EXPLANATION

SOv

VASSALBORO FORMATION

SOv: Medium dark gray salt and pepper textured quartz-plagioclase-biotite ± hornblende granofels with sporadic thin interbeds of medium greenish gray hornblende-diopside calc-silicate granofels.

OЄcbu

UPPER CASCO BAY GROUP UNDIVIDED

(Includes equivalents of Spring Point, Diamond Island, Scarboro, Spurwink, and Jewell Formations.)

OЄjf | OЄj

JEWELL FORMATION

OЄj: Light and dark gray, sulfidic and non-sulfidic muscovite-biotite-chlorite ± garnet phyllite locally with staurolite, andalusite, and chloritoid. Includes greenish chlorite phyllite.

OЄsk

SPURWINK LIMESTONE

Thin, ribbony-bedded medium gray metalimestone with thin quartz-biotite-chlorite phyllite interbeds.

OЄsc | OЄscl

SCARBORO FORMATION

OЄsc: Light and dark gray sulfidic and non-sulfidic muscovite-biotite-chlorite phyllite interbeds.

OЄscl: Thin ribbon-bedded metalimestone essentially like Spurwink Limestone.

OЄd

DIAMOND ISLAND FORMATION

Black rusty-weathering quartz-muscovite-graphite phyllite.

OЄs

SPRING POINT FORMATION

Mostly medium greenish gray chlorite-actinolite-plagioclase schist and phyllite, locally with agglomeratic fragments of light gray metafelsite crystal tuff and greenish gray chlorite phyllite. Minor well bedded light to medium gray quartzo-feldspathic biotite ± hornblende granofels.

OЄce | OЄcec | OЄces

CAPE ELIZABETH FORMATION

OЄce: Medium gray thin, poorly bedded to moderately well bedded quartz-plagioclase-biotite-muscovite ± garnet phyllite, with lesser interbedded muscovite-biotite-garnet schist. In southeastern Cape Elizabeth and Richmond Island area, buff-weathering calcareous and ankeritic feldspathic wacke with interbeds of dark gray chloritic and muscovitic phyllite. Minor calc-silicate lenses.

OЄcec: Thinly interbedded quartzose-plagioclase-biotite phyllite and garnet-rich beds (coticule).

OЄces: Rusty-weathering muscovite-biotite-garnet-staurolite schist and phyllite

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ЄOct | ЄOcw | ЄOc | ЄOcr

CUSHING FORMATION

ЄOc: Light to medium gray quartz-plagioclase-biotite ± muscovite gneiss locally with well preserved relict pyroclastic structures including aggomerate and quartz and/or plagioclase crystal tuff. Locally moderately well, thin to medium bedded.

ЄOct: Torey Hill Member: Rusty weathering muscovite-biotite-quartz-sillimanite-graphite schist.

ЄOcw: Wilson Cove Member: Rusty-weathering dark gray biotite-garnet-quartz ± hornblende or cummingtonite gneiss; minor thin well bedded fine-grained quartz-biotite-garnet granofels.

ЄOcr: Very rusty weathering lenses of quartz-plagioclase-muscovite gneiss and schist.

SYMBOLS

Contacts: dashed where inferred, solid where accurately located.

High angle post-metamorphic fault.

Silicified zone.

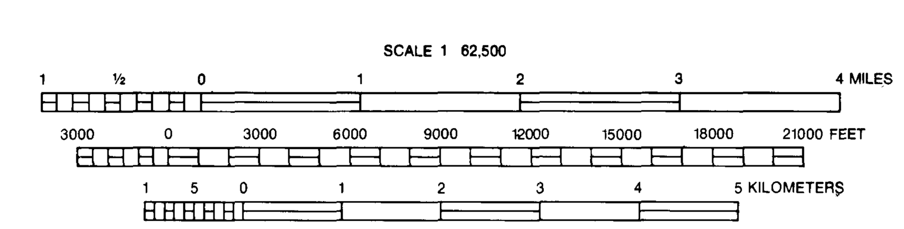
Thrust fault (teeth on upper plate).

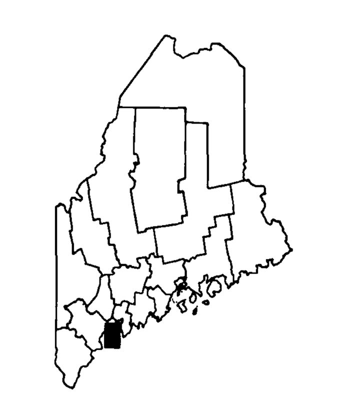
32 — Bedding dip and strike.

32 — Bedding dip and strike (tops, known from graded bedding, in direction of ball).

32 — Dip and strike of overturned bedding (tops known from graded bedding).

32 — Dip and strike of schistosity or gneissic foliation.





Quadrangle Location

RECONNAISSANCE

BEDROCK GEOLOGY OF THE CASCO BAY QUADRANGLE, MAINE

BY
ARTHUR M. HUSSEY

1981

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DEPARTMENT OF CONSERVATION
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