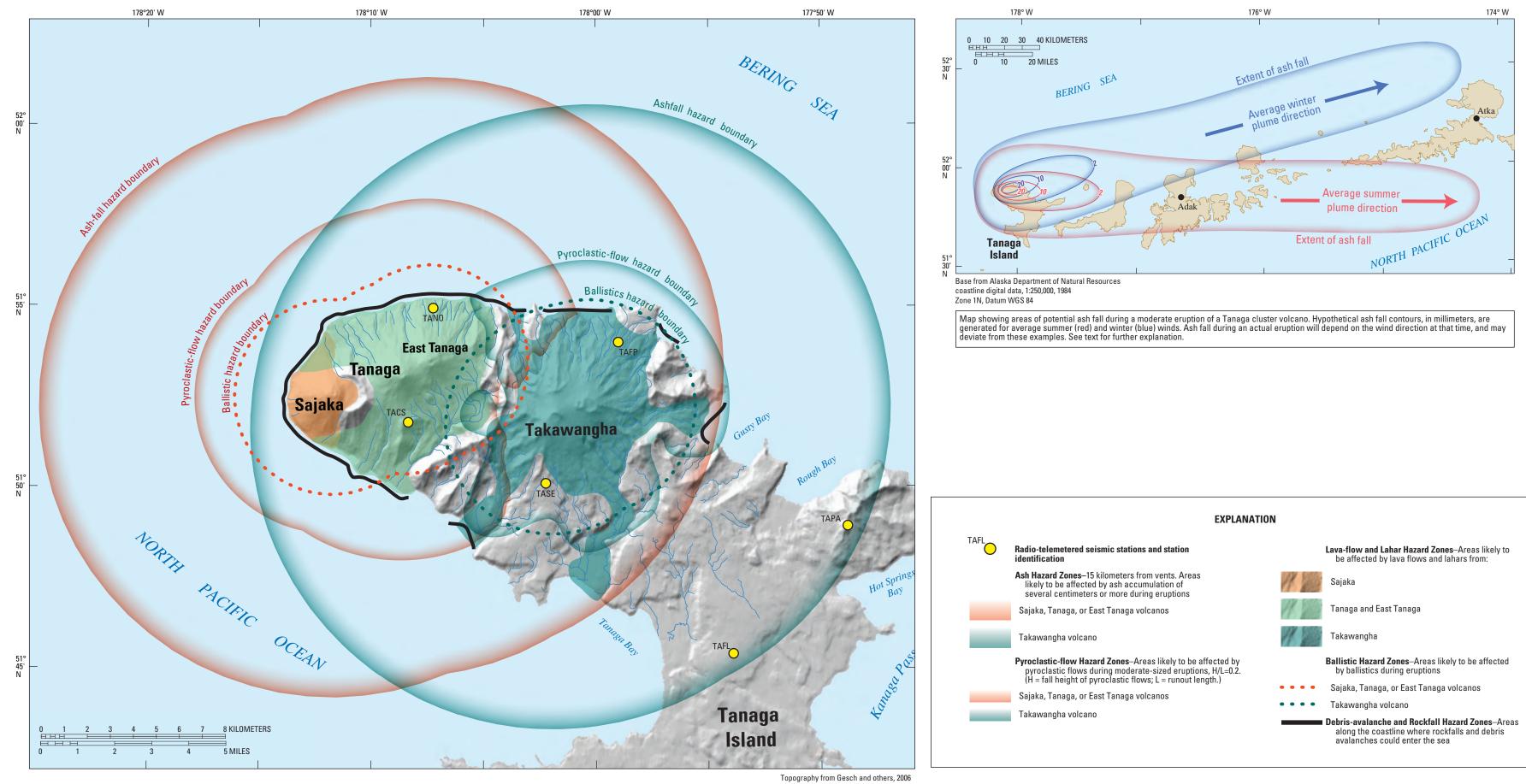
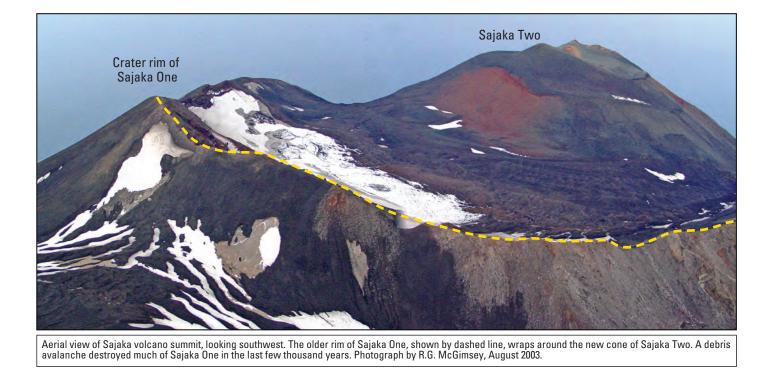
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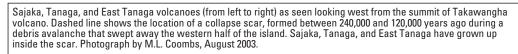






