



The Palawan Oil Palm Geotagged Report 2013

PART II

(Samples of geocoded photos of oil palm locations and impacted areas)

ALDAW (Ancestral Land/Domain Watch)
member of

The ICCA
Consortium



GEO-REFERENCED MISSION'S FINDINGS

In a photographic context, *geotagging* is the process of associating photos with specific geographic locations using GPS coordinates. In this report, geotagging is used as a synonym for geocoding. During ALDAW field research, GPS coordinates were obtained through the use of a professional device connected to the camera's hot shoe. Photos were taken between 2009 and 2012, during field reconnaissance in the Municipalities of Sofronio Española, Quezon, Aborlan and Rizal, Province of Palawan (the Philippines).

The geotagged images have been loaded into a geo-aware application and displayed on satellite Google map. The actual 'matching' of GPS data to photographs has revealed that, in specific locations, oil palm plantations are expanding at the expenses of primary and secondary forest and are competing with pre-existing cultivations (coconut groves, fruit tress, wet-rice, etc). The conversion of productive paddy land and forest into oil palm plantations is particularly evident in the Municipality of Quezon. Oil palm plantations have also expanded in areas used by indigenous people for the cultivation of local varieties of upland rice, root crops and fruit trees.

The fencing of large areas of oil palm plantations makes it difficult for local communities to reach their upland fields and forest. Geotagged evidences have also revealed the exact location where commonly used NTFPs, such as *huri* palms (*Corypa elata*) and bamboos, are being destroyed through massive land clearing by oil palm companies. Geocoded photos, such as those included in this report, also provide indications on the location of rivers and freshwater sources that are being incorporated into oil palm plantations and that are likely to become polluted through the use of pesticides and fertilizers. These freshwater sources provide potable water for local communities and some of them are essential for the maintenance of community-based dams.

Only a limited selection of geotagged photographs, taken during the mission, has been included in this report, additional images can be made available upon request. The geocoded photos herein included provide visual evidence on the damage caused by oil palm plantations and also on participatory geographic information systems and technologies used by ALDAW. Individual photos have been inserted in thematic boxes containing basic descriptions and their positions on Google Earth satellite map.

THEMATIC PHOTOS WITH GPS COORDINATES

Evidences of oil palm encroachment on forest



**Massive forest clearing in barangay Tagusao (Municipality of Quezon)
Note the road pushing into a forested hill**

Load GPS Data and Photos Edit Photo Data

Pictures	Latitude
ALDAW-3027	+9.122993 N
ALDAW-3029	
ALDAW-3031	Longitude
ALDAW-3032	+117.863304 E
ALDAW-3053	
ALDAW-3055	Altitude
ALDAW-3068	
ALDAW-3072	
ALDAW-3077	City
ALDAW-3079	Quezon
ALDAW-3081	Province/State
ALDAW-3082	Province of Palawan
ALDAW-3086	Country
ALDAW-3088	Philippines
ALDAW-3090	Description
ALDAW-3125	Oil palm in Palawan;
ALDAW-3128	
ALDAW-3134	Comments
	Large areas of forested land are cleared illegally by the palm oil company in order to plant oil palms.

Remove Picture

Change file names to:

Full View

ALDAW-3134
Tue 28 Jun 2011 08:18:00

GPS Store Camera Store Prints

Map Satellite Hybrid

Load GPS Data and Photos
Edit Photo Data

Pictures

- ALDAW-3029
- ALDAW-3031
- ALDAW-3032
- ALDAW-3053
- ALDAW-3055
- ALDAW-3068
- ALDAW-3072
- ALDAW-3077
- ALDAW-3079
- ALDAW-3081
- ALDAW-3082
- ALDAW-3086
- ALDAW-3088
- ALDAW-3090
- ALDAW-3125
- ALDAW-3128
- ALDAW-3134
- ALDAW-3137
- ALDAW-3138
- ALDAW-3142
- ALDAW-3143

Remove Picture

Change file names to:

Change

Latitude: N

Longitude: E

Altitude:

City:


Province/State:

Country:

Description:

Comments:

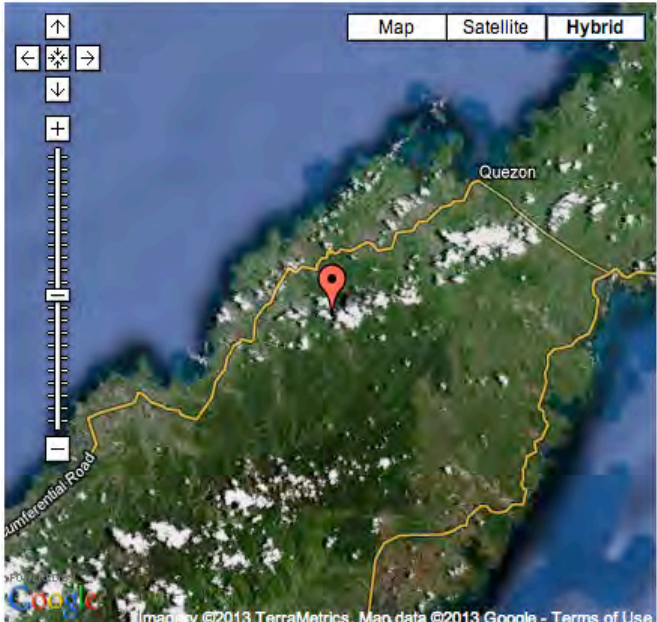
Full View



ALDAW-3143
Tue 28 Jun 2011 08:23:41

GPS Store Camera Store Prints

Map Satellite Hybrid



Imagery ©2013 TerraMetrics, Map data ©2013 Google - Terms of Use

Load GPS Data and Photos
Edit Photo Data

Pictures

- ALDAW-3027
- ALDAW-3029
- ALDAW-3031
- ALDAW-3032
- ALDAW-3053
- ALDAW-3055
- ALDAW-3068
- ALDAW-3072
- ALDAW-3077
- ALDAW-3079
- ALDAW-3081
- ALDAW-3082
- ALDAW-3086
- ALDAW-3088
- ALDAW-3090
- ALDAW-3125
- ALDAW-3128
- ALDAW-3134
- ALDAW-3137

