U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES
WATER DIVISION

OPEN-FILE REPORT 99-91
Ferguson, E.W., Marcoux, G.J., Degnan, J.R., Clark, S.F., Jr., and Moore, R.B., 1999
Lineament map area 14 of New Hampshire bedrock aquifer assessment, northernmost New Hampshire

EXPLANATION

Lineaments shown here represent straight photolinear features that are likely to be the result of underlying zones of vertical or high-angle bedrock fractures and are not obviously related to other geologic or cultural features. Lineaments shown have been confirmed by two independent observers for each scale of imagery. U.S. Geological Survey Open-File Report 96-479 (Clark and others, 1996) describes the criteria and methods used to identify the lineaments shown in this map. Every effort was made to apply these criteria and assumptions in a uniform manner during a thorough examination of the mapped areas.

——— Lineament observed by the use of low-altitude aerial photography having an approximate scale of 1:20,000. Location ±80 feet. See table 1 for photograph identification numbers

····· Lineament observed by the use of high-altitude aerial photography having an approximate scale of 1:80,000. Location ±80 feet. See table 2 for photograph identification numbers

~~~~ Lineament observed by the use of side-looking airborne radar mosaic (far range), Lewiston, Maine, N.H., and Vt. and Sherbrooke, Canada, Maine, N.H., and Vt.: U.S. Geological Survey, 1:250,000 scale. Location ±200 feet

wwwwww Lineament observed by the use of 1:250,000-scale Landsat imagery, band 7, image number 10054-109, obtained December 20, 1990. Location ±150 feet

REFERENCES CITED

Clark, S.F., Jr., Ferguson, E.W., Picard, M.Z., and Moore, R.B., 1996, Lineament map of area 2 of the New Hampshire bedrock aquifer assessment, south-central New Hampshire: U.S. Geological Survey Open-File Report 96-490, scale 1:48,000.

_____1997, Lineament map of area 4 of the New Hampshire bedrock aquifer assessment, southeast-central New Hampshire: U.S. Geological Survey Open-File Report 97-763, scale 1:48,000.

_____1998, Lineament map of area 6 of the New Hampshire bedrock aquifer assessment, central New Hampshire: U.S. Geological Survey Open-File Report 98-189, scale 1:48,000.

Clark, S.F., Jr., Ferguson, E.W., Short, H.A., Marcoux. G.J., and Moore, R.B., 1999, Lineament map of area 9 of the New Hampshire bedrock aquifer assessment, north-central New Hampshire: U.S. Geological Survey Open-File Report 98-63, scale 1:48,000.

Clark, S.F., Jr., Moore, R.B., Ferguson, E.W., and Picard, M.Z., 1996, Criteria and methods for fracture-trace analysis of the New Hampshire bedrock aquifer: U.S. Geological Survey Open-File Report 96-479, 12 p.

Clark, S.F., Jr., Short, H.A., Ferguson, E.W., and Moore, R.B., 1998, Lineament map of area 7 of the New Hampshire bedrock aquifer assessment, west-central New Hampshire: U.S. Geological Survey Open-File Report 98-190, scale: 1:48,000.

Ferguson, E.W., Clark, S.F., Jr., Marcoux, G.J., Short, H.A., and Moore, R.B., 1999, Lineament map of area 11 of the New Hampshire bedrock aquifer assessment, northeastern New Hampshire: U.S. Geological Survey Open-File Report 99-65, scale 1:48,000.

Ferguson, E.W., Clark, S.F., Jr., and Moore, R.B., 1996, Lineament map of area 1 of the New Hampshire bedrock aquifer assessment, southeastern New Hampshire: U.S. Geological Survey Open-File Report 96-489, scale 1:48,000.

Ferguson, E.W., Clark, S.F., Jr., Picard, M.Z., and Moore, R.B., 1997a, Lineamentmap of area 3 of the New Hampshire bedrock aquifer assessment, eastern New Hampshire: U.S. Geological Survey Open-File Report 97-762, scale 1:48,000.

_____1997b, Lineament map of area 5 of the New Hampshire bedrock aquifer assessment, southwestern New Hampshire: U.S. Geological Survey Open-File Report 97-761, scale 1:48,000.

