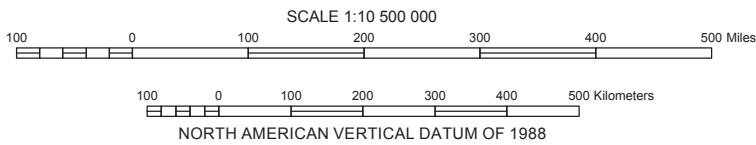


Alaska Albers Equal Area Conic projection
North American Datum of 1983



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Suggested citation: Karl, S.M., Jones, J.V., III, and Hayes, T.S., eds., 2016, Estimated mineral resource potential and certainty for REE-Th-Y-Nb(-U-Zr) deposits associated with peralkaline to carbonatitic intrusive rocks, plate 1 in GIS-based identification of areas that have resource potential for critical minerals in six selected groups of deposit types in Alaska: U.S. Geological Survey Open-File Report 2016–1191, 99 p., 5 appendixes, 12 plates, scale 1:10,500,000, <http://dx.doi.org/10.3133/ofr20161191>.

Estimated Mineral Resource Potential and Certainty for REE-Th-Y-Nb(-U-Zr) Deposits Associated with Peralkaline to Carbonatitic Intrusive Rocks

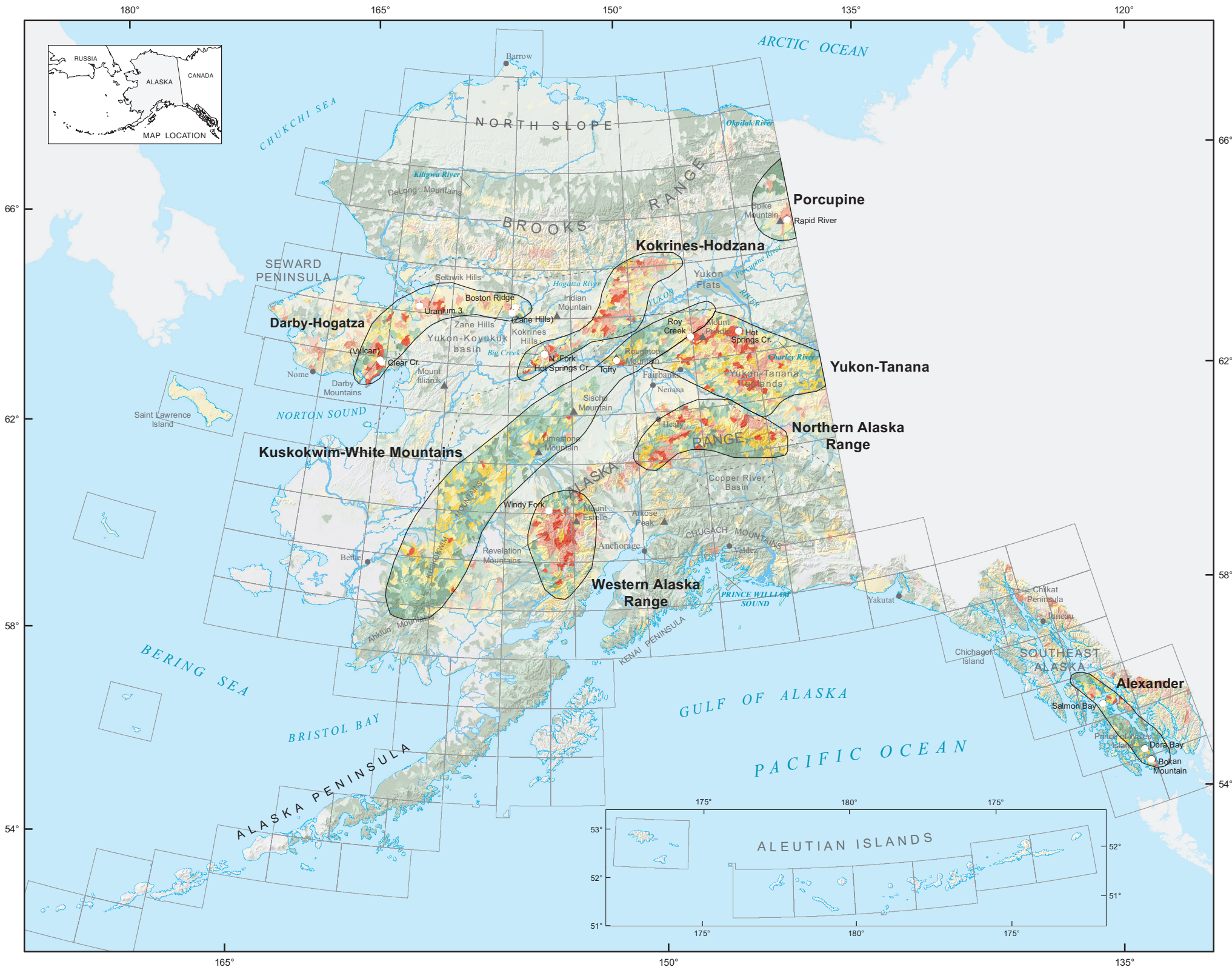
GIS-Based Identification of Areas that have Resource Potential for Critical Minerals in Six Selected Groups of Deposit Types in Alaska

Edited by

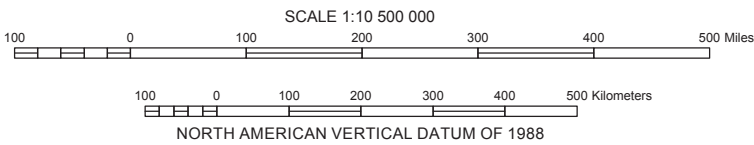
Susan M. Karl,¹ James V. Jones, III,¹ and Timothy S. Hayes¹

With contributions from **Matthew Granitto,¹ Timothy S. Hayes,¹ James V. Jones, III,¹ Susan M. Karl,¹
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EXPLANATION OF MAP SYMBOLS

[Darker shades indicate areas of potential within named mineralization belts; lighter shades show areas of potential outside of these belts]

HIGH POTENTIAL	MEDIUM POTENTIAL	LOW POTENTIAL	
High certainty	High certainty	High certainty	Unknown
Medium certainty	Medium certainty	Medium certainty	Belt boundary
Low certainty	Low certainty	Low certainty	Physiographic boundary
			Deposit location

