August 1-3, Foundation University, Dumaguete

PISTA NG MAPA

open data & software • free maps • community • talks • workshops

KAART

Hivos people unlimited

mapbox

Grab

Mapillary

UAV4GEO

State of OpenStreetMap: Philippines

Pista ng Mapa 2019

Aug. 1-3, 2019, Dumaguete City

@arnalielsewhere

Hi, I'm **Nalie**!

I map for work.

.. and also, *voluntarily*.

☺️

Arnalie Faye S. Vicario
ITO II-GIS / OSM Volunteer /
Geolady / Mom-to-be
@arnalielsewhere

How did you contribute to OpenStreetMap?

arnalielsewhere Search

Name: arnalielsewhere
Registered: 2015-04-24
Active contributor: Yes (Why?)
Mapping days: 91 (5%)
Map changes: 199 679
Discussed changesets: 0
Review requests: 12

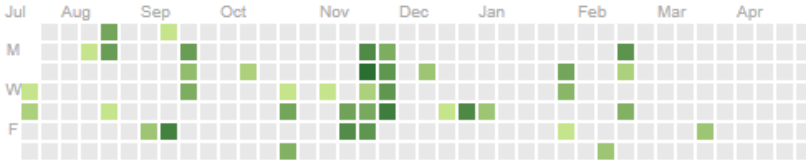
Type? Casual Mapper (Active)
Recently utilized presets - Top 3 (number of changes)
Added: Building(194), Path(5), Unclassified(1)
Modified: Farmland(6), Building(3), Path(3)

Recent changesets (details): Philippines 14

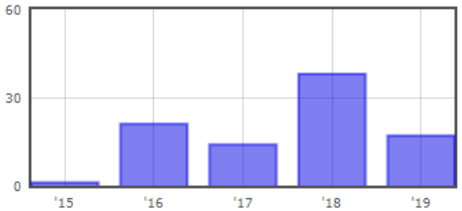
Recent ranks: Philippines #203

OSM Notes: Closed w/ comment 0 (w/o 0), commented 0 and opened 0
Changeset discussions: Participated in 0 and created 0 comments
Quality assurance: Osmose issues: Level 1=2, Level 2=0, Level 3=9

48 mapping days with 425 changesets in the last year



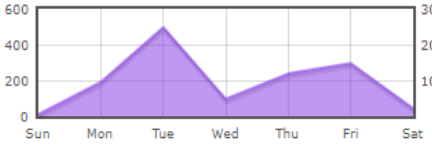
Mapping days per year



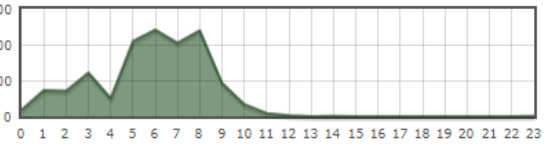
Used editors/programs

Name	Count
JOSM	1265
iD	91
unknown	12
Go Map!!	5

Changesets per weekday



Changesets per hour



Changesets per country - Overall 16 countries (Country - Number of changes (changesets))

Philippines - 179 691 (1 131)
Laos - 7 007 (126) Indonesia - 3 759 (28) India - 2 507 (22) Honduras - 2 369 (11)
Cameroon - 1 053 (7) Congo-Kinshasa - 982 (9) Senegal - 696 (6) Thailand - 400 (5)
Sri Lanka - 386 (8) Japan - 363 (3) Guinea - 197 (1) Madagascar - 140 (3)
Puerto Rico - 70 (4) Niger - 59 (5) ??? unknown - 0 (4)

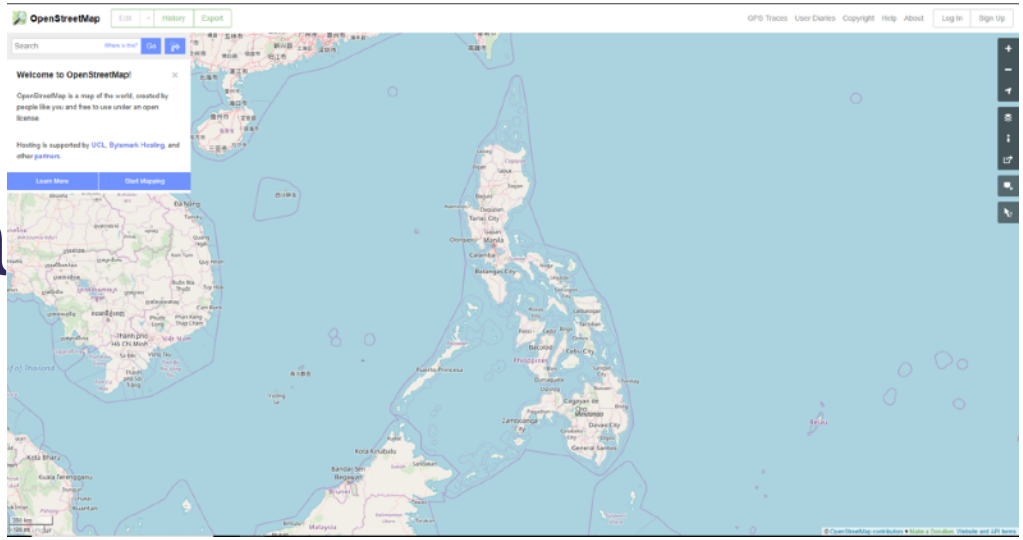
Source: https://www.hdyc.neis-one.org/?arnalielsewhere

Show of hands! Do you know or have used these apps…

For starters: What is OSM?

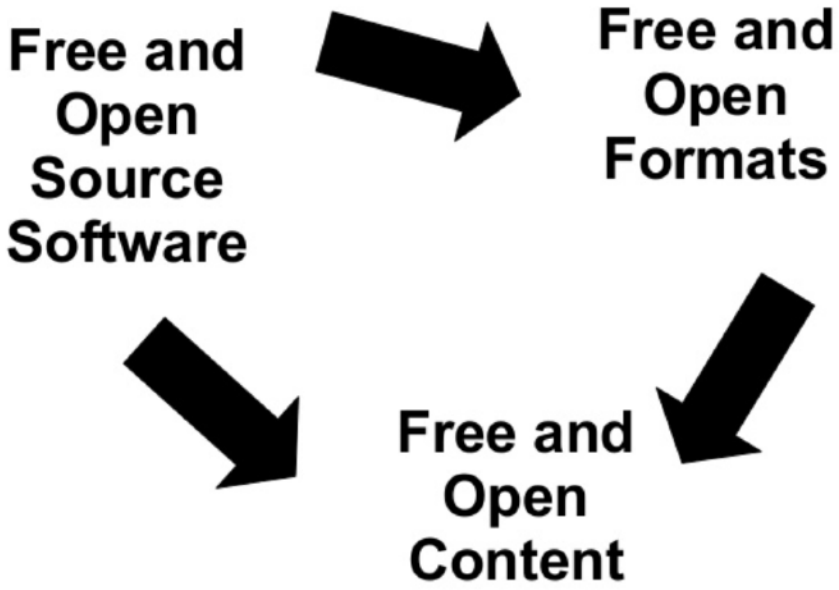
- *Crowd-sourced/community* project to **map the whole world!**

"Wikipedia of maps"



For starters: What is OSM?

But unlike any other crowd-sourced mapping projects, OpenStreetMap is **free and open**!

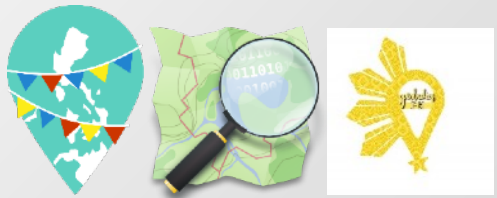


Want to know more?

Join us for the

Introduction Workshop to OSM later,
1:00 – 2:30 PM at CS Lab 2!

