Outreach and Public Impact of TA Deployment in Alaska and Western Canada

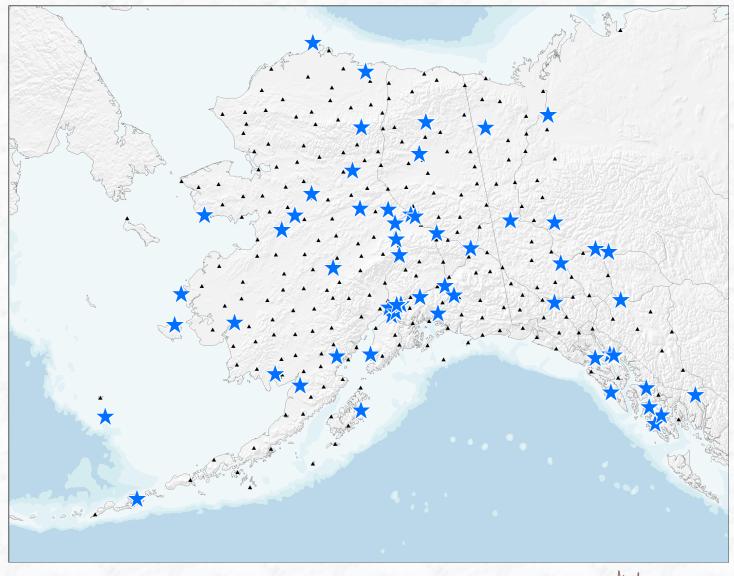
Lea Gardine **Alaska Earthquake Center**



YukonCollege



Communities Directly Impacted



All Marine and Marine and

Regionalized Content

From Grust to Core. EarthScope comes to Maska



EarthScope in the Arctic Slope Region

The right communities within the Arctic Stope Regional Corporatiregion, nothern Aska, experience meet has 25 extrahalacks per yer. The anthquakes occur down to depths of about 28 miles. Most of the earthquakes go unnoted, but accessionally large events are hit. Sins 1900, six events have had a magnitude greater than 5.0. The too large, events within the region were the one angitude 5.2 events on Jan 22, 19 Events with megnitude greater than 5.0 and other noteworthy events a shown on the map.

Earthcopeptins formatal 34 (ramportable Array temporary stations du her opicst's year deployment. The proposed stations are shown with triangles. The causes of sestimicity in the region are not well known, hey the activity on the Cauden Bay faultation of the northern coats. The abas of monitoring stations in the region inhibits study of the earthquakes. Transportable Array stations will help to uncover clues to the origin these earthquakes.



From Crust to Core: EarthScope comes to Yukon

Informational Brochures with 12 regional inserts

Alaska specific Active Earth content, available online and kiosks in state





Male and a second and the second and

News Coverage



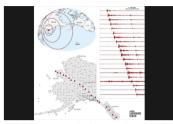
Highlighting TA stations when notable earthquakes occur



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North Korea blast lights up Alaska seismometers

Ned Rozell / Alaska Science Forum Sep 7, 2017 오 (0)



Alaska seismometer recordings show an underground nuclear bomb detonation on Sept. 2 in North Korea. The energy reached Alaska just after 7:30 p.m. that day.

Graphic by Helena Buurman, Alaska Earthquake Center

FAIRBANKS — On Saturday night, Matt Gardine was at home outside Fairbanks playing with his daughter when his phone beeped. As the selsmologist on call with the Alaska Earthquake Center, Gardine's duty was to get information out about detectable

- was to get information out about detectable earthquakes right after they happen.
- earthquakes right after they happen
- A few minutes earlier, at 7:30 p.m., a wave of energy had passed through Alaska. The shake had

 had passed through Alaska. The shake had propagated through the entire planet, first reaching Alaska near the village of Wales and racing southeast

from there.

Looking at the waveform that registered on selsmometers from Tin City to Ketchikan, Gardine noticed its squiggle signature did not look like an earthquake. He saw its origin was North Korea, which doesn't have many large earthquakes. He also thought it curious that the disturbance occurred right on the half hour, at 7:30 p.m.

