Voluntary observers of the Signal Service, on land, from whom meteorological reports were received in time to be used in the preparation of the Monthly Weather Review for October, 1886.

Observer and place of observation.

Anderson, Dr. W. W., Stateburg, S. C.
Altaffer, J. M., Independence, Kans.
Adams, Dr. O. H., Vineland, N. J.
Abbott, Dr. E. K., Salinas, Cal.
Arents, Hiram, Oroville, Cal.
Adams, A. H., Fort Meade, Fla.
Avey, O. H., Oskaloosa, Iowa.
Beans, Thos. J. Moorestown, N. J.
Bushnell, W. S., Monticello, Ind.
Bentley, David, Princeton, Cal.
Boerner, Prof. Chas. G., Vevay, Ind.
Boynton, John F., Syracuse, N. Y.
Bayerly, J. F., Spartanburg, S. C.
Ballou, Dr. N. E., Sandwich, Ill.
Bennett, Geo., Bandon, Oreg.
Bell, Joseph, Franklin, Pa.
Beloit College Observatory, Beloit, Wis.
Baker, Dr. Henry B., Lansing, Mich.
Beall, Dr. R. L., Lenoir, N. C.
Brendel, Dr. Fred., Peoria, Ill.
Bartlett, E. B., Vermillion, N. Y.
Briggs, John, Albany, Oreg.
Betts, Prof. Arthur, Webster, Dak.
Breed, J. E., Embarras, Wis.
Baldwin, A. L., Bethel, Conn.
Boies, Lieut. A. H., Hudson, Mich.
Broberg, Mrs. Mary W., Manatee, Fla.
Black, W. H., Kalamazoo, Mich.
Blachly, C. P., Manhattan, Kans.
Bridges, Q. A., Berlin Mills, N. H.
Beecher, Chas., Wysox, Pa.
Bowman, Peter, Ruggles, Ohio.
Calhoun, P. B., Austin, Tenn.
Cook, S. A., Milledgeville, Ga.
Carrington, G. D., Brownville, Nebr.
Clark, T. A., Wausau, Wis.
Charbonnier, Prof. L. H., Athens, Ga.
Casey, Geo., Auburn, N. Y.
Crawford, E. A., Liberty Hill, La.
Curtiss, G. G., Fallston, Md.
Cornell University, Ithaca, N. Y.
Cutting, Dr. Hiram A., Lunenburg, Vt.
Cutter, J. L., Quitman, Ga.
Crosier, Adam, Laconia, Ind.
Caulkins, John S., Thornville, Mich.
Cass, John J., Allison, Kans.
Cleveland, Dr. G. H., Pentwater, Mich.
Collie, G. L., Delevan, Wis.
Cotton, Dr. D. B., Portsmouth, Ohio.
Cheney, Wm., Minneapolis, Minn.
Carpenter, W. B., Leavenworth, Kans.
Carter, Rev. Dr. W. H., Tallahassee, Fla.
Cummings, L. D., Palmyra, N. Y.
Chubb, Thos. H., Post Mills, Vt.
Cole, Seward, Cahuenga, Cal.
Clark, T. A., Weldon, N. C.
Colton, Prof. G. H., Hiram, Ohio.
Chandler, Dr. W. J., South Orange, N. J.
Cass, W. Earle, Roseland, N. J.
Chapin, Adams, Poway, Cal.
Childs, W. H., Brattleborough, Vt.
Crump, M. H., Bowling Green, Ky.
Cowgill, Prof. E. B., Manhattan, Kans.
College of the Sacred Heart, Prairie du Chien, Wisconsin.
Comstock, Prof. F. M., LeRoy, N. Y.
Collin, Prof. Alonzo, Mt. Vernon, Iowa.
Dow, Roswell, Sycamore, Ill.
Davis, Prof. I. M., York, Pa.
Dinsmore, Prof. T. H., Emporia, Kans.
Davis, W. O., Bloomington, Ill.
Dechant, W. H., Mahanoy Plane, Pa.
Dunlap, W. L., Tecumseh, Nebr.
Dudley, C. B., Altoona, Pa.
Dazey, J. B., Charleston, Ill.

Observer and place of observation.

