

Progress of the INBS

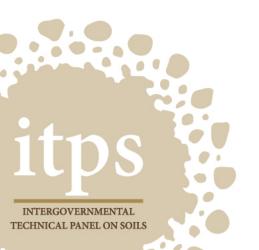
- ☐ Urgent request from GSP secretariat for publishing the Report of Global Status of Black Soils Report with the GBSmap and presenting in the **10**th GSP Plenary Assembly.
- Lead authors of chapters have submitted the final manuscripts to GSP secretariat.

 The report is under review by experts of ITPS and INBS members
- The approach of **Black Soil distribution map** has been developed with an additional approach to predict black soil distribution of countries without requested data. **14** countries developed and submitted their black soil maps, including countries with large areas of black soils, such as Russian Federation, China, Argentine, Ukraine, United States, Canada, Uruguay and Brazil.





- Introduction
- (Lead author, Mr. Ivan Vasenev)
- Co authors: Lucia Anjos, Alexei Sorokin, Yuxin Tong, Maria Konyushkova, Miguel Taboada
- Zero version of the chapter has been developed.





2. Portrait of Black soils (explanatory text to the national map of Black soils, coordinated by P4WG of GSP) (all countries, at least 20 countries).

(Lead author, Mr. Marcos Esteban Angelini)

Chapter status

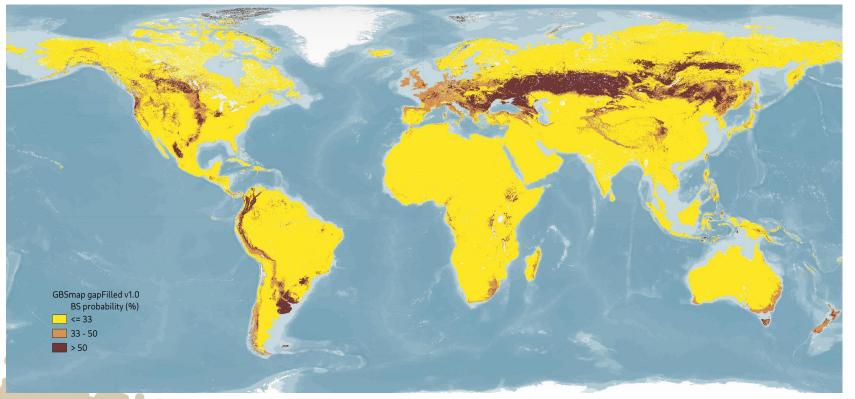
Submitted countries: Ukraine, Syrian, Slovak, Bulgaria, Mongolia, Poland, Brazil, Canada, Agentina, Uruguay, Japen, China, Colombia, Thailand, US.

Zero version has been developed



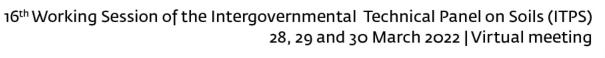


Global Black Soil Distribution Map (GBSmap) has been developed and will be included in Chapter 2



Countries	BS area km2		
Russian Federation	3,284,671		
Kazakhstan	1,076,027		
China	549,842		
Argentina	420,057		
Mongolia	386,076		
Ukraine	348,172		
United States of America	329,250		
Canada	295,402		
Colombia	251,994		
Mexico	122,386		
Romania	117,391		
Peru	106,992		
Brazil	89,869		
Poland	78,690		
Uruguay	74,771		
Bulgaria	69,427		
Serbia	59,268		
Ecuador	54,188		
France	50,511		
Indonesia	49,547		





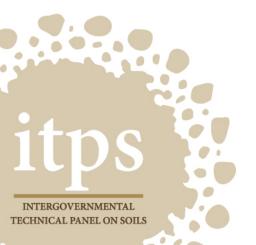


3. Regional status of Black soils: status of land use, management, changing trend of soil properties (Lead author, Mr. Pavel Krasilnikov)

Chapter status

Submitted countries: Russia, China, Colombia, Agentina, Kyrgyz, Syrian, Poland, Brazil, Ukraine, South Africa, Chile, Japan, Netherlands.