Ferguson, E.W., Clark, S.F., Jr., Short, H.A., Marcoux, G.J., and Moore, R.B., 1999, Lineament map of area 10 of the New Hampshire bedrock aquifer assessment, northwest-central New Hampshire: U.S. Geological Survey Open-File Report 99-64, !:48,000.

Ferguson, E.W., Marcoux, G.J., Degnan, J.R., Clark, S.F., Jr., and Moore, R.B., 1999, Lineament map of area 13 of the New Hampshire bedrock aquifer assessment, northern New Hampshire: U.S. Geological Survey Open-File Report 99-90, scale 1:48,000.

Ferguson, E.W., Marcoux, G.J., Degnan, J.R., Clark, S.F., Jr., Short, H.A., and Moore, R.B., 1999, Lineament map of area 12 of the New Hampshire bedrock aquifer assessment, northwestern New Hampshire: U.S. Geological Survey Open-File Report 99-89, scale 1:48,000.

Ferguson, E.W., Short, H.A., Clark, S.F., Jr., Marcoux, G.J., and Moore, R.B., 1998, Lineament map of area 8 of the New Hampshire bedrock aquifer assessment, northeast-central New Hampshire: U.S. Geological Survey Open-File Report 98-191, scale 1:48,000.

Index of 7.5X7.5 minute topographic quadrangles, 1:24,000 scale

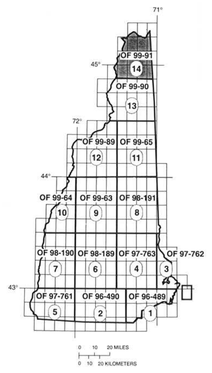
		Greeley Brook, N.H.-Quebec	Prospect Hill, N.H.-Quebec	Moose Bog, Maine-Quebec-N.H.
	Metallak Mountain, N.H.-Quebec	Cowen Hill, N.H.-Quebec	Second Connecticut Lake, N.H.-Quebec	Rump Mountain, Maine-N.H.
	Pittsburg, N.H.-Quebec-Vt.	Lake Francis	Magalloway Mtn.	Bosebuck Mountain, Maine-N.H.
Monadnock Mountain, Vt.-N.H.	Lovering Mountain, N.H.-Vt.	Diamond Pond	Mount Pisgah	Wilsons Mills, N.H.-Maine

Table 1. Identification numbers of low-altitude photographs from the National Aerial Photography Program (NAPP) indexed to the topographic quadrangles

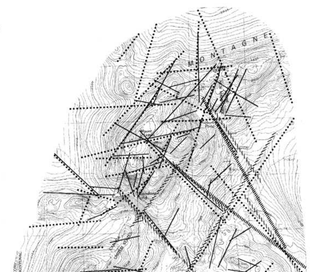
