

NOTE:

This map has been superseded and is included for informational purposes only. The citation for the map which superseded MAP GR80-9-8 is:

Manitoba Industry, Trade and Mines 2000: Kasmere Lake, NTS 64N, Manitoba Industry, Trade and Mines, Geological Survey, Bedrock Geology Compilation Map 64N, 1 colour map. scale 1:250 000.

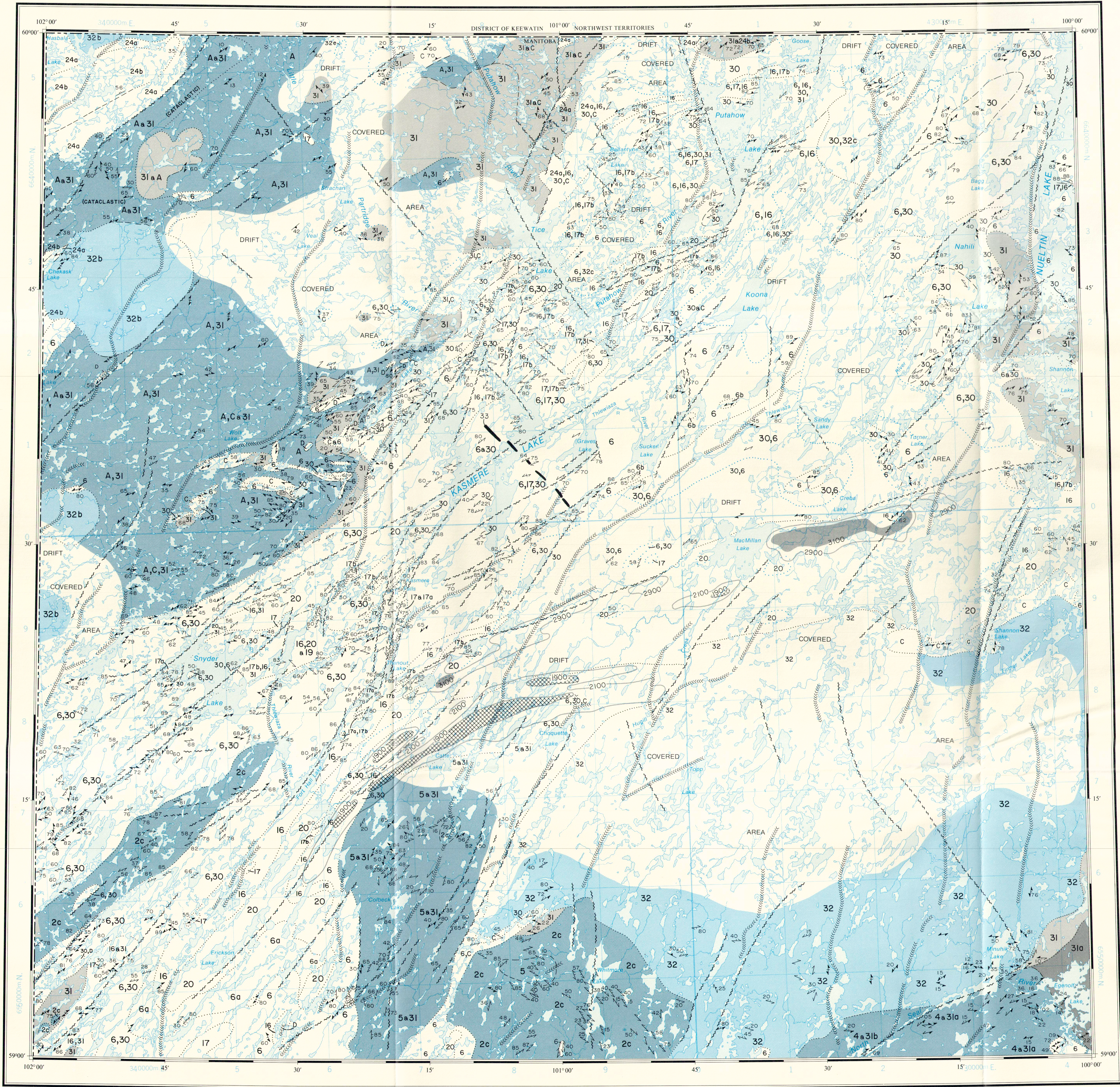
LEGEND

Post-Hudsonian and Hybrid Rocks	<div>33</div>	Diabase			
	<div>32</div>	Pink porphyritic quartz monzonite; 32a) pink and/or white granite pegmatite; 32b) pink fluorite-bearing quartz monzonite; 32c) White fluorite-bearing quartz monzonite; 32d) Red granite, coarse grained to pegmatitic ± fluorite; 32e) Quartz-feldspar porphyry			
	<div>31</div>	Quartz monzonite, medium- to coarse-grained, massive to foliated ± aplite ± pegmatite zones			
	<div>31a, b, c, d</div>	31a) Hybrid quartz monzonite; 31b) Pink aplite ± hornblende; 31c) Well foliated biotite ± magnetite granite gneiss; 31d) Hybrid gneiss			
	<div>30</div>	White granite to trondhjemite, medium grained, cordierite-bearing ± tourmaline; 30a) Porphyritic white granodiorite			
SEQUENCE I			SEQUENCE II		
	<div>20</div>	Meta-arkose: derived arkosic gneiss with metatextite	<div>29</div>	"Churchill quartzite"	
	<div>19</div>	Feldspathic quartzite with faserkiesel of muscovite-sillimanite-quartz	GREAT ISLAND GROUP		
	<div>18</div>	Quartzite ± andradite ± diopside ± epidote	<div>28</div>	Metasilstone and meta-argillite	
	<div>17</div>	Calc-silicate rocks; 17a) Marble ± quartz ± tremolite; 17b) Albite-pyroxene rock	<div>27</div>	Metagreywacke	
	<div>16</div>	Biotite psammite gneiss ± calc-silicate lenses	<div>27a</div>	(North Knife River) Interlayered red and/or green metagreywacke and green phyllite	
Archean and Possible Archean	<div>Archean</div>	<div>26</div>	Garnet amphibole schist (iron formation) ± pyrrhotite ± magnetite; 26a) Black pyritic meta-argillite ± black acicular amphibole-garnet	<div>25</div>	(North Knife River) Black meta-argillite with quartz pebbles
		<div>24</div>	Dolomitic marbles; quartz-clinohore; 24 a) Argillite (Hurwitz Group); 24 b) Dolomite (Hurwitz Group).	<div>23</div>	(Tadoula Lake) Metaconglomerate with muscovite-biotite-quartz siltstone matrix with quartzite clasts; interlayered grey siltstone with pebble beds
		<div>22</div>	Quartzite and interlayered pale green phyllite to biotite-muscovite schist ± garnet; 22a) Grey to grey-green phyllite ± andalusite ± biotite poikiloblasts		
		<div>21a</div>	Conglomerate oligomictic		
		<div>21b</div>	Conglomerate polymictic		
	<div>15</div>	Metagabbro in part noritic; metabasic rocks	<div>14</div>	Quartz porphyry	<div>Seal River Intrusive Rocks</div>
			<div>13</div>	Pink to grey, very fine grained feldspar porphyry	
			<div>12</div>	Ultramafic and serpentinite	
			<div>11</div>	Gabbro	
			<div>10</div>	Granodiorite to porphyritic quartz diorite	
	<div>6</div>	Semi-pelitic paragneiss to metatextite ± muscovite ± cordierite ± garnet ± sillimanite ± andalusite ± hypersthene; 6a) Semi-pelitic paragneiss to schist and interlayered, impure quartzite; 6b) Impure quartzite to quartzite; 6c) Augen gneiss; 6d) Biotite-feldspar gneiss with granodiorite <i>lens</i>	<div>9a</div>	Conglomerate, volcanic derived	<div>Seal River Volcanic Rocks</div>
