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 98-189
Clark, S.F., Jr., Ferguson, E.W., Picard, M.Z., and Moore, R.B., 1998
Lineament map area 6 of New Hampshire bedrock aquifer assessment, central New Hampshire

72°
71°52'30"
71°45'
71°37'30"
71°30'
43°30'
43°22'30"
43°15'
43°07'30"
43°

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), Portland, Maine and N.H.: U.S. Geological Survey, 1:250,000 scale. Location ±200 feet

wwwwww Lineament observed by the use of 1:1,000,000-scale Landsat imagery, band 7, image number 10057-004, obtained December 20, 1990. Location ±150 feet

Note: Additional lineaments that extend into this plate area will likely be identified as work progresses on adjacent map areas. These additions near the plate boundaries will be included on future interpretive maps and Geographic Information Systems (GIS) coverages

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.

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., 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, Lineament map 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., 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 7.5×7.5 minute topographic quadrangles, 1:24,000 scale

New London	Andover	Franklin	Northfield
Bradford	Warner	Webster	Penacook
Hillsboro Upper Village	Henniker	Hopkinton	Concord
Hillsboro	Deering	Weare	Goffstown

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

New London, Bradford, Hillsboro Upper Village, and Hillsboro quadrangles		Andover, Warner, Henniker, and Deering quadrangles		Franklin, Webster, Hopkinton, and Weare quadrangles		Northfield, Penacook, Concord, and Goffstown quadrangles	
4552-177	4552-120	4552-063	4552-050	4554-051	4554-030	4550-005	4551-206
4552-178	4552-119	4552-064	4552-049	4554-052	4554-029	4550-004	4551-207
4552-179	4552-118	4552-065	4552-048	4554-053	4554-028	4550-003	4551-208
4552-180	4552-117	4552-066	4552-047	4554-054	4554-027	4559-025	4551-209
4552-181	4552-116	4552-067	4552-046	4554-055	4554-026	4551-259	4551-210
4552-181	4552-116	4552-067	4552-046	4554-055	4554-026	4551-259	4551-210
4552-182	4552-115	4552-068	4552-045	4554-056	4554-025	4551-258	4551-211
4552-183	4552-114	4552-069	4552-044	4554-057	4554-023	4551-257	4551-212
4552-184	4552-113	4552-070	4552-043	4554-058	4554-022	4551-256	4551-213
4552-185	4552-112	4552-071	4552-042	4552-001	4554-021	4551-255	4551-214
4552-185	4552-112	4552-071	4552-042	4552-001	4554-021	4551-255	4551-214
4552-186	4552-111	4552-072	4552-041	4552-002	4554-020	4551-254	4551-215
4552-187	4552-110	4552-073	4552-040	4552-003	4554-019	4551-253	4551-216
4552-188	4552-109	4552-074	4552-039	4552-004	4554-018	4551-252	4558-019
4552-189	4552-108	4552-075	4552-038	4552-005	4554-017	4551-251	4551-218
4552-189	4552-108	4552-075	4552-038	4552-005	4554-017	4551-251	4551-218
4552-190	4552-107	4552-076	4552-037	4552-006	4554-016	4551-250	4551-219
4552-191	4552-106	4552-077	4552-036	4552-007	4554-015	4551-249	4551-220
4552-192	4552-105	4552-078	4552-035	4552-008	4554-014	4551-248	4551-221
4552-193	4552-104	4552-079	4552-034	4552-009	4554-013	4551-247	4551-222

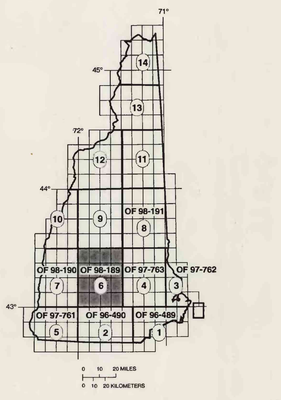
SCALE 1:48 000

1 0 1 2 3 MILES
1 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 20 FEET; CONCORD, GOFFSTOWN, AND HOPKINTON QUADRANGLES 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

New London, Bradford, Hillsboro Upper Village, and Hillsboro quadrangles	Andover, Warner, Henniker, and Deering quadrangles	Franklin, Webster, Hopkinton, and Weare quadrangles	Northfield, Penacook, Concord, and Goffstown quadrangles
GS-VFAQ 2-12	GS-VFAQ 2-2	GS-VFAQ 1-14	GS-VFAQ 1-5
GS-VFAQ 1-47	GS-VFAQ 1-40	GS-VFAQ 1-13	GS-VFAQ 1-6
GS-VFAQ 1-46	GS-VFAQ 1-42	GS-VFAQ 1-12	GS-VFAQ 1-7
GS-VFAQ 1-46	GS-VFAQ 1-42	GS-VFAQ 1-12	GS-VFAQ 1-7
GS-VFAQ 1-44	GS-VFAQ 1-27	GS-VFAQ 1-11	GS-VFAQ 1-8
GS-VFAQ 1-43	GS-VFAQ 1-28	GS-VFAQ 1-10	GS-VFAQ 1-9
GS-VDSC 5-63	GS-VDSC 5-45	GS-VFAQ 1-10	GS-VFAQ 1-9
GS-VDSC 5-64	GS-VDSC 5-44	GS-VECR 2-23	GS-VECR 2-20
GS-VDSC 5-65	GS-VDSC 5-43	GS-VECR 2-24	GS-VECR 2-19
GS-VDSC 5-65	GS-VDSC 5-43	GS-VECR 2-24	GS-VECR 2-19
GS-VDSC 5-66	GS-VDSC 5-42	GS-VECR 2-25	GS-VECR 2-18
GS-VDSC 5-67	GS-VDSC 5-41	GS-VECR 2-26	HAPS85 32-182



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
Andover and Bradford, provisional edition, 1987; Concord, 1967, photorevised 1985; Deering and Franklin, provisional edition, 1987; Goffstown, 1969, photorevised 1985; Henniker, Hillsboro, and Hillsboro Upper Village, provisional edition, 1987; Hopkinton, 1967, photoinspected 1974; New London, Northfield, Penacook, Warner, Weare, and Webster, provisional edition, 1987;
7.5×7.5 minute, 1:24,000 scale

LINEAMENT MAP OF AREA 6 OF THE NEW HAMPSHIRE BEDROCK AQUIFER ASSESSMENT, CENTRAL NEW HAMPSHIRE

By
Stewart F. Clark, Jr., Eric W. Ferguson, M. Zoe Picard, and Richard Bridge Moore

1998

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1998

For additional information write to:

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

Website: http://www.usgs.gov

Copies of this report can be purchased from:

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