Monadnock Mountain quadrangle	Metallak Mountain, Pittsburg, and Lovering Mountain quadrangles		Greeley Brook, Cowen Hill, Lake Francis, and Diamond Pond quadrangles		Prospect Hill, Second Connecticut Lake, Magalloway Mountain, and Mount Pisgah quadrangles		Moose Bog, Rump Mountain, Bosebuck Mountain, and Wilsons Mills quadrangles	
			4561-035 4556-098	4556-192 4556-193 4556-194	4556-001 4556-002		4555-047 4555-048 4555-049	
		4556-190 4556-189 4556-188 4556-187 4556-186	4556-098 4556-097 4556-096 4556-095 4556-094	4556-194 4556-195 4556-196 4556-197 4556-198	4556-002 4556-003 4556-004 4556-005 4556-006	4555-087 4555-086 4555-085 4555-084 4555-083	4555-049 4555-050 4555-051 4555-052 4555-053	
	4556-101 4556-102 4556-103 4556-104 4556-105	4556-186 4556-185 4556-184 4556-183 4556-182	4556-094 4556-093 4556-092 4556-091 4556-090	4556-198 4556-199 4556-200 4556-201 4556-202	4556-006 4556-007 4556-008 4556-009 4556-010	4555-083 4555-082 4555-081 4555-080 4555-079	4555-053 4555-054 4555-055 4555-056 4555-057	
4560-072 4560-073 4560-074 4560-075 4560-076	4556-105 4556-106 4556-107 4556-108 4556-109	4556-182 4556-181 4556-180 4556-179 4556-178	4556-090 4556-089 4556-088 4556-087 4556-086	4556-202 4556-203 4556-204 4556-205 4556-206	4556-010 4556-011 4556-012 4556-013 4556-014	4555-079 4555-078 4555-077 4555-076 4555-075	4555-057 4555-058 4555-059 4555-060 4555-061	4555-033 4555-032 4555-031 4555-030 4555-029

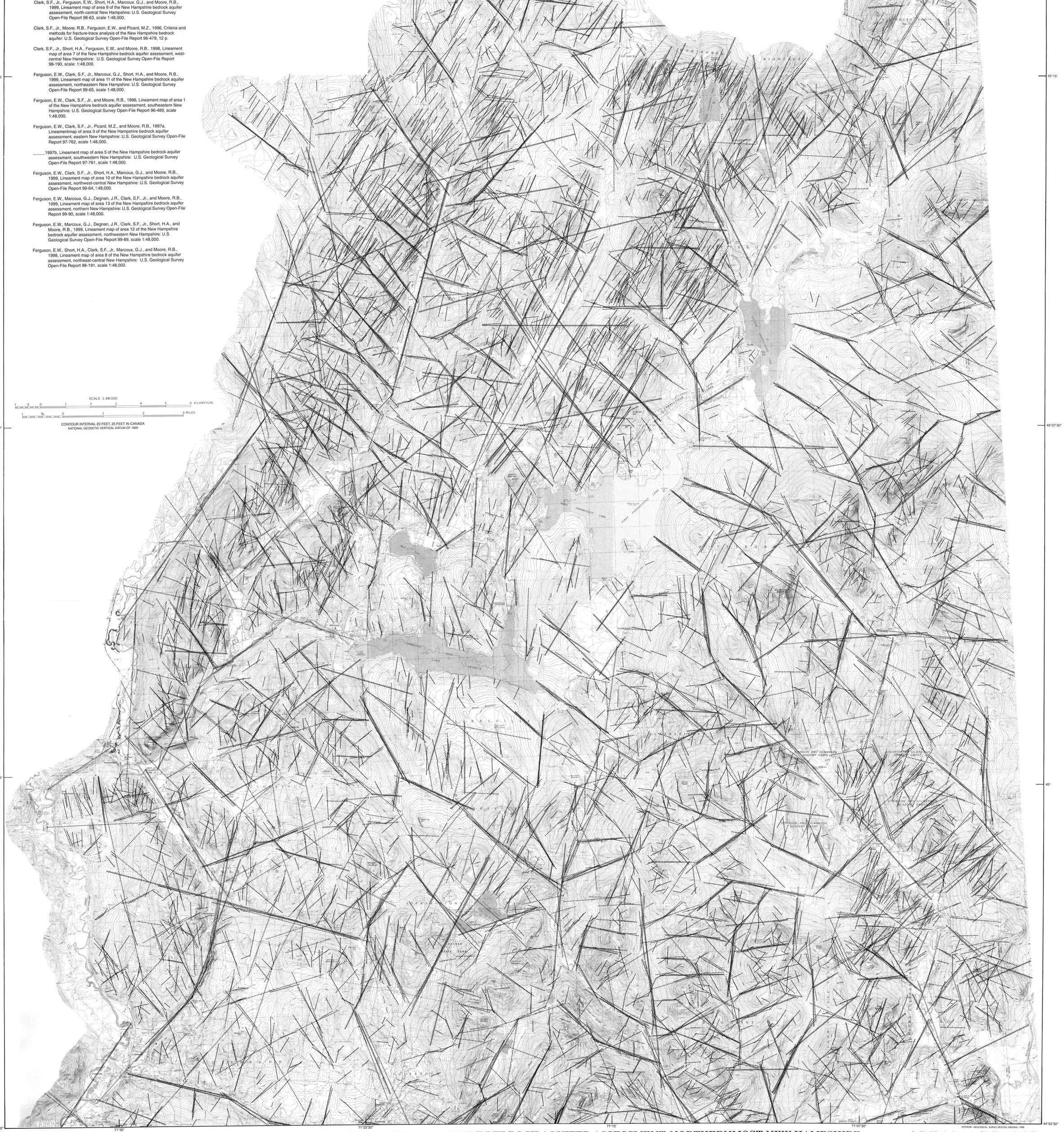
Table 2. Identification numbers of high-altitude aerial photographs from the U.S. Geological Survey indexed to the topographic quadrangles

Mondanock Mountain quadrangle	Metallak Mountain, Pittsburg, and Lovering Mountain quadrangles	Greeley Brook, Cowen Hill, Lake Francis, and Diamond Pond quadrangles	Prospect Hill, Second Connecticut Lake, Magalloway Mtn., and Mount Pisgah quadrangles	Moose Bog, Rump Mountain, Bosebuck Mountain, and Wilson Mills quadrangles
		HAP 84 264-160 HAP 84 264-161	GS-VDWA 3-215	GS-VDWA 3-181 GS-VDWA 3-183