See you there! ☺️

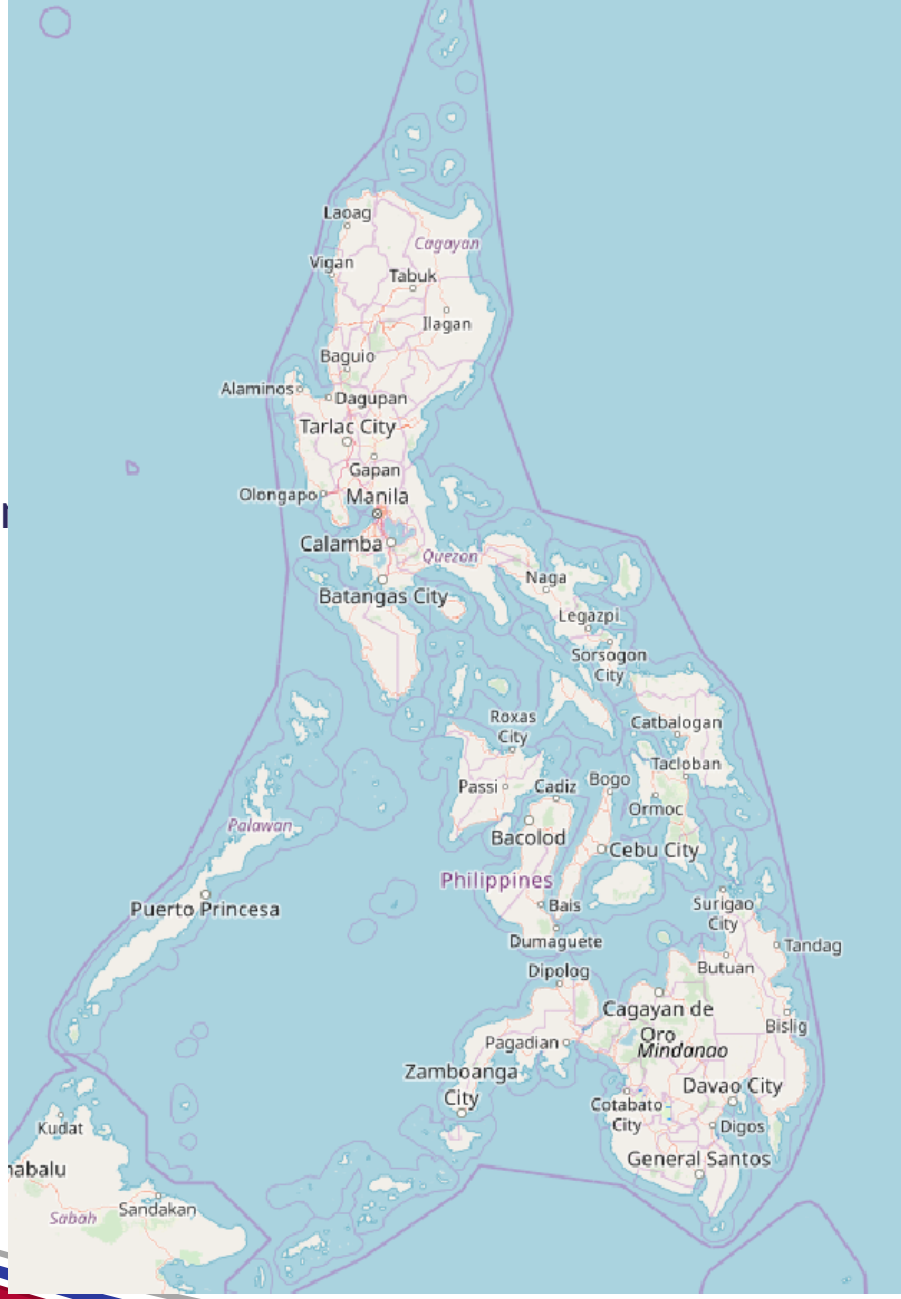


Let’s now focus on…

State of OpenStreetMap: Philippines

Quick Facts

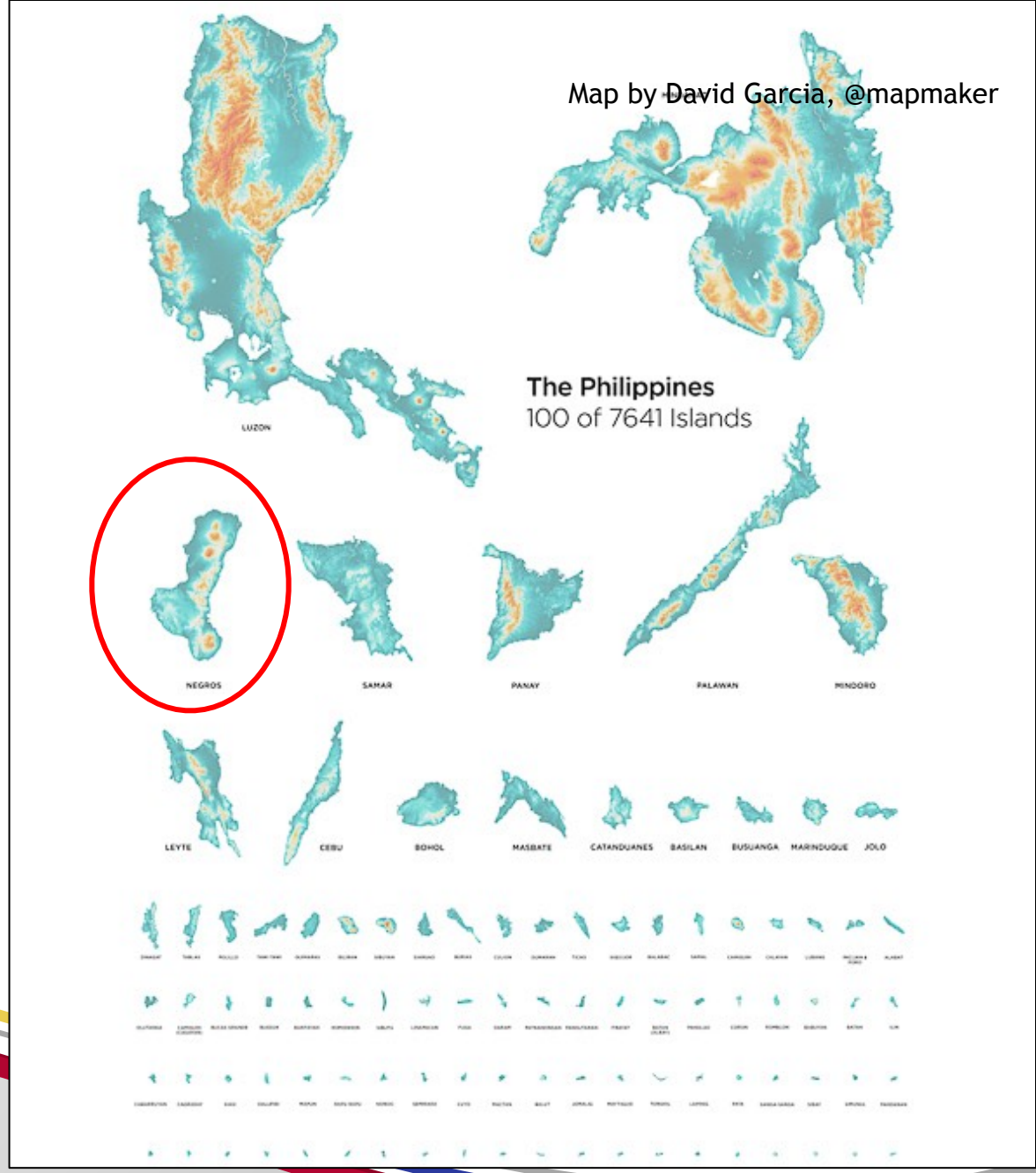
- Locally called **Pilipinas**
- **7,641 Islands**
- 3 main geo-divisions: Luzon, Visayas, Mindan
- 1 Metropolis (Metro Manila)
- Population (2015): 100,981,437
- Land Area: 300,000 sq.km (120,000 sq.mi)
- Density: 336/km2 (870/sq.mi)
- Located along the Pacific Ring of Fire
  - Earthquake/typhoon-prone
- **It's more fun in the Philippines!**



© OSM

We're currently at the 7th largest Island in the Philippines!

~ 931.8km away from Manila



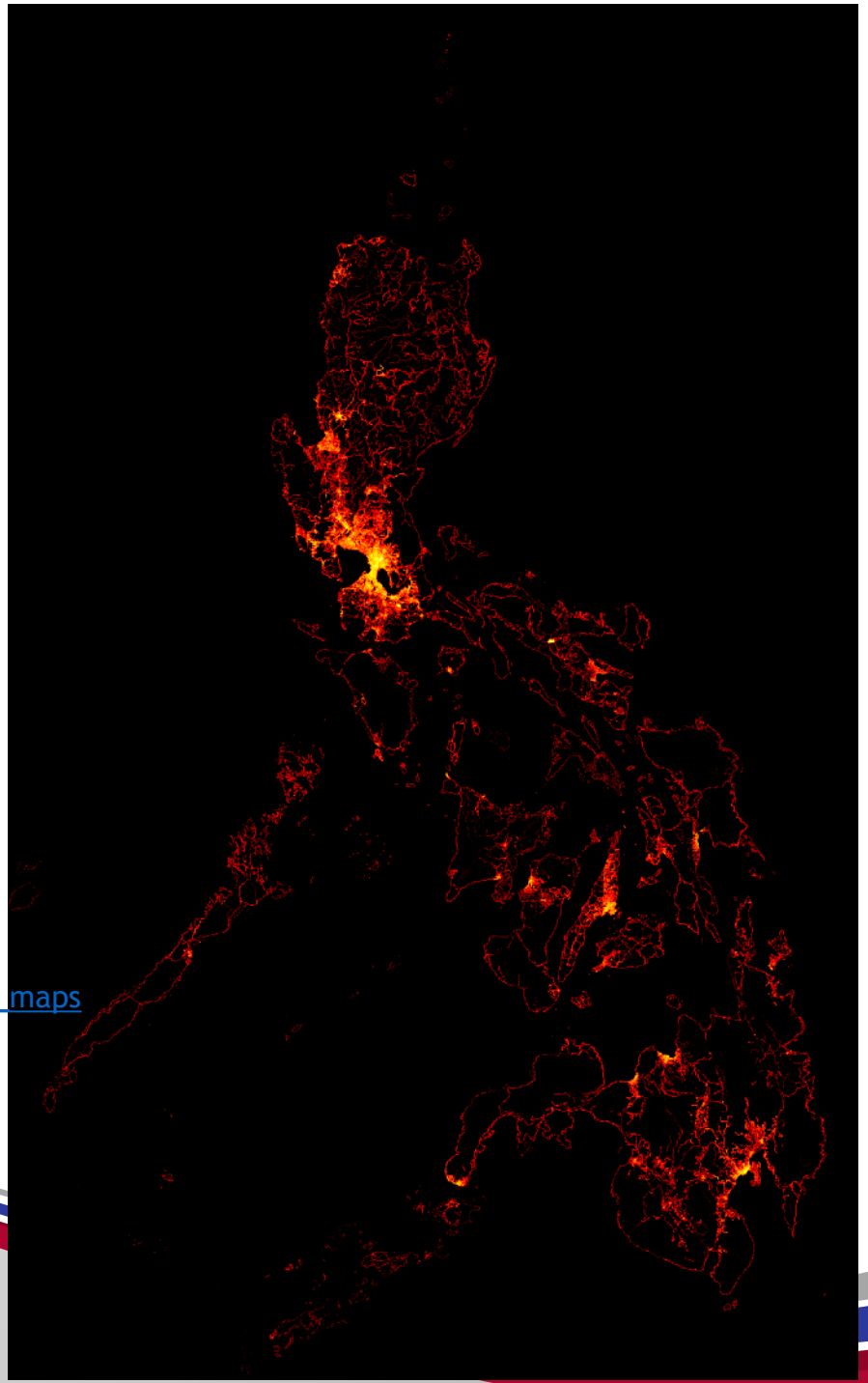
Makati in OSM (2007)