Draft version has been finalized





4. The challenges to black soils and the ways/practices to overcome them

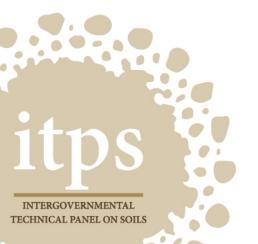
(Lead author, Mr. William May and Mr. Xiaoyuan Geng)

Chapter status

Submitted countries: China, Colombia, Agentina, Canada, Syrian, Slovak, Mongolia, Brazil, Kyrgyz, Ukraine, Brazil.

Committed countries: Russia, Georgia, Thailand, India.

Draft version has been finalized





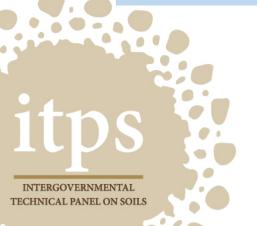
5. Potential response (Policy recommendation)

(Lead author, Mr. Luca Montanarella)

Chapter status

Submitted countries: China, Colombia, Agentina, Canada, Syrian, Poland, Russia, Uruguay, European Union, Bulgaria, Slovak, Mongolia, Brazil, Ukraine, Thailand, Colombia.

Draft version has been finalized

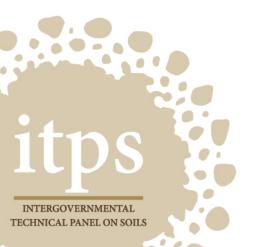




Work plan of INBS 2022

Agenda for the report publication

2021				
March April		May		
Finalize draft version Integrated	Review by INBS members	Publish and launch		

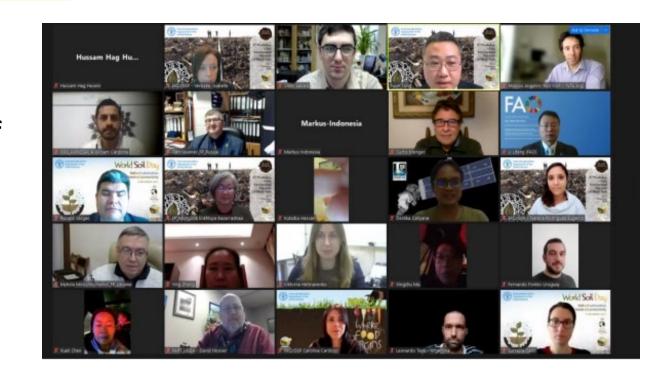


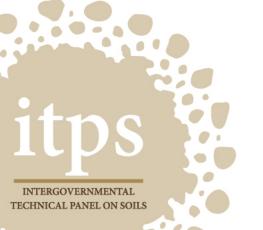


3rd Workshop of the INBS

13-14 December 2021 - Goals

- Develop INBS Work plan 2021-2022
- Establish the International Research Institution of Black Soils (IRIBS)
- Discuss development of the Report of Global
 Status of Black Soils
- Discuss the GBSmap methodology.







Cooperation with GLOSOLAN

- Harmonization of SOPs (Procedures) on organic carbon content
- Platform:
 - Black soil monitoring platform under the INBS framework.
 - International Research Institution of Black Soils

The methods to quantify SOC already harmonized by GLOSOLAN are the following:



SOP Walkley-Black method - titration and colorimetric method (EN | ES | RU)

Soil organic carbon - Tyurin colorimetric method (EN | RU)



Training video: Walkley and Black - titration method

Training video: Walkley and Black - colorimetric method

Method	Risk for human health related to the use of chemicals and the overall implementation of procedure by staff	Environmental risk (waste disposal)	Level of technology required	Average duration of the analysis	Global median price of the analysis (for the customers)
Walkley & Black	High	High	Low	Up to one working day	6 USD
Tyurin	High	High	Low	Up to one working day	7.6 USD

f the Intergovernmental Technical Panel on Soils (ITPS) 28, 29 and 30 March 2022 | Virtual meeting



