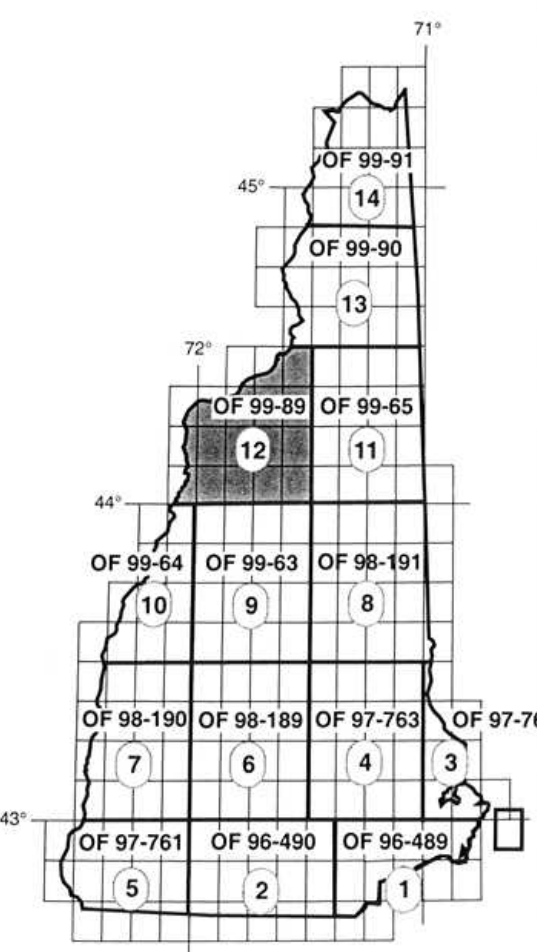


EXPLANATION

- Lineaments shown here represent straight photolineament 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 here 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 180 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 180 feet. See table 2 for photograph identification numbers.
- Lineament observed by the use of side-looking airborne radar mosaic (for range), Levittown, Maine, N.H., and Vt. and Lake Champlain, Vt., N.Y., and N.H.; U.S. Geological Survey, 1:250,000 scale. Location 1200 feet.
- Lineament observed by the use of 1:250,000-scale Landsat imagery, band 7, image numbers 10057-004 and 10054-100, obtained December 20, 1990. Location 1150 feet.



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

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- 1997b. Lineament map of area 5 of the New Hampshire bedrock aquifer assessment, southwestern New Hampshire. U.S. Geological Survey Open-File Report 97-781, scale 1:48,000.
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- 1998b. Lineament map of area 14 of the New Hampshire bedrock aquifer assessment, northwestern New Hampshire. U.S. Geological Survey Open-File Report 99-91, 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, and 7.5x15 minute topographic quadrangles, 1:25,000 scale

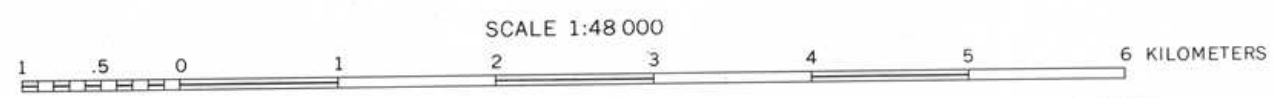
Quadrangle	Scale	Quadrangle	Scale
Barnet, Vt.-N.H. (7.5x15 minute)	Lower Waterford, N.H.-Vt.	Miss Pond, Vt.-N.H.	Lancaster, N.H.-Vt. (7.5x15 minute)
Woodville, Vt.-N.H.	Libon	Sugar Hill	Franconia
Newbury, N.H.-Vt.	East Haven Hill	Mount Moosilauke	Lincoln
			Mt. Osceola