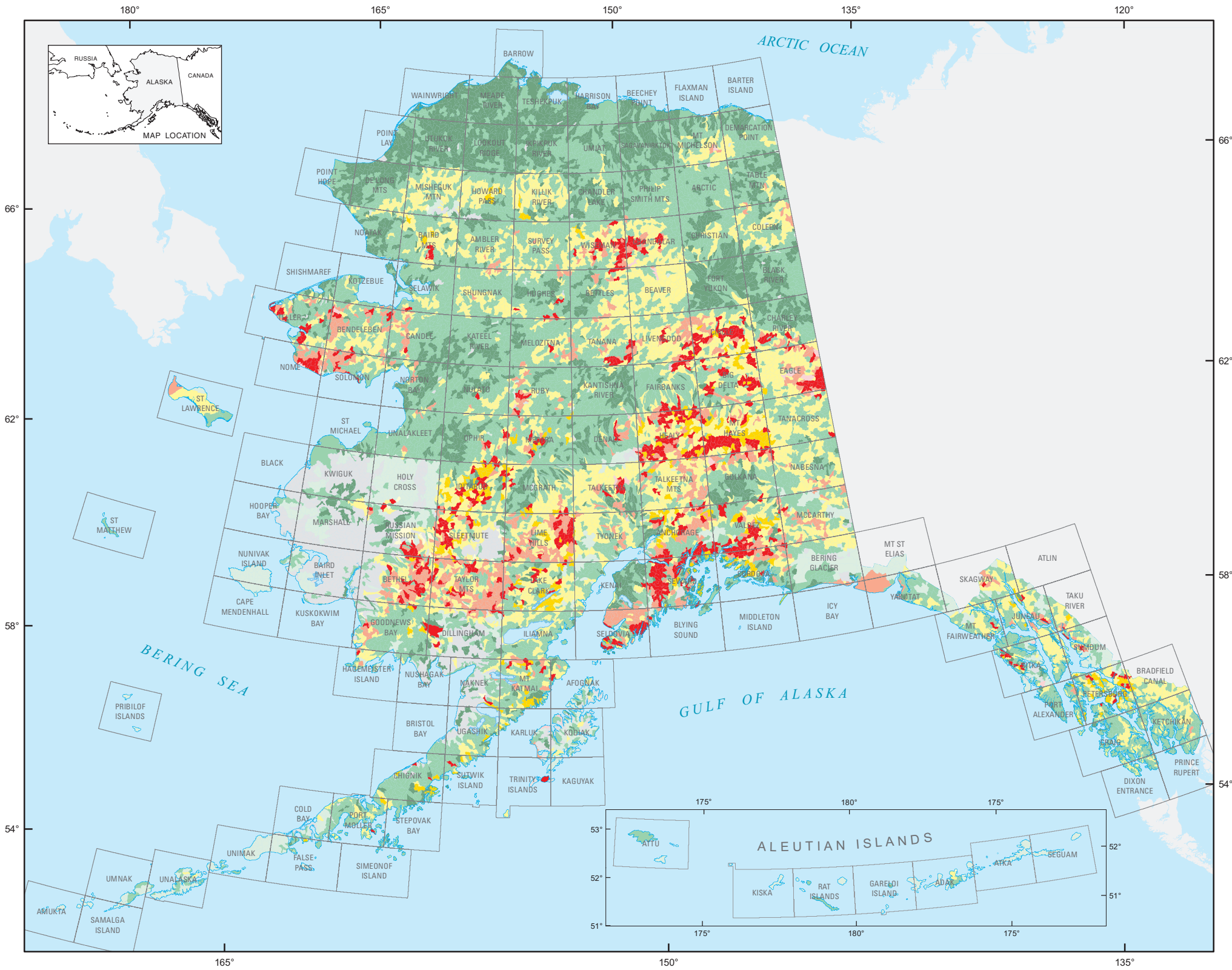
Annotated Mineral Resource Potential for REE-Th-Y-Nb(-U-Zr) Deposits Associated with Peralkaline to Carbonatitic Intrusive Rocks GIS-Based Identification of Areas that have Resource Potential for Critical Minerals in Six Selected Groups of Deposit Types in Alaska

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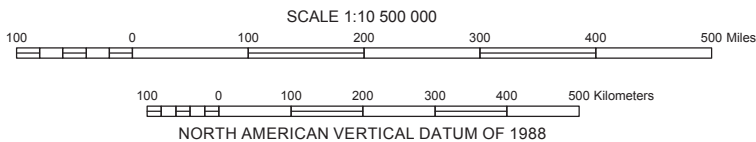
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EXPLANATION OF MAP SYMBOLS

HIGH POTENTIAL	MEDIUM POTENTIAL	LOW POTENTIAL	
High certainty	High certainty	High certainty	Unknown
Medium certainty	Medium certainty	Medium certainty	
Low certainty	Low certainty	Low certainty	

Estimated Mineral Resource Potential and Certainty for Placer and Paleoplacer Au Deposits

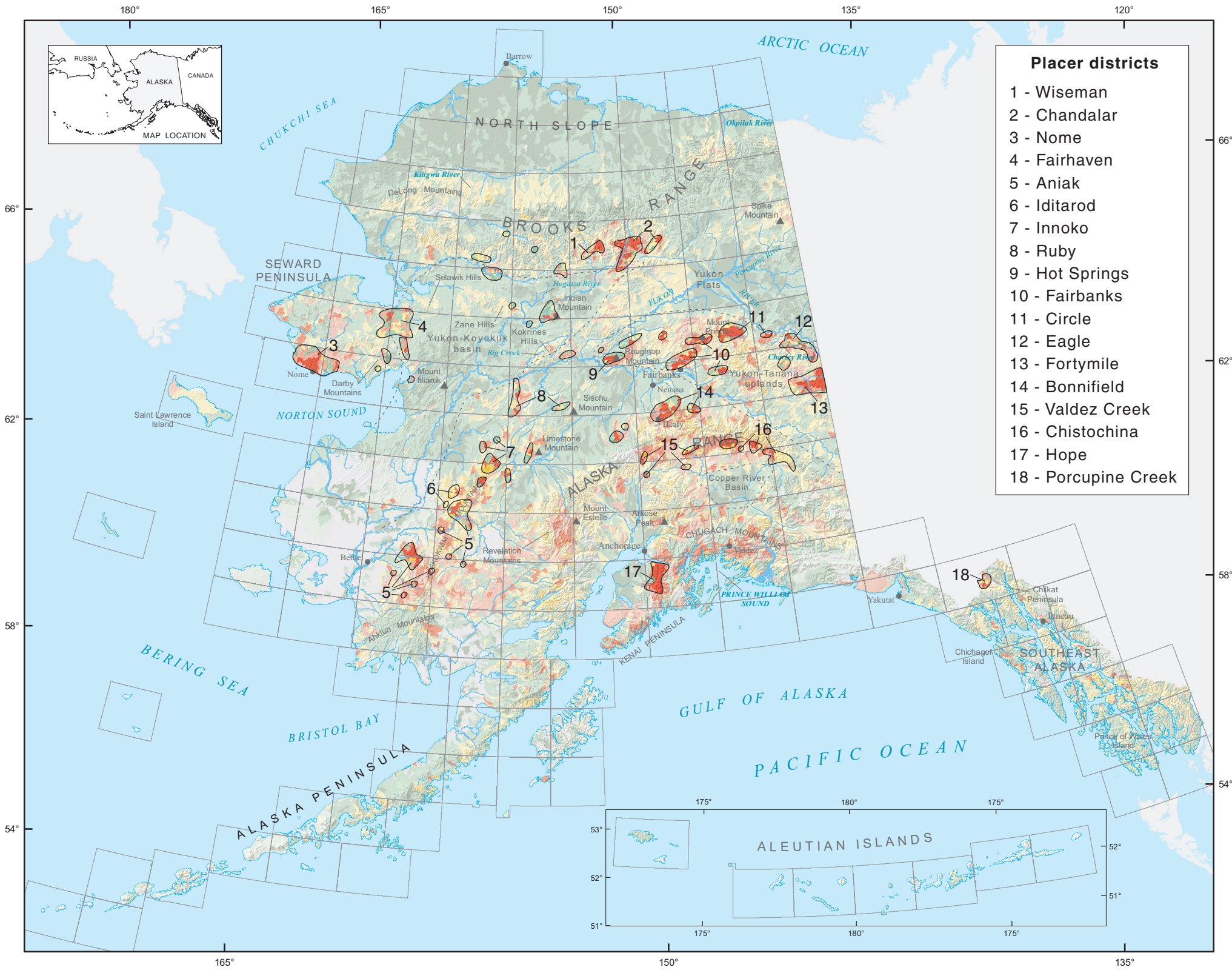
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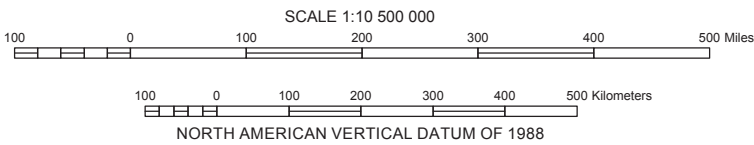
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EXPLANATION OF MAP SYMBOLS