			<div>9b</div>	Conglomerate and greywacke	
			<div>9c</div>	Metasilstone (± uvarovite)	
			<div>8</div>	Amphibolite	
			<div>7a, b, c, d</div>	7a) Andesite and minor basalt; 7b) Interlayered tuff and pillowed andesite; 7c) Intermediate tuff, lapilli tuff and interlayered siliceous metasedimentary rocks, local rhyodacite and andesite flows; 7d) Rhyolite to rhyodacite	
Archean and Probable Archean Rocks	<div>5</div>	Foliated quartz monzonite			
	<div>4</div>	Foliated alaskite			
	<div>3</div>	Metadiorite to amphibolite and magnetite-biotite-hornblende schist			
	<div>2a, b, c</div>	2a) Hypersthene-quartz diorite; 2b) Hypersthene trondhjemite; 2c) Hypersthene-quartz monzonite (monzocharnockite)			
	<div>1</div>	Hypersthene gneiss			
Rocks of Uncertain Affinity	<div>A</div>	Grey tonalitic to granodioritic gneisses			
	<div>B</div>	Foliated to lineated biotite granodiorite to tonalite			
	<div>C</div>	Granodiorite diatextite to biotite metatextite ± garnet			
	<div>D</div>	Amphibolite			

Units occurring on this map are indicated in heavy type

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ERRATA: The headings Seal River Volcanic Rocks and Seal River Intrusive Rocks are shown incorrectly in an inverted order in the legends of Maps GR80-9-1 to GR80-9-7.



SYMBOLS

	Geological boundary (defined, approximate, assumed, underwater, gradational)
	Bedding, tops known (inclined, vertical, overturned)
	Bedding, tops unknown (inclined, vertical, dip unknown)
	Bedding, tops unknown and parallel schistosity (inclined)
	Metamorphic layering (inclined, vertical, amount of dip unknown)
	Inclusion layering (inclined)
	Igneous layering, tops unknown (inclined)
	Igneous layering, tops unknown (inclined, dip unknown)
	Pillow, tops known (inclined)
	Pillow, tops unknown (inclined)
	Metamorphic layering and parallel gneissosity (inclined, vertical, amount of dip unknown)
	Metamorphic layering and parallel schistosity (inclined)
	Gneissosity (inclined, vertical, dip unknown)
	Schistosity (inclined, vertical, dip unknown)
	Cataclastic foliation (inclined)
	Fracture cleavage—strain slip cleavage (inclined)
	Mineral lineation (plunge indicated)
	Boudin axes (inclined)
	Rodding, mullion structure (inclined)
Minor folds:	
	axis (inclined)
	axial plane (inclined)
	symmetry (asymmetrical Z-shaped, asymmetrical S-shaped, symmetrical)
	Fault (assumed, approximate)
	Sheared zone
	Esker
	Limit of drift covered area
	Magnetic contour intervals (after Federal/Provincial aeromagnetic map 7151 G)
	Less than 1900, greater than 3100 gammas

Geological Services Branch, Mineral Resources Division, Winnipeg
To accompany MRD Geological Report GR80-9

Geology by
D.C.P. SCHLEDEWITZ 1980
(including revisions from 1:250 000 scale Map 74-2-25
Kasmere Lake - Whiskey Jack Lake (North Half))

Cartography by
M. TIMCOE and P. BUONPENSIERE

INDEX MAP

The corresponding sheet of the National Topographic Series is 64-N

The magnetic declination at the centre of the map is approximately 14° 48' East (1981) and is decreasing by 15.6' annually

