Welded ash-flow SMSi 442 ± 4 Crystallization age Skulski et al., 2012 Skulski et al., 2010 Zircon Conglomerate OSPC <479 ± 4 Deu II.ai maximum age Skulski et al., 2010 Skulski et al., 2012

Figure 1. Map sources: 1 = Hibbard, 1983; 2 = Kidd, 1974; 3 = MacDougall et al., 1989; 4 = Miller and Abdel-Rahman, 1994.

Southern Baie Verte Peninsula (Newfoundland and Neoproterozoic Birchy Complex, and Neoproterozoic to Ordovician Fleur de Lys Supergroup, which make up the Humber continental margin. East of the Baie Verte Line, the continental margin units are tectonically overlain by Cambrian rocks of the Advocate Complex (Baie Verte Oceanic Tract), and ophiolite cover of the Ordovician Snooks Arm Group and Black Brook group. These are stitched by a continental overlap assemblage including Ordovician-Silurian Burlington plutonic suite and Silurian Micmac Lake Group, King's Point volcanic complex, and west of the Baie Verte Line, Wild Cove Pond Igneous Suite and late tectonic, Trap Pond qui comprend la suite plutonique de Burlington de granite. Four phases of regional deformation have l'Ordovicien-Silurien, ainsi que d'unités du Silurien Birchy Complex and related to ophiolite obduction; D regional, penetrative deformation associated with isoclinal folds and shear zones and accompanied by greenschist- to amphibolite-facies metamorphism; D related to asymmetric and chevron folds near the Baie Verte Line; and D₄ related to extensional and dextral faults and reactivation of faults.

Ordovicien du Supergroupe de Fleur de Lys qui composent la marge continentale de Humber. À l'est de la ligne de Baie Verte, les unités de la marque continentale sont surmontées tectoniquement par les roches cambriennes du Complexe d'Advocate (bande océanique de Baie Verte), et de roches de couverture d'ophiolites attribuées au Groupe de Snooks Arm et au groupe de Black Brook de l'Ordovicien. Celles-ci sont soudées par un assemblage continental chevauchant constituées du Groupe de Micmac Lake, du complé volcanique de King's Point et, à l'ouest de la ligne d Baie Verte, de la suite ignée de Wild Cove Pond et d granite tarditectonique de Trap Pond. Quatre phases de déformation régionales ont touché la région, dont : documentée le mieux dans le complexe de Birchy, est reliée à l'obduction des ophiolites; D2, une déformation régionale et pénétrative associée à des plis isoclinaux et accompagnée d'un métamorphisme du faciès de schistes verts au faciès des amphibolites; D₃, rapportée à des plis asymétriques et à des plis en chevron prè de la ligne de Baie Verte; et D₄, rapportée à la formation de failles d'extension et de failles dextres ainsi qu'à la réactivation de failles.

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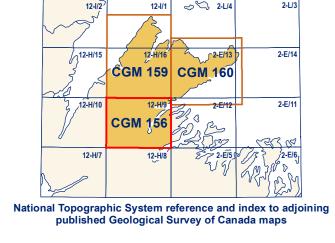
Canada, as represented by the Minister