Michelle L. Coombs, Robert G. McGimsey, and Brandon L. Browne 2007

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## PRELIMINARY VOLCANO-HAZARD ASSESSMENT FOR THE TANAGA VOLCANIC CLUSTER, ALASKA By

## SUMMARY OF VOLCANIC HAZARDS AT TANAGA VOLCANIC CLUSTER

[See figure 12 and text for schematic representation and description of these processes. "Proximal" refers to northern Tanaga Island, "Distal" refers to areas offshore and the southern part of Tanaga Island, "Overhead" refers to the area above the volcano (for example, overflying aircraft)]

	Degree affected				
Type of Hazard	Proximal	Distal	Overhead	Commei	
Ash clouds	Major	Major to slight	Major	Severe haz kilometers	
Fallout	Major	Major to nil	Major	Significant communiti communiti	
Ballistics	Major	Nil	Nil	Significant explosive e	
Pyroclastic flows and surges	Major	Nil	Slight	Significant explosive e during larg	
Lava flows	Major	Nil	Nil	Significant pyroclastic potentially	
Lahars	Major	Nil	Nil	Significant erupting ve	
Rockfalls and landslides	Major	Nil	Nil	Persistent l those that a	
Volcanic gases	Major	Nil	Slight	Significant fumaroles	
Debris avalanches	Major	Major	Nil	Significant especially could exter	
Directed blasts	Major	Major	Major	Very low path of dir and debris	
Volcanic tsunamis	Major	Major	Nil	Very low p debris aval flows that shore of th shipping ro	



Looking to the north, a young basaltic lava flow from one of Takawangha's craters is partly covered by glacier ice. Photograph by M.L. Coombs, August 2003.

## Scientific Investigations Report 2007–5094 Summary of Volcanic Hazards-PLATE 1 Coombs, M.L, McGimsey, R.G., and Browne, B.L., 2007, Preliminary Volcano-Hazard Assessment for the Tanage Volcanic Cluster, Tanaga Island, Alaska

## ents

azard to aircraft even hundreds or thousands of rs downwind.

nt hazard to anyone around volcano and to nearby ties. Minor hazard or nuisance in distant ities.

nt hazard to anyone on or around volcano during e eruptions.

nt hazard to anyone on or near the volcano during e eruptions. Possible hazard to overflying aircraft rge eruptions.

nt hazard to anyone near flows; attendant ic flows, fallout, or ballistics increase the area y affected.

nt hazard limited to drainages downstream from vent.

t hazard to anyone near steep slopes especially t are hydrothermally altered.

nt hazard during periods of strong degassing from s or vents.

nt hazard to anyone around volcano during event, y in low-lying areas. Larger debris avalanches end offshore.

v probability, but significant hazard especially in irected blast; attendant pyroclastic flows, fallout, is avalanche would increase affected area.

probability, but significant hazard during large alanche or eruption that produces large pyroclastic t enter the sea; could occur off the north or west the island, affecting areas on nearby islands, routes, and the Bering Sea.



East

Tanaga