Though people in China and Russia reported feeling a shake, which USGS scientists estimated as magnitude 6.3 at its source in North Korea, Gardine suspected no Alaskans would detect the movement and that it was not an earthquake. He issued no Alaska Science Forum coverage tying sense of place with communities with installations

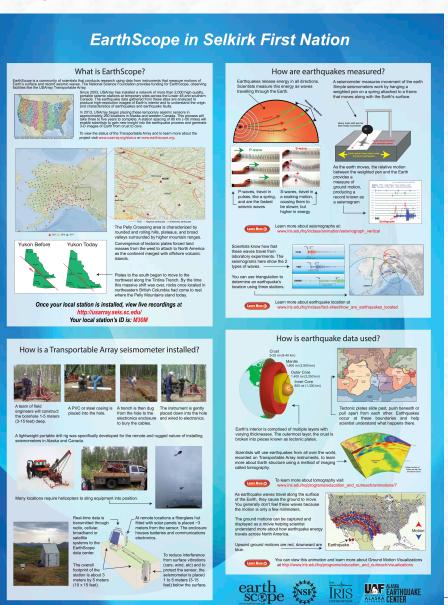


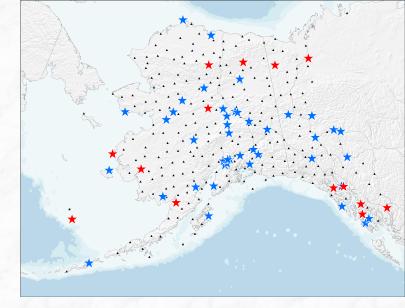
Minto earthquakes then, now and tomorrow

By Ned Rozell MINTO – Sarah Silas, 89, smiled as she remembered	Ned Rozell ALASKA SCIENCE PORUM	are removed and used elsewhere, seismologists hope to find out more about weak spots in Earth's	1		flats i reloca Silas world
an earthquake that shook		crust that slip to cause	11/10	of the second second	and to
her village more than 60 years are. The floor of her	would soon be the home	earthquakes. One of the more intriming areas is	6	and the second se	"B
cabin swaved so that her	to a seismometer. That	the chain-of-lakes country		A STATE OF THE OWNER	
cation swayed so that her young son staggered away	sophisticated earthquake	outside the window of the			Bergr
from her.	detector is part of a plan to carpet Alaska with like	Silases' cabin.	And a straight of the straight	and the second se	Minte
"My three-year old boy	instruments about every	Tape, a researcher at		A DECK OF A DECK OF	desig
was laughing," she said	50 miles, from the Alaska	the University of Alaska			from
inside her log cabin, its	Peninsula to Barrow	Fairbanks's Geophysical			gravel
front door open to warm	The EarthScope Project	Institute, describes the		AND THE STREET	record
air on a golden day. "The	is a traveling band of	Minto Flats seismic zone			wheel
ground was moving so	seismometers that has	as a bowl of jellied soil		A CONTRACTOR OF THE OWNER	of the
much I couldn't even reach	blanketed the continental	the size of Mount Everest.			Fairb
my little son." Silas, with her husband.	states in past years. This summer, technicians and	He is quite happy for the new seismometer at the			in the
Berrman, a gracious host to	scientists have installed	Minto airport. It will help	The second se		restle the ex
a visiting seismologist, was	20 stations in Alaska.	him and other scientists		110 101	carth
one of a few people in this	including the one in	num and other scientists understand more about remembers a 1947 earthquake.			scient
village of about 200 who	Minto, Next year, workers	faults beneath the swampy.	remembers a 1947 eartisqu	ake.	and a
remembered an earthquake	with the National Science	self-healing surface. When			be ab
in October 1947. The	Foundation-funded project	the ground slips there, it	over to knock on the door	the 1947 earthquake,	the fr
earthquake scientist, Carl	will try to install 40 more	produces earthquakes like	of Bergman and Sarah	a magnitude 7.2. The	excess
Tape, was in Minto to interview elders and check	seismometers in some of	the magnitude 5.0 that happened 10 miles east of	Silas. Almost every kid in	Silases, married 70 years,	Since
on the installation of a	the loneliest spots in Alaska	Minto on Aug. 30.	the class had a story about the recent earthquake.	both remembered intense shaking where they lived	office
super-sensitive instrument	and the Yukon. If that goes well, 80 more installations	'In the past, you've had	One girl said her parents	then on the Tanana	Univer
that detects ground motion.	will follow in 2016	earthquakes in this region	thought a tree had fallen on	River at a site about 25	has su fore da
A few blocks away at	With Alaska peppered	1,000 times larger than	their one-story cabin.	miles away known as Old	free day
the Minto airport, two	with the stations, which	two weeks ago," Tape told	At the Silas home, Tape	Minto. Villagers moved	is Ned.
contractors were drilling	will record carthonakes	25 students in the Minto	was recording Bergman	from Old Minto to here	science
a nine-foot hole that	for a few years before most	school before he walked	and Sarah's stories of	above the Tolovana River	Institu