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HIGH POTENTIAL	MEDIUM POTENTIAL	LOW POTENTIAL	
High certainty	High certainty	High certainty	Unknown
Medium certainty	Medium certainty	Medium certainty	Belt boundary
Low certainty	Low certainty	Low certainty	Physiographic boundary

Annotated Mineral Resource Potential for Placer and Paleoplacer Au Deposits

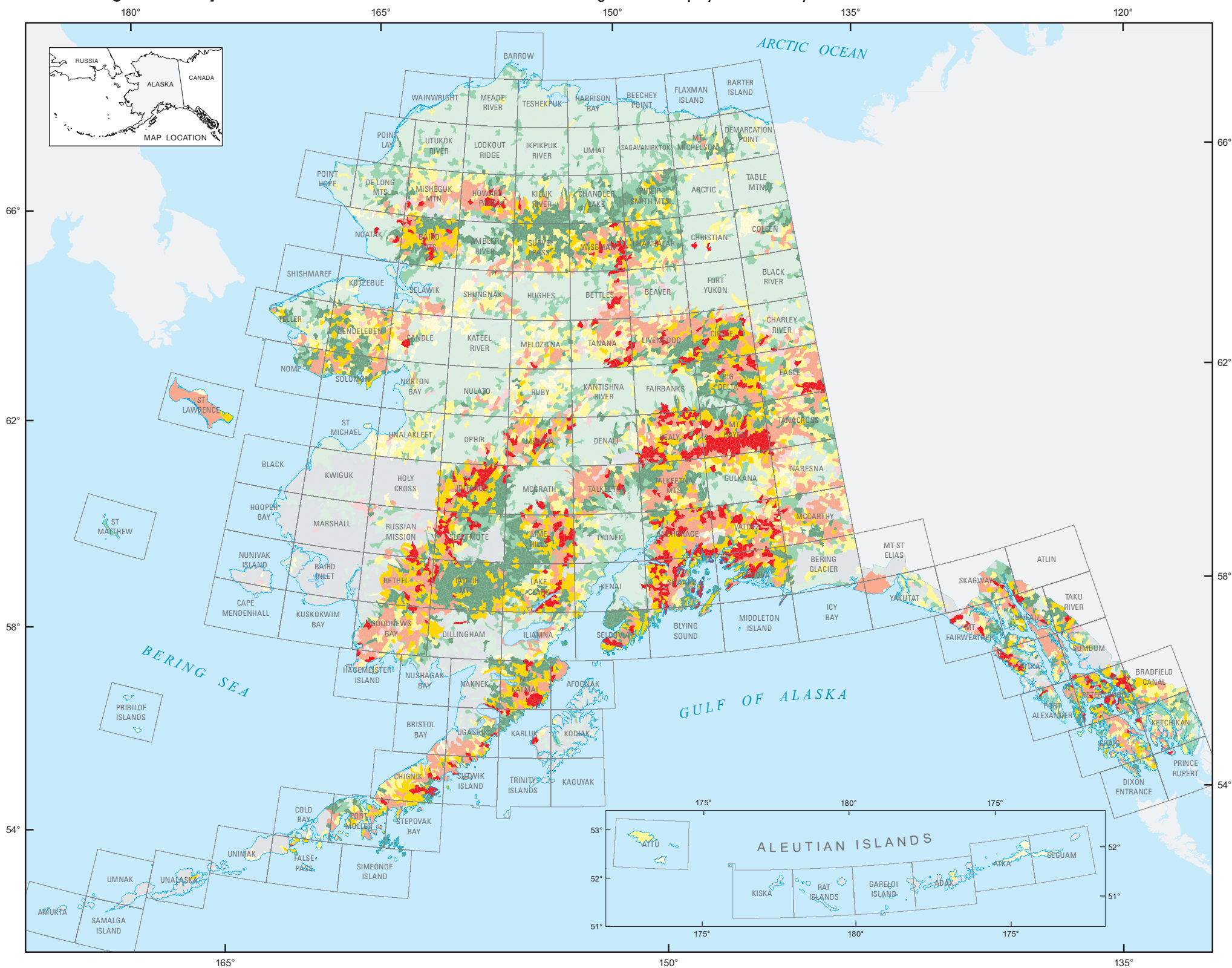
GIS-Based Identification of Areas that have Resource Potential for Critical Minerals in Six Selected Groups of Deposit Types in Alaska

Edited by

Susan M. Karl,¹ James V. Jones, III,¹ and Timothy S. Hayes¹

With contributions from **Matthew Granitto,¹ Timothy S. Hayes,¹ James V. Jones, III,¹ Susan M. Karl,¹ Keith A. Labay,¹ Jeffrey L. Mauk,¹ Jeanine M. Schmidt,¹ Nora B. Shew,¹ Erin Todd,¹ Bronwen Wang,¹ Melanie B. Werdon,² and Douglas B. Yager¹**

2016



Alaska Albers Equal Area Conic projection
North American Datum of 1983

SCALE 1:10 500 000

100 0 100 200 300 400 500 Miles

100 0 100 200 300 400 500 Kilometers

NORTH AMERICAN VERTICAL DATUM OF 1988

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EXPLANATION OF MAP SYMBOLS

HIGH POTENTIAL		MEDIUM POTENTIAL		LOW POTENTIAL		
	High certainty		High certainty		High certainty	 Unknown
	Medium certainty		Medium certainty		Medium certainty	
	Low certainty		Low certainty		Low certainty	

Estimated Mineral Resource Potential and Certainty for PGE(-Co-Cr-Cu-Ni-Ti-V) Deposits Associated with Mafic to Ultramafic Intrusive Rocks