Source: Eugene Villar, OSM

Makati in OSM (2019)

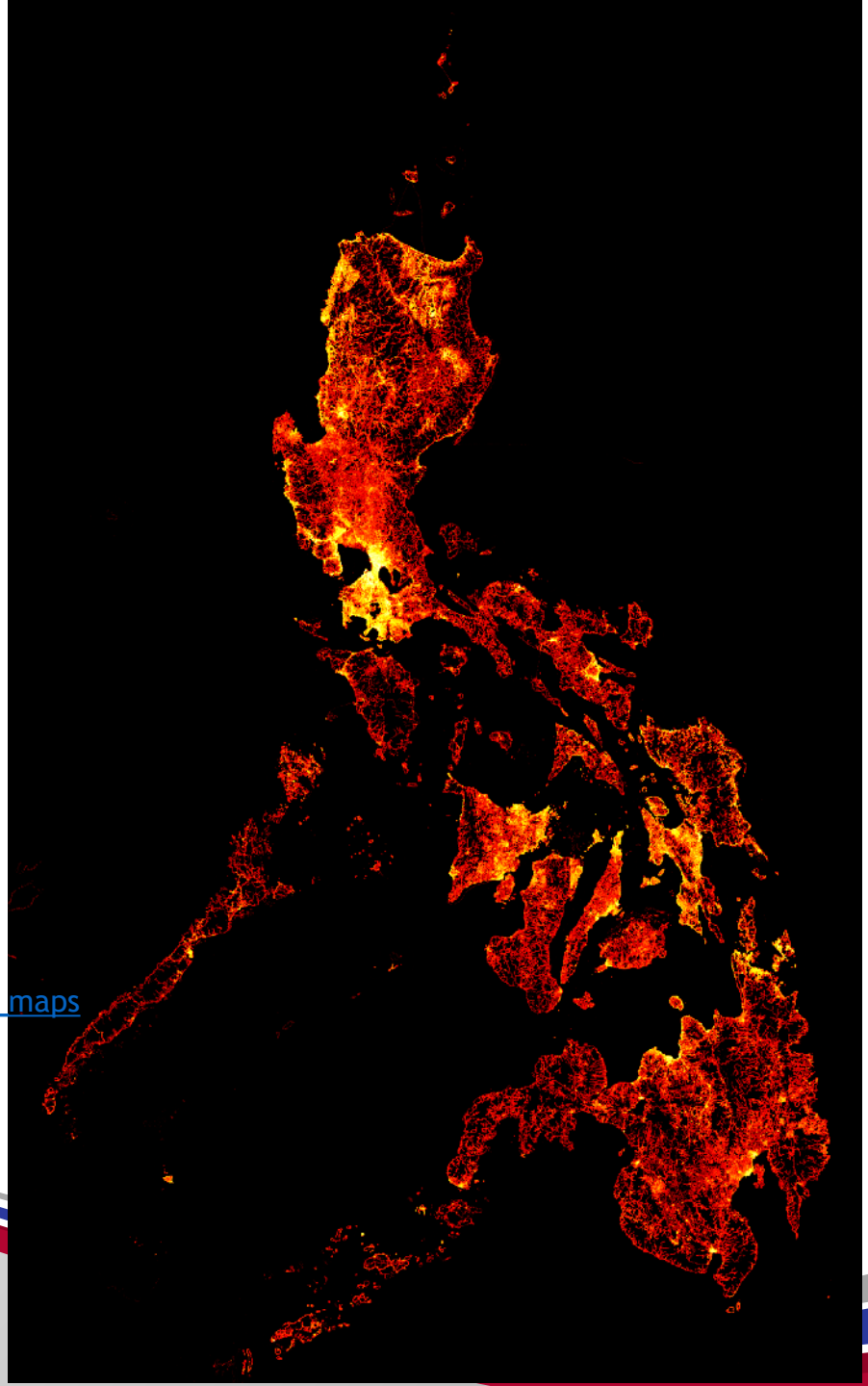
Olympia Ville
Manila South Cemetry
Kalayaan Avenue
Pablo Ocampo Extension
Kamagong
Metropolitan Avenue
La Paz
San Antonio
Malugay
Bel-Air
Bel-Air Village Phase I and II
Jupiter
Rockwell Drive
Poblacion
Pasig River
Estrella-Pantaleon Bridge
J. P. Rizal
P. Burgos
Estrella
Amapola
Aries
Hydra
Aquarius
Mercedes
Polaris
Mars
Planet
Astra
Galaxy
Solar
Stella
Leo
Libra
Taurus
Antares
Asteroid
Canopus
Zodiac
Cruzada
Cabildo
Beaterio
Farol
Urdaneta
Urdaneta Avenue
Real
Santo Tomas
Apartment Ridge Road
Santo Domingo
Cerrada
Recoletos
Buendia
Buendia Avenue Extension
Agoho Road
Anahaw Road
Cambridge Circle
Pandan Road
Talisay Road
Kawayan Road
Harvard Road
Tangile Road
Ayala Tunnel
EDSA
Ayala
Ayala Center Makati
North
West
East Drive
Palm Drive
Paraiso
Bougainvilla Place
Forbes Park
McKinley Road
Salcedo
Valero
San Agustin
Bautista
Tordesillas
Soliman
L.P. Leviste
Dela Rosa
Esteban
Bolanos
Sotto
Amorsolo
Adelantado
Don Chino Roces Avenue
Legazpi
Rada
Castro
Gil
Nieva
Perea
Gallardo
Gamboa
Soria
Aguirre
Jimenez
San Lorenzo
Juan Luna
Nakpil
Zaragosa
Edades
Hidalgo
Joaquin
Apostol
Tolentino
Balmori
Bronies
San Lorenzo Drive
Estella
Zipper
Abelardo
Herrera
Ponce
Arguilla
Garcia Villa
Magnolia
Avocado
Acacia Avenue
Morado
Milflores
Palm Avenue
Banaba Circle
Skyway
Pasay Road
Dela Rosa
Pio del Pilar
San Isidro
Hidalgo
Kayamanan
Finlandia
Batangas
Borneo
Bolivia
Faraday
Honduras
Rockefeller
Zanzibar
Binay
Taylor
Hayes
Mayor
Balderama
Cuangco
Jerry
Calhoun
Dallas
Evangelista
Tolientino
D. Jorge
A. Apolinario
Capt. M. Reyes
Ford
Dian
Filmore
Emilia
Ibarra
Matanzas
Java
Loredo
Akle
Anubing
Baticulin
Calantas
Durigon
Dita
Catmon
Banuyo
Aranga
Sampaloc
Estrella
Teka
Lawaan
St. Paul
Sacred Heart
Guijo
Bagtikan
Yakal
Camachile
Caong
Bakawan
Jose
Washington
Santiago
Tayo
Wilson
M. Ocampo
J. Victor
N. Santillan
E. Ramos
McKinley
Honduras
Rockefeller
Zanzibar
Binay
Taylor
Hayes
Mayor
Batangas

January 2012



by Eugene Villar, @*seav*
https://wiki.openstreetmap.org/wiki/Philippines/Node_density_maps