Remove Picture

Change file names to:

Change

Latitude: N

Longitude: E

Altitude:

City:


Province/State:

Country:

Description:

Comments:

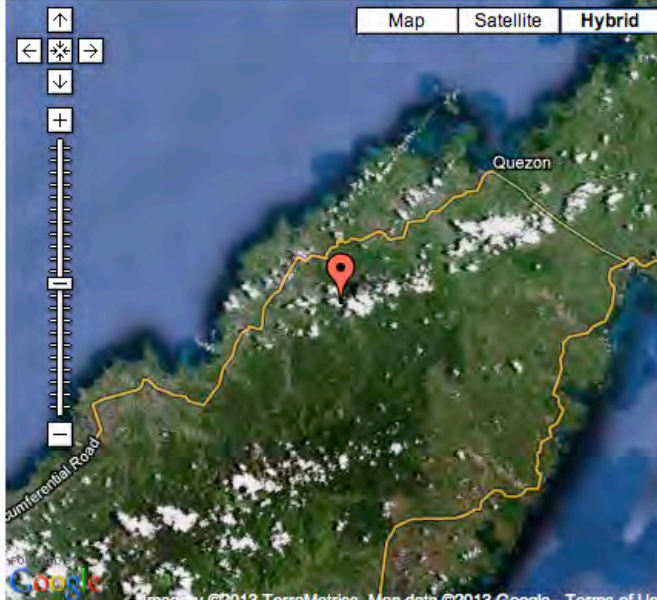
Full View



ALDAW-3137
Tue 28 Jun 2011 08:19:55

GPS Store Camera Store Prints

Map Satellite Hybrid



Imagery ©2013 TerraMetrics, Map data ©2013 Google - Terms of Use

Load GPS Data and Photos
Edit Photo Data

Pictures

- ALDAW-3027
- ALDAW-3029
- ALDAW-3031
- ALDAW-3032
- ALDAW-3053
- ALDAW-3055
- ALDAW-3068
- ALDAW-3072
- ALDAW-3077
- ALDAW-3079
- ALDAW-3081
- ALDAW-3082
- ALDAW-3086
- ALDAW-3088
- ALDAW-3090
- ALDAW-3125
- ALDAW-3128
- ALDAW-3134
- ALDAW-3137
- ALDAW-3138

Remove Picture

Change file names to:

Change

Latitude: +9.122355 N

Longitude: +117.863609 E

Altitude:

City: Quezon


Province/State: Province of Palawan

Country: Philippines

Description: Oil palm in Palawan;

Comments: Despite the moratorium on cutting trees, old trees are felled with no authorization from DENR, so that the area will be converted in oil palms. Note standing forest in the background

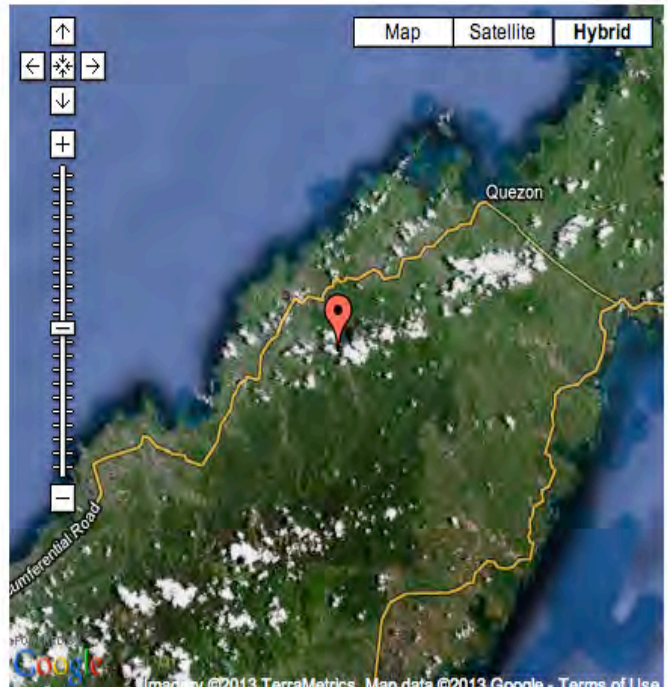
Full View



ALDAW-3138
Tue 28 Jun 2011 08:21:43

GPS Store Camera Store Prints

Map Satellite Hybrid



Map data ©2013 TerraMetrics, Map data ©2013 Google - Terms of Use

Load GPS Data and Photos
Edit Photo Data

Pictures

- IMG_8953

Remove Picture

Change file names to:

Latitude: +9.14982219 N

Longitude: +117.82957241 E

Altitude: 16

City: Quezon


Province/State: Province of Palawan

Country: Philippines

Description:

Comments: This picture was taken in August 2009, when the forest behind oil palm plantations in Barangay Tagusao was still standing. In July 2011 part of that forest had already been cleared to allow oil palm expansion.