Le sous-sol de la partie sud de la péninsule Baie Verte

Mésoprotérozoïque, du Complexe de Birchy d

Néoprotérozoïque et de roches du Néoprotérozoïque à

erre-Neuve-et-Labrador, SNRC 12-H/9) est constitué



Catalogue No. M183-1/156-2013E-PDF ISBN 978-1-100-22374-2 doi:10.4095/295864

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CANADIAN GEOSCIENCE MAP 156

KING'S POINT Newfoundland and Labrador



AC: Advocate Complex BC: Betts Cove Complex PC: Pacquet complex PR: Point Rousse Complex BVL: Baie Verte Line BBG: Black Brook group CBP: Cape Brule Porphyry CSJ: Cape St. John Group G: Dunamagon granite GP: Gull Pond Ridge pluton LG: La Scie granite MG: Ming's Bight Group RC: Reddits Cove gabbro SI: Seal Island Bight syenite TP: Trap Pond granite Thrust fault Normal fault Continental overlap assemblages Wild Cove Pond Igneous Suite King's Point volcanic complex Ultramafic (mantle and cumulate) Confusion Bay plutonic suite– Cape St. John Group NEOPROTEROZOIC TO EARLY PALEOZOIC Micmac Lake Group ur de Lys Supergroup UPPER ORDOVICIAN-SILURIAN Burlington plutonic suite Rattling Brook Group (extensional allochtho TEROZOIC: EDIACARAN rchy Complex (ocean-continent transition Figure 2. a) Tectonic map of Newfoundland and b) simplified geological map of the Baie Verte Peninsula (modified from Hibbard, 1983; Skulski et al., 2010) TO SOUND ON SOUND **CANADIAN GEOSCIENCE MAP 156**

CANADIAN GEOSCIENCE MAP 156

SILURIAN: LUDLOW-PRIDOLI

Trap Pond granite: massive biotite granite, post-D₂, dated at 423 ± 1.7 Ma

SILURIAN: WENLOCK-LUDLOW

Wild Cove Pond Igneous Suite with elevated TiO₂ content (>2%) and light rare-earth element-enriched. Small plutons of syntectonic (D₂), peraluminous, biotite-muscovite granite and

Pillowed and massive, amygdaloidal, tholeiitic, plagioclase+clinopyroxenegranodiorite dated at 427.8 ± 2.5 Ma (Loc. 29, NTS 12-H/7). phyric basalt flows. Massive to foliated K-feldspar megacrystic monzogranite, biotite±hornblende granodiorite, and biotite-muscovite±garnet monzogranite. Green wacke, siltstone, and mafic tuff to lapilli tuff.

Massive to foliated biotite±hornblende quartz diorite, monzodiorite, and comagmatic biotite-hornblende-pyroxene alkaline gabbro (theralite).

Migmatite in contact metamorphic aureole, includes hybrid gneiss (banded diorite and granitic rocks) and agmatite.

King's Point volcanic complex Late intrusive rocks Gull Pond Ridge pluton: dark red, sodic amphibole-biotite peralkaline monzogranite, medium-grained granophyric.

Fine- to medium-grained, metaluminous granite and quartz syenite dated at 427 ± 2 Ma (Coyle, 1990).

Volcanic sequence Upper volcanic unit: amphibole-porphyritic comenditic ash-flow tuff, ignimbrite.

Quartz-feldspar porphyritic comenditic ash-flow tuff and breccia units and possible hypabyssal intrusive equivalents forming ring dykes.

Sparsely quartz-feldspar-porphyritic to aphyric ash-flow tuff.

Sparsely quartz-feldspar-porphyritic ash-flow tuff. Intrusive rocks

Pale reddish-brown to brown-grey, feldspar±quartz porphyritic, hypersolvus, peralkaline syenite and granite. Middle felsic volcanic unit: aphyric to sparsely porphyritic, to porphyritic and

lithophysae-bearing ash-flow tuff, ash-flow lapilli tuff and breccia. Lower volcanic unit: aphyric to quartz-feldspar porphyritic ash-flow tuff and

SILURIAN: LLANDOVERY-WENLOCK Synvolcanic intrusive rocks

breccia with clasts of aphyric flows, quartz-feldspar porphyry or granite.

Dark maroon, aphyric, mainly intrusive, comendite occurs as dykes, sills, and

Micmac Lake Group Fox Pond formation

Interbedded psammite, semipelite, minor metabasalt, and metagabbro. Red porphyritic eutaxitic ignimbrite (high-K rhyolitic to dacitic). Mafic schist (metabasalt), amphibolite, banded amphibolite and metagabbro,

Pink-weathering arkose, flat-bedded, well graded. North of Flat Water Pond, sandstone is metamorphosed and bleached grey-buff. Massive, flinty, dark purplish, lightly mottled trachytic alkaline basalt.

