

OCT 11 1985

Dr. William Kaula, Director
National Geodetic Survey
601 National Geodetic Survey
Rockville, MD 20851

Dear Dr. Kaula:

During the last several months there has been considerable interaction between our respective staffs concerning geodetic measurements in the Northeastern United States utilizing the Global Positioning Satellite (GPS) system. Coordination of these activities will benefit both agencies and can make contributions to resolving a problem of national significance, the cause of seismicity in the Eastern United States.

There are two topics that have been discussed, a planned series of measurements by NGS and an ongoing NRC funded research program in the area conducted by the Maine Geologic Survey. With respect to the first topic, Dr. William Strange of NGS informed us that NGS will be conducting a number of geodetic measurements in the Northeastern United States under an interagency agreement with the Federal Aviation Agency. He explained that the network of measurement points would include a number of areas where there has been recent seismicity. He stated that NGS may conduct extra observations in these areas to monitor deformations resulting from recent seismicity. I fully endorse such measurements because they will enable NGS to make contributions toward resolving very important scientific problems concerning seismicity in the Eastern United States. The NRC has conducted considerable research in this area including operation of a seismographic network and geologic and geophysical studies. We can make available to you any of our data in the region that may be of use in selecting measurement sites.

The other area for interagency cooperation concerns an existing NRC funded research program with the Maine Geologic Survey. Under that program we are investigating an area along the Maine-New Brunswick border where there is about 9 mm a year subsidence. There is seismicity associated with that subsidence. Dr. David Tyler of the University of Maine, working through the Maine Geologic Survey has proposed that the area should be leveled utilizing GPS procedures. We understand that he has approached the NGS for access to GPS receivers to conduct the measurements. Dr. Strange indicated to Dr. Tyler that NGS receivers could be made available to him but that the field costs would have to

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be reimbursed. NGS staff, NRC staff and Dr. Tyler propose that the best way to initiate this work is through an Inter-agency Agreement between NGS and NRC. Dr. Strange of NGS would prepare a proposal to the NRC for this cooperative effort.

Sincerely,

Original signed by
L.L. Beratan

Leon L. Beratan, Chief
Earth Sciences Branch Division of
Radiation Programs &
Earth Sciences, RES

Distribution/R-2811:

Circ/Chron	KGoller
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<u>RES Files</u>	
Subject File No.	<u>C-2811</u>
Task No.	_____
Research Request No.	_____
FIN No.	_____
NUREG No.	_____
Docket No.	_____
Rulemaking No.	_____
Other	_____
Return NRC-318 to RES, Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

ESB:RES
AMurphy *AM*
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LBeratan
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Dr. William Kaula

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