Deming, H. D., Wellsborough, Pa.
Dozier, Wm., Mattoon, Ill.
Dewhurst, Rev. E., Voluntown, Conn.
Day, Theodore, Dyberry, Pa.
Dawson, Wm., Spiceland, Ind.
Ellsworth, W. W., Hartford, Conn.
Eliason, W. A., Statesville, N. C.
Ellis, John, Marquette, Nebr.
Ewell, Dr. M. D., South Evanston, Ill.
Ford, H. C., El Dorado, Kans.
Fouch, Dr. A., Anderson, Cal.
Fitch, Dr. H. L., Urbana, Iowa.
Ferris, B. F., Summan, Ind.
Friend, Chas. W., Carson City, Nev.
Fleming, J., Readington, N. J.
Fernald, Prof. M. C., Orono, Me.
Foss, E. T., Hydesville, Cal.
Fuller, Edw. N., Tacoma, Wash. T.
Featherton, Wm., Globe, Kans.
Field, T. G., Parkersburgh, W. Va.
Gibson, J. H., Salina, Kans.
Gore, Prof. J. W., Chapel Hill, N. C.
Gray, F. R., Yates Centre, Kans.
Gates, W. B., Burlington, Vt.
Graves, A. B., Belleville, Kans.
Gillingham, Milnor, Fallsington, Pa.
Gowey, H. D., North Lewisburg, Ohio.
Green, Dr. Jesse C., West Chester, Pa.
Gerrish, S. H., Sacramento, Cal.
Gray, J. W., Stockham, Nebr.
Goodwin, Wm., North Colebrook, Conn.
Goodspeed, Chas. W., Elyria, Ohio.
Gillingham, W., Accotink, Va.
Garlick, Rev. Dr. J. R., Bruington, Va.
Gray, Capt. A. W., Kenewick, Wash. T.
Grathwohl, John, Blooming Grove, Pa.
Heath, E. R., Wyandotte, Kans.
Harvard College Observatory, Cambridge, Mass.
Hammitt, John W., College Hill, Ohio.
Harris, T. C., Raleigh, N. C.
Heaton, Isaac E., Fremont, Nebr.
Hoskinson, R. M., Bainbridge Island, Wash T.
Heacock, J. L., Quakertown, Pa.
Hyde, G. A., Cleveland, Ohio.
Haywood, John, Westerville, Ohio.
Hartzler, J. A., Mottville, Mich.
Hole, Joseph, Butlerville, Ind.
Hager, Mrs. L. G., Terre Haute, Ind.
Held, Rev. F. B., Mount Angel, Oreg.
Heatwole, L. J., Dale Enterprise, Va.
Hamilton, W. H., Corsicana, Tex.
Hatch, A. H., Windsor, Ill.
Harris, W. C., Dover, N. J.
Hall, J. B. Worcester, Mass.
Hunter, Dr. T. C., Napoleon, Ohio.
Hall, Chas. C., Dudley, Mass.
Humphrey, Dr. I., Fairbury, Neb.
Hurlin, Rev. Wm., Antrim, N. H.
Helm, Thos. B., Logansport, Ind.
Hazen, Rev. A., Deerfield, Mass.
Howe, Prof. J. L., Richmond, Ky.
Ireland, W. H., Rappahannock, Va.
James, John W., Marengo, Ill.
Jones, Dr. E. U., Taunton, Mass.
Jackson Company, Nashua, N. H.
Jordan, Dr. M. D. L., Milan, Tenn.
Kirkwood, E., Manzy, Ind.
Kaucher, Mrs. Wm., Oregon, Mo.
Knapp, J. G., Limona, Fla.
Keese, G. Pomeroy, Cooperstown, N. Y.
Kuhne, F. W., Fort Wayne, Ind.
Ladshaw, G. E., Pacolet, S. C.
Lueps, Miss Anna, Manitowoc, Wis.

Observer and place of observation.