	GS-VDWA 3-178 GS-VDWA 3-176 GS-VDWA 3-175	GS-VDWA 5-10 GS-VDWA 5-11 GS-VDWA 5-13	GS-VDWA 3-215 GS-VDWA 3-214 GS-VDWA 3-212	GS-VDWA 3-183 GS-VDWA 3-184 GS-VDWA 3-185
	GS-VDWA 3-175 GS-VDWA 3-174 GS-VDWA 3-173	GS-VDWA 5-13 GS-VDWA 5-15 GS-VDWA 5-16	GS-VDWA 3-212 GS-VDWA 3-211 GS-VDWA 3-210	GS-VDWA 3-185 GS-VDWA 3-186 GS-VDWA 3-188
GS-VDWA 3-172 HAP 84 266-142	GS-VDWA 3-173 GS-VDWA 3-172 GS-VDWA 3-171	GS-VDWA 5-16 GS-VDWA 5-17 GS-VDWA 5-18	GS-VDWA 3-210 GS-VDWA 3-207 GS-VDWA 3-206	GS-VDWA 3-188 GS-VDWA 5-5 GS-VDWA 7-2



Index of New Hampshire showing plate areas, 7.5 × 7.5 minute topographic quadrangles, map area (shaded), and published Open-File Reports





Base from digital raster graphic (DRG) images, U.S. Geological Survey
Sherbrooke, N.H.-Maine-Vt.-Quebec, 1986;
30x60 minute, 1:100,000 scale
Bosebuck Mountain, Maine-N.H., Cowen Hill, N.H.-Quebec, Diamond Pond, N.H., Greeley Brook, N.H.-Quebec, Lake Francis, N.H., Lovering Mountain, N.H.-Vt., Magalloway Mtn., N.H., Metallak Mountain, N.H.-Quebec, Monadnock Mountain, Vt.-N.H., Moose Bog, Maine-Quebec-N.H., Mount Pisgah, N.H., Pittsburg, N.H.-Quebec-Vt., Prospect Hill, N.H.-Quebec, Rump Mountain, Maine-N.H., Second Connecticut Lake, N.H.-Quebec, and Wilsons Mills, N.H.-Maine, provisional edition, 1989;
7.5x7.5 minute, 1:24,000 scale

LINEAMENT MAP OF AREA 14 OF THE NEW HAMPSHIRE BEDROCK AQUIFER ASSESSMENT, NORTHERNMOST NEW HAMPSHIRE

By
Eric W. Ferguson, Garrick J. Marcoux, James R. Degnan, Stewart F. Clark, Jr., and Richard Bridge Moore

1999

For additional information write to:

District Chief
U.S. Geological Survey
New Hampshire/Vermont District
361 Commerce Way
Pembroke, NH 03275

Website: http://nh.water.usgs.gov

Copies of this rep.rt can be purchased from:

U.S. Geological Survey
Information Services
Box 25286
Federal Center
Denver, CO 80225

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1999
~~~~