

Technical Note on Dot Sampling Method

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1 Sets of Latitude and Longitude for sample dots

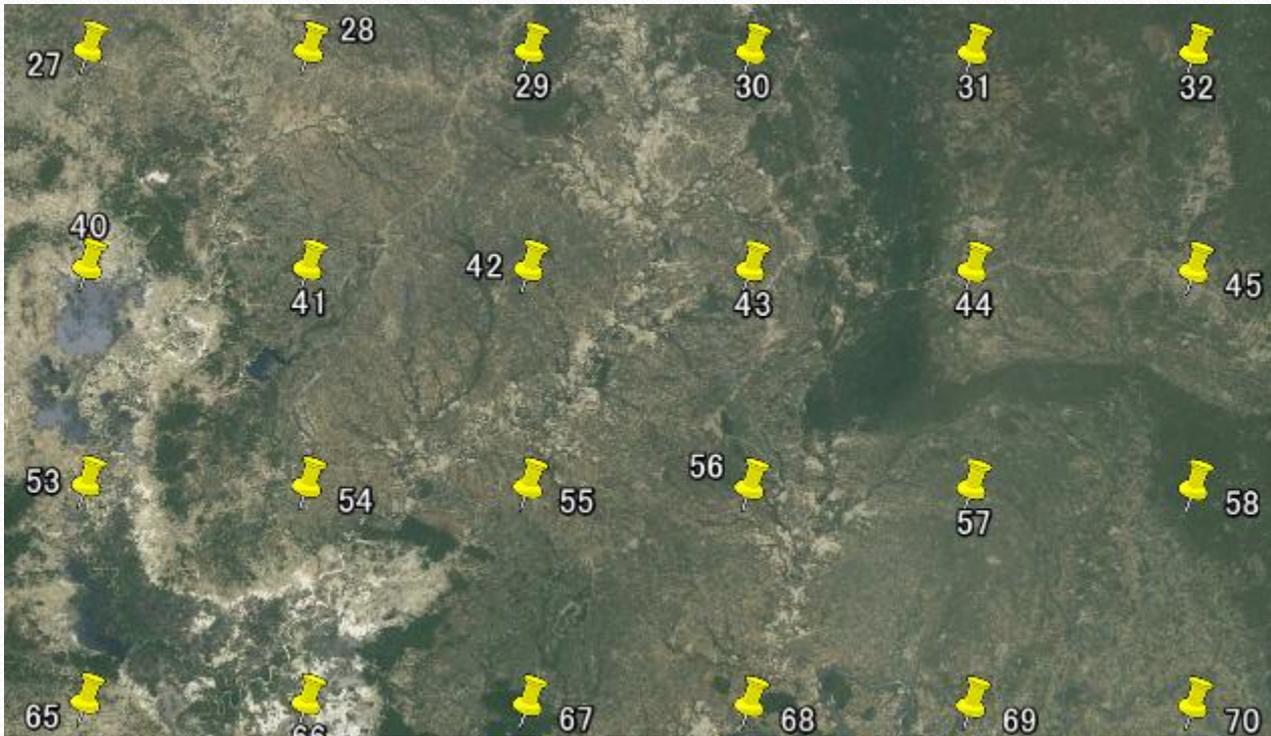
Longitude→ Latitude ↓	99.961657	100.1070334	100.2524099	100.3977863	100.5431
22.524773	22.524773,99.961657	22.524773,100.10703342814	22.524773,100.25240985628	22.524773,100.39778628442	22.524773,100.54316271:
22.38604667	22.3860466707936,99.96165	22.3860466707936,100.1070	22.3860466707936,100.2524	22.3860466707936,100.3977	22.3860466707936,100.5
22.24732034	22.2473203415872,99.96165	22.2473203415872,100.1070	22.2473203415872,100.2524	22.2473203415872,100.3977	22.2473203415872,100.5
22.10859401	22.1085940123808,99.96165	22.1085940123808,100.1070	22.1085940123808,100.2524	22.1085940123808,100.3977	22.1085940123808,100.5
21.96986768	21.9698676831744,99.96165	21.9698676831744,100.1070	21.9698676831744,100.2524	21.9698676831744,100.3977	21.9698676831744,100.5
21.83114135	21.831141353068,99.961657	21.831141353068,100.10703	21.831141353068,100.25240	21.831141353068,100.39778	21.831141353068,100.54

Area 236.888.000.000 m²
 Area/1000 236,888,000 m²
 Between dot 15,391.1663 m

Interval of dot:
 Latitude 0.138726329
 Longitude 0.145376428

(cf.)Equivalent of 1 km:
 Latitude 0.0090133734198
 Longitude 0.00944544587
 (in the case of Lao PDR)