Lincoln, A. T., Marion, Va.
Loomis, J. C., Jeffersonville, Ind.
Luther, S. M., Garrettsville, Ohio.
Lamb, Miss Bertha E., Sterling, Kans.
Loud, Prof. F. H., Colorado Springs, Colo.
Lerch & Rice, Bethlehem, Pa.
Loundes, R. T., Clarksburg, W. Va.
Morgan, L. Ray, Philipsburg, Pa.
Marshall, Gregory, Cresco, Iowa.
McDonogh Institute, McDonogh, Md.
McCready, Miss L. A., Fort Madison.
McClintock, Frank, West Union, Iowa.
McKenzie, Dr. M., Centreville, Mo.
Moore, C. R., Bird's Nest, Va.
Micklen, J. H., Variety Mills, Va.
Macrae, Colin, Kirkwood, S. C.
Meehan, Thos., Germantown, Pa.
Mohnninger, E. R., Flat Rock, N. C.
Moore, Nathan, Grampian Hills, Pa.
Mikesell, Thos., Wauseon, Ohio.
Mitchell, Dr. D. W., Harrisville, Mich.
McCarthy, Gerald, Kendall Green, D. C.
Moore, Dr. J. W., Easton, Pa.
Motte, L. S., West Milton, Ohio.
Newbegin, John D., Anna, Ill.
Newcomb, G. S., Westborough, Mass.
Newell, W. C. T., Henry, Dak.
Norcom, Prof. T. J., Reidsville, N. C.
Neal, Dr. J. C., Archer Fla.
Nordberg, Prof. A., Richardton, Dak.
Olds, H. D., Cedar Rapids, Iowa.
Owsley, Dr. J. B., Jacksonborough, O.
Osborn, Dr. T. C., Cleburne, Tex.
Penrod, Dr. H. J., Upper Mont Clair, N. J.
Peele, Capt. A., New Westminster, B.C.
Pearce, Thomas, Eola, Oreg.
Pollock, Edward, Lancaster, Wis.
Partrick, J. M., North Volney, N. Y.
Purdue University, Lafayette, Ind.
Peckham, Prof. W. C., Brooklyn, N. Y.
Petterson, Dr. F., Comfort, Tex.
Pendleton, A., Nicolaus, Cal.
Postma, H. Y., Egg Harbor City, N. J.
Robins, Chas. E., Alvah, Fla.
Romig, J. K., La Grande, Oreg.
Randall, E. H., Poultney, Vt.
Renfrew, H. N., Bancroft, Iowa.
Remington, C. V. S., Fall River, Mass.
Rerrick, R. H., La Grange, Ind.
Robertson, T. D., Rockford, Ill.
Rogers, F. M., Luling, La.
Roberts, Luke, Clinton, Iowa.
Rodman, T. R., New Bedford, Mass.
Runge, C., New Ulm, Tex.
Richardson, C. F., Beverly, N. J.
Rotch, A. L., Blue Hill Observatory, Blue Hill, Mass.
Rathburn, J. C., Midland, Tex.
Rice, Chas. W., Yellow Springs, Ohio.
Roeder, W. F., Zionsville, Penn.
Snell, S. C., Amherst, Mass.
Stone, W. E., Amherst, Mass.
Stern, Jacob T., Logan, Iowa.
Star, Prof. Fred'k, Cedar Rapids, Iowa.
Smith, H. D., Monticello, Iowa.
Simmons, Prof. W. G., Wake Forest, N. C.
Sanders, T. B. Susanville, Cal.
Slenker, Mrs. E. D., Snowville, Va.
Strong, W. C., Kent's Hill, Me.
Shriver, E. T., Cumberland, Md.
Shaw, E., Ninnescah, Kans.
Seltz, Chas., De Soto, Nebr.

Observer and place of observation.

Scott, Thos. G., Forsyth, Ga.
Smith, Prof. T. B., Fayette, Mo.
Stucky, Dr. C. N., Marietta, W. Va.
Stone, Dr. W. C., Lakewood, N. J.
Slade, Elisha, Somerset, Mass.
Shriver, Howard, Wytheville, Va.
Sonedecker, Rev. T. H., Tiffin, Ohio.
Smith, John R., North Truro, Mass.
Sim, J. R., Summit, Va.
Scribner, H. F. J., Strafford, Vt.
Strong, S. B., Stanket, N. Y.
Samostz, Oscar, Austin, Tex.
Sherman, W. B., Manchester, Iowa.
Standenmayer, Dr. L. R., Lincolnton, N. C
Spilman, J. J., Pierce City, Mo.
Swezey, Prof. G. D., Crete, Nebr.
Tilford, C. M., Mount Blanco, Tex.
Todd, Prof. David P., Amherst, Mass.
Thornton, Prof. N., Geneseo, Ill.
Teele, Rev. A. K., Blue Hill, Mass.
Truman, Geo. S., Genoa, Nebr.
Turnbo, Silas C., Pro Tem, Mo.
Terborg, Rev. J. E., Pekin, Ill.
Thompson, R. J., Tiffin, Ohio.
Voegeli, Adolphus, Des Moines, Iowa.
Went, E. C., Frankfort, Ky.
Washburn Observatory, Madison, Wis.
Wild, Rev. E. P., Newport, Vt.
Williams, Rev. C. F., Ashwood, Tenn.
Wing, Miss M. E., Charlotte, Vt.
West, Silas, Cornish, Me.
Wylie, Wm., Mount Forest, Canada.
Wait, S. E., Traverse City, Mich.
Woodstock College, Woodstock, Md.
White, J. G., Lincoln, Nebr.
Wells, Rev. Chas. L., Gardiner, Me.
Williams College Observatory, Williamstown, Mass.
Wolfe, John H. Wellington, Kans.
Wälfke, E. F., Independence, Iowa.
West, Dr. Jos., O., Princeton, Mass.
Washington Aqueduct. { Receiving Reservoir, D.C / Distributing " " / Great Falls Reservoir, Md / Rock Creek Bridge, D. C.
Winipiseogee Lake Cotton and Woolen Manufacturing Co. { Weir's Bridge, N. H. / Woodstock, N. H. / Wolfborough, N. H. / Lake Village, N. H. / Bristol, N. H. / Belmont, N. H. / Ashland, N. H.
Willis, O. R., A. M., Ph. D., White Plains, N. Y.
Watters, Dr. Jas., Westmoreland, Kans.
Wigg, Dr. Geo., East Portland, Oreg.
Wright, J. W. A., Greensborough, Ala.
Whitmore, J. E., Gallinas Spring, N. Mex.
Wright, J. W. A., Livingston, Ala.
Wadsworth, Dr. J. L. R., Collinsville, Ill.
Widman, Rev. C. M., Grand Coteau, La.
Williams, Dr. A. C., Elk Falls, Kans.
Wedge, J. C., Fond du Lac, Wis.
White, Rev. J. H., Merritt's Island, Fla.
Whitney, Chas. E., Humphrey, N. Y.
Wilson, W. T., Clayton, N. J.
Wood, Jos., Bar Harbor, Me.
Walton, J. P., Muscatine, Iowa.
Wearmouth, J., University of Virginia, Va.
Waterman, Wm., Hay Springs, Nebr.
Yetter, Wm. G., Catawissa, Pa.
Yates, T. P., Factoryville, N. Y.
Young, Geo. R., Penn Yan, N. Y.