> **East Pond Metamorphic Suite** Pink-red volcanic rock-derived, pebble to boulder conglomerate. North of Flat Water Pond, basal metaconglomerate contains plutonic clasts and is

(plagioclase-phyric), and hawaiite. North of Flat Water Pond, mafic netavolcanic units weather medium green. Strugglers Pond formation

Massive, vesicular purplish-green-weathered basalt, alkaline basalt, basanite

SMSip Red, quartz-K-feldspar–porphyritic eutaxitic, rhyolitic ignimbrite.

SMSr Maroon, massive to flow-banded, aphyric rhyolite, with local, basal autobreccia.

Flinty, red, aphyric, rhyolitic eutaxitic ignimbrite dated at 442 ± 4 Ma

SMSb Massive, green, purplish-green- or purplish-weathering, nonporphyritic basalt. Pink, porous-weathering, porphyritic eutaxitic rhyolitic ignimbrite with rare pebbles of red chert and fuchsitic serpentinite.

Red pebble to boulder conglomerate contains clasts of granodiorite, SMSc nonporphyrityic maroon rhyolite, rare quartz-feldspar porphyry, and basalt. Locally overlies plutonic regolith. UPPER ORDOVICIAN-SILURIAN: LLANDOVERY Burlington plutonic suite

Biotite±hornblende granodiorite dated at 441 ± 1.2 Ma (Loc. 9, see Skulski et al., 2015a), biotite-hornblende quartz monzodiorite and granodiorite. SBqd Hornblende-biotite leuco-quartz diorite, biotite-hornblende quartz diorite, and biotite-hornblende tonalite.

Chalky-weathering, medium- to coarse-grained, foliated to gneissic hornblende-biotite granodiorite dated at 445 ± 4 Ma (Loc. 11, see Skulski et al., 2015a). UPPER ORDOVICIAN

Black Brook group: unsubdivided, quartzite dated at less than or equal to uOBBu 457 ± 4 Ma (Loc. 12, Table 1), jasper iron-formation, felsic tuff, and pillow

LOWER-MIDDLE ORDOVICIAN Synvolcanic intrusive rocks

Tholeiitic gabbro sills includes plagioclase±clinopyroxe-phyric to fine-grained gabbro and diabase. Commonly rich in Fe-Ti-oxide minerals. Ophiolite cover **Snooks Arm Group**

Inseparated volcanic and sedimentary rocks of the Snooks Arm Group. Venams Bight Formation: pillowed tholeiitic basalt and sheet flows; clinopyroxene+plagioclase±magnetite porphyritic and vesicular.

Bobby Cove Formation Mafic tuff and lapilli tuff (localy crystal tuff with plagioclase), grades into overlying epiclastic unit. Locally interbedded with thin basalt flows.

replaced by actinolite or hornblende pseudomorphs.

Prairie Hat member: clinopyroxene-phyric to megacrystic (up to 1 cm), calc-alkaline basaltic andesitic crystal tuff and lapilli tuff. Locally clinopyroxene REFERENCES

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F₃, U-shaped

F₃, S-shaped

Dextral

Geochronology location (seeTable 1)

Drilled prospect (seeTable 2)

▼ U-Pb age data in Ma

40Ar/³⁹Ar age data in Ma

Rocky Bottom Trend; RB Landing

Raven

Mineral or stretching lineation

Fault or shear zone

locally interbedded with thin chert layers, psammite, and semipelite. nPBq Psammite interbedded with thin pelite and semipelite beds.

MESOPROTEROZOIC

Scrape Point Formation

and shale, locally interbedded with pillow basalt.

Buff-pink-weathering, locally sericitized dacite, rhyodacite, and/or felsic tuff

Kidney Pond conglomerate: conglomerate containing ophiolitic gabbro,

granodiorite, chert and basalt clasts in black shaly, chloritic matrix dated at

Megaconglomerate with large clasts and blocks of ophiolitic gabbro in a black

Unseparated ophiolitic rocks, may include ultramafic cumulate, layered and

Lavered melagabbro and gabbronorite, pyroxenite, and gabbro cumulate; cut

Layered peridotite includes poikilitic lherzolite, and subbordinate harzburgite

Serpentinized ultramafic rock, originally oceanic mantle, but may include

Unseparated semipelitic, pelitic, and psammitic schist; minor greenschist,

layered ultramafic cumulates (CBHu). Locally with talc-carbonate and quartz-

massive gabbro, sheeted dykes, pillowed basalt, and boninite.

dated at 476.5 ± 4 Ma (Loc. 17, see Skulski et al., 2015a).

less than 479 ± 4 Ma (Loc. 18, Table 1).