January 2019



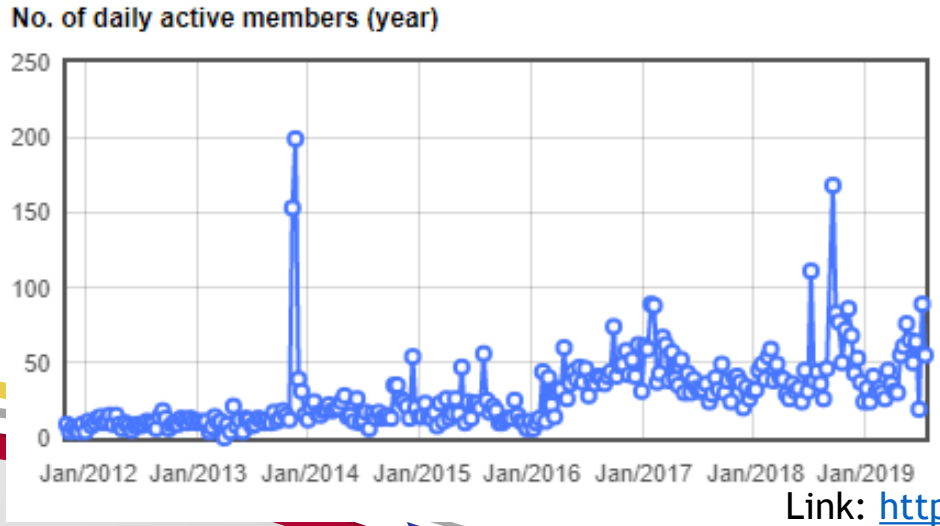
by Eugene Villar, @*seav*
https://wiki.openstreetmap.org/wiki/Philippines/Node_density_maps

Some Statistics (July 11, 2019)

- Average mapping speed: **10,152.150375** obj/day
- Number of Nodes: **40,610,715**
- Number of Ways: **7,083,773**
- Number of Relations: **15,148**
- Number of Borders/Places: **86/0**
- First known update: **2006-08-29T12:09:08Z**

Source: http://stat.latlon.org/ph/latest/

Active Contributors (Report run at Jul, 29th 2019 1:03 am CET)



Link: https://osmstats.neis-one.org/?item=countries&country=Philippines

© Pascal Neis (neis-one.org)

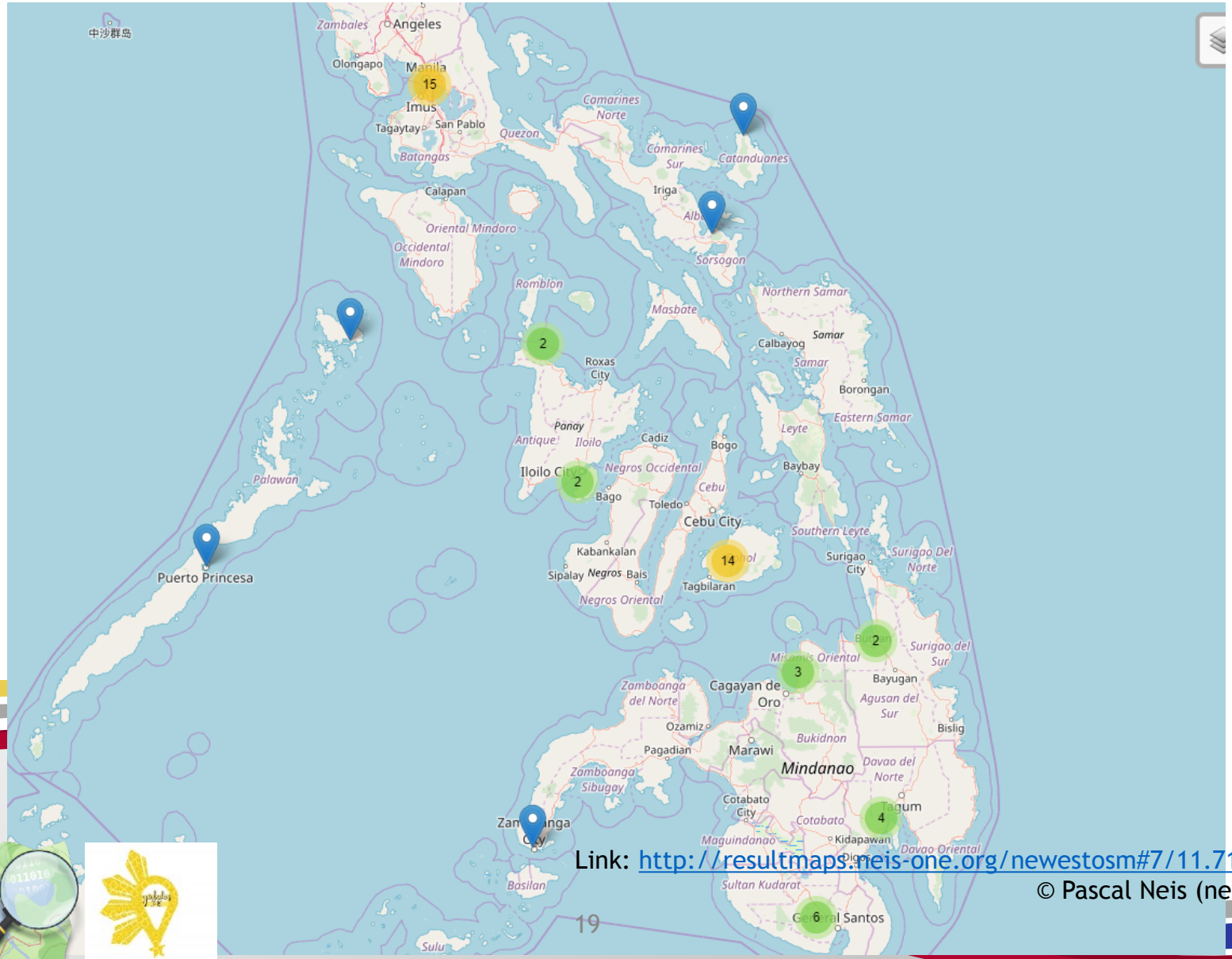
Top Contributors (last 2 months)

No.	Contributor	Changesets	Map changes	Created Nodes	Created Ways	Created Relations	Created Buildings	Created Highways	Created Landuse'	Created Names
1	ampak	606	238,471	215,151	2,522	23	629	80	0	28
2	Rally	411	125,349	6,921	1,671	58	133	1,563	56	644
3	Timmy_Tesseract	31	76,917	55,518	1,343	1	5	1,147	3	368
4	vincentraybea	387	58,009	11,881	3,208	0	1,880	137	1,144	219
5	jenjereren	276	38,805	34,700	2,210	0	1,521	646	3	174
6	JosephPada	76	35,242	5,742	1,373	1	1,239	120	1	7
7	nomad@ASU	46	34,726	25,609	5,750	0	5,475	47	142	0
8	Kate Varf	90	33,077	20,768	2,410	1	1,832	181	392	0
9	GrabPHPrince	81	27,226	20,937	5,191	4	5,157	20	8	6
10	GrabPHEjelyn	65	27,107	21,494	5,188	0	5,181	7	1	0
11	GOwin	519	27,037	9,097	2,696	106	903	1,712	58	746
12	maning	207	25,994	18,830	2,704	3	2,626	58	0	13
13	Paverne	84	19,213	14,817	1,134	0	613	160	184	1
14	Azsnow90	93	17,605	7,437	1,353	1	1,149	20	128	0
15	jmbangate	49	17,390	13,348	3,251	0	3,251	0	0	0
16	kin maximus	69	16,340	7,693	1,392	2	936	323	0	41
17	ctine89	140	16,308	9,753	1,378	0	1,315	46	17	0
18	caspermonte	40	15,717	13,599	720	0	72	344	0	93
19	GrabPHRuel	35	15,261	11,874	2,917	0	2,836	81	0	0
20	sbjorgan	50	15,124	6,275	1,247	0	1,188	41	18	3

Link: http://osmstats.neis-one.org/?item=countries&country=Philippines

© Pascal Neis (neis-one.org)

Latest Contributors (7 days)



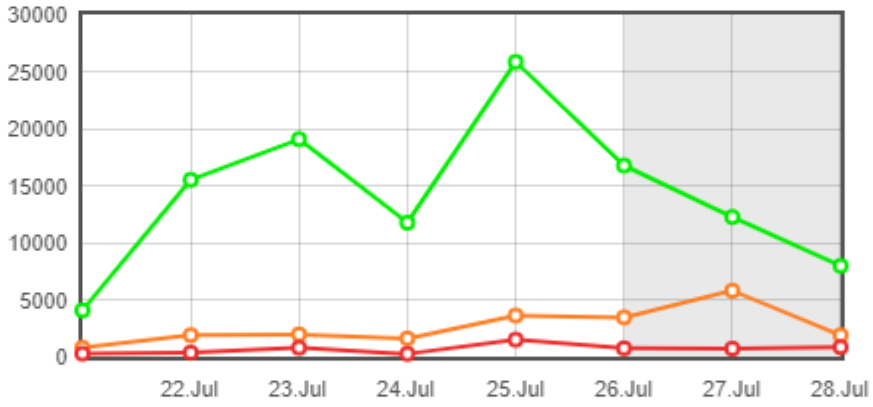
Link: http://resultmaps.neis-one.org/newestosm#7/11.711/122.278

