana point(Protocol-Site-Block-TreeNumber or Protocol- Site-Block-LianaNumber). Note that Sampling Unit Names with a two digit decimal denote trees that have multiple stems. (e.g. VT-CX-1-3.01, VT-CX-1-3.02, etc).	string	VT-CX-6-001
Latitude	Latitude of the tree or Liana Point in decimal degrees.	numeric	1.78459044
Longitude	Longitude of the tree or Liana Point in decimal degrees.	numeric	-51.58924692
Spatial Method	Indicates whether the latitude and Longitude were collected via GPS (Collected) or were derived (Derived) analytically from the Block corner coordinates. {Collected, Derived}	numeric	Derived
Subplot Number	Number of the subplot.	numeric	10
1ha Plot X Coordinate	Point of intersection {in the X axis} where the tree was observed in the 1ha plot. {m}	numeric	2.95
1ha Plot Y Coordinate	Point of intersection {in the Y axis} where the tree was observed in the 1ha plot. {m}	numeric	2.81
Tree Number	Unique tree identification number.	numeric	1
Site Name	Name of TEAM Site.	string	Volcan Barva
1ha Plot Number	Number of the 1 ha plot.	numeric	6
Protocol Version	Name and number of the protocol used during the observation.	string	Vegetation Protocol 3.1
Data Set Creator Institution	Institution that produced the Data Set.	string	Museu Paraense Emilio Goeldi
Data Set Creator Scientist	Individual that produced the Data Set.	string	Samuel de Almeida
Data Set Contact	The primary contact for the Data Set. The Data Set Contacts email and other contact information	string	Museu Paraense Emilio Goeldi

	can be found at: http://www.teamnetwork.org/about/ members		