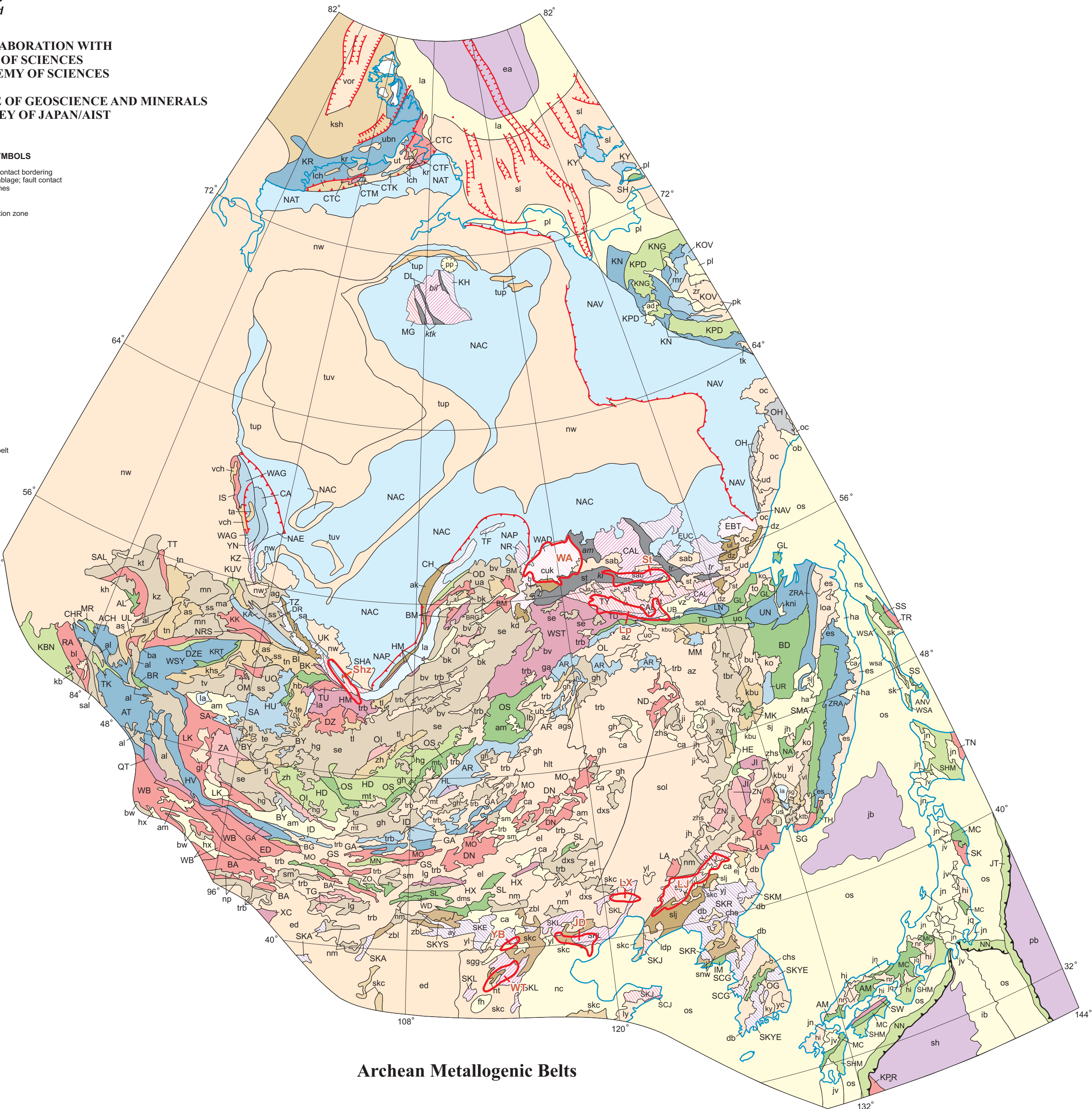


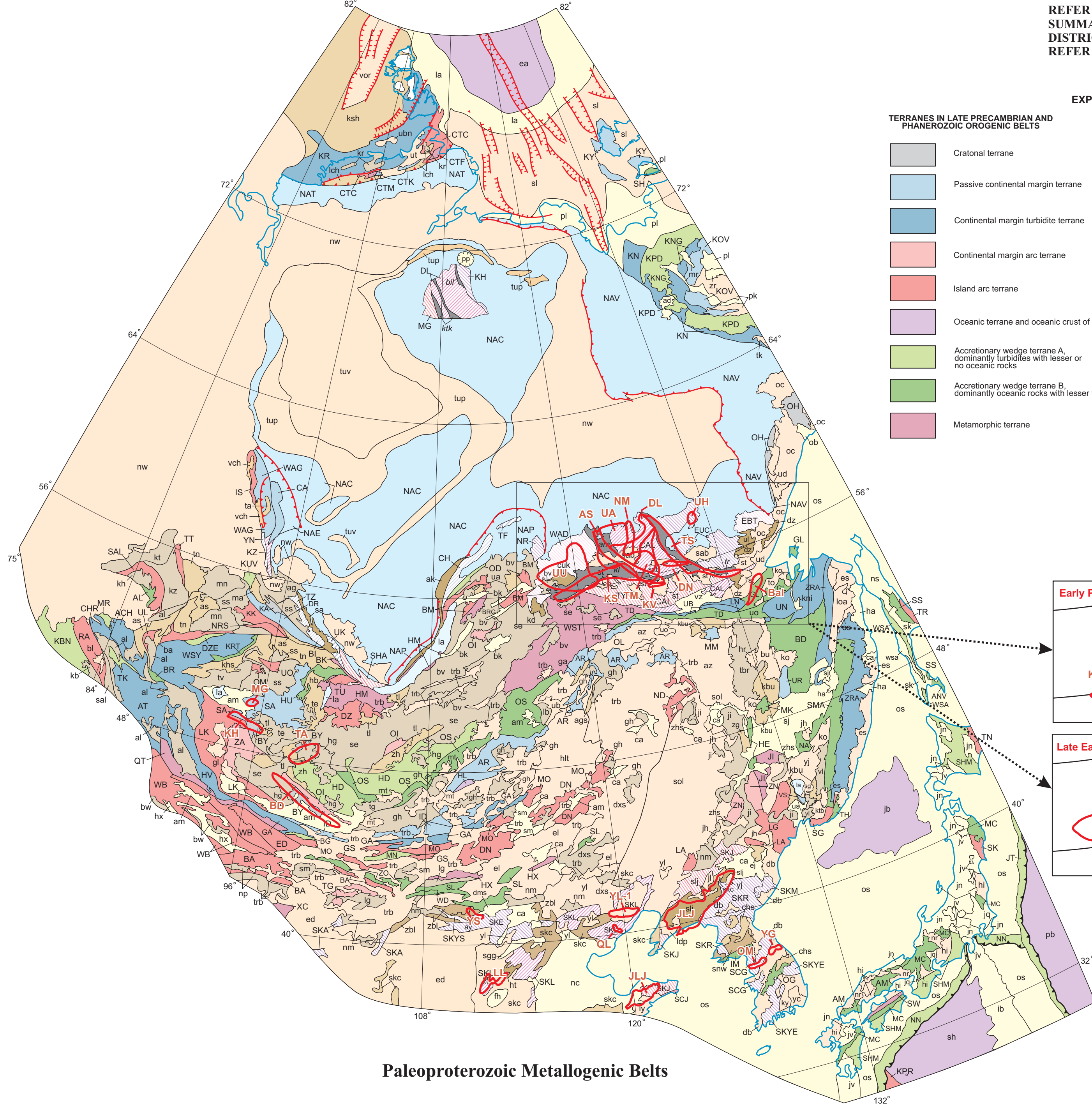
PREPARED IN COLLABORATION WITH  
RUSSIAN ACADEMY OF SCIENCES  
MONGOLIAN ACADEMY OF SCIENCES  
JILIN UNIVERSITY  
KOREAN INSTITUTE OF GEOSCIENCE AND MINERALS  
GEOLOGICAL SURVEY OF JAPAN/AIST

REFER TO EXPLANATORY PAMPHLETS FOR  
SUMMARY TABLES OF LOSE DEPOSITS, PLACER  
DISTRICTS, AND METALLOGENIC BELTS.  
REFER TO SHEET 1 FOR LIST OF MAP UNITS.