© Pascal Neis (neis-one.org

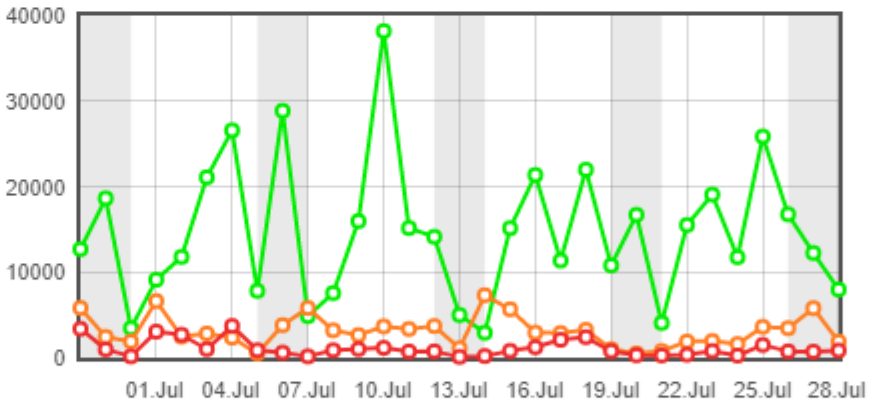
Nodes created/modified/deleted

(Report run at Jul, 29th 2019 1:03 am CET)

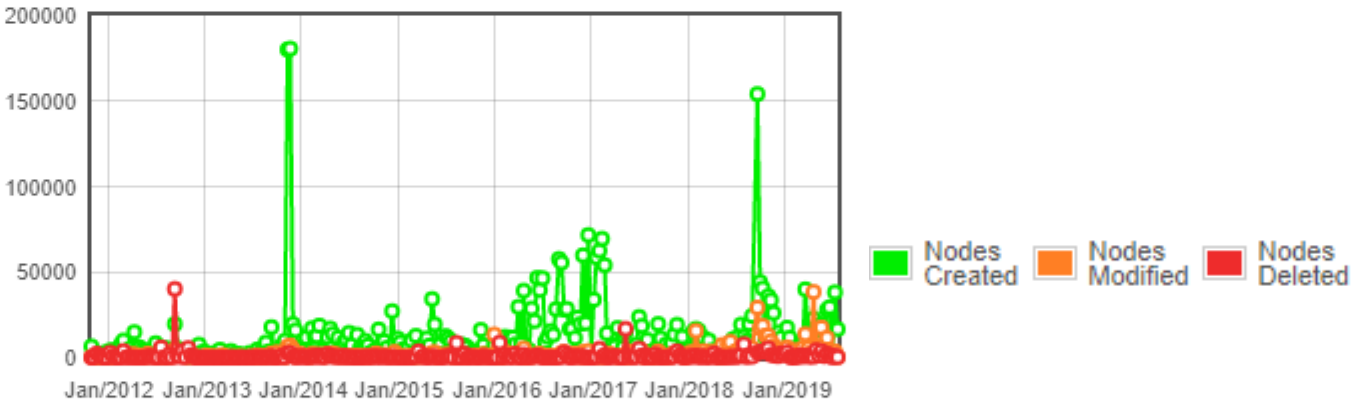
No. of nodes that are daily created/modified/deleted



No. of nodes that are daily created/modified/deleted



No. of nodes that are daily created/modified/deleted (year)



Link: https://osmstats.neis-one.org/?item=countries&country=Philippines

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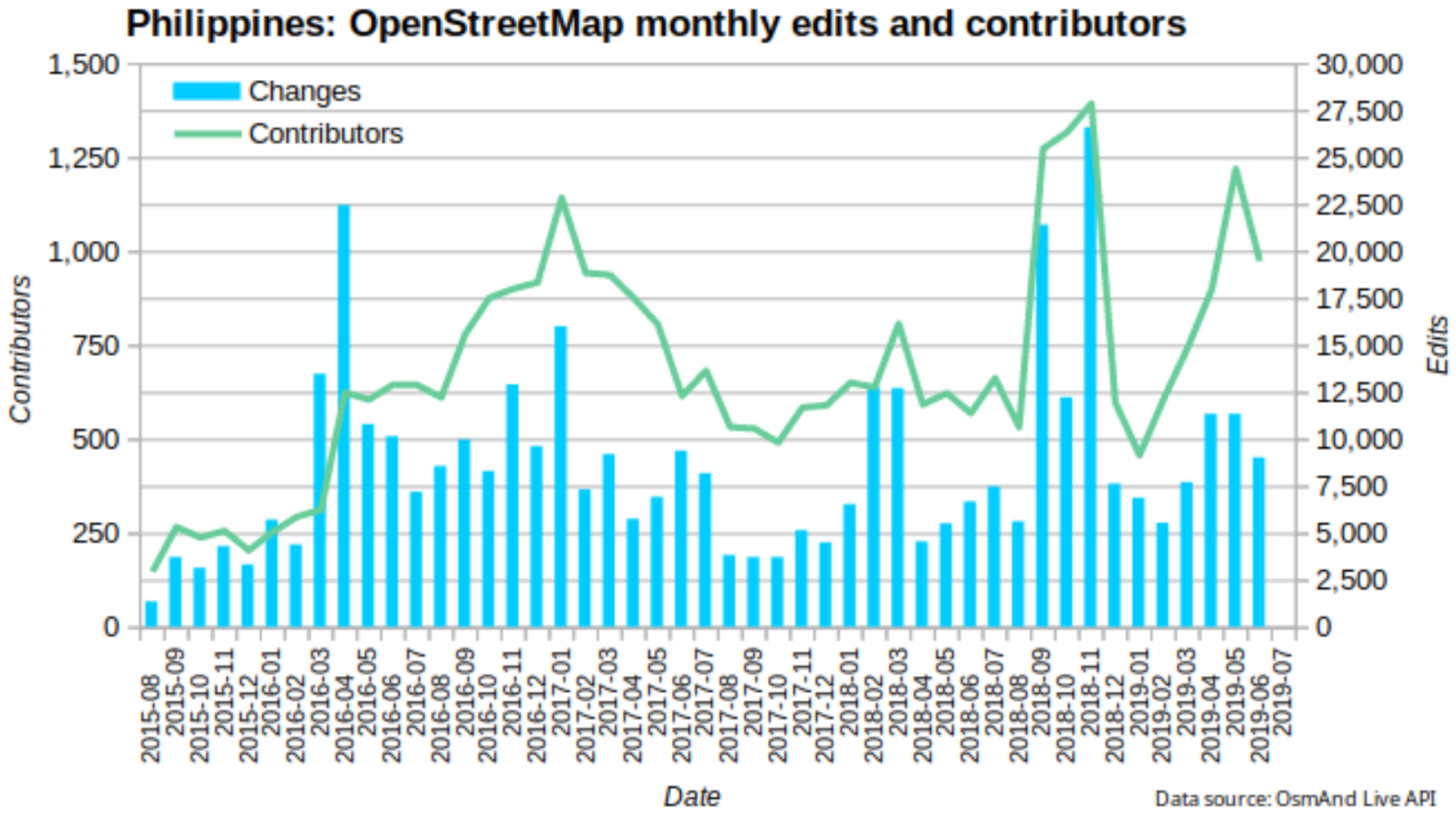
Monthly Edits and Contributors