Baie Verte Oceanic Tract

Ophiolitic intrusive rocks

and dunite; commonly serpentinized.

carbonate-fuchsite (virginite) alteration.

nPOa Mainly massive, black-green amphibolite dykes, sills, and pods.

Advocate Complex

Oceanic mantle

NEOPROTEROZOIC-(?) LOWER ORDOVICIAN

Fleur de Lys Supergroup

Old House Cove Group

Rattling Brook Group

NEOPROTEROZOIC: EDIACARAN

Birchy Complex

marble, and graphitic schist

CAMBRIAN: FURONGIAN

Dominantly fine- to medium-grained, grey psammitic and semipelitic schist and gneiss, grey, banded quartzofeldspathic gneiss, migmatite, and minor pink

Lithological or stratigraphic contact / Approximate

/ Inferred Unconformity ∠ Approximate

Fault or shear zone ---- Approximate D₁ thrust or reverse fault — → — · Approximate

Dextral fault ————· Approximate F₂ axial trace of syncline

—··↓··—·· Overturned F₂ axial trace of antiform —··--‡···—·· Upright

F₂ axial trace of synform —··‡··—·· Upright

× Visited in this study Note: Compiled historical data are shown in purple.

Inclined Vertical Facing known ¹⁵ 🗴 Overturned

✓ Vertical Igneous layering 25 Inclined Vertical

Inclined Vertical Inclined

> Vertical S₁, vertical S₂, inclined

S₂, vertical S₃, inclined S₃, vertical S₄, inclined

The King's Point map area (southwest Baie Verte Peninsula, Newfoundland and Labrador) is one of

and remotely sensed data (see also Skulski et al., 2015a, b). This area is underlain by rocks of the Humber continental margin (Fleur de Lys Supergroup), dismembered Cambrian phiolite (Advocate Complex), Lower to Middle Ordovician ophiolite cover (Snooks Arm Group), nd Upper Ordovician to Silurian continental, volcano-plutonic rocks (Burlington plutonic suite) Micmac Lake Group, King's Point volcanic complex, and Wild Cove Pond Igneous Suite JGS Time Scale of Cohen et al. (2013) is utilized herein). CTONOSTRATIGRAPHY AND SETTING The East Pond Metamorphic Suite constitutes Mesoproterozoic basement (de Wit, 1980;

DESCRIPTIVE NOTES

de Wit and Armstrong, 2014) to the Fleur de Lys Supergroup and consists of grey psammitic and semipelitic gneiss, biotite quartzite, epidosite, amphibolite, migmatitic gneiss, and granitic gneiss (unit mPEPm). The overlying Fleur de Lys Supergroup represents the east-facing continental margin that is subdivided (van Staal et al., 2013) into the ocean-continent transition (558 Ma Birchy omplex), an extensional allochthon (Rattling Brook Group), and para-autochthonous continen margin (Old House Cove Group on this map). The Birchy complex includes psammite and pelite (unit nPBq) overlain by tholeiitic metabasalt and mafic metatuff (unit nPBm), and interbedded psammite, semipelite, and metabasalt cut by metagabbro (unit nPBc). The Rattling Brook Group comprises unseparated semipelitic, pelitic, and psammitic schist; and minor greenschist, marble and graphitic schist (unit nPORB). Rocks of the para-autochthonous Humber margin include rift facies (Ediacaran mafic volcanic and fining-upward clastic metasedimentary rocks) and overlying drift-facies metasedimentary rocks (Cambrian to Early Ordovician carbonate and clastic sedimentary rocks). These are represented locally by tectonized, feldspar porphyroblastic, mica schist of the Old House Cove Group (unit nPOOHt) that are cut by amphibolite dykes, sills, and pods The Baie Verte Oceanic Tract includes the largely intact ophiolite of the Betts Cove Complex

and correlative, but dismembered ophiolite rocks that include the Advocate, Point Rousse, and

