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Division of Global Copper Metallogenic Belts

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1 Introduction

To implement China's "going out" of copper resources strategic goals and guide domestic enterprises abroad for copper exploration, the Central Geological Exploration Fund Management Center established a risk prospecting special fund project of foreign mineral resources "Global distribution of copper resources and regionalization of prospecting strategy". The beginning and ending time of project: 2011-2013. Relying on the project research result, the global copper metallogenic belts are divided in this

paper.

2 Global Copper Metallogenic Belts

Based on the plate tectonic division and World metallogenic map of large and superlarge deposits at scale 1:25000000 (Pei Rongfu et al., 2009), the global copper metallogenic belts are divided into three levels: (1) four metallogenic domains; (2) twenty-one copper metallogenic provinces; (3) sixty-four copper metallogenic belts. Detailed division is shown in table 1.

Table 1 The division table of global copper metallogenic belts

Metallogenic domains	Copper metallogenic provinces	Copper metallogenic belts
I -Pacific rim metallogenic domains	I -1 Andes copper metallogenic province	I -1-1 Chile - Argentina copper belt
		I -1-2 Peru and its neighboring area copper belt
	I -2 Cordillera copper metallogenic province	I -2-1 Northern Cordilleran copper belt
		I -2-2 Southern Cordilleran copper belt
	I -3 The Chukchi - Okhotsk copper metallogenic province	
	I -4 West Pacific Marginal copper metallogenic province	I -4-1 East Asia copper belt
		I -4-2 Circum- Pacific porphyry copper belt (China)
	I -5 Philippines - New Zealand copper metallogenic province	I -5-1 Philippine islands copper belt
		I -5-2 New Guinea copper belt
		I -5-3 New Zealand porphyry copper belt
II -Tethys metallogenic domains	II -1 The Caribbean copper metallogenic province	
	II -2 The Mediterranean copper metallogenic province	II -2-1 Carpathian -Balkans copper belt
		II -2-2 Iberian VMS type copper belt
		II -2-3 Central Europe Poland - Germany sandstone-type copper belt
	II -3 West Asia copper metallogenic province	II -3-1 North Turkey Pontides porphyry copper belt
		II -3-2 Central Iran Sahand-Bazman porphyry copper belt
		II -3-3 Pakistan Chagai porphyry copper belt
		II -3-4 Afghanistan Kabul sandstone-type copper belt
	II -4 The Himalayan copper metallogenic province	II -4-1 Pangong Tso copper belt
		II -4-2 Gangdise porphyry copper belt
		II -4-3 Yulong porphyry copper belt
		II -4-4 Zhongdian copper belt

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II -Tethys metallogenic domains	II -5 Indo-China Peninsula copper metallogenic province	II -5-1 Myanmar copper belt
		II -5-2 Laos porphyry copper belt
		II -5-3 Thailand Copper belt
		II -5-4 Malay Peninsula - Sumatra copper belt
III-Laurasia metallogenic domains	III-1 Central Asia – Mongolia copper metallogenic province	III-1-1 South Ural copper belt
		III-1-2 Middle-north Ural copper belt
		III-1-3 Middle kazakhstan copper belt
		III-1-4 Balkhash copper belt
		III-1-5 North Tianshan copper belt
		III-1-6 Middle-south Tianshan copper belt
		III-1-7 Northwestern margin of Tarim basin copper belt
		III-1-8 Mining Altay copper belt
		III-1-9 Songar copper belt
		III-1-10 East Tianshan –North Mountain copper belt
		III-1-11 Middle-north Mongolian copper belt
		III-1-12 South Gobi – East Wu Flag copper belt
		III-1-13 Wolf mountain copper belt
		III-1-14 Greater Hinggan mountains copper belt
		III-1-15 Seoul quit copper belt
		III-1-16 Duobaoshan copper belt
	III-2 North America copper Metallogenic province	III-2-1 Canadian Labrador copper and nickel sulfide metallogenic belt
		III-2-2 The United States - Canada five lakes copper belt
		III-2-3 Superior Lake copper belt
		III-2-4 Appalachian copper belt
		III-2-5 North America Platform rift basin copper belt
	III-3 Greenland copper metallogenic province	III-3-1 Southwest Greenland copper belt
	III-4 European copper metallogenic province	III-4-1 Sweden, Kiruna copper belt
	III-5 Siberian copper metallogenic province	III-5-1 Russia norilsk copper belt
		III-5-2 Udokan copper belt
		III-5-3 Russia Petsamo copper belt
	III-6 China and the DPRK copper metallogenic province	III-6-1 The North China Block copper belt
		III-6-2 Yangtze block copper belt
IV - Gondwana metallogenic domains	IV-1 South America Copper metallogenic province	IV-1-1 Brazil Carajas copper belt
	IV-2 African - Arab copper metallogenic province	IV-2-1 Zambia- Congo (gold) copper belt
		IV-2-2 Copper belt on both sides of the red sea
		IV-2-3 Southern Africa's copper belt
	IV-3 Indian copper metallogenic province	IV-3-1 Indian platform copper belt
		IV-3-2 Rajasthan copper belt
	IV-4 Australian copper metallogenic province	IV-4-1 Western Australia craton - VMS type polymetallic metallogenic belt
		IV-4-2 Australia's east edge of the Early Paleozoic VMS-type metallogenic belt
		IV-4-3 Australia's east edge of the Early Paleozoic porphyry copper belt
		IV-4-4 Australia's northern margin of the Proterozoic Mount Isa copper belt
		IV-4-5 Australia's Flinders iron oxide copper-gold metallogenic belt
		IV-4-6 Australia Barkley iron oxide copper-gold metallogenic belt
	IV-5 The Antarctic copper metallogenic province	

References

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