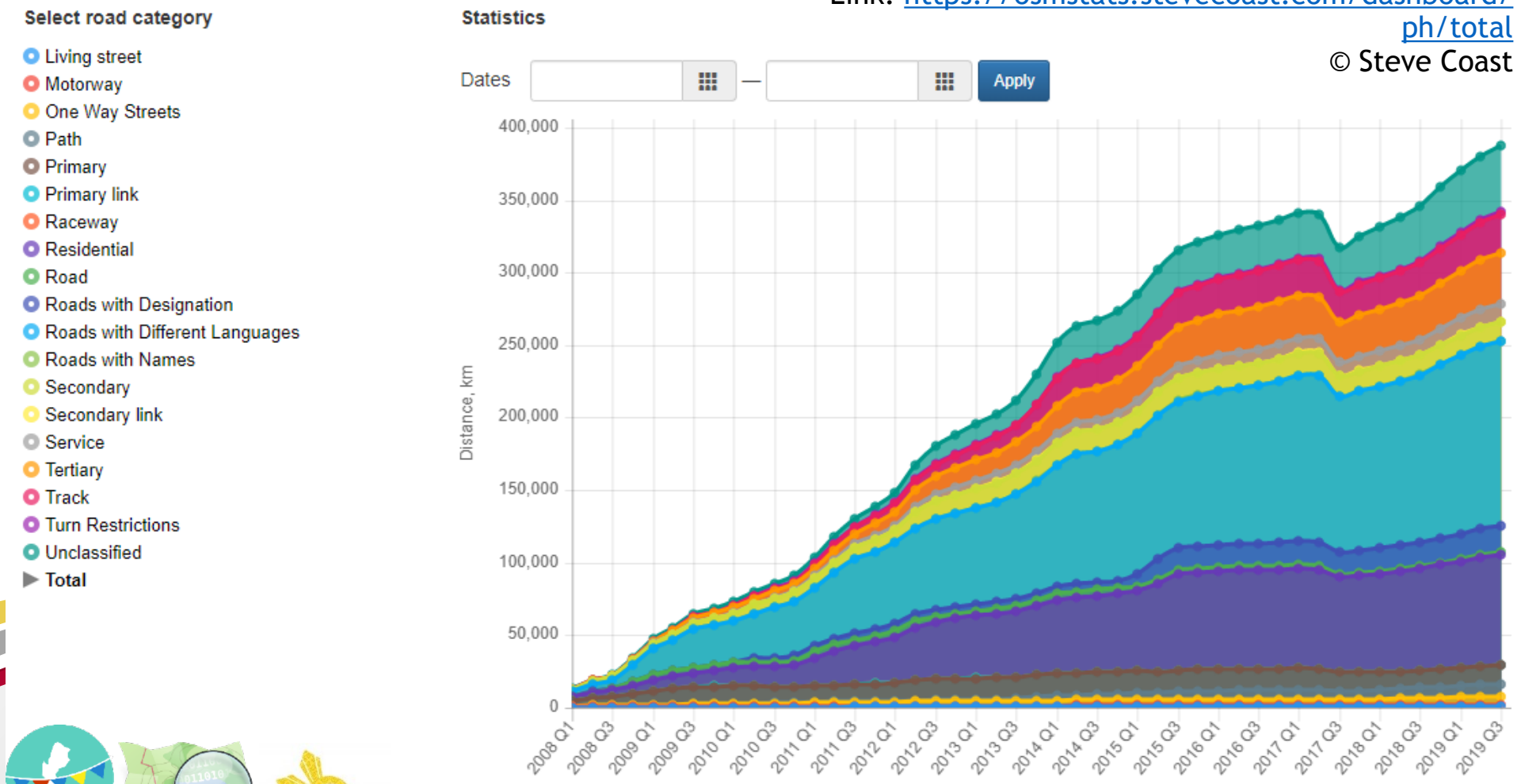


Source: Erwin Olario, @MapAmorePH

Philippine Roads

Link: https://osmstats.stevecoast.com/dashboard/ph/total

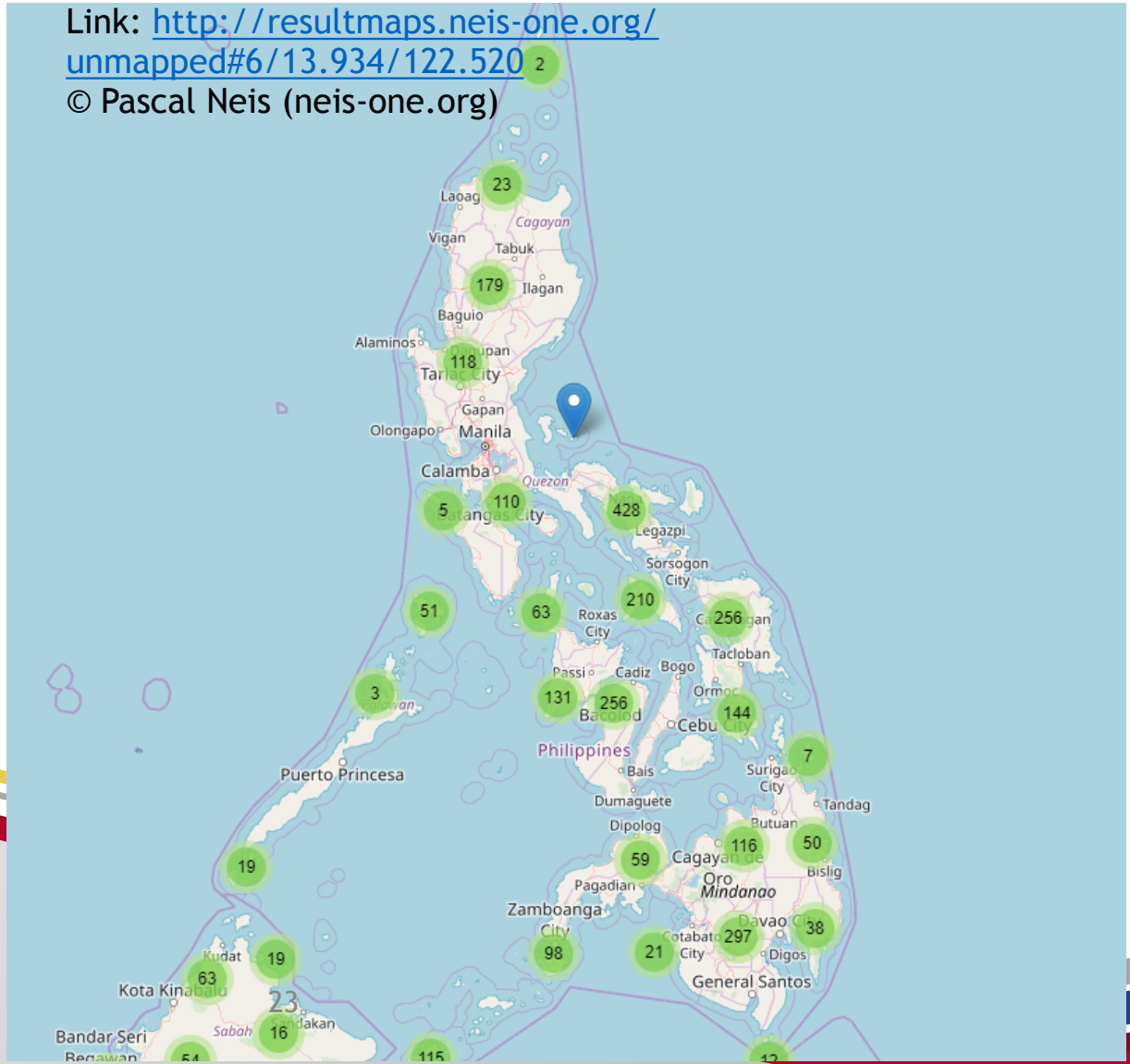
© Steve Coast



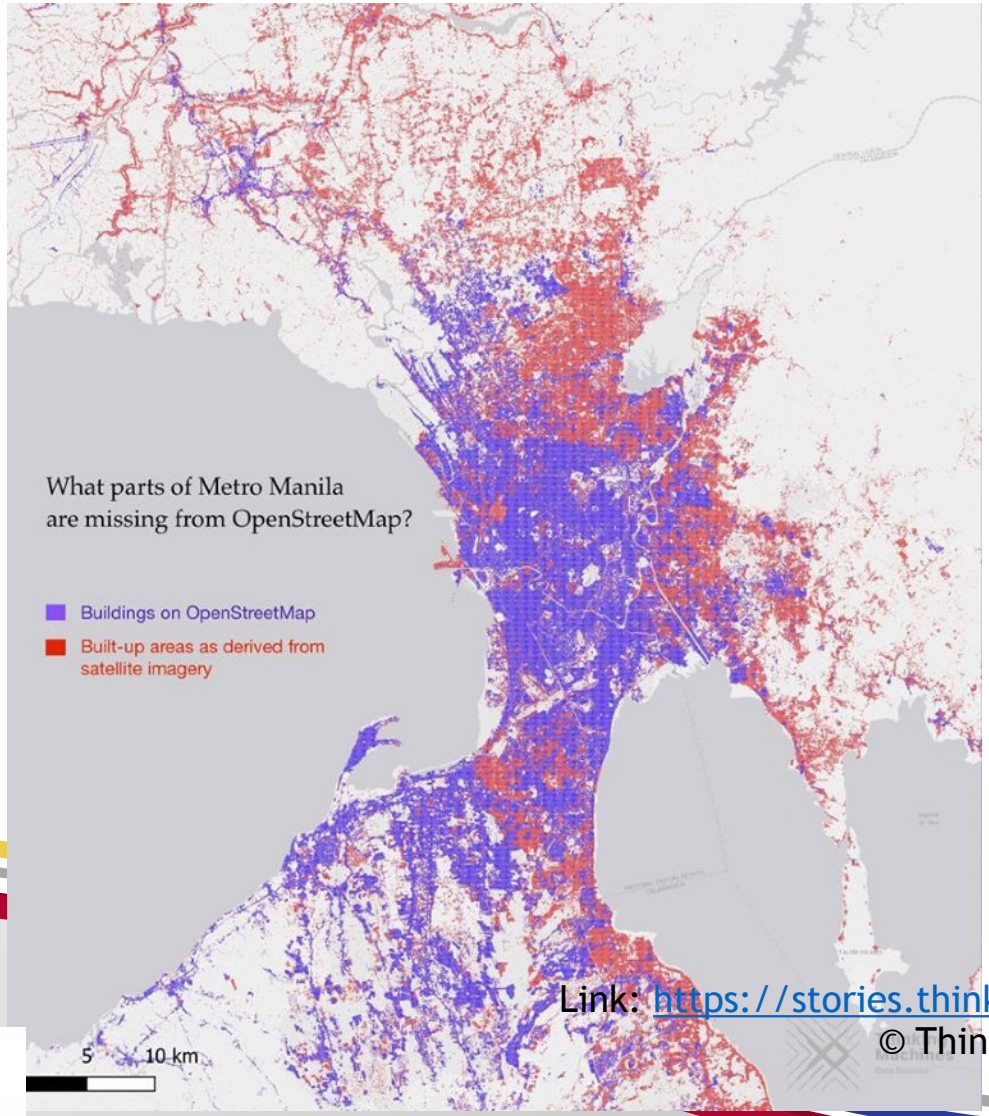
Unmapped places (March 8, 2019)

