



Food and Agriculture
Organization of the
United Nations



7th Asian Soil Partnership MEETING

9-10 March 2022

National updates on soil: Cambodia

Dr. Seng Vang

Department of Agricultural Land Resources Management

General Directorate of Agriculture

Ministry of Agriculture, Forestry and Fisheries



Main activities implemented under Pillar 1

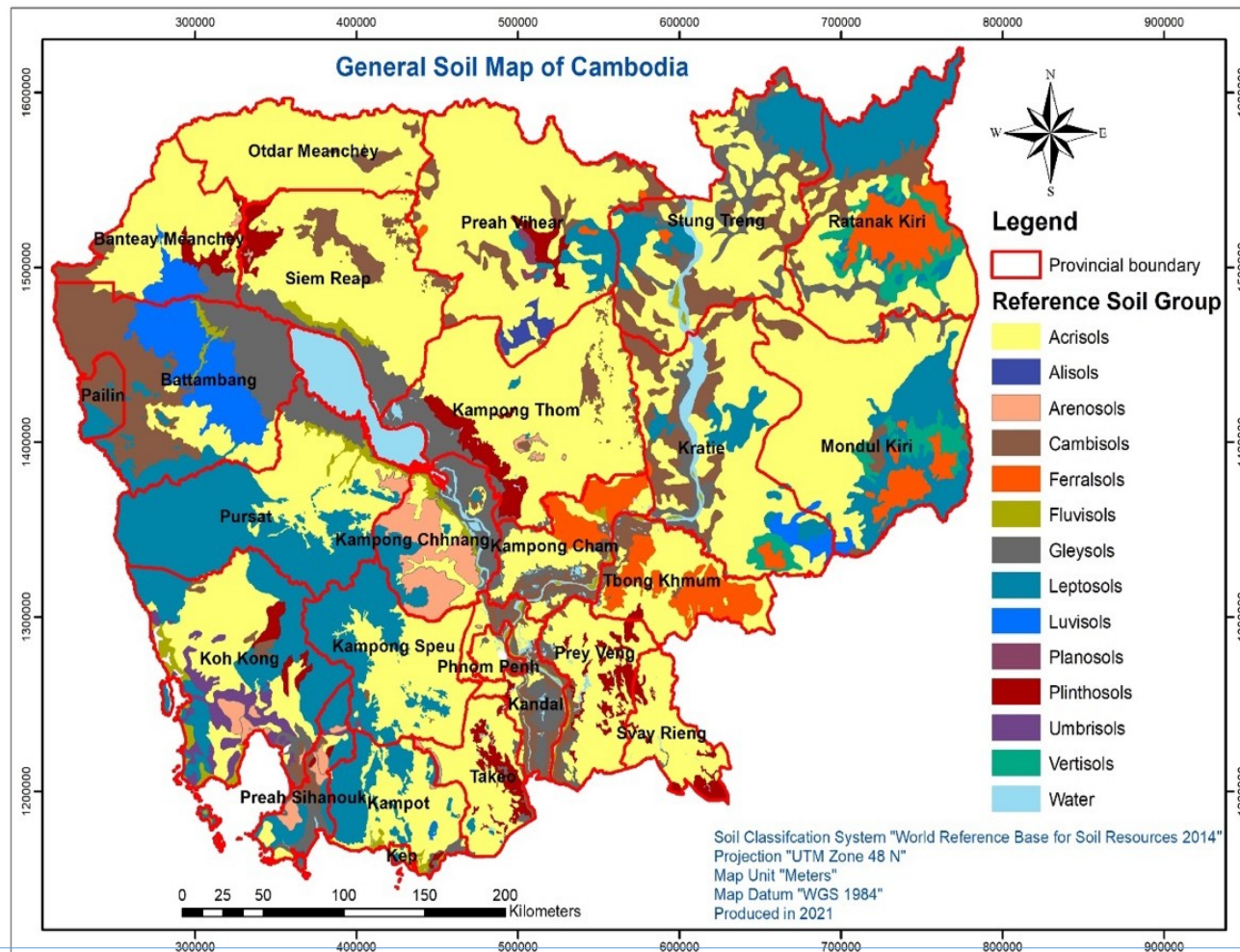


Promote sustainable management of soil resource protection, conservation and sustainable productivity



Main activities implemented under Pillar 1

WRB Soil Map of Cambodia



Kingdom of Cambodia
Nation Religion King
3



Ministry of Agriculture, Forestry and Fisheries
General Directorate of Agriculture
Department of Agricultural Land Resources Management

