



Base from digital raster graphic (DRG) images, U.S. Geological Survey  
Bartlettboro, VT-N.H., Keene, N.H.-Vt., Marlborough, N.H., Monadnock  
Mountain, N.H., and Newfane, VT-N.H., provisional edition, 1984;  
Northfield, Mass.-N.H.-Vt., 1980; Winchester, Mass.-N.H., 1986;  
Winchester, N.H.-Vt., provisional edition, 1984;  
7.5x15 minute, 1:25,000 scale

## LINEAMENT MAP OF AREA 5 OF THE NEW HAMPSHIRE BEDROCK AQUIFER ASSESSMENT, SOUTHWESTERN NEW HAMPSHIRE

By  
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### 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  $\pm 80$  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  $\pm 80$  feet. See table 2 for photograph identification numbers
- Lineament observed by the use of side-looking airborne radar mosaic (far range), Albany, N.Y., Conn., Mass., N.H., and Vt.: U.S. Geological Survey, 1:250,000 scale. Location  $\pm 200$  feet
- Lineament observed by the use of 1:1,000,000-scale Landsat imagery, band 7, image number 10057-004, obtained December 20, 1990. Location  $\pm 150$  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.
- 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 96-469, scale 1:48,000.
- Ferguson, E.W., Clark, S.F., Jr., Picard, M.Z., and Moore, R.B., 1997, 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.

Index of 7.5x15 minute topographic quadrangles, 1:25,000 scale				
Newfane, Vt.-N.H.	Keene, N.H.-Vt.	Marlborough, N.H.		
Bartlettboro, Vt.-N.H.	Winchester, N.H.-Vt.	Monadnock Mountain, N.H.		
	Northfield, Mass.-N.H.-Vt.	Winchendon, Mass.-N.H.		