Link: http://resultmaps.neis-one.org/unmapped#6/13.934/122.520

© Pascal Neis (neis-one.org)



Thinking Machines: #MaptheGap



Link: https://stories.thinkingmachin.es/mapthegap/

© Thinking Machines Data Science

Timeline: Mapping Events

- Outdated Wiki Page / Please help us update!: https://wiki.openstreetmap.org/wiki/Philippines/Timeline
- Mapping Events:
  - Mapathons
  - Workshops/Trainings/Conference
  - Mapping Parties
  - Talks

2016	2017	2018	2019 (Jan-Aug3)
13	9	15	19

Link: https://wiki.openstreetmap.org/wiki/Philippines/Timeline
Source: Erwin Olario, Feye Andal, Pierre See Tiong, MapAmore

2018 Mapping Events

2018: #OmpongPH Mapathons

- Wiki Page: https://wiki.openstreetmap.org/wiki/Philippines/Typhoon_Ompong

Micro-tasking Manager Jobs

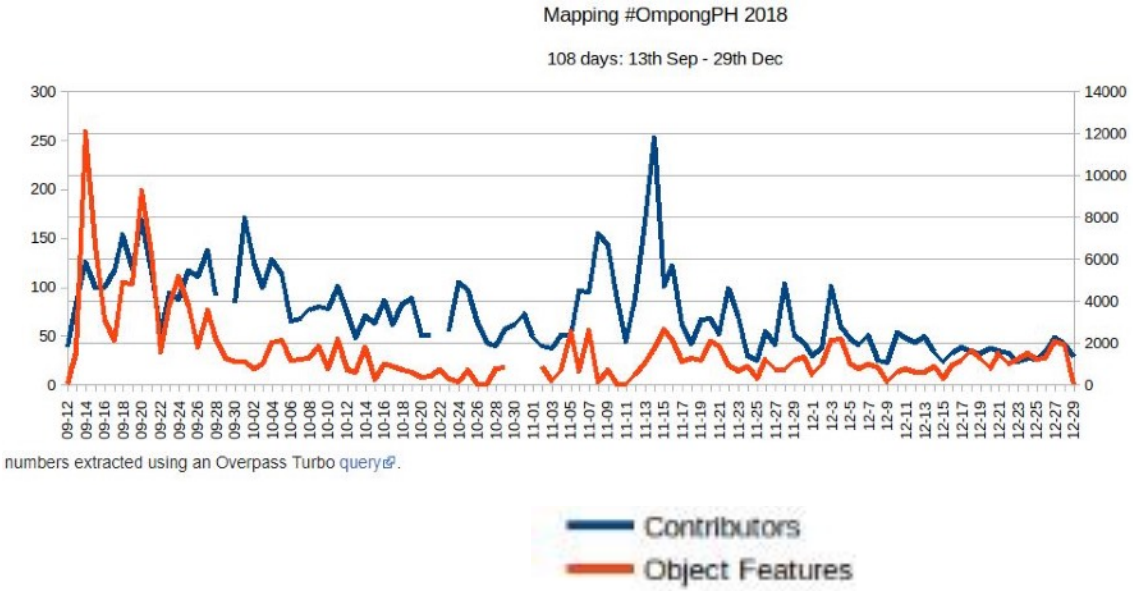
Job	Coverage	Priority features	Status
5236	Cagayan and Batanes Province	Buildings	Complete
5242	Parts of Cordillera Region	Buildings	Complete
5234	Isabela Province	Buildings	Complete

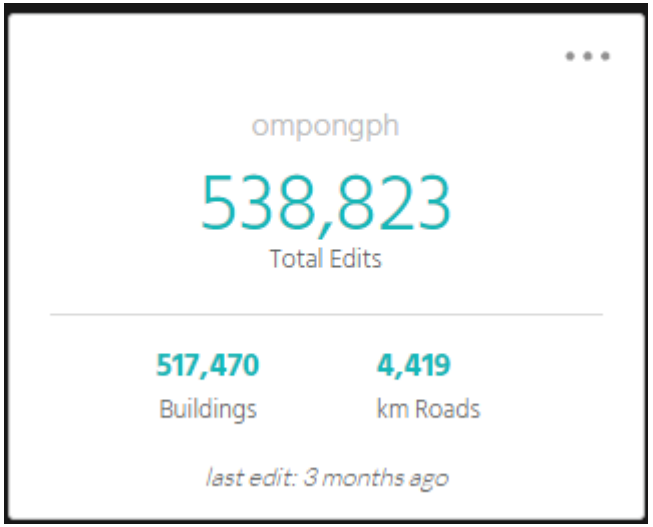
Activities

Date	Activity	Organizer	Host	Supporters	Status	Notes
12-29	MapaTime!	Community	Community		Completed	
10-14	Mapathon	Philippines/PRCVCAD Project	Red Cross @ co.lab		Planned	
10-11	Mapathon	CWTS++ Project	PUP San Juan		Completed	
10-04	Mapathon	CWTS++ Project	PUP San Juan		Completed	
09-23	Mapathon	Community	Red Cross @ co.lab	Kaart	Completed	
09-20	Mapathon	CWTS++ Project	PUP San Juan		Completed	
09-16	Mapathon	Community	Red Cross @ co.lab	Red Cross	Completed	
09-14	Imagery release	DigiGlobe			Completed.	CC-BY-NC 4.0 license, with OSM exception.
09-13	Activation	Community	Online		On-going	

2018: #OmpongPH Mapathons

- Wiki Page: https://wiki.openstreetmap.org/wiki/Philippines/Typhoon_Ompong





Source: MissingMaps

2018: #OmpongPH Mapathons

- Wiki Page: https://wiki.openstreetmap.org/wiki/Philippines/Typhoon_Ompong

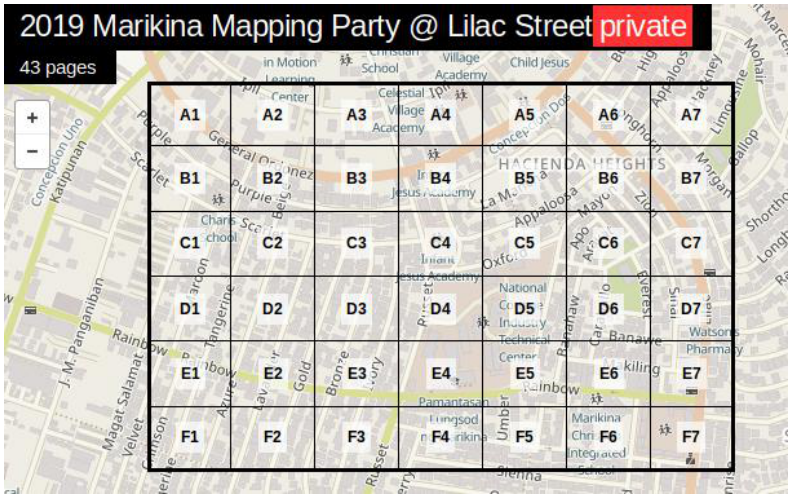
#OmpongPH generated data still usable today!

- Source: PRC and Nick Brown via telegram, https://en.osm.town/@MapAmore/1025111884629753 21

2019 Mapping Events

Marikina Mapping Party

- OSM Diary: https://www.openstreetmap.org/user/GOwin/diary/



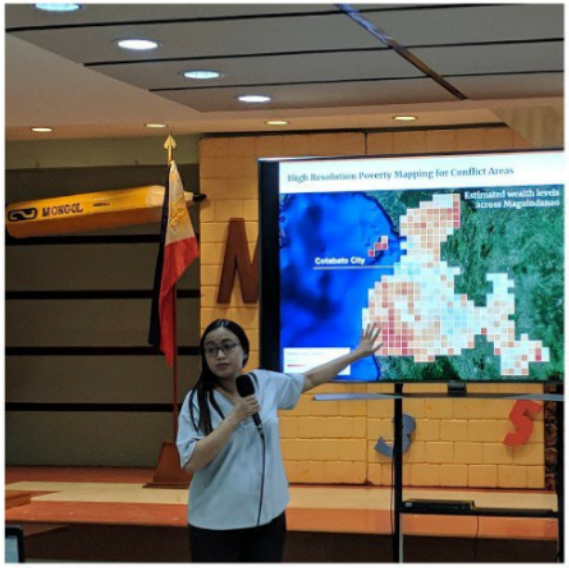
Feb: MapPH-FEU Mapping Party

Open Data Day 2019

- Wiki: https://wiki.openstreetmap.org/wiki/Philippines/MapaTime!/2019-OpenDataDay

Women's Month: MAPAbabae2019

Photos from Erwin Olario



Women's Month: MapHER @ MC

Photos from Erwin Olario

April??