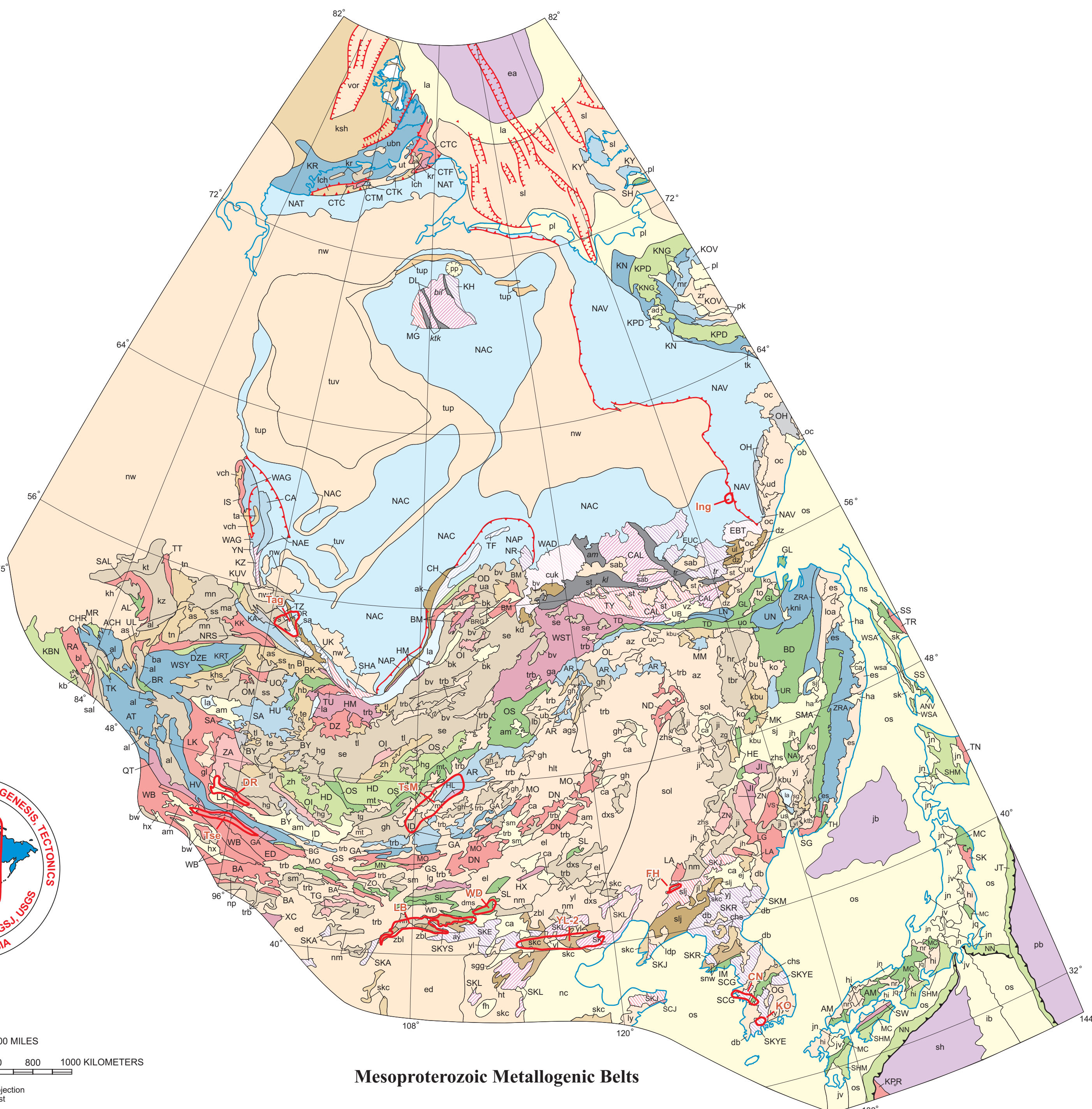
- CONTACTS, FAULTS, AND SYMBOLS**
- Sedimentary contact bordering overlap assemblage; fault contact between terranes
  - Active subduction zone
  - Post-Accretion Faults
  - Thrust
  - Normal fault
  - RE
  - Symbols
  - Autokline
  - Major fault
  - Lake
  - Metallogenic belt