GIS-Based Identification of Areas that have Resource Potential for Critical Minerals in Six Selected Groups of Deposit Types in Alaska

Edited by

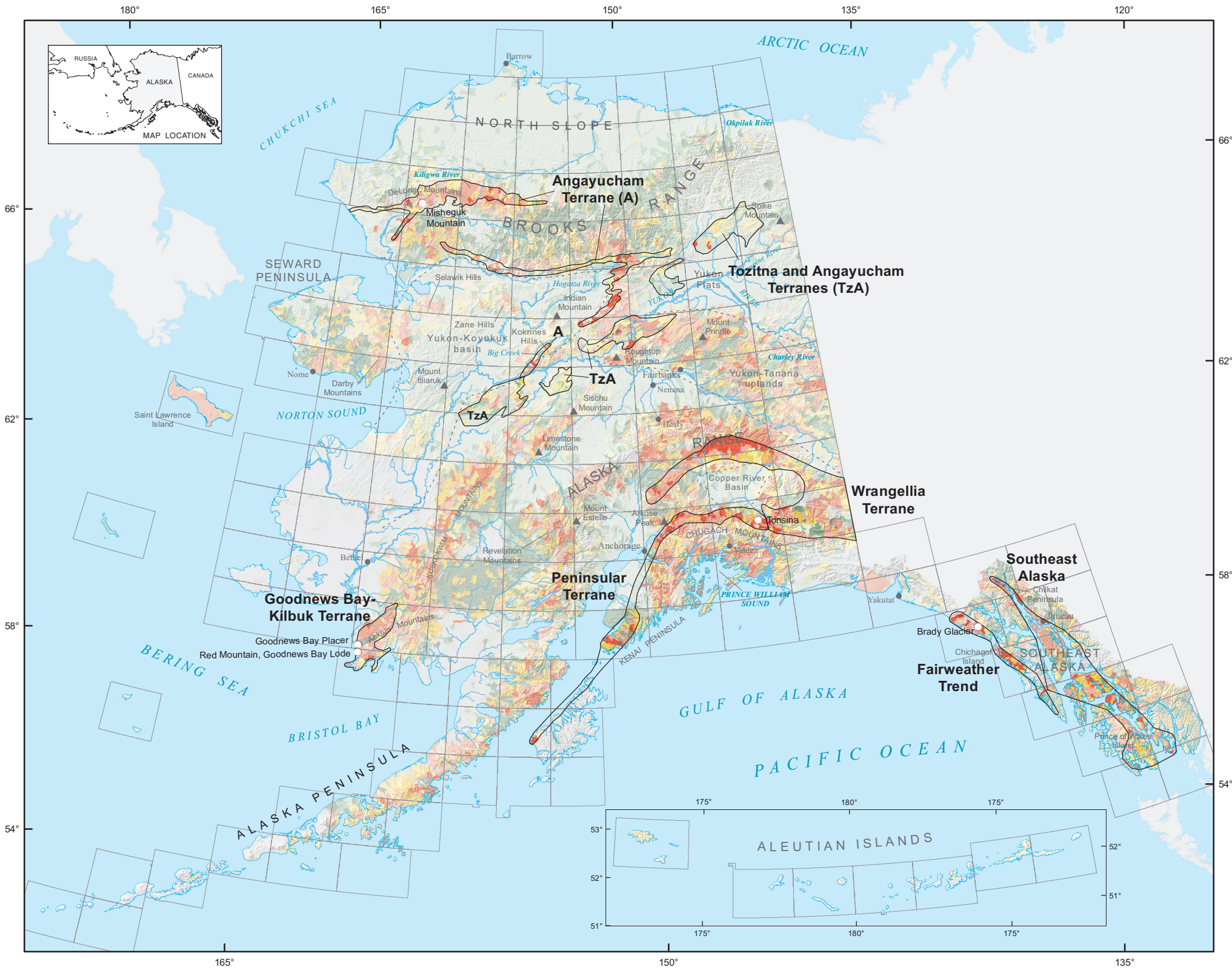
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With contributions from Matthew Granitto,¹ Timothy S. Hayes,¹ James V. Jones, III,¹ Susan M. Karl,¹

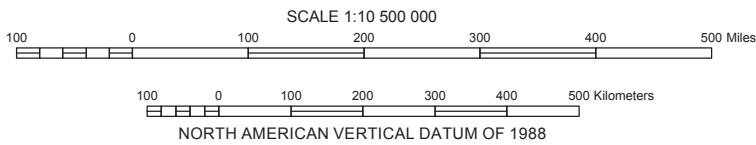
Keith A. Labay,¹ Jeffrey L. Mauk,¹ Jeanine M. Schmidt,¹ Nora B. Shew,¹ Erin Todd,¹

Bronwen Wang,¹ Melanie B. Werdon,² and Douglas B. Yager¹

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EXPLANATION OF MAP SYMBOLS

[Darker shades indicate areas of potential within named mineralization belts; lighter shades show areas of potential outside of these belts]

HIGH POTENTIAL	MEDIUM POTENTIAL	LOW POTENTIAL	
High certainty	High certainty	High certainty	Unknown
Medium certainty	Medium certainty	Medium certainty	Belt boundary
Low certainty	Low certainty	Low certainty	Physiographic boundary
			Deposit location

Annotated Mineral Resource Potential for PGE(-Co-Cr-Cu-Ni-Ti-V) Deposits Associated with Mafic to Ultramafic Intrusive Rocks