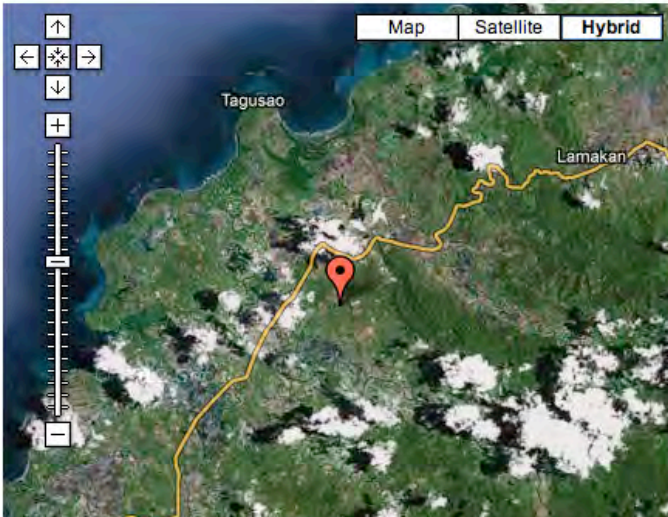
Full View



IMG_8953
Sun 23 Aug 2009 10:01:42

GPS Store Camera Store Prints

Map Satellite Hybrid



Load GPS Data and Photos Edit Photo Data

Pictures

- IMG_8953
- IMG_8959
- IMG_8968
- IMG_8965
- IMG_8972
- IMG_8980
- IMG_8987
- IMG_8990
- IMG_8994

Remove Picture

Change file names to:

Change

Latitude: +9.19552862 N

Longitude: +117.9360106 E

Altitude: 45


City: Quezon

Province/State: Province of Palawan

Country: Philippines

Description:

Comments: Oil palm expansion moving closer and closer to forested areas



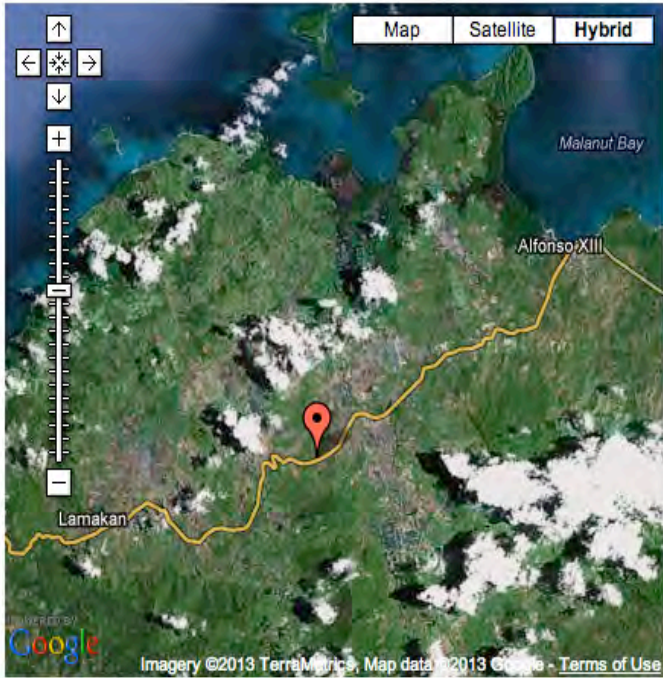
Full View

IMG_8994

Sun 23 Aug 2009 17:15:04

GPS Store Camera Store Prints

Map Satellite Hybrid



Malanut Bay

Alfonso XIII

Lamakan

Imagery ©2013 TerraMetrics, Map data ©2013 Google - Terms of Use

Load GPS Data and Photos Edit Photo Data

Pictures

- DSCN4416

Remove Picture

Change file names to:

Change

Latitude: +8.87289444 N

Longitude: +117.8818755 E

Altitude: 46


City: Brooke's Point

Province/State: Province of Palawan

Country: Philippines

Description: CAVDEAL EXPANSION

Comments: CAVDEAL construction company is also acquiring land to be converted into oil palm plantation, which include Palawan indigenous peoples sacred forest



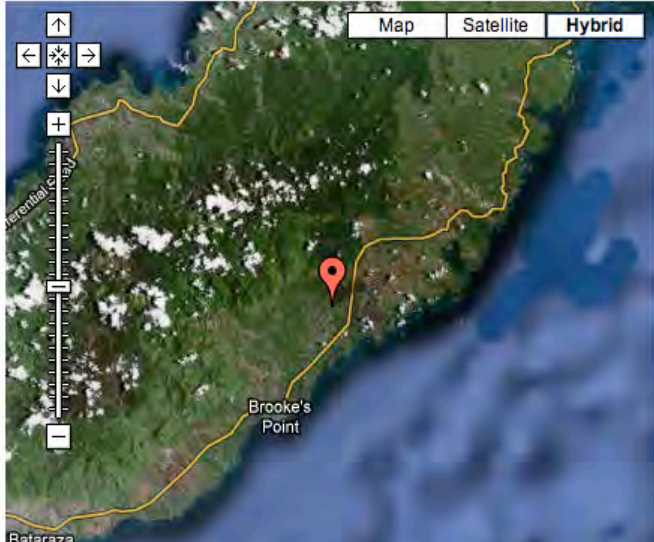
Full View

DSCN4416

Wed 25 Jul 2012 10:26:34

GPS Store Camera Store Prints

Map Satellite Hybrid



Brooke's Point

Bataraza

Load GPS Data and Photos Edit Photo Data

Pictures
DSCN3225

Latitude
+8.88887813 N

Longitude
+117.84322905 E

Altitude
82

City
Brooke's Point

Province/State
Province of Palawan

Country
Philippines

Description

Comments
oil palm plantations taking over forest in Barongbarong interior

Remove Picture

Change file names to:

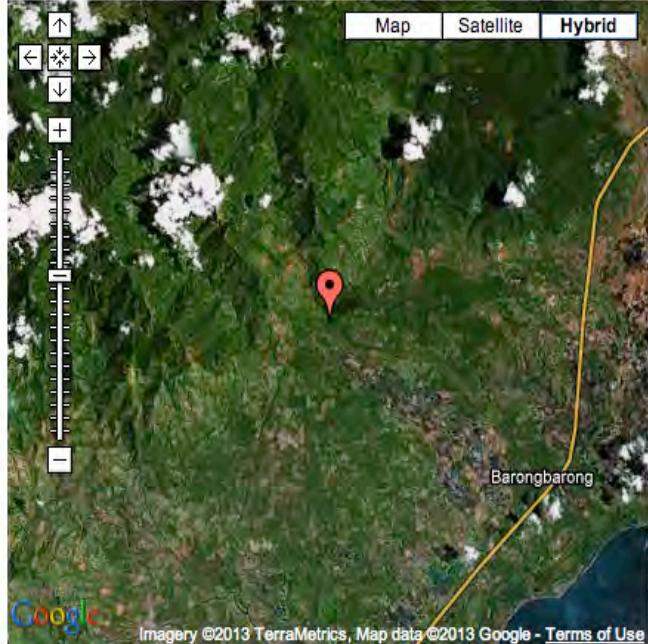
Change

Full View

DSCN3225
Wed 22 Feb 2012 12:17:46

GPS Store Camera Store Prints

Map Satellite Hybrid



Barongbarong

Imagery ©2013 TerraMetrics, Map data ©2013 Google - Terms of Use

Evidences of massive land clearings



Load GPS Data and Photos Edit Photo Data

Pictures

- IMG_8894
- IMG_8886
- IMG_8875
- IMG_8885
- IMG_8907
- IMG_8879
- IMG_8902
- IMG_8881
- IMG_8876
- IMG_8868
- IMG_8895
- IMG_8877
- IMG_8878
- IMG_8903
- IMG_8888
- IMG_8896
- IMG_8901
- IMG_8889
- IMG_8905
- IMG_8867
- IMG_8880
- IMG_8883

Remove Picture

Change file names to:

Latitude: +8.99042336 N

Longitude: +118.04118848 E

Altitude: 58

City: Brooke's Point

Province/State: Province of Palawan

Country: Philippines

Description: massive oil palm expansion

Comments:

Full View

IMG_8901

Fri 21 Aug 2009 13:56:41

GPS Store Camera Store Prints

Map Satellite Hybrid

Quezon

Municipality of Sofronio Española

Pulot

Brooke's

Load GPS Data and Photos Edit Photo Data

Pictures

- ALDAW-3027
- ALDAW-3029
- ALDAW-3031
- ALDAW-3032
- ALDAW-3053
- ALDAW-3055
- ALDAW-3068
- ALDAW-3072
- ALDAW-3077
- ALDAW-3079
- ALDAW-3081
- ALDAW-3082
- ALDAW-3086
- ALDAW-3088
- ALDAW-3090

Remove Picture

Change file names to:

Change

Latitude

+8.926084 N

Longitude

+117.970085 E

Altitude

42

City

Espanola

Province/State

Province of Palawan

Country

Philippines


Description

Oil palm in Palawan; Espanola oil palm plantatio

Comments

Several years already passed since Agumil Philippines Inc. (API) started acquiring large chunks of land to plant oil palms.

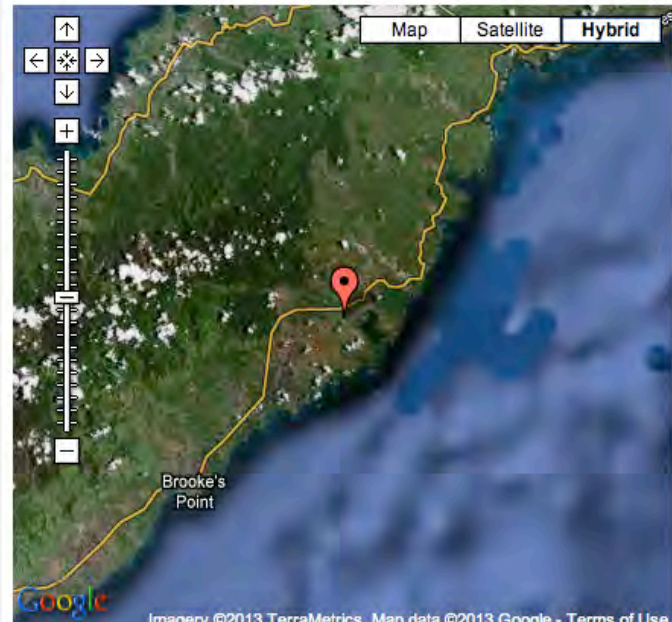
Full View



ALDAW-3090
Sun 26 Jun 2011 18:28:54

GPS Store Camera Store Prints

Map Satellite Hybrid



Google Imagery ©2013 TerraMetrics, Map data ©2013 Google - Terms of Use

Load GPS Data and Photos Edit Photo Data

Pictures

- IMG_9099
- IMG_9093
- IMG_9089
- IMG_9088
- IMG_9080

Remove Picture

Change file names to:

Change

Latitude

+8.93025555 N

Longitude

+117.97095328 E

Altitude

49

City

Brooke's Point

Province/State

Province of Palawan

Country


Philippines

Description

Comments

Oil palm plantations massive clearing

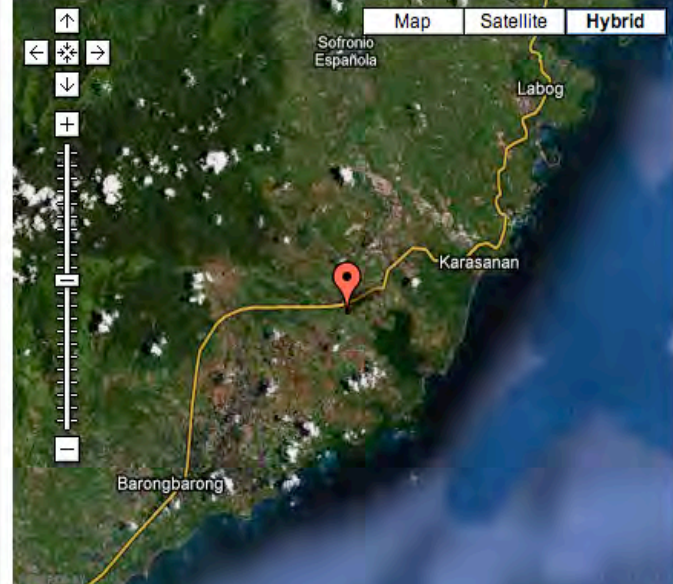
Full View



IMG_9080
Wed 26 Aug 2009 12:50:52

GPS Store Camera Store Prints

Map Satellite Hybrid



Load GPS Data and Photos Edit Photo Data

Pictures

- ALDAW-3027
- ALDAW-3029
- ALDAW-3031
- ALDAW-3032
- ALDAW-3053
- ALDAW-3055
- ALDAW-3068

Remove Picture

Change file names to:

Change

Latitude: +8.936118 N

Longitude: +117.97654 E

Altitude: 34

City: Espanola

Province/State: Province of Palawan

Country: Philippines

Description: Oil palm in Palawan; Espanola oil palm plantatio

Comments: Agumil Philippines Inc. (API) continues to acquire large chunks of land to plant new oil palm trees.