2 Sample Dots on Google Earth



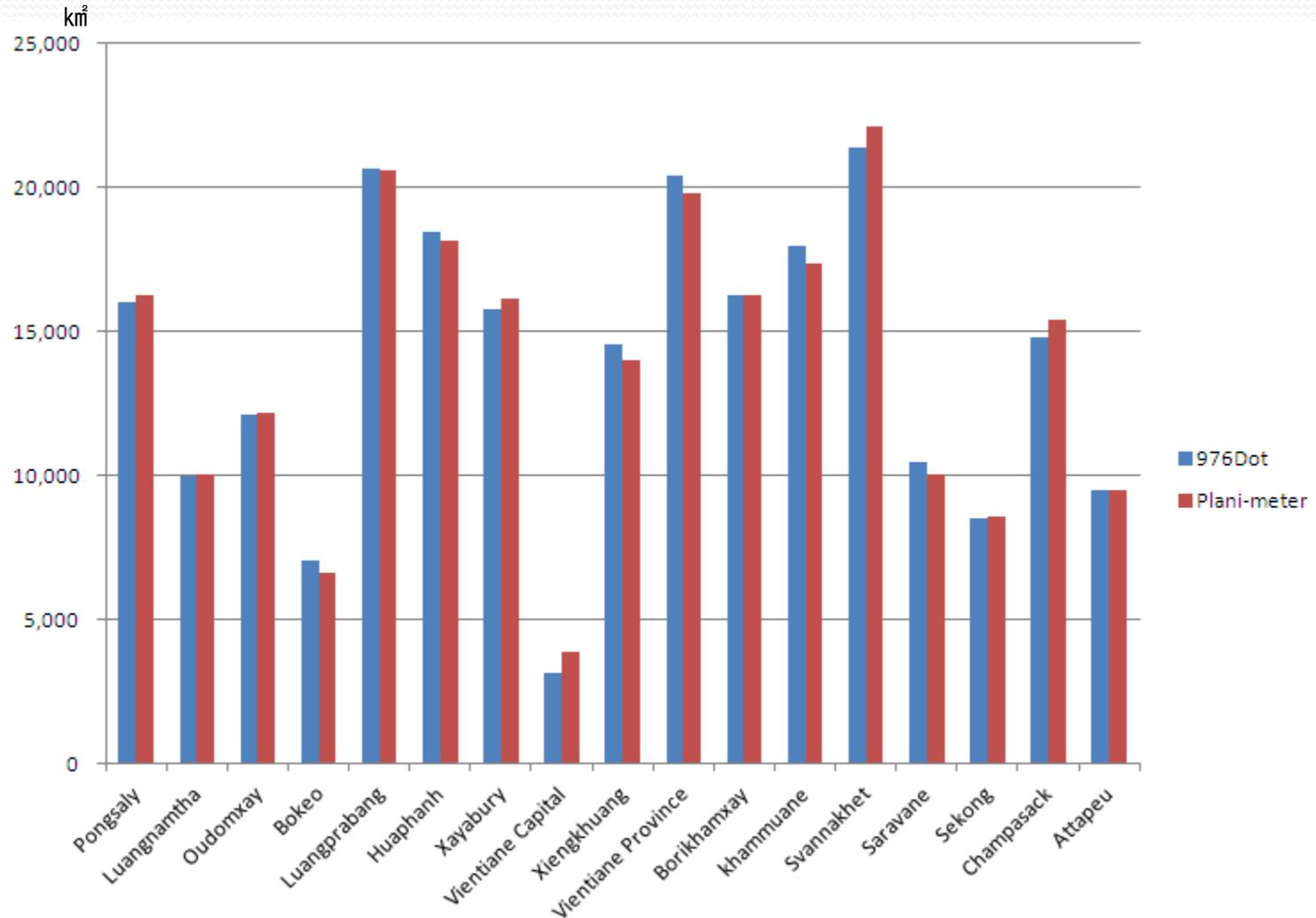
3 Check the category on Google Earth



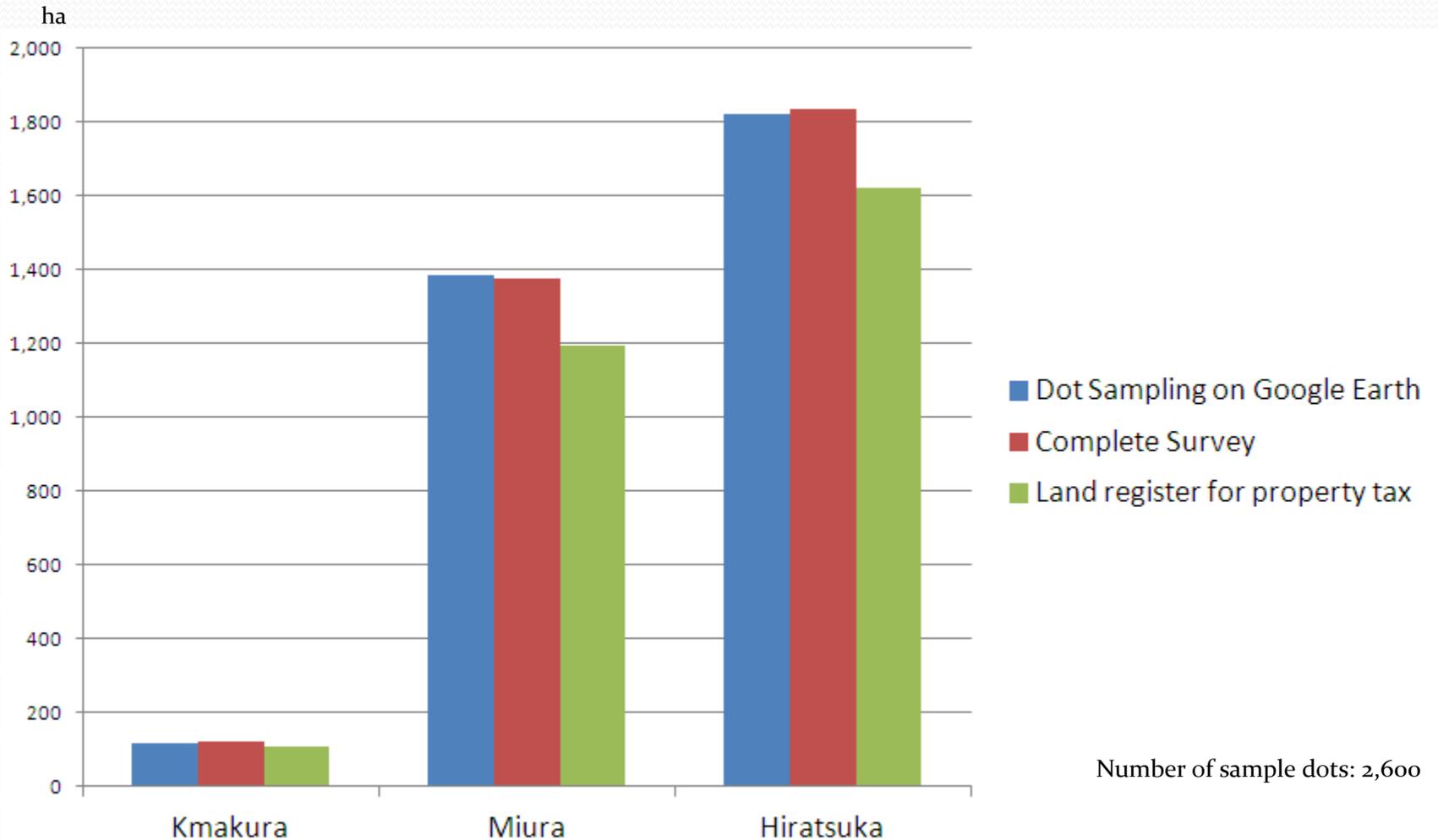
4 Estimation of area on Google Earth

	Dot	Share (%)	Area (ha)
Planted area	40	4.1	970,852
Dyke in cultivated area	7	0.7	169,899
Tree/rock in cultivated area	2	0.2	48,543
Non-cultivated area	868	88.9	21,067,498
Land usage unidentified	59	6.0	1,432,007
Total	976	100	23,688,800

5 Area of Prefectures using Dot Sampling Method



6 Three types of area at Kamakura city etc. by Mr. Jinguji



7 Issues

- Reliability of border lines
- Border lines for small region
- Map reading ability of enumerators

8 Voices of Trainees

- Dot sampling method is new methods and very interested, can estimate land use by Google earth.
- Google earth is quite useful for land use surveys
- I will practices more and read document materials to understand further. I want to apply this method in my country.
- Dot sampling is an appropriate method to be used in my country to estimate crop area because it is quick, easy to learn and cost effective.
- This is simple method and easy to learn.
- This is feasible method to survey planted area.
- This method and lecturer helps me to know how to use the Google earth and how to survey the planted area.
- This new technique which need use of computer is very good for developing countries and developed countries (Liberia and Japan).
- This method is very interesting and we try to implement in my country. Since this is the new technique it will take sometime to convince the officials back home
- This method of measuring land planted is good in that it less costly as there is no need to go in the real field collecting such data. It is also faster than the tradition one of questionnaire.
- After this session, I found that land used survey is not difficult. Moreover, this method is possible to survey on the large area in the country.
- I would use this method to conduct survey on rice cultivation area in my country.

8 Voices of Trainees (continued)

- I would say that land used survey is nothing difficult and it would be very useful for my department.
- The method is not only accurate but also interesting and inviting even to the e-generation.
- Large areas can be covered without physically being there. Some areas like swamps or steep slopes can be estimated with ease.
- Staff using the method needs good experience in computer operating packages. Retraining could be necessary.
- It will be limited in use due to limited internet access in rural Kenya.
- Dot sampling is an efficient technique to conduct many surveys particularly land use survey and planted area survey.
- Use of Dot Sampling is easy, cheap and faster in estimating planted area.
- I was interested and I want to apply dot sampling method in my country.
- Google Earth is quite useful for land use survey.
- I will read materials to understand further.
- The method is scientifically correct and help to cover a large area without physically visits the place of far off areas by road.
- It is faster and easier to estimate planted area but need more knowledge in Excel and Google maps use on computer.
- It can solve the problems of illegal settlements, encroachment and land disputes.
- Dot sampling is interesting and easy to understand.
- Dot sampling method requires little efforts.
- Sampling is easily done on the computer.

Thank you for your kind attention.