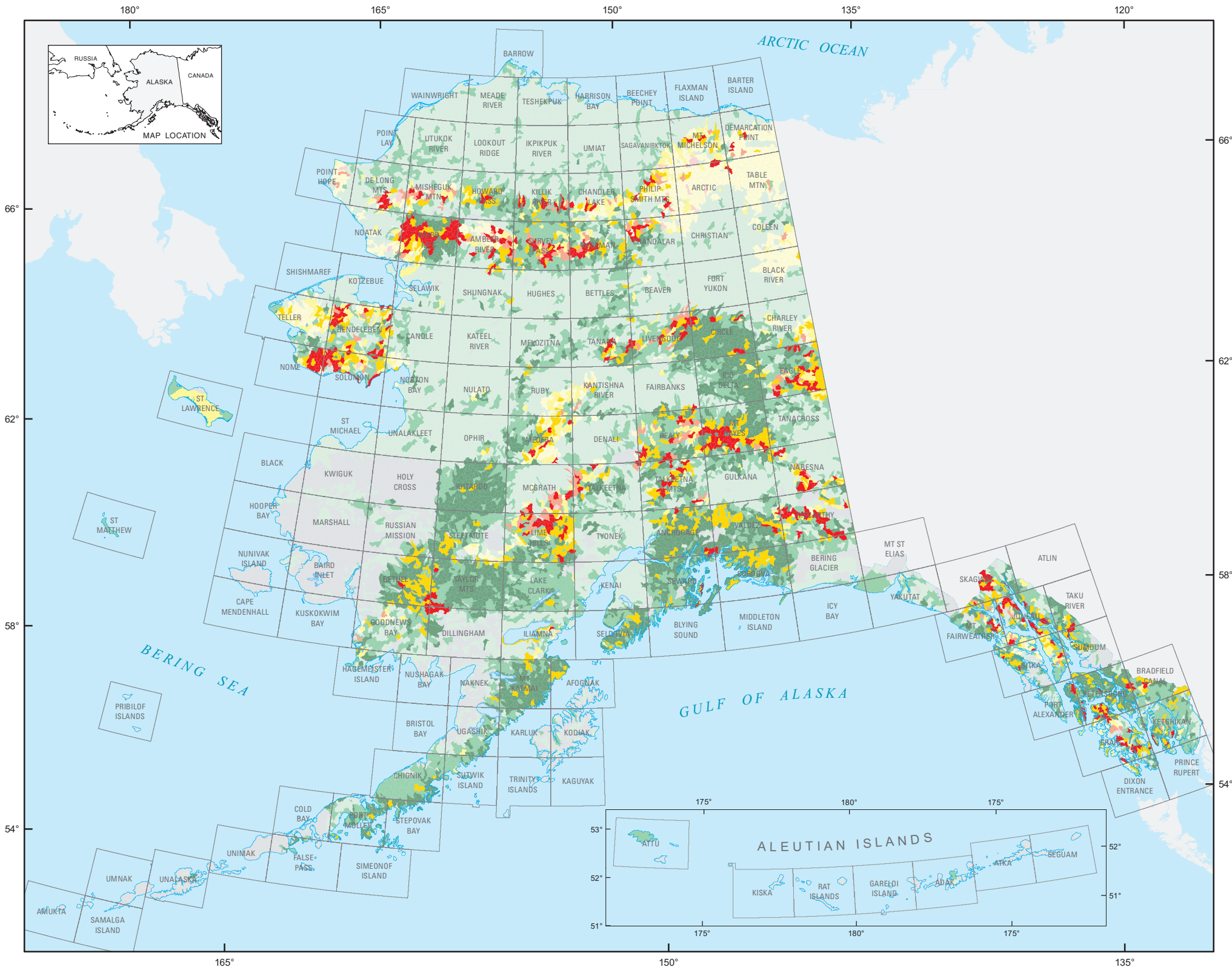
GIS-Based Identification of Areas that have Resource Potential for Critical Minerals in Six Selected Groups of Deposit Types in Alaska

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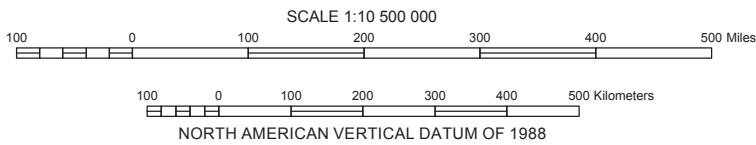
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EXPLANATION OF MAP SYMBOLS

HIGH POTENTIAL	MEDIUM POTENTIAL	LOW POTENTIAL	
High certainty	High certainty	High certainty	Unknown
Medium certainty	Medium certainty	Medium certainty	
Low certainty	Low certainty	Low certainty	

Estimated Mineral Resource Potential and Certainty for Carbonate-Hosted Cu(-Co-Ag-Ge-Ga) Deposits

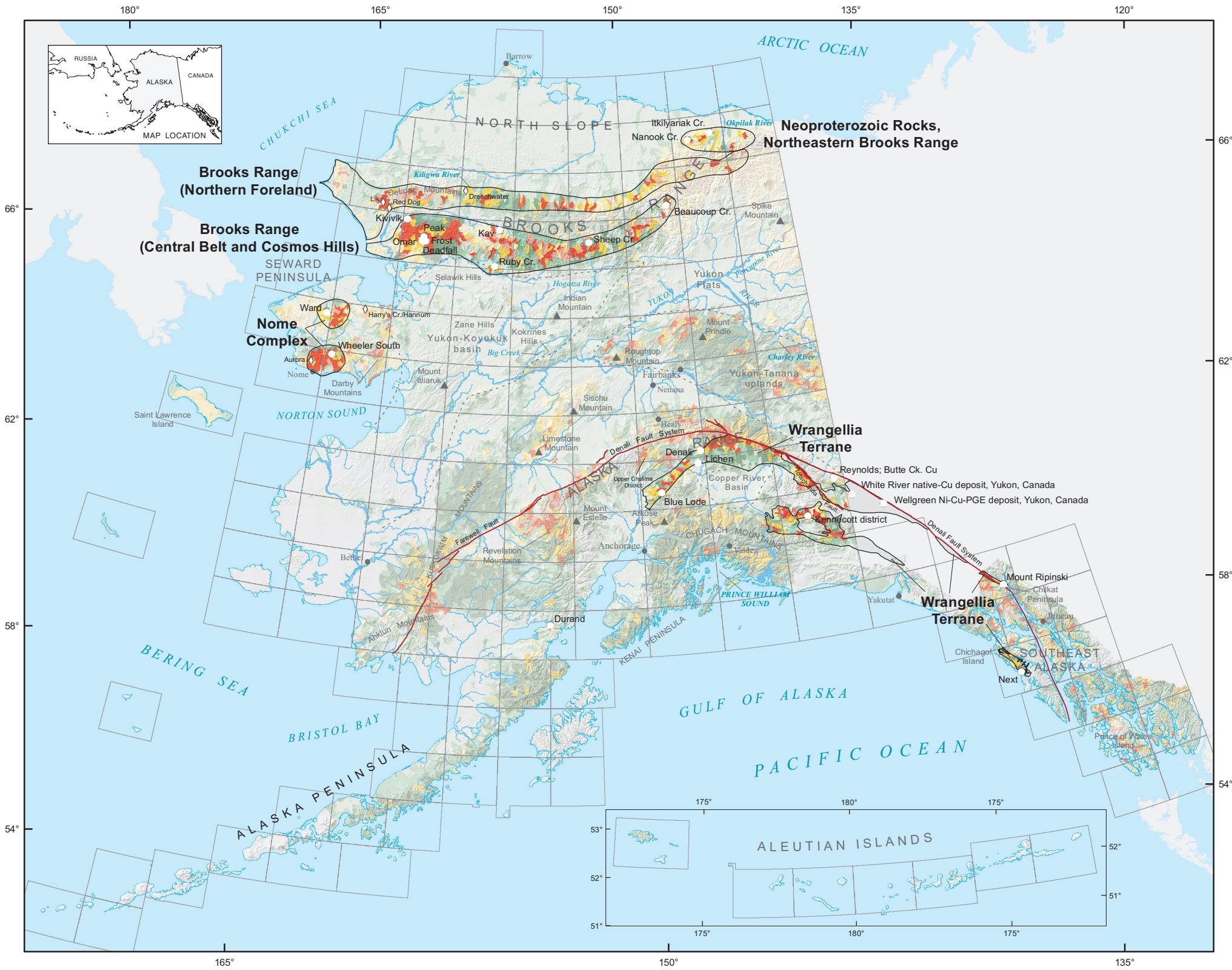
GIS-Based Identification of Areas that have Resource Potential for Critical Minerals in Six Selected Groups of Deposit Types in Alaska