location, Jergman lass said, they entropy Tay of the property of the theory of the Difference on particular start and the property of the theory of the errors and the second start errors and the particular start of the errors of the paragraph of the error of the er

Regional Posters





14 Communities in Alaska and Western Canada received posters with a content box tailored to their region.

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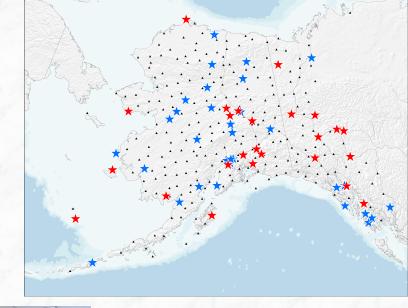
Community Visits, Classroom and Public Lectures



↑ Dillingham

↓ Minto





← Yukon Territory

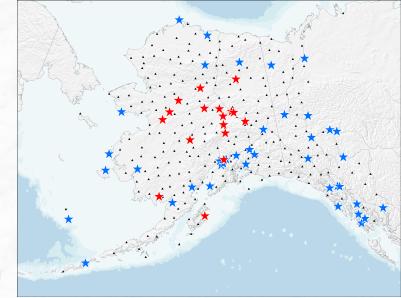
↓ Glacier View



Workshops, Scientific Meetings and Cultural Conferences



↑ Arctic Science Summit Week Alaska Federation of Natives Annual Convention



JAKE CENTER

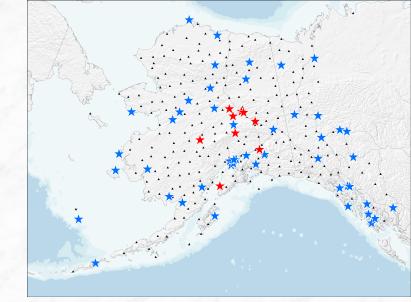
Alaska Earthquake Center Seismology Lab and EarthScope National Office Tours

Nenana Living Center students →

Nikoleavsk High School basketball team ↓







↓ North Slope GEOForce students

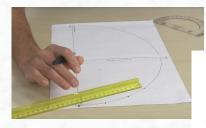


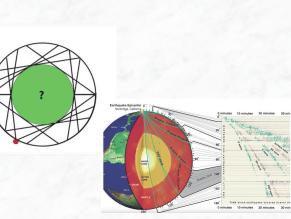
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Professional Development Class and resources for Educators

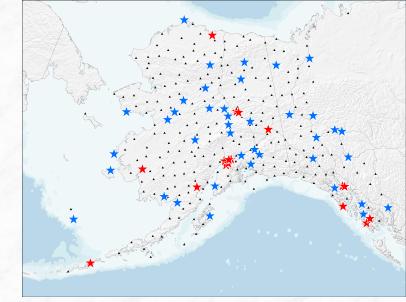
For-credit professional development for educators offered Spring and Fall 2017.

50 teachers have participated from 18 different communities.





300+ teacher information packets have been distributed to teachers across Alaska and Canada





Alaska STEM-Connect Workshop

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