Pacquet complexes. The Advocate Complex includes kilometre-scale tracts of serpentinized oceanic mantle (unit CMs), locally with talc-carbonate (unit CBHI) and quartz-carbonate-fuchsite alteration. The ophiolite intrusive section includes layered ultramafic cumulate rocks (unit CBHu) in fault contact with layered melagabbro, pyroxenite, and gabbro (unit &BHg). The Lower to Middle Ordovician Snooks Arm Group overlies the Baie Verte Oceanic Tract on Baie Verte Peninsula (Skulski et al., 2010). The local contact with the underlying Advocate Complex, although not exposed, is interpreted to be an angular unconformity (Skulski et al., 2010). The overlying Scrape Point Formation comprises megaconglomerate with decimetre-scale clasts of ophiolite-derived gabbro in a black shale matrix (unit OSPx) overlain by the Kidney Pond conglomerate (unit OSPc) with clasts of ophiolite-derived gabbro, serpentinite, boninite, and continental margin-derived marble, quartzite, and granitoid clasts in a mixed sand and shale matrix. A granitoid clast has an age of 479 ± 4 Ma (location 18. Table 1) and provides a maximum age for deposition. An overlying felsi to intermediate volcanic unit is dated north of the map area at 476.5 ± 4 Ma (location 17, se Skukski et al., 2015a, Table 1; unit OSPf). The upper reaches of the Scrape Point Formation include pillowed, tholeiitic basalt (unit OSPm) and high TiO₂ (>2%) tholeiitic basalt units (unit OSPe) and nafic volcaniclastic and or epiclastic rocks (unit OSPv). The Bobby Cove Formation includes the Prairie Hat member consisting of clinopyroxene-phyric, mafic crystal and lapilli tuff (dated at 70 ± 4 Ma overlying the Betts Cove Complex; location 16, see Skulski et al., 2015b, Table 1) and is overlain by mafic tuff (unit OBCv). The Venams Bight Formation consists of pillowed tholeiitic basalt units (unit OVBm). Tholeiitic gabbro sills and dykes (unit OSAg) cut the Snooks Arm Group. The Black Brook group represents the final phase of submarine volcanism and sedimentation on the continental margin. It comprises quartzite, jasper iron-formation, felsic tuff, and pillow basalt (unit uOBBu: cf. Hibbard, 1983). The quartzite is dominated by detrital zircon crystals with a mean age of 457 ± 4 Ma (location 12, Table 1), which may date contemporaneous volcanism and yield a The Burlington plutonic suite marks a major tectonomagmatic transition in the Notre Dame Subzone in the late Ordovician to Silurian (Llandovery-Wenlock) with the widespread intrusion of felsic plutons and coeval subaerial volcanism accompanied by episodic regional uplift and emergence of the older continental margin sequences, and by Wenlock time, onset of the Salinic rogeny (Skulski et al., 2010). The Burlington plutonic suite comprises an early phase of calcalkaline, hornblende+biotite granodiorite (unit OBgdh) dated at 445 ± 4 Ma (location 11, see