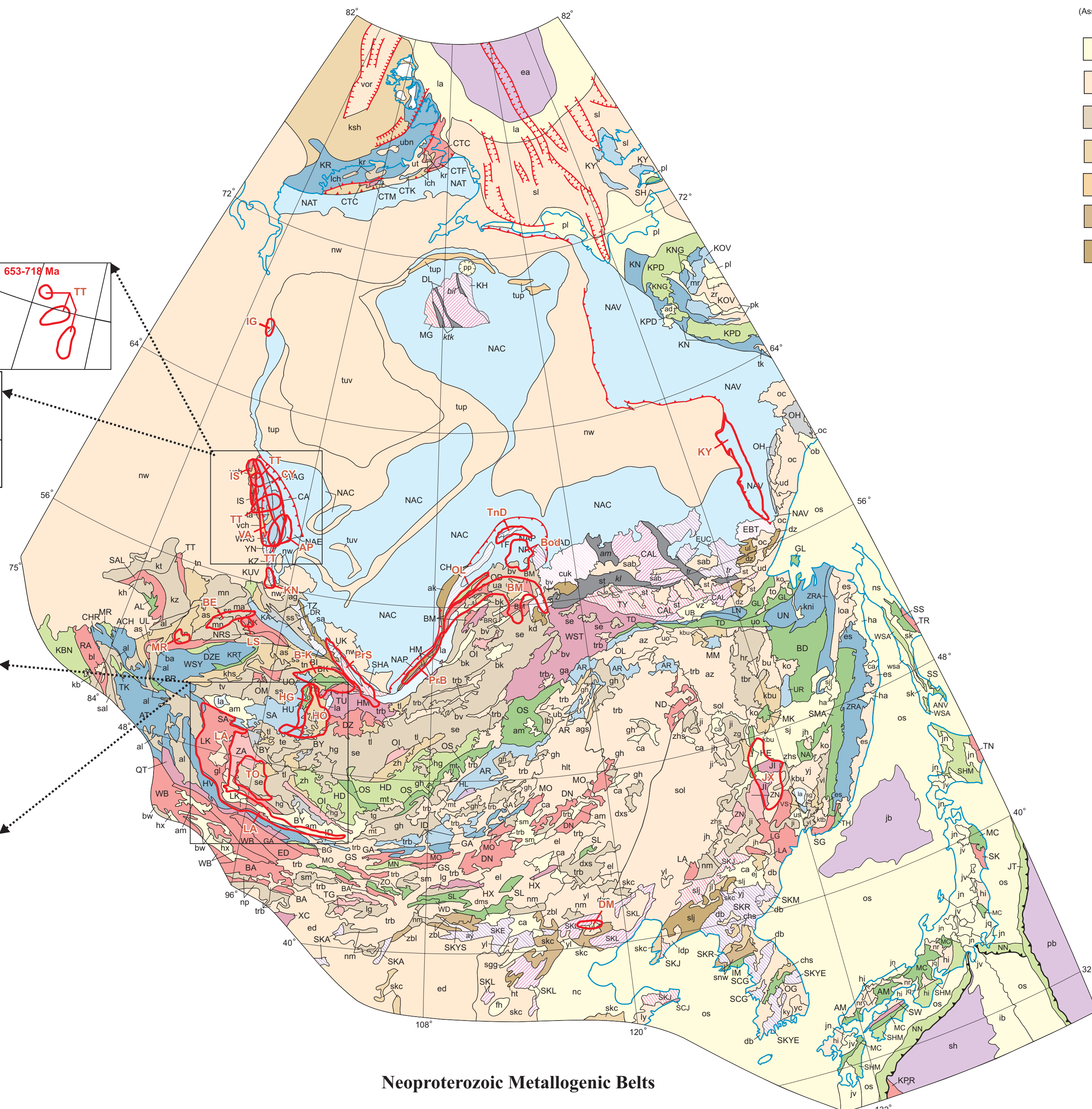
**Archean Metallogenic Belts**



**Paleoproterozoic Metallogenic Belts**

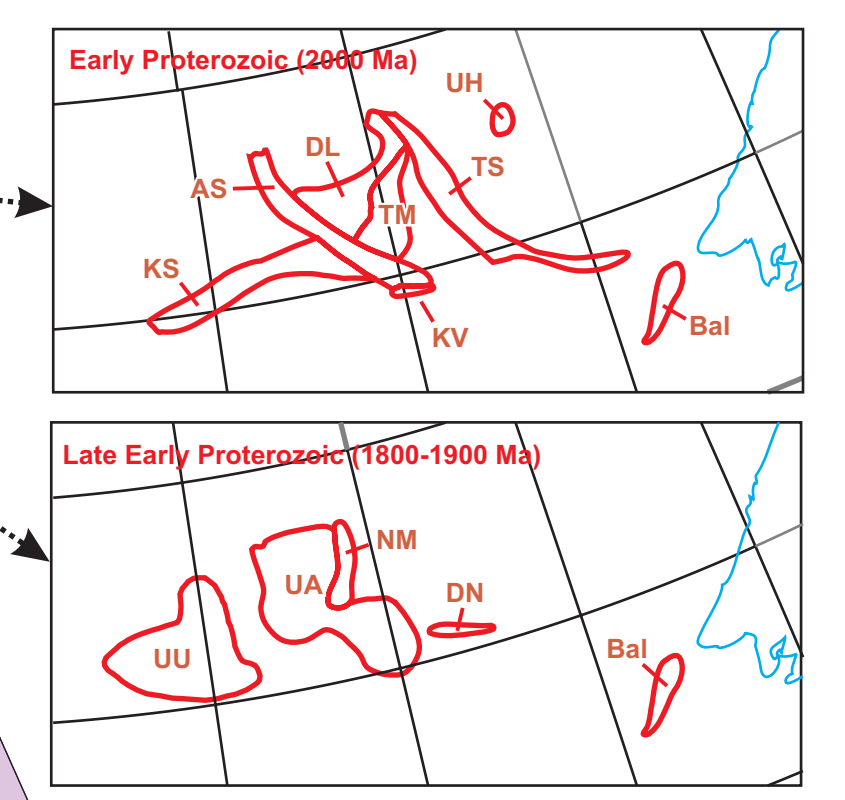


**Mesoproterozoic Metallogenic Belts**

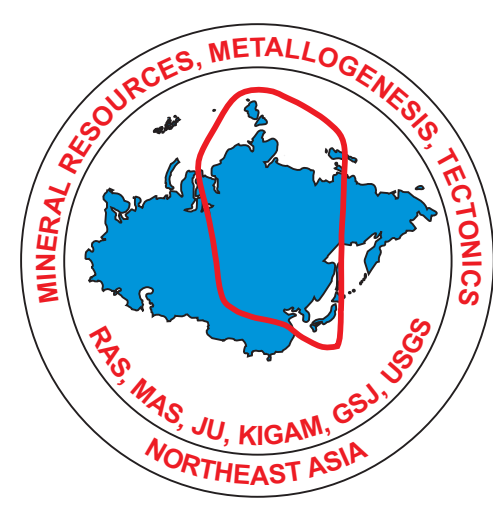


**Neoproterozoic Metallogenic Belts**

- TERRANES IN LATE PRECAMBRIAN AND PHANEROZOIC OROGENIC BELTS**
- Cratonal terrane
  - Passive continental margin terrane
  - Continental margin turbidite terrane
  - Continental margin arc terrane
  - Island arc terrane
  - Oceanic terrane and oceanic crust of oceans
  - Accretionary wedge terrane A, dominantly turbidites with lesser or no ophiolitic rocks
  - Accretionary wedge terrane B, dominantly ophiolitic rocks with lesser turbidites
  - Metamorphic terrane
- TERRANES IN EARLY PRECAMBRIAN CRYSTALLINE BASEMENT OF CRATONS AND CRATONS WITH MICROCLINAL OVERLAP**
- Granite-greenstone terrane
  - Tonalite-trondhjemite-gneiss terrane
  - Granulite-orthogneiss terrane
  - Granulite-paragneiss terrane
  - Paragneiss terrane
  - Greenschist terrane
  - Craton with microclinal overlap and craton margin
  - Major melange zone