Full View

ALDAW-3068

Sun 26 Jun 2011 17:57:23

GPS Store Camera Store Prints

Map Satellite Hybrid

Brooke's Point

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Evidences of clean freshwater sources being found within oil palm plantations



Load GPS Data and Photos Edit Photo Data

Pictures

ALDAW-3027
ALDAW-3029
ALDAW-3031
ALDAW-3032
ALDAW-3053
ALDAW-3055
ALDAW-3068
ALDAW-3072

Remove Picture

Change file names to:

Change

Latitude

+8.933661 N

Longitude

+117.969704 E

Altitude

27

City

Espanola

Province/State

Province of Palawan

Country

Philippines

Description

Oil palm in Palawan; Espanola oil palm plantatio

Comments

Agumil Philippines Inc. (API) continues to acquire large chunks of land to plant new oil palm trees. Included into the plantations' area are fresh water sources providing potable water to local communities.



Full View

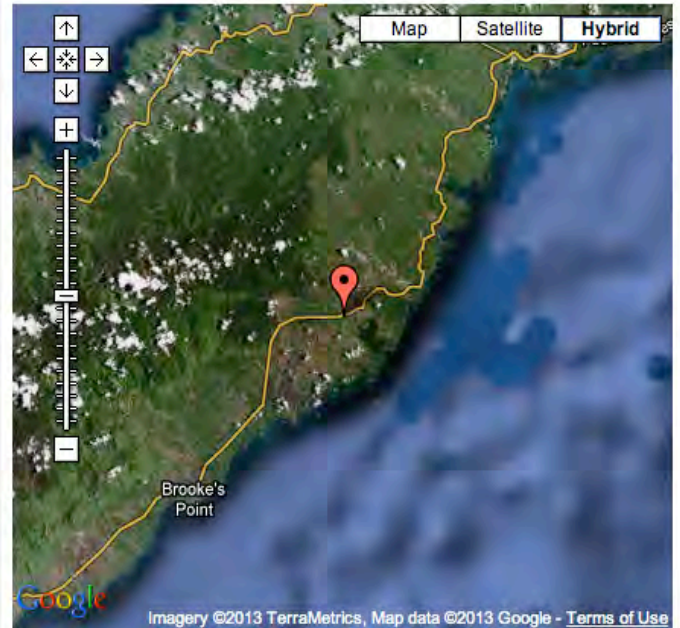
ALDAW-3072

Sun 26 Jun 2011 18:03:52

GPS Store

Camera Store

Prints



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PhotoGPSEditor - IMG_9084 - Wed 26 Aug 2009 12:52:40

ata and Photos Edit Photo Data

Latitude

+8.92380517 N

Longitude

+117.96940467 E

Altitude

34

City

Brooke's Point

Province/State

Province of Palawan

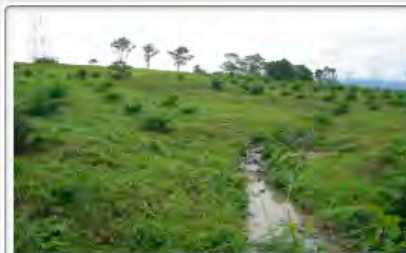
Country

Philippines

Description

Comments

Small water sources will be increasingly affected by chemicals used in oil palm plantations



Full View

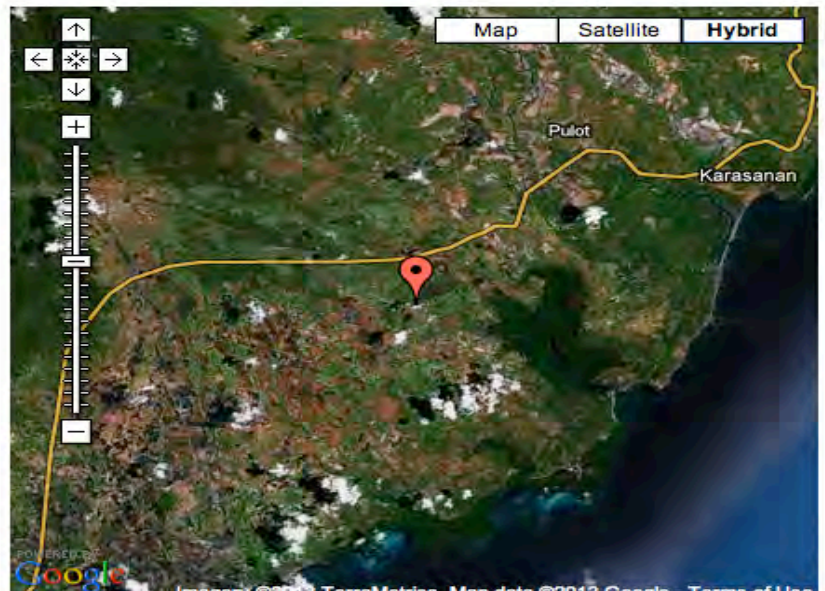
IMG_9084

Wed 26 Aug 2009 12:52:40

GPS Store

Camera Store

Prints



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Evidences of oil palm encroachment on agricultural land