May

Mapathon for Mental Health

- By Andi Tabinas
- Source: https://mentalhealthawhereness.com/2019/07/15/mapathon-1-

May-June

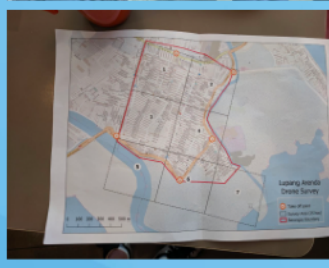
WB- MapPH Mindanao Mapping Parties

GrabPH x OSM Mapathon

- OSM Diary: https://www.openstreetmap.org/user/GrabPHMikko/diary/390215

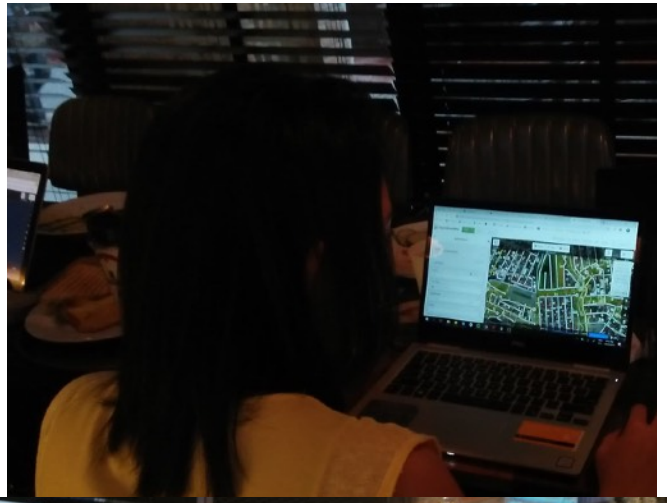
Lupang Arenda Drone Mapping

- OSM Diary: https://www.openstreetmap.org/user/maning/diary/390221



July

Action for Resilient Communities (ARC) GIS x OSM Internal Training



Pista ng Mapa! Woooo!!

Insert Group Photo
(taken 10:00AM)

Upcoming Mapping Events

- OSM 15th Anniversary (August 10)
- ARC Community GIS Training (August 10-1
- Bohol Resiliency Project (Remote mapping
- Geo-awareness Week 2019 (November)
  - UPRI
  - DSWD

From Andre Marcelo-Tanner, 2010

From Erwin Olario, 2018

Source: Erwin Olario, Feye Andal, Pierre See Tiong

Projects (2018 to present)

2018

- **UPRI NOAH Mapping Campuses**
  https://center.noah.up.edu.ph/up-noah-and-openstreetmap-osm-for-building-resilient-up-campuses/
  - Capacity building activity of UP Resilience Institute as a part of its effort to help build resilient communities in the country.

- **PRC VCAD Project**
  https://wiki.openstreetmap.org/wiki/Philippines/PRCVCAD_Project
  - The Vulnerability and Capacity Assessment Digitalization (VCAD) Project under the Philippine Red Cross aims to digitize buildings, settlements, and essential facilities of select communities on OpenStreetMap, covering over 100 barangays in the country.

2019

- **HOT Microgrant Award: Action for Resilient Communities (ARC)**
  https://www.hotosm.org/updates/eight-new-communities-selected-for-2019-hot-microgrants/
  - ARC aims to empower persons with disabilities and youth with mapping skills through workshops, supporting them to map the accessibility of public infrastructure for those living with disabilities. ARC's goal is to create an inclusive environment for all mappers and increase opportunities for individuals of all abilities and ages to take part in their community's

Photo from HOT website

2019

- **Mindanao Mapping Parties 2019 (World Bank-MapPH)**
  https://wiki.openstreetmap.org/wiki/Organised_Editing/Activities/MapPH_Mindanao_Mapping_Party_2019
  - Map agricultural infrastructure such as roads, buildings and farmland of priority areas in Mindanao to address the issue on food security, and to support farmers and families, rural farming and artisan communities. The study results will shape investments from World Bank, government and private sector. The goal of the workshops is to empower communities with free and opensource geospatial tools for more effective collaboration, prioritization and monitoring of programs.

Photo from MapPH Facebook

2019

Building Resilient Communities in Bohol (UPRI-Telus)
https://resilience.up.edu.ph/resources/games-and-apps/40-updates/events/346-join-us

- Improve the structures dataset including building footprints and road network and to produce municipal-level risk maps in the province of Bohol through the use of open-source tools such as OSM, QGIS, and WebSAFE that can be used for disaster risk planning and mitigation.
- HOT Task: https://tasks.hotosm.org/project/6212

Photo from Feye Andal

2019

PhilAware (PDC, HOT, various government agencies in the PH)

https://www.pdc.org/philippines-drr-programs-kick-off-2019/

- Preparedness Baseline Assessment (NDPBA) and the deployment and operationalization of a new custom hazard monitoring and early warning system, PhilAWARE

Photo from NAMRIA Twitter

Building mappers #startthemyoung: 3 Youthmappers Chapters!

Photo from UPRI YM Facebook

Link https://www.youthmappers.org/chapters

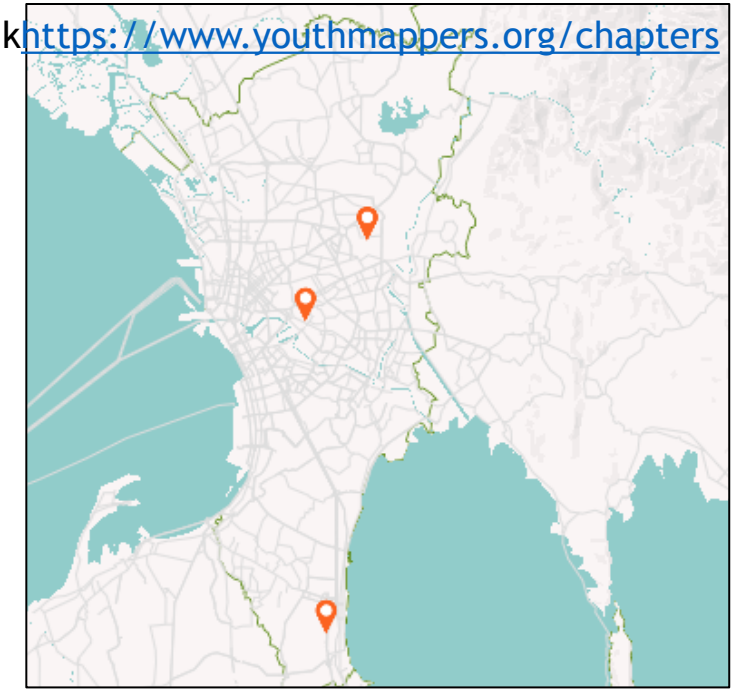


Photo from MapPH Facebook

Photo from Pierre See Tiong

Challenges/Insights/Future Plans

- OSM is used not only in the humanitarian sector, but also for advocacy and research, etc.
- OSM is used by the Government, Non-government and Private Sectors
- Lots of tools to choose from!

Challenges/Insights/Future Plans

- How to **welcome and sustain** new mappers?
- Data quality, Diversity, inclusion, open communities
- Community Privacy Issues
  - Indigenous peoples resources
  - Sensitive facilities (eg havens)

Challenges/Insights/Future Plans

- Pista ng Mapa 2020? ☺️
- SotM International Conference (Asia or Worldwide)? ☺️

Get connected! OSM PH Channels

Mailing list:
https://lists.openstreetmap.org/listinfo/talk-ph

Facebook Page:
https://fb.com/OSMph
Facebook Group:
https://fb.com/groups/osmph

Telegram:
https://t.me/osmph

Wiki Links

OSM WikiProject: https://wiki.openstreetmap.org/wiki/WikiProject_Philippines
https://wiki.openstreetmap.org/wiki/Category:Philippines

OSM PH, Inc.: https://wiki.openstreetmap.org/wiki/OpenStreetMap_Philippines_Inc.

Mapping Convention: https://wiki.openstreetmap.org/wiki/Philippines/Mapping_conventions

Node Density Maps: https://wiki.openstreetmap.org/wiki/Philippines/Node_density_maps

Timeline (outdated, only until 2014):
https://wiki.openstreetmap.org/wiki/Philippines/Timeline

References

- Past State of OSM: Philippines presentations (Sir Maning Sambale and Erwin Olario
- Verbal/chat communications/consultations with OSM PH volunteers
- Sources indicated per slide

#GeoLadies Invitations

- When Woman Map Workshop
  1:30 – 3:00 PM, IT Room
- GeoLadiesPH Plenary Session
  3:20 – 4:30 PM, Sofia Hall

#GeoLadies Invitations: Talks

- Day 1
  - Introduction Workshop to OSM
    1:00 - 2:30 PM CS Lab 2
  - Human Experience Design for Maps
    3:00 - 4:30 PM CS Lab 2
- Day 2
  - “DIY” Imagery Collection for Mapping
    10:30 AM – 12 NN CS Lab 2

August 1-3, Foundation University, Dumaguete

PISTA NG MAPA

open data & software • free maps • community • talks • workshops

KAART

Hivos people unlimited

mapbox

Grab

Mapillary

UAV4GEO