The WRB Classification of CAMBODIAN SOILS



Phnom Penh, 16 May 2022

With supported by AFACI/RDA “SOIL Project” and coordinated by FAO,
Cambodia had produced the WRB Soil Map and submitted to FAO in 2021

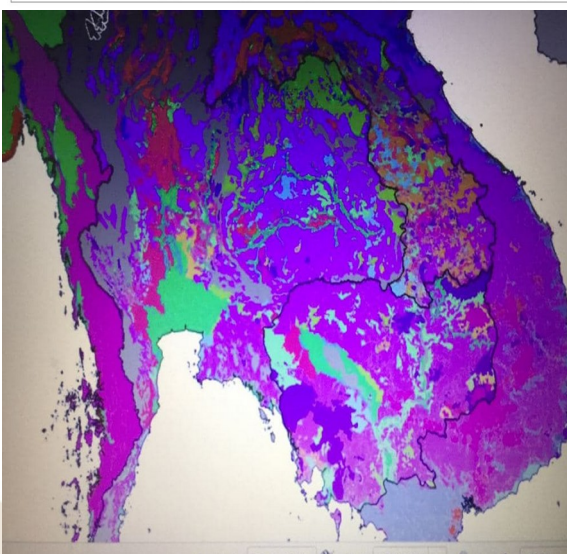
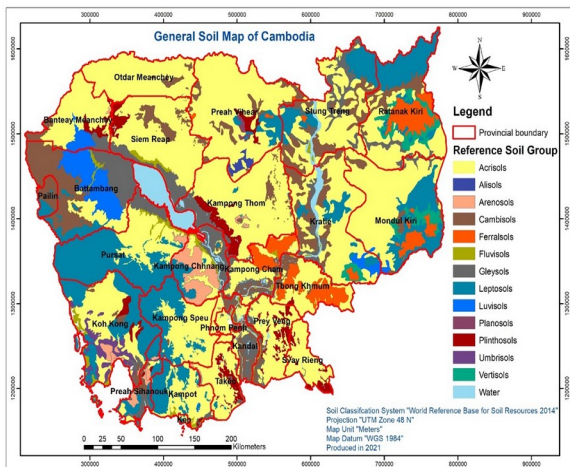
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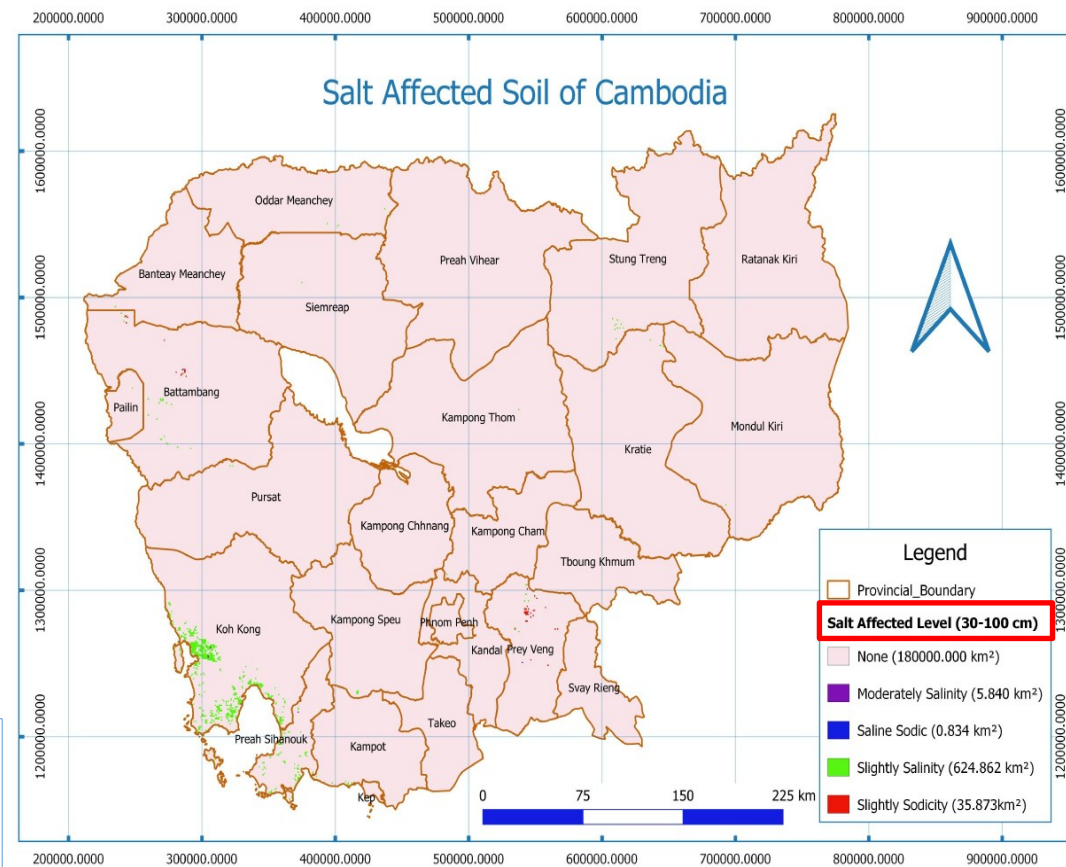
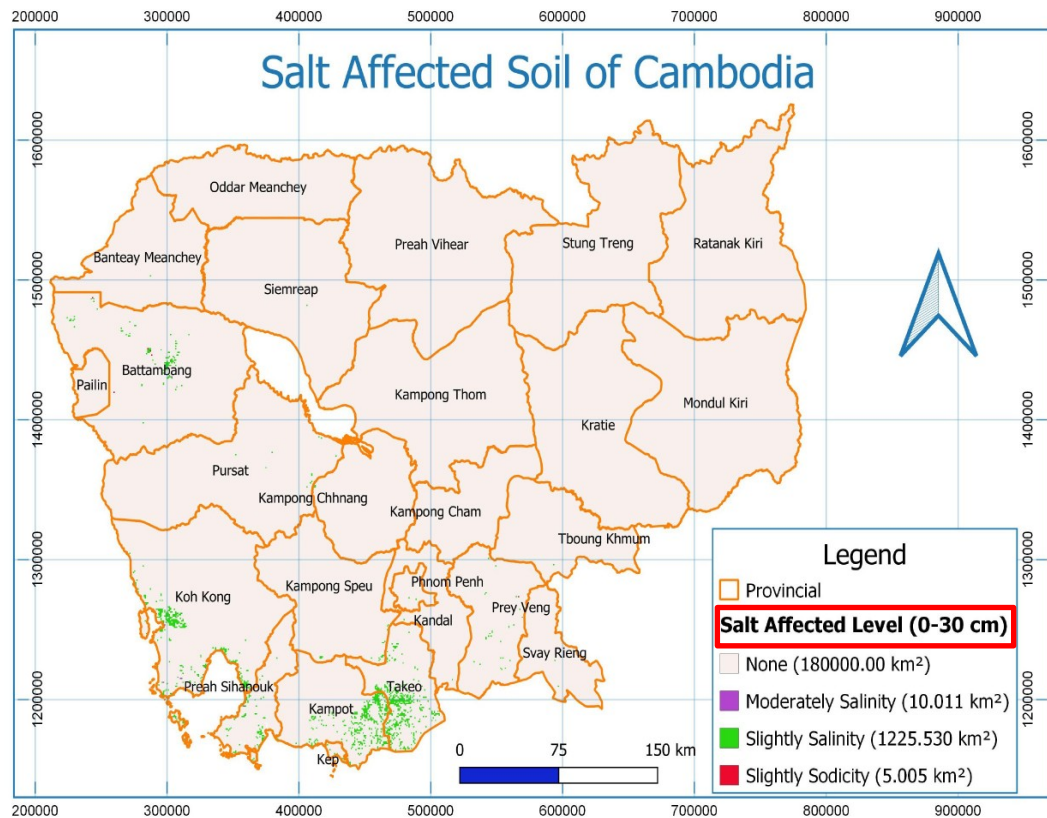