Load GPS Data and Photos
Edit Photo Data

Pictures

- IMG_8953
- IMG_8990
- IMG_8959
- IMG_8972
- IMG_8968
- IMG_8980
- IMG_8987
- IMG_8882
- IMG_8882
- IMG_8882

Remove Picture

Change file names to:

Change

Latitude

 N

Longitude

 E

Altitude

City

Province/State

Country

Description

Comments

Full View

IMG_8882

Fri 21 Aug 2009 11:50:10

GPS Store
Camera Store
Prints

Map
Satellite
Hybrid

Load GPS Data and Photos Edit Photo Data

Pictures

IMG_9099
 IMG_9093
 IMG_9089
 IMG_9088
 IMG_9080
 IMG_9077

Latitude

+8.93320072 N

Longitude

+117.96970992 E

Altitude

25

City

Brooke's Point

Province/State

Province of Palawan

Country

Philippines

Description

Comments

Oil palm expansion near Karasanan. Note coconut plantations in the background.

Remove Picture

Change file names to:

Change



Full View

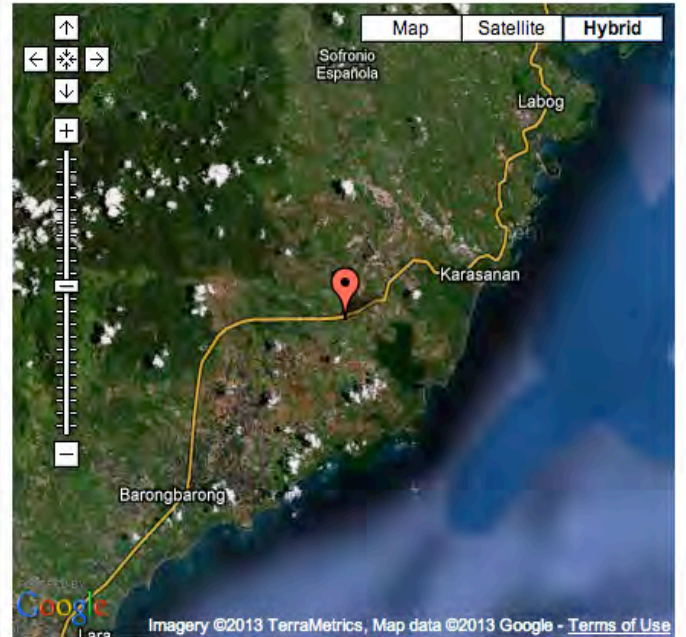
IMG_9077

Wed 26 Aug 2009 12:49:45

GPS Store

Camera Store

Prints



Load GPS Data and Photos Edit Photo Data

Pictures

IMG_9099
 IMG_9093
 IMG_9089

Latitude

+8.92046324 N

Longitude

+117.96866505 E

Altitude

15

City

Brooke's Point

Province/State

Province of Palawan

Country

Philippines

Description

encroachment on cultivated land

Comments

Palm oil plantations encroaching on cultivated land. See mango trees and coconuts in the background

Remove Picture

Change file names to:



Full View

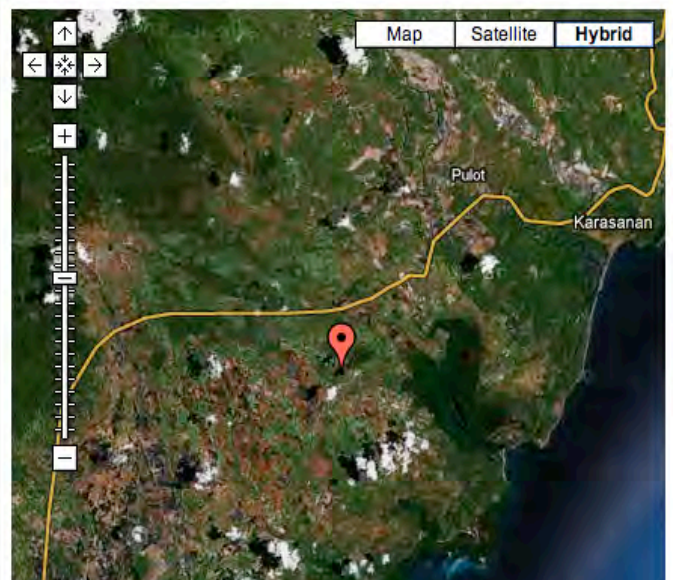
IMG_9089

Wed 26 Aug 2009 12:54:11

GPS Store

Camera Store

Prints



Load GPS Data and Photos Edit Photo Data

Pictures

DSCN4441
DSCN4429

Latitude

+8.89352824

N

Longitude

+117.86978835

E

Altitude

117

City

Brooke's Point

Province/State

Province of Palawan

Country

Philippines

Description

Comments

Old coconut groves sustaining local self-sufficiency are being destroyed by Cavdeal to give space to oil palm plantations

Remove Picture

Change file names to:

Change



Full View

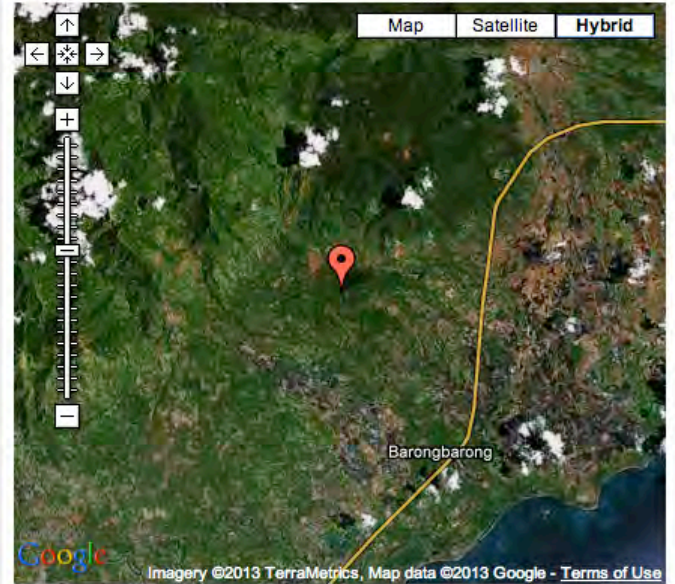
DSCN4429

Wed 25 Jul 2012 11:31:15

GPS Store

Camera Store

Prints



Load GPS Data and Photos Edit Photo Data

Pictures

DSCN4441

Latitude

+8.89432445

N

Longitude

+117.87009771

E

Altitude

110

City

Brooke's Point

Province/State

Province of Palawan

Country

Philippines

Description

Comments

Clear evidence of old coconut plantations being destroyed to pave the way for oil palms