Edited by

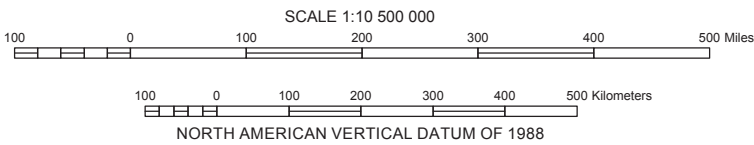
Susan M. Karl,¹ James V. Jones, III,¹ and Timothy S. Hayes¹

With contributions from Matthew Granitto,¹ Timothy S. Hayes,¹ James V. Jones, III,¹ Susan M. Karl,¹ Keith A. Labay,¹ Jeffrey L. Mauk,¹ Jeanine M. Schmidt,¹ Nora B. Shew,¹ Erin Todd,¹ Bronwen Wang,¹ Melanie B. Werdon,² and Douglas B. Yager¹

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EXPLANATION OF MAP SYMBOLS

[Darker shades indicate areas of potential within named mineralization belts; lighter shades show areas of potential outside of these belts]

HIGH POTENTIAL	MEDIUM POTENTIAL	LOW POTENTIAL		
High certainty	High certainty	High certainty	Unknown	Deposit location
Medium certainty	Medium certainty	Medium certainty	Belt boundary	Sedex deposit location
Low certainty	Low certainty	Low certainty	Physiographic boundary	
			Fault	

Annotated Mineral Resource Potential for Carbonate-Hosted Cu(-Co-Ag-Ge-Ga) Deposits

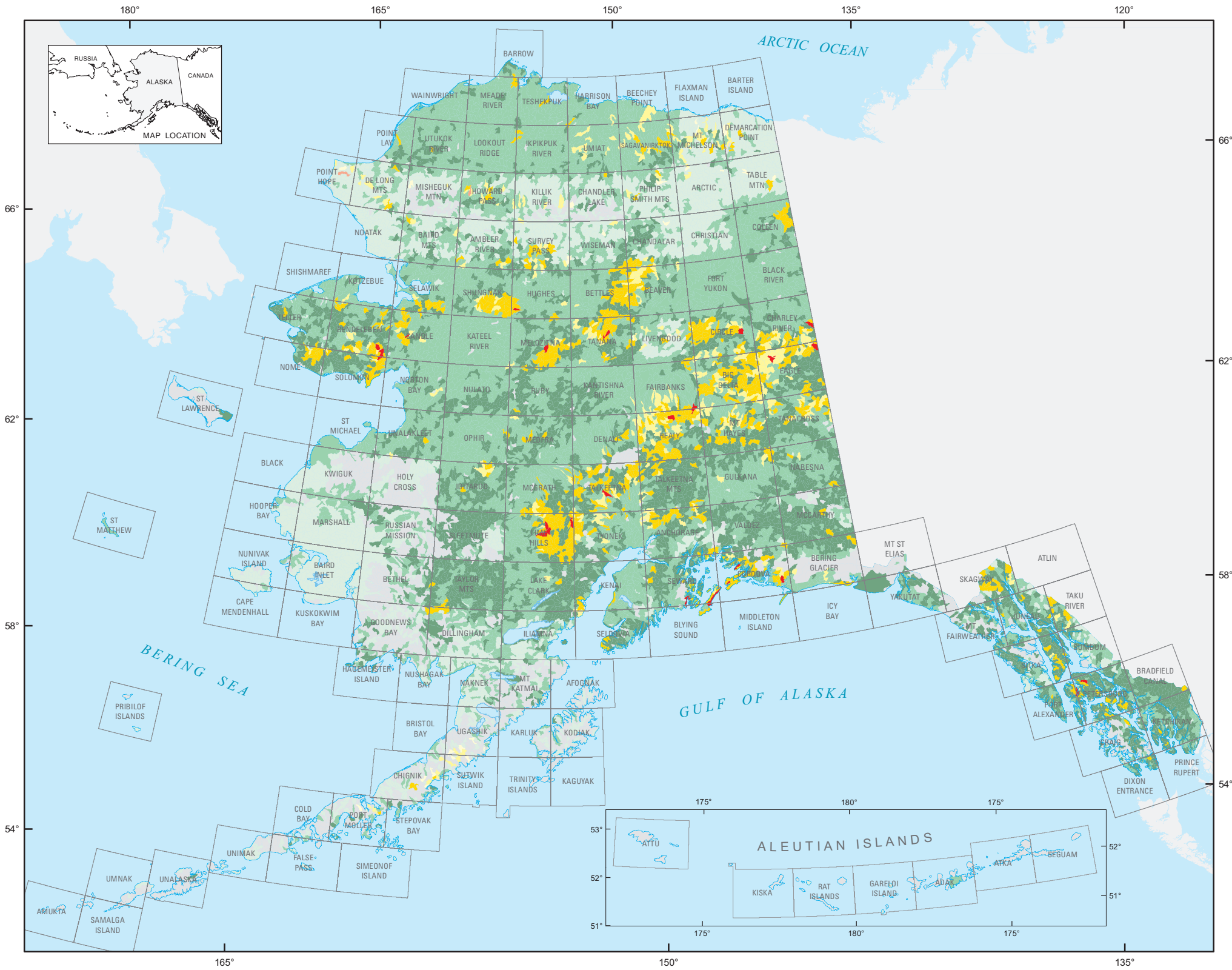
GIS-Based Identification of Areas that have Resource Potential for Critical Minerals in Six Selected Groups of Deposit Types in Alaska

Edited by

Susan M. Karl,¹ James V. Jones, III,¹ and Timothy S. Hayes¹

With contributions from Matthew Granitto,¹ Timothy S. Hayes,¹ James V. Jones, III,¹ Susan M. Karl,¹ Keith A. Labay,¹ Jeffrey L. Mauk,¹ Jeanine M. Schmidt,¹ Nora B. Shew,¹ Erin Todd,¹ Bronwen Wang,¹ Melanie B. Werdon,² and Douglas B. Yager¹

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EXPLANATION OF MAP SYMBOLS

HIGH POTENTIAL	MEDIUM POTENTIAL	LOW POTENTIAL	
High certainty	High certainty	High certainty	Unknown
Medium certainty	Medium certainty	Medium certainty	
Low certainty	Low certainty	Low certainty	

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Estimated Mineral Resource Potential and Certainty for Sandstone-Hosted U(-V-W) Deposits