Distributions of WRB Soil Resources in Cambodia



No	Reference Soil Group	Land Area (ha)	Land Area (%)
1	Acrisols	9,146,252.541	50.405
2	Alisols	38,210.818	0.211
3	Arenosols	320,482.134	1.766
4	Cambisols	1,751,581.577	9.653
5	Ferralsols	650,165.451	3.583
6	Fluvisols	213,284.331	1.175
7	Gleysols	1,301,344.417	7.172
8	Leptosols	2,938,213.875	16.193
9	Luvisols	446,969.745	2.463
10	Planosols	22,688.386	0.125
11	Plinthosols	463,909.064	2.557
12	Umbrisols	143,485.288	0.791
13	Vertisols	245,387.576	1.352
14	Water	463,458.749	2.554
	Total	18,145,433.951	100.000

Main activities implemented under Pillar 1

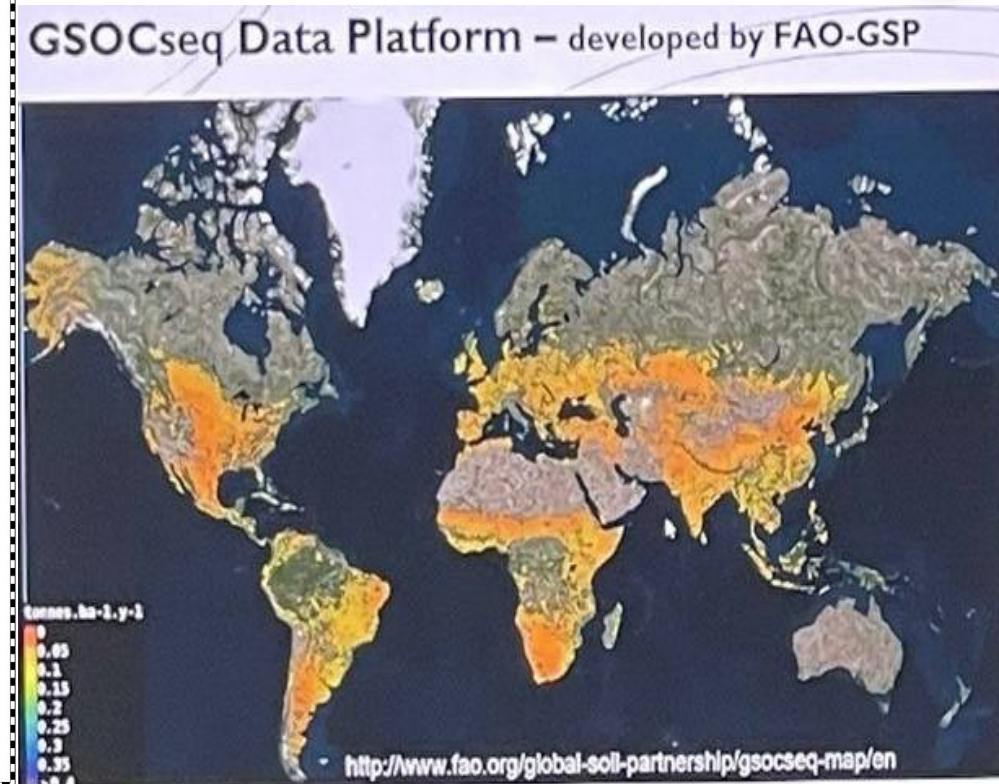
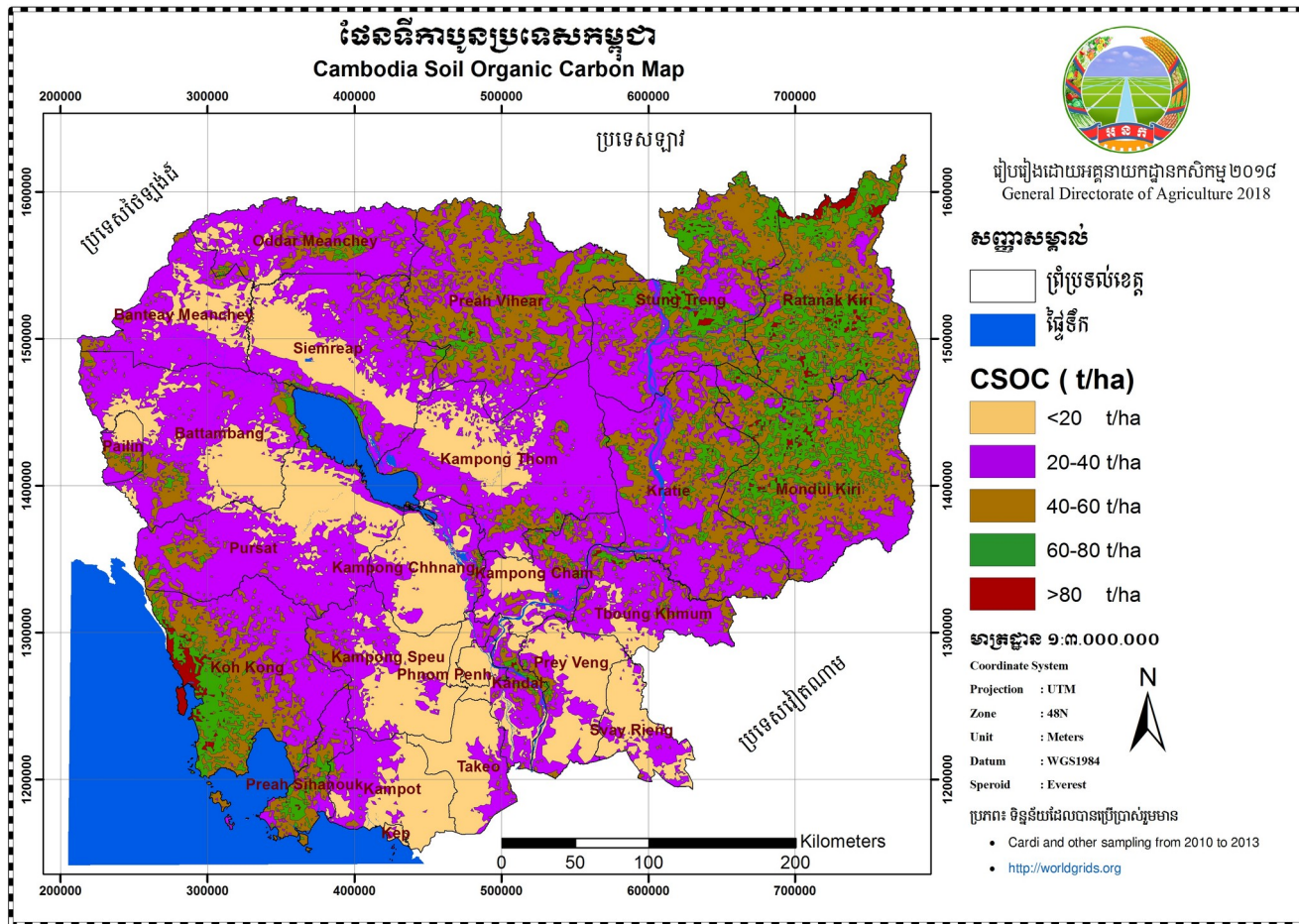