Remove Picture

Change file names to:

Change



Full View

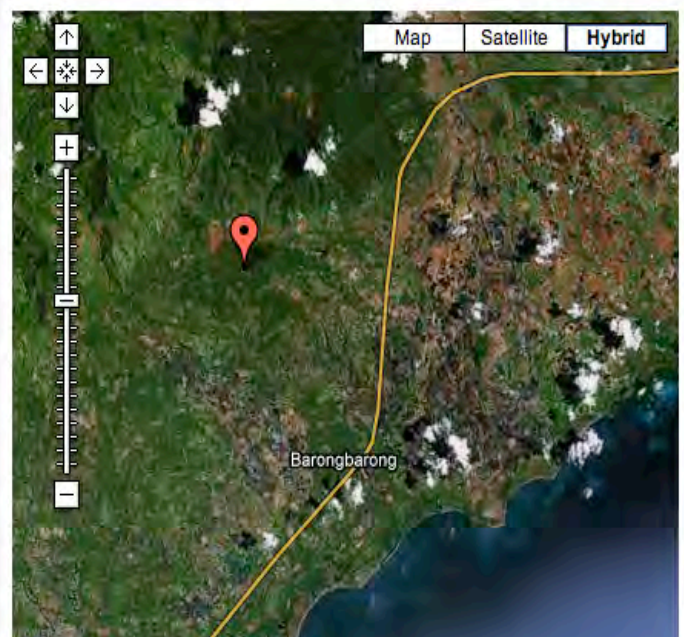
DSCN4441

Wed 25 Jul 2012 11:35:12

GPS Store

Camera Store

Prints



Load GPS Data and Photos Edit Photo Data

- Pictures
- IMG_8933
 - IMG_8947
 - IMG_8996
 - IMG_8950
 - IMG_8933
 - IMG_8970
 - IMG_8966
 - IMG_8920
 - IMG_8932
 - IMG_9012
 - IMG_9024
 - IMG_8951
 - IMG_8957
 - IMG_8989
 - IMG_8916
 - IMG_8941
 - IMG_9025
 - IMG_8911
 - IMG_8997
 - IMG_8999
 - IMG_8928
 - IMG_8943

Remove Picture

Change file names to:

Change

Latitude

+9.13280746

N

Longitude

+117.84339105

E

Altitude

15

City

Quezon

Province/State

Province of Palawan

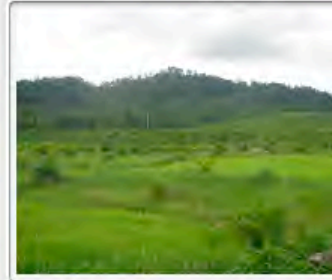
Country

Philippines

Description

Oil Palm Development

Comments

Evidence of oil palm plantations competing with rice cultivation in Quezon Municipality

Full View

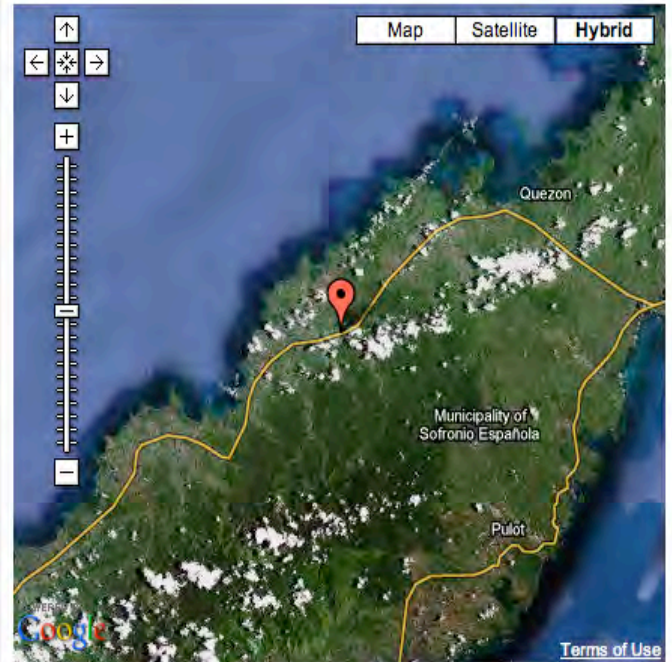
IMG_8966

Sun 23 Aug 2009 11:56:34

GPS Store

Camera Store

Prints



Load GPS Data and Photos Edit Photo Data

- Pictures
- IMG_8953
 - IMG_8959
 - IMG_8968
 - IMG_8965
 - IMG_8972

Remove Picture

Change file names to:

Latitude

+9.1800111

N

Longitude

+117.88538998

E

Altitude

34

City

Quezon

Province/State

Province of Palawan

Country

Philippines

Description

Comments

Areas targeted by Agumil oil palm plantation also include productive paddy land, as it is showed in the picture on the right corner