Skukski et al., 2015a, Table 1; to the north), hornblende-biotite leuco-quartz diorite, biotitehornblende quartz diorite and biotite-hornblende tonalite (unit SBqd), and an intermediate. synvolcanic phase of biotite±hornblende granodiorite (unit SBgd) dated at 441 ± 1.2 Ma (location 9 see Skukski et al., 2015a, Table 1; to the north). The Micmac Lake Group comprises two nconformity-bound, Silurian formations (redbeds and metamorphic equivalents). The Strugglers Pond formation unconformably overlies the Burlington plutonic suite (unit OBgdh) where it was deposited on a rugged paleotopography (Kidd, 1974). It contains a basal pebble to boulder conglomerate with clasts of granodiorite, aphyric rhyolite, quartz-feldspar porphyry, and basalt (unit SMSc), overlain by porphyritic eutaxitic ignimbrite (unit SMSp), basalt (unit SMSb) and aphyric rhyolitic eutaxitic ignimbrite (unit SMSi) dated at 442 ± 4 Ma (location 10, Table 1). These are overlain by massive flow-banded, aphyric rhyolite (unit SMSr), and quartz-K-feldspar-phyric eutaxitic ignimbrite (unit SMSip). The Fox Pond formation (dated at <430 ± 4 Ma: location 7, see Skukski et al., 2015a, Table 1; to the north) lies unconformably on the Strugglers Pond formation and on the Burlington plutonic suite (433 Ma unit SBgdb; location 8, see Skukski et al., 2015a, Table 1; to the north) and contains volcanic rock-derived pebble to boulder conglomerate (unit SMFc), overlain by massive basalt, basanite, and hawaiite (unit SMFb), trachytic alkaline basalt (unit SMFt), arkose (unit SMFs), eutaxitic ignimbrite (high-K rhyolitic and dacitic; unit SMFi), and aphyric, mainly intrusive, comendite dykes, sills or rare flows (unit SMFh). The King's Point volcanic complex comprises Lower volcanic rocks of aphyric to quartz-feldspar porphyritic ash-flor tuff and tuff breccia (unit Sklax), and a Middle felsic volcanic unit of sparsely porphyritic and lithophysae-bearing ash-flow lapilli tuff and breccia (unit SKmv), sparsely quartz-feldspar phyric (unit SKsqfw), to aphyric (unit Sksqfa) ash-flow tuff units, quartz-feldspar-phyric comendition ash-flow tuff and breccia units. The Middle felsic volcanic unit includes hypabyssal intrusive equivalents forming ring dykes (unit SKqfa). The Upper volcanic unit comprises amphibole-phyric comenditic ash-flow tuffs and ignimbrite (unit SKama; Miller and Abdel-Rahman, 1994). These are cut by synvolcanic intrusive rocks including feldspar±quartz-phyric syenite and granite (unit SKsg). fine- to medium-grained granite and quartz syenite (unit Skgqs) dated at 427 ± 2 Ma (Coyle, 1990), and the satellite Gull Pond Ridge pluton comprising sodic amphibole-biotite peralkaline monzogranite (unit SGPR). The Wild Cove Pond igneous suite is contemporaneous with the King's Point and Cape St. John volcanic complexes and intrudes basement and cover of the Humber margin. It comprises contact migmatite, hybrid gneiss units and agmatite (unit SWCm), massive to foliated biotite±hornblende quartz diorite, monzodiorite and comagmatic alkaline gabbro (theralite; unit SWCd), and massive to foliated K-feldspar megacrystic monzogranite, biotite±hornblende granodiorite and biotite-muscovite±garnet monzogranite. Small plutons of syntectonic, peraluminous, biotite-muscovite granite and granodiorite (unit SWC) are

(unit STPg) is a biotite granite dated at 423 ± 1.7 Ma (location 34, Table 1). TECTONOMETAMORPHIC EVOLUTION Rocks of the southern Baie Verte Peninsula have been affected by at least four phases of deformation (de Wit, 1972; Kidd, 1974; Hibbard, 1983; Skulski et al., 2010 and references therein). Structural correlations across the Baie Verte Line are rendered difficult due to intense and longlived strain along the complex fault zone, which has juxtaposed rock units of different origins and

locally dated at 427.8 ± 2.5 Ma (to the south in NTS 12-H/7). The late-tectonic Trap Pond pluton