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

Eastern half Newfane and Bartlettboro quadrangles	Western half Keene, Winchester, and Northfield quadrangles	Eastern half Keene, Winchester, and Northfield quadrangles	Western half Marlborough, Monadnock Mountain, and Winchendon quadrangles	Eastern half Marlborough, Monadnock Mountain, and Winchendon quadrangles	
4549-016	4549-041	4549-084	4553-140	4553-031	4553-096
4549-017	4549-040	4549-085	4553-103	4553-022	4553-091
4549-018	4549-039	4549-086	4553-033	4553-021	4553-062
4549-019	4549-038	4549-087	4553-101	4553-020	4553-113
4549-020	4549-037	4549-088	4553-035	4553-019	4553-111
4549-021	4549-036	4549-089	4553-100	4553-018	4553-094
4549-022	4549-035	4549-090	4553-098	4553-017	4553-089
4549-023	4549-034	4549-091	4553-099	4553-016	4553-088
4549-024	4549-033	4549-092	4553-102	4553-015	4553-087
4549-025	4549-032	4549-093	4553-036	4553-014	4553-086
4549-026	4549-031	4549-094	4553-104	4553-013	4553-085
4549-027	4549-030	4549-095	4553-037	4553-012	4553-084
4549-028	4549-029	4549-096	4553-105	4553-011	4553-083
4549-029	4549-028	4549-097	4553-038	4553-010	4553-082
4549-030	4549-027	4549-098	4553-106	4553-009	4553-081
4549-031	4549-026	4549-099	4553-039	4553-008	4553-080
4549-032	4549-025	4549-100	4553-107	4553-007	4553-079
4549-033	4549-024	4549-101	4553-040	4553-006	4553-078
4549-034	4549-023	4549-102	4553-108	4553-005	4553-077
4549-035	4549-022	4549-103	4553-041	4553-004	4553-076
4549-036	4549-021	4549-104	4553-109	4553-003	4553-075
4549-037	4549-020	4549-105	4553-042	4553-002	4553-074
4549-038	4549-019	4549-106	4553-110	4553-001	4553-073
4549-039	4549-018	4549-107	4553-043	4553-000	4553-072
4549-040	4549-017	4549-108	4553-111	4553-000	4553-071
4549-041	4549-016	4549-109	4553-044	4553-000	4553-070
4549-042	4549-015	4549-110	4553-112	4553-000	4553-069
4549-043	4549-014	4549-111	4553-045	4553-000	4553-068
4549-044	4549-013	4549-112	4553-113	4553-000	4553-067
4549-045	4549-012	4549-113	4553-046	4553-000	4553-066
4549-046	4549-011	4549-114	4553-114	4553-000	4553-065
4549-047	4549-010	4549-115	4553-047	4553-000	4553-064
4549-048	4549-009	4549-116	4553-115	4553-000	4553-063
4549-049	4549-008	4549-117	4553-048	4553-000	4553-062
4549-050	4549-007	4549-118	4553-116	4553-000	4553-061
4549-051	4549-006	4549-119	4553-049	4553-000	4553-060
4549-052	4549-005	4549-120	4553-117	4553-000	4553-059
4549-053	4549-004	4549-121	4553-050	4553-000	4553-058
4549-054	4549-003	4549-122	4553-118	4553-000	4553-057
4549-055	4549-002	4549-123	4553-051	4553-000	4553-056
4549-056	4549-001	4549-124	4553-119	4553-000	4553-055
4549-057	4549-000	4549-125	4553-052	4553-000	4553-054
4549-058	4549-000	4549-126	4553-120	4553-000	4553-053
4549-059	4549-000	4549-127	4553-053	4553-000	4553-052
4549-060	4549-000	4549-128	4553-121	4553-000	4553-051
4549-061	4549-000	4549-129	4553-054	4553-000	4553-050
4549-062	4549-000	4549-130	4553-122	4553-000	4553-049
4549-063	4549-000	4549-131	4553-055	4553-000	4553-048
4549-064	4549-000	4549-132	4553-123	4553-000	4553-047
4549-065	4549-000	4549-133	4553-056	4553-000	4553-046
4549-066	4549-000	4549-134	4553-124	4553-000	4553-045
4549-067	4549-000	4549-135	4553-057	4553-000	4553-044
4549-068	4549-000	4549-136	4553-125	4553-000	4553-043
4549-069	4549-000	4549-137	4553-058	4553-000	4553-042
4549-070	4549-000	4549-138	4553-126	4553-000	4553-041
4549-071	4549-000	4549-139	4553-059	4553-000	4553-040
4549-072	4549-000	4549-140	4553-127	4553-000	4553-039
4549-073	4549-000	4549-141	4553-060	4553-000	4553-038
4549-074	4549-000	4549-142	4553-128	4553-000	4553-037
4549-075	4549-000	4549-143	4553-061	4553-000	4553-036
4549-076	4549-000	4549-144	4553-129	4553-000	4553-035
4549-077	4549-000	4549-145	4553-062	4553-000	4553-034
4549-078	4549-000	4549-146	4553-130	4553-000	4553-033
4549-079	4549-000	4549-147	4553-063	4553-000	4553-032
4549-080	4549-000	4549-148	4553-131	4553-000	4553-031
4549-081	4549-000	4549-149	4553-064	4553-000	4553-030
4549-082	4549-000	4549-150	4553-132	4553-000	4553-029
4549-083	4549-000	4549-151	4553-065	4553-000	4553-028
4549-084	4549-000	4549-152	4553-133	4553-000	4553-027
4549-085	4549-000	4549-153	4553-066	4553-000	4553-026
4549-086	4549-000	4549-154	4553-134	4553-000	4553-025
4549-087	4549-000	4549-155	4553-067	4553-000	4553-024
4549-088	4549-000	4549-156	4553-135	4553-000	4553-023
4549-089	4549-000	4549-157	4553-068	4553-000	4553-022
4549-090	4549-000	4549-158	4553-136	4553-000	4553-021
4549-091	4549-000	4549-159	4553-069	4553-000	4553-020
4549-092	4549-000	4549-160	4553-137	4553-000	4553-019
4549-093	4549-000	4549-161	4553-070	4553-000	4553-018
4549-094	4549-000	4549-162	4553-138	4553-000	4553-017
4549-095	4549-000	4549-163	4553-071	4553-000	4553-016
4549-096	4549-000	4549-164	4553-139	4553-000	4553-015
4549-097	4549-000	4549-165	4553-072	4553-000	4553-014
4549-098	4549-000	4549-166	4553-140	4553-000	4553-013
4549-099	4549-000	4549-167	4553-073	4553-000	4553-012
4549-100	4549-000	4549-168	4553-141	4553-000	4553-011
4549-101	4549-000	4549-169	4553-074	4553-000	4553-010
4549-102	4549-000	4549-170	4553-142	4553-000	4553-009
4549-103	4549-000	4549-171	4553-075	4553-000	4553-008
4549-104	4549-000	4549-172	4553-143	4553-000	4553-007
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4549-117	4549-000	4549-185	4553-082	4553-000	4553-000
4549-118	4549-000	4549-186	4553-150	4553-000	4553-000
4549-119	4549-000	4549-187	4553-083	4553-000	4553-000
4549-120	4549-000	4549-188	4553-151	4553-000	4553-000
4549-121	4549-000	4549-189	4553-084	4553-000	4553-000
4549-122	4549-000	4549-190	4553-152	4553-000	4553-000
4549-123	4549-000	4549-191	4553-085	4553-000	4553-000
4549-124	4549-000	4549-192	4553-153	4553-000	4553-000
4549-125	4549-000	4549-193	4553-086	4553-000	4553-000
4549-126	4549-000	4549-194	4553-154	4553-000	4553-000
4549-127	4549-000	4549-195	4553-087	4553-000	4553-000
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4549-132	4549-000	4549-200	4553-157	4553-000	4553-000
4549-133	4549-000	4549-201	4553-090	4553-000	4553-000
4549-134	4549-000	4549-202	4553-158	4553-000	4553-000
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4549-142	4549-000	4549-210	4553-162	4553-000	4553-000
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4549-148	4549-000	4549-216	4553-165	4553-000	4553-000
4549-149	4549-000	4549-217	4553-098	4553-000	4553-000
4549-150	4549-000	4549-218	4553-166	4553-000	4553-000
4549-151	4549-000	4549-219	4553-099	4553-000	4553-000
4549-152	4549-000	4549-220	4553-167	4553-000	4553-000
4549-153	4549-000	4549-221	4553-100	4553-000	4553-000
4549-154	4549-000	4549-222	4553-168	4553-000	4553-000
4549-155	4549-000	4549-223	4553-101	4553-000	4553-000
4549-156	4549-000	4549-224	4553-169	4553-000	4553-000
4549-157	4549-000	4549-225	4553-102	4553-000	4553-000
4549-158	4549-000	4549-226	4553-170	4553-000	4553-000
4549-159	4549-000	4549-227	4553-103	4553-000	4553-000
4549-160	4549-000	4549-228	4553-171	4553-000	4553-000
4549-161	4549-000	4549-229	4553-104	4553-000	4553-000
4549-162	4549-000	4549-230	4553-172	4553-000	4553-000
4549-163	4549-000	4549-231	4553-105	4553-000	4553-000
4549-164	4549-000	4549-232	4553-173	4553-000	4553-000
4549-165	4549				