Full View

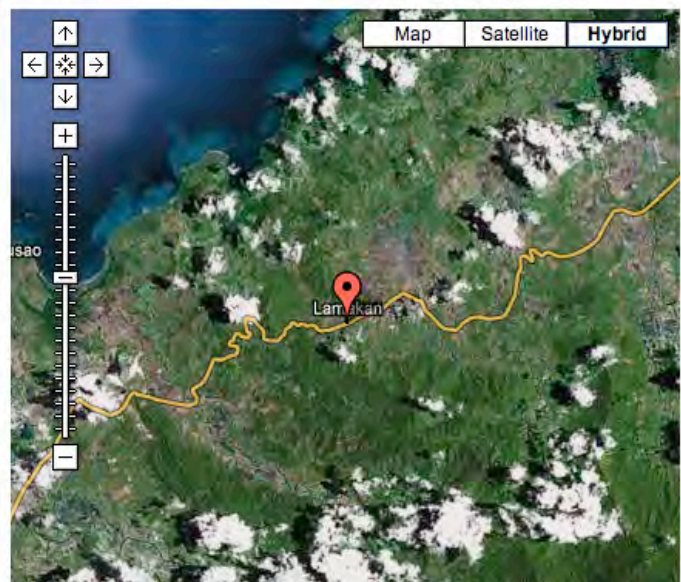
IMG_8972

Sun 23 Aug 2009 16:57:57

GPS Store

Camera Store

Prints



Load GPS Data and Photos
Edit Photo Data

Pictures

- IMG_8881
- IMG_8876
- IMG_8868
- IMG_8895
- IMG_8877
- IMG_8878
- IMG_8903
- IMG_8888
- IMG_8896
- IMG_8901
- IMG_8889
- IMG_8905
- IMG_8867
- IMG_8880
- IMG_8893
- IMG_8904
- IMG_8900
- IMG_8899
- IMG_8873
- IMG_8887
- IMG_8891

Remove Picture

Change file names to:

Change

Latitude
+9.02899181 N

Longitude
+118.0441603 E

Altitude
17

City
Brooke's Point


Province/State
Province of Palawan

Country
Philippines

Description
oil palm expansion

Comments
Notice Buri (*Corypha elata*) palms in the background. This endemic species is being threatened due to the expansion of oil palm plantations.

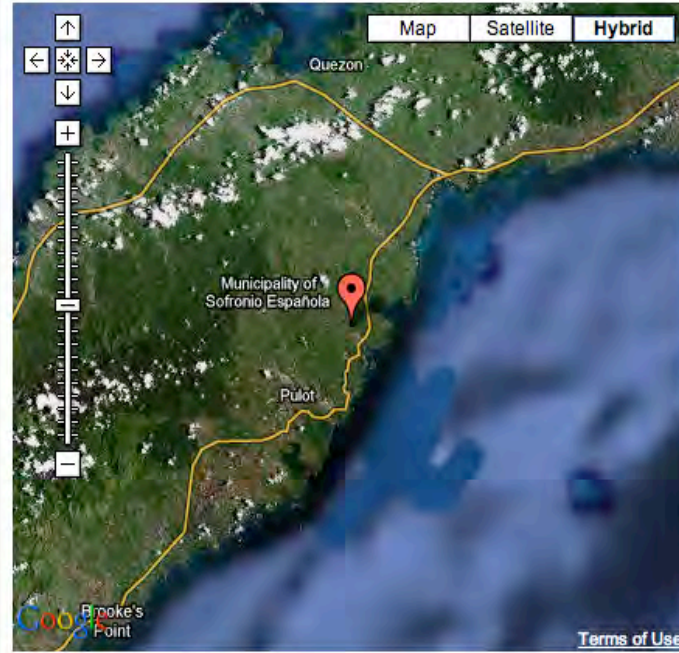
Full View



IMG_8891
Fri 21 Aug 2009 11:55:40

GPS Store
Camera Store
Prints

Map Satellite Hybrid



Terms of Use

Evidences of oil palm plantations limiting freedom of movement



Load GPS Data and Photos
Edit Photo Data

Pictures

- DSCN5029
- DSCN5021
- DSCN4323

Remove Picture

Change file names to:

Change

Latitude
+8.88928457 N

Longitude
+117.84343631 E

Altitude
191

City
Brooke's Point


Province/State
Province of Palawan

Country
Philippines

Description
no trespassing (interior of Barongbarong)

Comments
Oil companies have fenced large tracks of land and this makes impossible for local indigenous communities to reach their upland forest areas

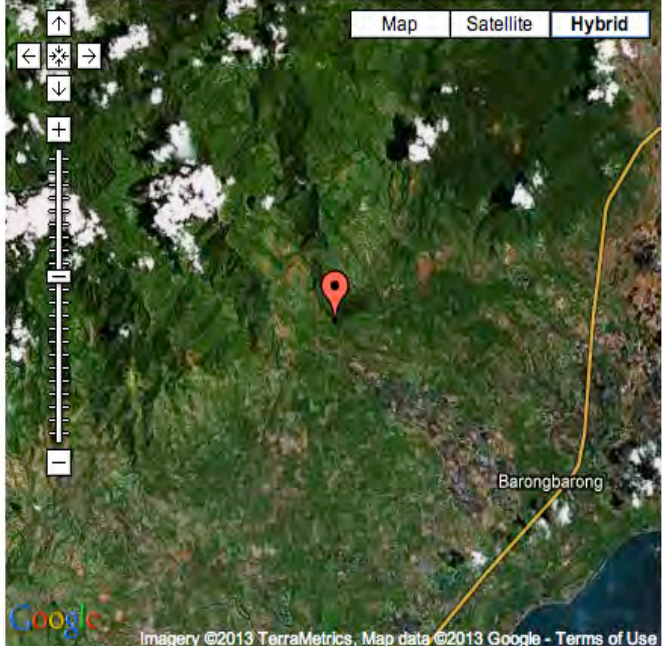
Full View



DSCN5029
Wed 29 Aug 2012 12:17:04

GPS Store Camera Store Prints

Map Satellite Hybrid



Barongbarong

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