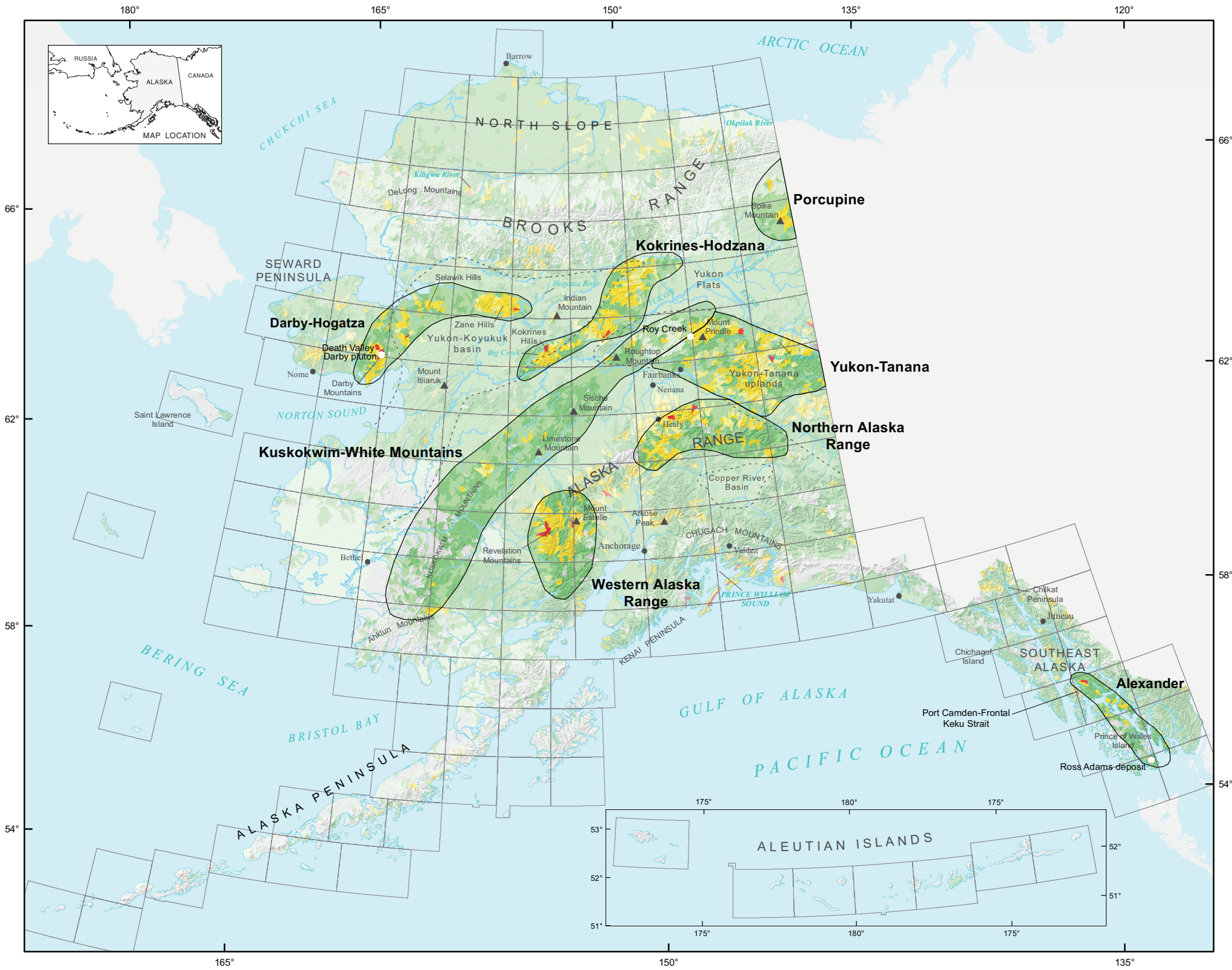
GIS-Based Identification of Areas that have Resource Potential for Critical Minerals in Six Selected Groups of Deposit Types in Alaska

Edited by

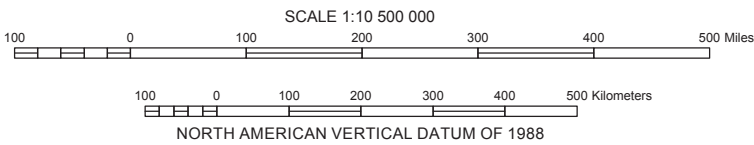
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North American Datum of 1983



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EXPLANATION OF MAP SYMBOLS

[Darker shades indicate areas of potential within named mineralization belts; lighter shades show areas of potential outside of these belts]

HIGH POTENTIAL	MEDIUM POTENTIAL	LOW POTENTIAL	
High certainty	High certainty	High certainty	Unknown
Medium certainty	Medium certainty	Medium certainty	Belt boundary
Low certainty	Low certainty	Low certainty	Physiographic boundary
			Deposit location

Annotated Mineral Resource Potential for Sandstone-Hosted U(-V-W) Deposits

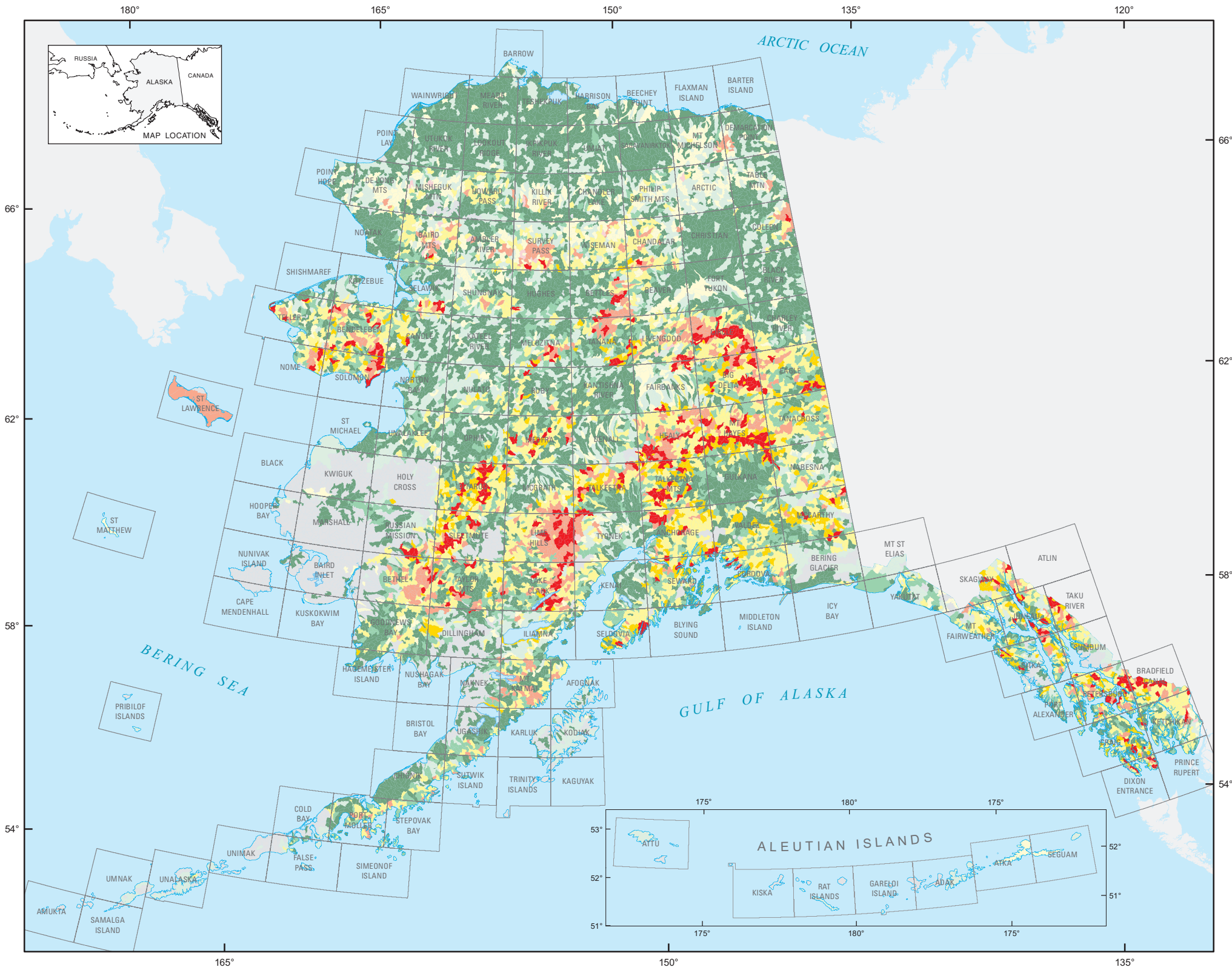
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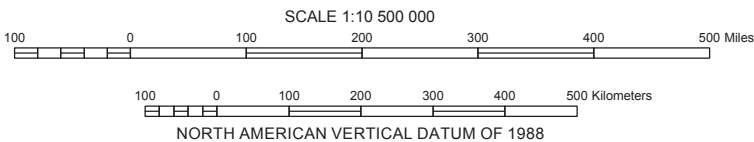
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EXPLANATION OF MAP SYMBOLS