With supported by AFACI/RDA “SOIL Project” and coordinated by FAO, Cambodia had produced the Salt Affected Soil Map and submitted to FAO in 2021

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Main activities implemented under Pillar 1



With supported by AFACI/RDA “SOIL Project” and FAO, Soil Organic Carbon map was produced in 2018, and Soil Organic Carbon Sequestration map was produced in 2021, and submitted to FAO in 2018 and 2021, respectively



Main activities implemented under Pillar 1



1. Initiative on Soil Conservation

DEI MEAS - ដីមាស
 “Golden soil”
 March 2022

A TRANSITIONING SYSTEM FOR A CHANGE TOWARDS AGROECOLOGICAL PRACTICES



2. SOC event

Event on Soil organic C and Greenhouse gas emissions Status and Ways forward
 25th March 2022

Organized by the R4D subcommittee led by DALRM and CIRAD



Main activities implemented under Pillar 2



Encourage investment, technical cooperation, policy, education awareness and extension in soil

- **Institutional capacity building through AFACI SOIL Project:**
 - Digital soil mapping
 - WRB workshop for the preparation of Soil Atlas of Asia
 - Soil organic carbon sequestration mapping
 - Soil profile database management
- **Contribution of Case study and policy brief:**
 - Case study: Developing climate-smart land use and land management through community learning in newly developed rural areas of southern Cambodia
 - Policy brief on Building healthy soils for climate-resilient farming systems in Cambodia
- **Soil Doctor Program (Cooperation with LDD of Thailand under Lancang-Mekong special fund)**
- **Attended 3rd and 4th Editorial board meetings.**

Main activities implemented under Pillar 3

Promote targeted soil research and development focusing on identified gaps and priorities and synergies with related productive, environmental and social development actions



5. CHAPTER 5: LAND RESOURCES AND SOIL QUALITY

5.1 PRESSURE

5.1.1 Socio-economic changes

5.1.2 Land use, land cover changes

5.1.3 Land degradation

5.2 STATE AND TREND

5.2.1 Growth of agriculture land and decline of forest land

5.2.2 Land use by main sectors

5.2.3 National land resources assessment

5.2.4 Annual growth of chemical fertilizers and pesticides

5.3 RESPONSE

5.3.1 Sustainable land use planning

5.3.2

Guidelines/instruction of chemical fertilizers and pesticides use

5.3.3 Legal instrument

5.4 TREND ASSESSMENT AND RECOMMENDATIONS

5.5 CONCLUSIONS

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Main activities implemented under Pillar 4

Enhance the quantity and quality of soil data and information : data collection (generation), analysis, validation, reporting, monitoring, and integration with other disciplines

Further connecting with FAO for technical supports to:

- Produce Soil Property mapping
- Develop National Soil Profile database management



Main activities implemented under Pillar 5



Harmonization of methods, measurements and indicators for the sustainable management and protection of soil resources

- Harmonization WRB soil resource for Development of the Soil Atlas of Asia and National Soil Information System
- Development of Soil Survey Handbook for Cambodia





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Thank you,

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