Structures and metamorphic imprint related to D₁ (D_e of Hibbard, 1983) are best preserved in the Birchy complex. A relict S₁ fabric is deduced in local, less transposed hinges of F₂ folds. Strongly overprinted D₁ fault zones are northwest-directed thrust faults that are commonly decorated with serpentinite or mélange in the Fleur de Lys Supergroup (Hibbard, 1983 and references therein). The D₁ phase is interpreted as related to obduction of ophiolite and partial underthrusting of the Humber margin during the Taconic Orogeny (Waldron et al., 1998) van Staal et al., 2007, 2013). Penetrative D₂ deformation (D_m of Hibbard, 1983) and metamorphism affects all rock units of the Baie Verte Peninsula. Although locally folded, the S2 foliation is generally steep, trending to the south-southwest. D₂ is associated with tight folds and bivergent fault zones (i.e. southeast- and northwest-directed). D₂ fabrics are locally overprinted by asymmetric and upright chevron F₃ folds, associated with an axial-planar S₃ strain-slip cleavage (D_L of Hibbard, 1983) and causing local deflection of the main structural grain. D₂ and D₃ are interpreted as part of an overall

The fourth deformation phase (D_L of Hibbard, 1983) is mainly documented along the Baie Verte Line, where a series of major, but relatively narrow and steep dextral, compressional or extensional fault zones overprint earlier structural fabrics, such as the Baie Verte Road Fault of Neale and Kennedy (1967). The D₄ phase is interpreted to have initiated during progressive dextral strike-slip (transpressional to transtensional) faulting along the Baie Verte Line and other shear zones during the Middle to Upper Devonian (Waldron et al., 1998; Anderson et al., 2001).

of Salinic deformation and metamorphism is locally constrained to be between ca. 423 Ma

(location 34, Table 1; U-Pb titanite age of a late tectonic granite) and ca. 417 Ma (location 1, Table 1;

Crow Hill North Arrowhead South Crow Hill South Mardi Gras White Face Hill Arrowhead Crooked Creek Gold Pit Gold Copper, molybdenum, zinc, uranium Mic Mac Lake North

Table 2. Drilled prospects.

Recommended citation Skulski, T., Castonguay, S., Kidd, W.S.F., McNicoll, V.J., and van Staal, C.R., 2015. Geology, King's Point, Newfoundland and Labrador, NTS 12-H/9; Geological Survey of Canada, Canadian Geoscience Map 156, scale 1:50 000. doi:10.4095/295864





Authors: T. Skulski, S. Castonguay, W.S.F. Kidd, V.J. McNicoll, and C.R. van Staal Geological field work by T. Skulski, S. Castonguay, C.R. van Staal, . Kerr (University of Victoria), S. Hinchey (Memorial University) 2006–2008, and W.S.F. Kidd (University of Cambridge), 1970–197 Geological compilation and notes by T. Skulski and S. Castonguay, 2008–2012

Geophysical and remotely sensed data processed by G. Kilfoil (Geological Survey of Newfoundland and Labrador), 2007 and T. Skulski, 2008–2013 Compiled structural data digitized by M. Currie and A. Magee Critial review by A. Zagorevski (Geological Survey of Canada) and H.A. Sandeman (Geological Survey of Newfoundland and Labrador) Scientific editing by E. Inglis

GEOLOGY Initiative of the Geological Survey of Canada, conducted under the auspices of the Appalachian TGI-3 Project as part of Natural **KING'S POINT** Newfoundland and Labrador NTS 12-H/9 1:50 000

Resources Canada's Targeted Geoscience Initiative (TGI-3). Map projection Universal Transverse Mercator, zone 21. Base map at the scale of 1:50 000 from Natural Resources Canada, with modifications. Elevations in metres above mean sea level Magnetic declination 2015, 19°47'W, decreasing 11.4' annually.

This map is not to be used for navigational purposes.

north of Kidney Pond, Newfoundland and Labrador Photograph by T. Skulski. 2014-109 The Geological Survey of Canada welcomes corrections of Data may include additional observations not portrayed on this map.

Title photograph: F₃ folded pelite and psammite, Birchy Complex,

See documentation accompanying the data. This publication is available for free download through GEOSCAN (http://geoscan.nrcan.gc.ca/).

CANADIAN GEOSCIENCE MAP 156 GEOLOGY KING'S POINT Newfoundland and Labrador NTS 12-H/9