HIGH POTENTIAL	MEDIUM POTENTIAL	LOW POTENTIAL	
High certainty	High certainty	High certainty	Unknown
Medium certainty	Medium certainty	Medium certainty	
Low certainty	Low certainty	Low certainty	

Estimated Mineral Resource Potential and Certainty for Sn-W-Mo(-Ta-In-Fluorspar) Deposits Associated with Specialized Granites

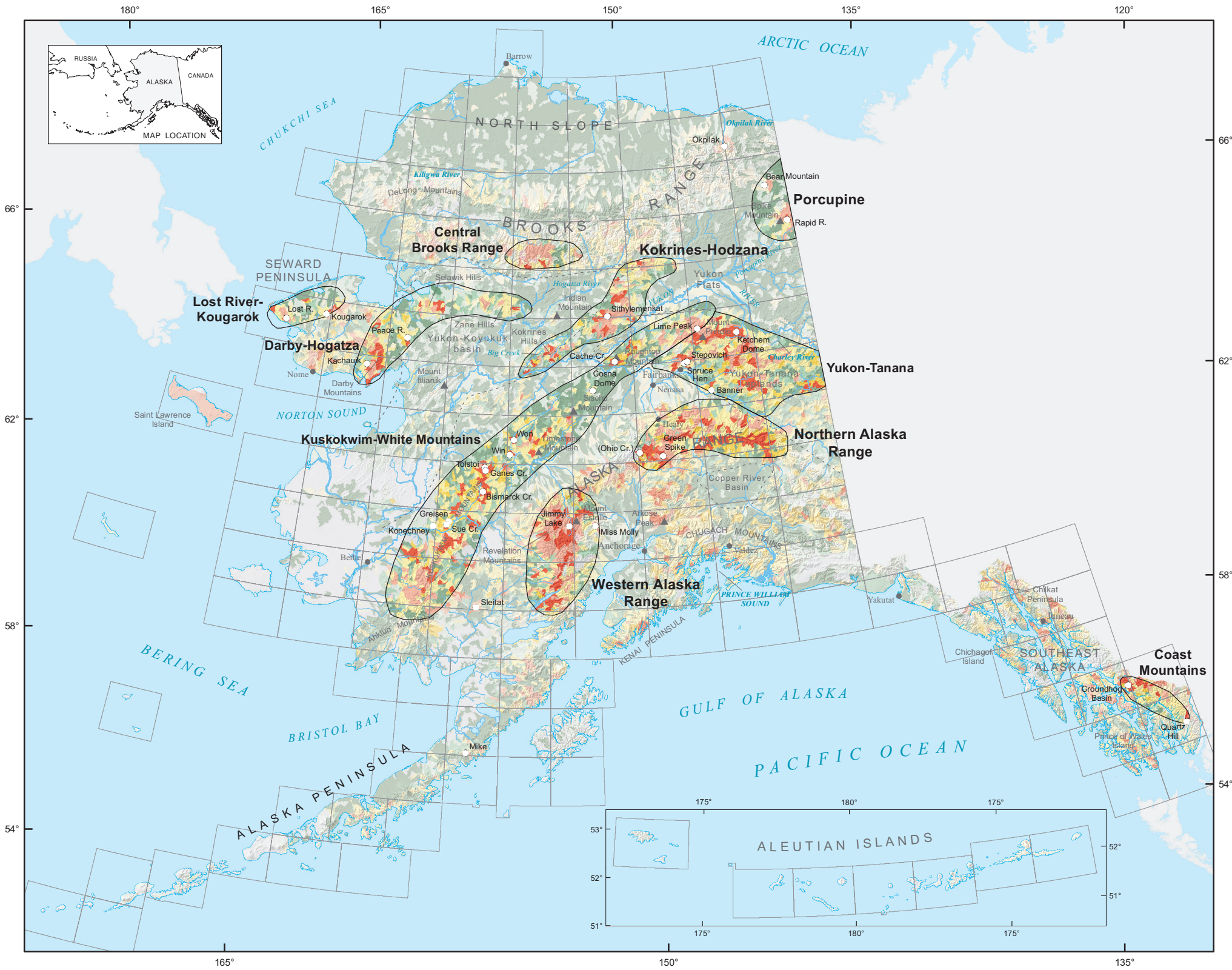
GIS-Based Identification of Areas that have Resource Potential for Critical Minerals in Six Selected Groups of Deposit Types in Alaska

Edited by

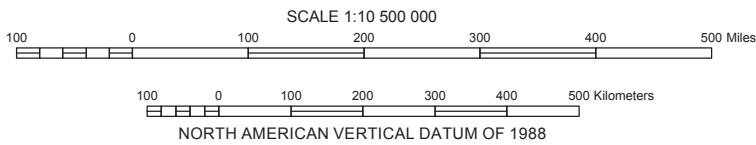
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High certainty	High certainty	High certainty	Unknown
Medium certainty	Medium certainty	Medium certainty	Belt boundary
Low certainty	Low certainty	Low certainty	Physiographic boundary
			Deposit location

Annotated Mineral Resource Potential for Sn-W-Mo(-Ta-In-Fluorspar) Deposits Associated with Specialized Granites

GIS-Based Identification of Areas that have Resource Potential for Critical Minerals in Six Selected Groups of Deposit Types in Alaska

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