

Major Land Resource Area 240X

Nulato Hills-Southern Seward Peninsula Highlands

Accessed: 06/17/2026

Ecological site keys

AK630_Nulato Hills Survey

I. Maritime

A. Coastal Plains

1 Berms ... R240XY136AK – Meadow Coastal Plain Berm

2 Talfs

i. Scrub Coastal Plain ... R240XY135AK – Open Scrub Coastal Plains

ii. Grass Tidal Plains and Depressions ... R240XY139AK – Grassland Coastal Plain Talf and Tidal Flats

B. All Other Landforms

1 Plains

i. Lava Flow (or Proximal to Lava Flow)

a. Lava Flow

1) Lava flow ... R240XY151AK – Dwarf Ericaceous Scrub Relict Lava Flows

2) Swale on lava flow ... R240XY150AK – Tall Scrub Lava Flow Swales and Low Mountain Slopes, dry

b. Proximal to lava flow

1) Boulder field - well drained ... R240XY155AK – Dwarf Scrub Boulder Fields

2) Tussock tundra - poorly drained ... R240XY166AK – Grassland Tundra Plain, wet

ii. Other Landforms

a. Polygonal ground ... R240XY169AK – Open Scrub Polygonal Ground

b. Non-polygonal ground

1) Concave landforms

a) Organic soil - swale, drainageway, depression ... R240XY162AK – Grassland Swales and Drainageways

b) Mineral soil

(1) Drainageway ... R240XY160AK – Closed Scrub Drainageway, mineral

(2) Swale ... R240XY161AK – Open Scrub Swale, mineral

2) Linear and Convex landforms and microfeatures

a) **Plain talf** ... R240XY166AK – Grassland Tundra Plain, wet

b) **Peat mounds** ... R240XY162AK – Grassland Swales and Drainageways

2 Mountains and Hills

i. Dunes and Sandy Ridges (F230XY113AK)

ii. All Other Landforms

a. Hills and Low Elevation Mountains

1) Volcanic Cones

a) **Backslopes, warm** ... R240XY153AK – Open Scrub Volcano Cone Backslopes, warm

b) **Backslopes and shoulders, moist** ... R240XY180AK – Mosaic Tall Mountain Slopes and Volcano Cone Backslopes, cool

2) Slopes - broad, bedrock controlled

a) Upper Mountain Sites - summits, shoulders, upper backslopes & saddles

(1) Summits & Shoulders

(a) **Summits** ... R240XY183AK – Alpine Open Dwarf Scrub Tall Mountain Upper Slopes, cool

(b) **Shoulders** ... R240XY182AK – Alpine Open Dwarf Scrub Mountain Tops

(2) Upper Backslopes and Saddles

(a) Slopes

(1) Upper Backslopes

(a) Dry slopes

(1) **Linear** ... R240XY181AK – Subalpine Closed Low Scrub Tall Mountain Slopes

(2) **Exposed** ... R240XY186AK – Subalpine Open Low Scrub Tall Mountain Upper Backslopes

(b) **Moist slopes** ... R240XY150AK – Tall Scrub Lava Flow Swales and Low Mountain Slopes, dry

(2) **Saddles** ... R240XY168AK – Open Scrub Low Mountain Saddles and Slopes, moist

(b) **Slope microfeatures: depressions & mounds** ... R240XY162AK – Grassland Swales and Drainageways

b) Other Slopes

(1) **Drainageway & associated flood plain** ... R240XY160AK – Closed Scrub Drainageway, mineral

(2) Slopes

(a) Backslopes and Noseslopes

(1) Lower elevation - alder slopes

(a) **Dryer sites** ... R240XY150AK – Tall Scrub Lava Flow Swales and Low Mountain Slopes, dry

(b) **Moist sites** ... R240XY180AK – Mosaic Tall Mountain Slopes and Volcano Cone Backslopes, cool

(2) Higher elevations - ericaceous scrub

(a) **Dry sites** ... R240XY181AK – Subalpine Closed Low Scrub Tall Mountain Slopes

(b) **Moist sites** ... R240XY168AK – Open Scrub Low Mountain Saddles and Slopes, moist

(b) Headslopes and Foothslopes

(1) **Boulders present** ... R240XY155AK – Dwarf Scrub Boulder Fields

(2) Boulders absent

(a) **Forest sites**

(b) **Scrub sites**

(1) **Swales and Narrow Headslopes** ... R240XY172AK – Open Scrub Low Mountain Headslopes and Swales

(2) **Headslopes of wide valley** ... R240XY173AK – Closed Scrub Low Mountain Foothslopes and Wide Headslopes

b. High Elevation Mountains

1) Summits, Shoulders and Upper Backslopes

a) Alpine

(1) **Summits** ... R240XY183AK – Alpine Open Dwarf Scrub Tall Mountain Upper Slopes, cool

(2) Other Landforms

(a) Shoulders

(1) **Warm Slopes** ... R240XY185AK – Alpine Lichen-Scrub Tall Mountain Shoulders, warm