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

Quadrangle	Photograph ID	Quadrangle	Photograph ID	Quadrangle	Photograph ID	Quadrangle	Photograph ID
Eastern half of Barnet and Woodville and Newbury quadrangles	4549-241	4550-149	4550-148	4557-060	4557-059	4557-000	4560-037
	4549-242	4550-150	4550-147	4557-061	4557-060	4557-001	4560-038
	4549-243	4550-151	4550-146	4557-062	4557-061	4557-002	4560-039
	4549-244	4550-152	4550-145	4557-063	4557-062	4557-003	4560-040
Lower Waterford, Libon, and East Haven Hill quadrangles	4549-245	4550-153	4550-144	4557-064	4557-063	4557-004	4560-041
	4549-246	4550-154	4550-143	4557-065	4557-064	4557-005	4560-042
	4549-247	4550-155	4550-142	4557-066	4557-065	4557-006	4560-043
	4549-248	4550-156	4550-141	4557-067	4557-066	4557-007	4560-044
Miss Pond, Sugar Hill, and Mount Moosilauke quadrangles	4549-249	4550-157	4550-140	4557-068	4557-067	4557-008	4560-045
	4549-250	4550-158	4550-139	4557-069	4557-068	4557-009	4560-046
	4549-251	4550-159	4550-138	4557-070	4557-069	4557-010	4560-047
	4549-252	4550-160	4550-137	4557-071	4557-070	4557-011	4560-048
Western half of Lancaster and Franconia and Lincoln quadrangles	4549-253	4550-161	4550-136	4557-072	4557-071	4557-012	4560-049
	4549-254	4550-162	4550-135	4557-073	4557-072	4557-013	4560-050
	4549-255	4550-163	4550-134	4557-074	4557-073	4557-014	4560-051
	4549-256	4550-164	4550-133	4557-075	4557-074	4557-015	4560-052
Eastern half of Lancaster and Bethlehem, South Twin Mountain and Mt. Osceola quadrangles	4549-257	4550-165	4550-132	4557-076	4557-075	4557-016	4560-053
	4549-258	4550-166	4550-131	4557-077	4557-076	4557-017	4560-054
	4549-259	4550-167	4550-130	4557-078	4557-077	4557-018	4560-055
	4549-260	4550-168	4550-129	4557-079	4557-078	4557-019	4560-056