- OVERLAP AND STITCH ASSEMBLAGES**  
(Assemblages shown by lighter lines according to age; for overlap assemblages with long age span, the color of the oldest major unit is shown.)
- Cenozoic
  - Mesozoic (Triassic, Jurassic, and Cretaceous)
  - Middle and Late Paleozoic (Devonian through Permian)
  - Late Neoproterozoic and Early Paleozoic (Neoproterozoic through Silurian)
  - Neoproterozoic through Riphean
  - Mesoproterozoic
  - Paleoproterozoic



SCALE: 1:15,000,000  
0 500 1000 MILES  
0 200 400 600 800 1000 KILOMETERS  
Lambert Azimuthal equal-area projection  
Central longitude 110 degrees East  
Central latitude 60 degrees North  
Geographic base from Miller and others (1998, 1999)

## METALLOGENIC BELT AND MINERAL DEPOSIT MAPS FOR NORTHEAST ASIA: SHEET 2 - ARCHEAN THROUGH NEOPROTEROZOIC METALLOGENIC BELTS

Compiled by Alexander A. Obolenskiy<sup>2</sup>, Sergey M. Rodionov<sup>1</sup>, Gunchin Dejiddmaa<sup>4</sup>, Ochir Gerel<sup>13</sup>, Duk Hwan Hwang<sup>5</sup>, Robert J. Miller<sup>6</sup>, Warren J. Nokleberg<sup>7</sup>, Masatsugu Ogasawara<sup>8</sup>, Alexander P. Smelov<sup>9</sup>, Hongquan Yan<sup>11</sup>, and Zhan V. Seminskiy<sup>10</sup>

With compilations on specific regions by Sodov Ariunbileg<sup>3</sup>, Gennadiy V. Biryul'kin<sup>14</sup>, Jamba Byamba<sup>18</sup>, Yury V. Davydov<sup>15</sup>, Elimir G. Distanov<sup>2</sup>, Dangindorjiin Dorjgotov<sup>16</sup>, Gennadiy N. Gamyranin<sup>17</sup>, Valeriy Yu. Fridovskiy<sup>12</sup>, Nikolai A. Goryachev<sup>17</sup>, Ayurzana Gotovsuren<sup>18</sup>, Alexander I. Khanchuk<sup>1</sup>, Anatoliy P. Kochnev<sup>19</sup>, Alexei V. Kostin<sup>20</sup>, Mikhail I. Kuzmin<sup>21</sup>, Sergey P. Letunov<sup>22</sup>, Xujun Li<sup>11</sup>, Galina D. Malceva<sup>18</sup>, V.D. Melnikov<sup>23</sup>, Leonid M. Parfenov<sup>10</sup>, Nikolay V. Popov<sup>24</sup>, Andrei V. Prokoviev<sup>25</sup>, Vladimir Ratkin<sup>26</sup>, Vladimir I. Shpikerman<sup>27</sup>, Vitaliy I. Sotnikov<sup>28</sup>, Alexander M. Spiridonov<sup>29</sup>, Valeriy V. Stogniy<sup>30</sup>, Sadahisa Sudo<sup>31</sup>, Fengyue Sun<sup>32</sup>, Jiapieng Sun<sup>33</sup>, Weizhi Sun<sup>34</sup>, Valeriy M. Supletsov<sup>35</sup>, Vladimir F. Timofeev<sup>36</sup>, Oleg A. Tyan<sup>37</sup>, Valeriy G. Veltuzhskikh<sup>38</sup>, Koji Wakita<sup>39</sup>, Aihua Xi<sup>40</sup>, Yakov V. Yakovlev<sup>41</sup>, Vladimir I. Zhizhin<sup>42</sup>, Nikolay N. Zinchuk<sup>43</sup>, and Lydia D. Zorina<sup>44</sup>

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Geologic base map is generalized version of Northeast Asia Geodynamics Map (Parfenov, and others, 2003).

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