(2) **Cold slopes** ... R240XY184AK – Alpine Open Scrub Tall Mountain Tops, rocky

(b) **Upper Backslopes** ... R240XY182AK – Alpine Open Dwarf Scrub Mountain Tops

b) Subalpine

(1) **Permafrost absent** ... R240XY181AK – Subalpine Closed Low Scrub Tall Mountain Slopes

(2) **Permafrost present** ... R240XY168AK – Open Scrub Low Mountain Saddles and Slopes, moist

2) Other Mountain Positions

a) Drainageways

(1) Heather scrub valley terrace

(2) Willow drainage - poorly drained

b) Backslopes

(1) Very steep slope ... R240XY186AK – Subalpine Open Low Scrub Tall Mountain Upper Backslopes

(2) Slopes less than 45%

(a) Linear to convex slope ... R240XY186AK – Subalpine Open Low Scrub Tall Mountain Upper Backslopes

(b) Linear to concave slope

(1) Wetter sites - swales and concave lower backslopes ... R240XY187AK – Closed Tall Scrub Tall Mountain Backslopes, concave

(2) Drier sites - linear to concave mid backslopes ... R240XY180AK – Mosaic Tall Mountain Slopes and Volcano Cone Backslopes, cool

II. Boreal

A. Organic depressions - R230XY100AK

B. Other Landforms

1 Mountains and Hills

i. Saddles - R230XY131AK

ii. Other Mountain Positions

a. Summits, Shoulders and Convex Backslopes - F230XY102AK

b. Other Mountain Positions

1) Headslopes - F230XY121AK

2) Backslopes and Toeslopes

a) Backslopes

(1) Steep, dry slopes ... F240XY193AK – Maritime Open Forest Low Mountain Backslopes, warm

(2) Other Backslopes

(a) Warmer, drier slopes

(1) Mixed woodland - F230XY105AK

(2) Spruce woodland - F230XY102AK

(b) Wetter slopes - F230XY102AK

b) Toeslopes and Footslopes

(1) Colder, wetter areas - F230XY103AK

(2) Warmer, drier areas - F230XY102AK

2 Flood Plains and Valleys

i. Thermokarst Landscape - F230XY108AK

ii. Non-thermokarst Landscape

a. Drainages on Flood Plains and Terraces - R230XY119AK

b. Flood Plains and Terraces

1) Flood Plains

a) Depressions on Flood Plain - R230XY109AK

b) Flood Plains

(1) River Flood Plain

(a) Braided river system - F230XY110AK

(b) Mountain stream system - R230XY111AK

(2) Mountain Drainage - R230XY119AK

2) Terraces

a) Depression on Terrace - R230XY100AK

b) Terraces

(1) Earth hummocks absent - R230XY112AK

(2) Earth hummocks present - F230XY113AK

AK630_MLRA 240 only

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b) **Mineral soil**

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2) Linear and Convex landforms and microfeatures

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2 Mountains and Hills

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(2) **Exposed** ... R240XY186AK – Subalpine Open Low Scrub Tall Mountain Upper Backslopes

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(2) **Slopes less than 45%**

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b. Other Mountain Positions

1) Headslopes - F230XY121AK

2) Backslopes and Toeslopes – F230XY000AK

[Label] [Criteria]

MLRA 240 Provisional Ecological Site Key

I. Flooded Features - Coastal Plain, Flood Plain & Terraces

A. Coastal Plain Complex ... R240XY707AK – Arctic Scrub-Sedge Coastal Plain

B. Flood Plains

1 Boreal - F230XY601AK

2 Alpine & Subalpine ... R240XY702AK – Alpine Scrub Flood Plain Complex

II. Slopes

A. Hydric Features - Drainages and Swales ... R240XY710AK – Arctic Scrub Wet Drainages

B. Slopes - not as above

1 Boreal Climate supports trees - Concepts from MLRA 230X

i. Wetland soils

a. Poorly drained - F230XY611AK

b. Somewhat Poorly drained - F230XY613AK

ii. Non-wetland soils (Moderately well to well drained)

a. Slope mostly >20% - F230XY165AK

b. Slope mostly <20%

1) Warm Slopes, thin (<6") organic cap - F230XY612AK

2) Cold Slopes, thick (>6") organic cap - F230XY614AK

2 Arctic Climate, including non-treed Subalpine, Alpine (AGDD do not support trees)

i. Plains

a. Organic soil plain tussock tundra ... R240XY720AK – Arctic Tussock Tundra Frozen Plains

b. Mineral soil volcanic lava plains ... R240XY721AK – Arctic Scrub Silt Lava Plains

ii. Mountains

a. Alpine elevations above 1,200 feet ... R240XY730AK – Alpine Dwarf Scrub Gravelly Slopes

b. Subalpine elevations between 1,000 and 1,200 feet

1) Poorly drained soil ... R240XY731AK – Subalpine Ericaceous Scrub Loamy Slopes

2) Well drained soil ... R240XY732AK – Subalpine Tall Scrub Gravelly Slopes