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

Quadrangle	Photograph ID	Quadrangle	Photograph ID	Quadrangle	Photograph ID	Quadrangle	Photograph ID
Eastern half of Barnet and Woodville and Newbury quadrangles	GS-VDMA 2-65	GS-VENI 1-47	GS-VENI 1-18	GS-VENI 1-15	GS-VENI 1-51	GS-VENI 1-15	GS-VENI 1-51
	GS-VDMA 2-63	GS-VENI 1-45	GS-VENI 1-16	GS-VENI 1-14	GS-VENI 1-52	GS-VENI 1-14	GS-VENI 1-52
	GS-VDMA 2-61	GS-VENI 1-43	GS-VENI 1-17	GS-VENI 1-13	GS-VENI 1-53	GS-VENI 1-13	GS-VENI 1-53
	GS-VDMA 2-59	GS-VENI 1-41	GS-VENI 1-18	GS-VENI 1-13	GS-VENI 1-54	GS-VENI 1-13	GS-VENI 1-54
Lower Waterford, Libon, and East Haven Hill quadrangles	GS-VDMA 2-61	GS-VENI 1-43	GS-VENI 1-21	GS-VENI 1-11	GS-VENI 1-55	GS-VENI 1-11	GS-VENI 1-55
	GS-VDMA 2-60	GS-VENI 1-42	GS-VENI 1-20	GS-VENI 1-11	GS-VENI 1-56	GS-VENI 1-11	GS-VENI 1-56
	GS-VDMA 2-58	GS-VENI 1-41	GS-VENI 1-21	GS-VENI 1-11	GS-VENI 1-57	GS-VENI 1-11	GS-VENI 1-57
	GS-VDMA 2-57	GS-VENI 1-38	GS-VENI 1-22	GS-VENI 1-10	GS-VENI 1-58	GS-VENI 1-10	GS-VENI 1-58
Miss Pond, Sugar Hill, and Mount Moosilauke quadrangles	GS-VDMA 2-60	GS-VENI 1-42	GS-VENI 1-21	GS-VENI 1-11	GS-VENI 1-59	GS-VENI 1-11	GS-VENI 1-59
	GS-VDMA 2-58	GS-VENI 1-41	GS-VENI 1-22	GS-VENI 1-10	GS-VENI 1-60	GS-VENI 1-10	GS-VENI 1-60
	GS-VDMA 2-56	GS-VENI 1-39	GS-VENI 1-23	GS-VENI 1-9	GS-VENI 1-61	GS-VENI 1-9	GS-VENI 1-61
	GS-VDMA 2-55	GS-VENI 1-38	GS-VENI 1-24	GS-VENI 1-8	GS-VENI 1-62	GS-VENI 1-8	GS-VENI 1-62
Western half of Lancaster and Franconia and Lincoln quadrangles	GS-VDMA 2-60	GS-VENI 1-42	GS-VENI 1-21	GS-VENI 1-11	GS-VENI 1-63	GS-VENI 1-11	GS-VENI 1-63
	GS-VDMA 2-58	GS-VENI 1-41	GS-VENI 1-22	GS-VENI 1-10	GS-VENI 1-64	GS-VENI 1-10	GS-VENI 1-64
	GS-VDMA 2-56	GS-VENI 1-39	GS-VENI 1-23	GS-VENI 1-9	GS-VENI 1-65	GS-VENI 1-9	GS-VENI 1-65
	GS-VDMA 2-55	GS-VENI 1-38	GS-VENI 1-24	GS-VENI 1-8	GS-VENI 1-66	GS-VENI 1-8	GS-VENI 1-66
Eastern half of Lancaster and Bethlehem, South Twin Mountain and Mt. Osceola quadrangles	GS-VDMA 2-60	GS-VENI 1-42	GS-VENI 1-21	GS-VENI 1-11	GS-VENI 1-67	GS-VENI 1-11	GS-VENI 1-67
	GS-VDMA 2-58	GS-VENI 1-41	GS-VENI 1-22	GS-VENI 1-10	GS-VENI 1-68	GS-VENI 1-10	GS-VENI 1-68
	GS-VDMA 2-56	GS-VENI 1-39	GS-VENI 1-23	GS-VENI 1-9	GS-VENI 1-69	GS-VENI 1-9	GS-VENI 1-69
	GS-VDMA 2-55	GS-VENI 1-38	GS-VENI 1-24	GS-VENI 1-8	GS-VENI 1-70	GS-VENI 1-8	GS-VENI 1-70



SCALE 1:48,000
CONTOUR INTERVAL 30 FEET
FRANCONIA, LINCOLN, MOUNT MOOSILAUKE, MT. OSCEOLA, AND SOUTH TWIN MOUNTAIN QUADRANGLES 40 FEET;
BARNET, EITHVENHILL, AND LANCASTER QUADRANGLES 8 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1989

LINEAMENT MAP OF AREA 12 OF THE NEW HAMPSHIRE BEDROCK AQUIFER ASSESSMENT, NORTHWESTERN NEW HAMPSHIRE

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

1999

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Base from digital raster graphic (DRG) images, U.S. Geological Survey
Barnet, Vt.-N.H., 1988; Bethel, N.H., and Lancaster, N.H.-Vt., 1982;
7.5x15 minute, 1:25,000 scale
East Haven Hill and Franconia, 1967, photorevised 1988; Lincoln and Libon,
1967, photorevised 1988; Littleton, N.H.-Vt., 1971, photorevised 1988; Lower
Waterford, N.H.-Vt., Miss Pond, Vt.-N.H., Mount Moosilauke, and Mt.
Osceola, 1967; Newbury, N.H.-Vt., 1970; South Twin Mountain, 1967; Sugar
Hill, 1967, photorevised 1988; Woodville, Vt.-N.H., 1973, photorevised 1988;
7.5x7.5 minute, 1:24,000 scale