Military posts from which meteorological reports were received, through the Surgeon General of the Army, in time to be used in the preparation of the Monthly Weather Review for October, 1886.

Alcatraz Island, Cal.
Angel Island, Cal.
Assinaboine, Fort, Mont.
A. Lincoln, Fort, Dak.
Bayard, Fort, New Mex.
Benicia Barracks, Cal.
Bidwell, Fort, Cal.
Brady, Fort, Mich.
Cœur d'Alene, Ft., Idaho.
Concho, Fort, Texas.
David's Island, N. Y. H.
Gaston, Fort, Cal.
Gibson, Fort, Ind. T.
Halleck, Fort, Nev.
Hays, Fort, Kans.
Huachuca, Fort, Ariz.
Klamath, Fort, Oreg.
Keogh, Fort, Mont.
Lowell, Fort, Ariz.
Laramie, Fort, Wyo.
Lewis, Fort, Colo.
Meade, Fort, Dak.
McIntosh, Fort, Tex.
Missoula, Fort, Mont.
Mason, Fort, Cal.
McDermitt, Fort, Nev.
McDowell, Fort, Ariz.
Monroe, Fort, Va.
Madison Barracks, N. Y.
McHenry, Fort, Md.
Mount Vernon B'ks, Ala.
Niagara, Fort, N. Y.
Niobrara, Fort, Nebr. [Cal.
Presidio of San Francisco,
Plattsburg Barracks, N. Y.
Pembina, Fort, Dak.
Randall, Fort, Dak.
Robinson, Fort, Nebr.
Reno, Fort, Ind. T.
Ringgold, Fort, Tex.
Riley, Fort, Kans.
Snelling, Fort, Minn.
Saint Augustine, Fort, Fla.
Sisseton, Fort, Dak.
Shaw, Fort, Mont.
Selden, Fort, Nebr.
Sully, Fort, Dak.
Sidney, Fort, Nebr.
Spokane, Fort, Wash. T.
Totten, Fort, Dak.
Townsend, Ft., Wash. T.
Union, Fort, N. Mex.
Washakie, Fort, Wyo.
Walla Walla, Ft., Wash. T.
Wingate, Fort, N. Mex.

State weather services from which meteorological reports were received in time to be used in the preparation of the Monthly Weather Review for October, 1886.

Alabama State Weather Service, under direction of P. H. Mell, jr., Auburn, Alabama.
Illinois Weather Service, under direction of Col. Charles F. Mills, Springfield, Illinois.
Indiana State Weather Service, under direction of Prof. H. A. Huston, La Fayette, Indiana.
Iowa Weather Service, under direction of Dr. Gustavus Hinrichs, Iowa City, Iowa.
Minnesota State Weather Service, under direction of Prof. W. W. Payne, Northfield, Minnesota.
Mississippi State Weather Service, under direction of Prof. R. B. Fulton, Oxford, Mississippi.
Missouri State Weather Service, under direction of Prof. Francis E. Nipher, Saint Louis, Missouri.
Nebraska Weather Service, under direction of Prof. Goodwin D. Swezey, Crete, Nebraska.
New England Meteorological Society, Prof. Wm. H. Niles, of Boston, Mass., President; Mr. W. M. Davis, of Cambridge, Mass., Secretary.
Ohio State Weather Service, under direction of Prof. B. F. Thomas, of the Ohio State University, Columbus, Ohio.
Tennessee State Weather Service, under direction of H. C. Bate, Nashville, Tennessee.