

METEOROLOGICAL
STATIONS AND OBSERVERS

OF THE

SMITHSONIAN INSTITUTION

IN

NORTH AMERICA AND ADJACENT ISLANDS,

FROM

THE YEAR 1849 UP TO THE END OF THE YEAR 1868.

WASHINGTON:
SMITHSONIAN INSTITUTION.
Nov., 1869.

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Those marked with a * are deceased.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
ANTILLES.			HUDSON'S BAY TERRITORY.		
Sombrero Island...	Alexis Julien.....	1863-'64	Abbittibe post	Jas. Lockhart	1868
Sombrero Island...	Milton Brayton.....	1865	Fort Anderson ... }	R. Macfarlane	1863
BAHAMAS.			Fort George..... }	1863	
Turk's Island	J. B. Hayne	1859	Fort Liard	* R. Kennicott	1860
Turk's Island	J. C. Crisson, Capt.	1860	Fort Nascopee	H. Connolly	1863-'65
	W. Hamilton		Fort Norman	Andrew Flett	1862-'63
Turk's Island	*A. G. Carothers	1861	Fort Rae	Lawrence Clark, jr ..	1859-'60
Turk's Island	United States consul.	1862-'65	Fort Rae, Great	Mrs. Lawrence Clarke,	1861-'64
Turk's Island	J. C. Crisson, United	1868	Slave L.	jr.	
Turk's Isl., Salt Cay	Samuel G. Garland..	1861	Fort Simpson, Grt.	B. R. Ross	1848-'61
	States vice consul.		Slave L.		
Nassau, N. P.....	A. M. Smith	1858-'59	Kenoquimsee	Thos. Richards	1861-'63
BERMUDA.			Little Whale River	Walter Dickson	1862
Hamilton	Capt. Alexander, R.E.	1852	Moose Factory	J. Mackenzie	1857-'62
Hamilton	Royal Gazette	1857	Moose Factory to	Colin Rankin	1862
Shelby Bay	James B. Arnold	1857	Lake Superior.		
St. George's	James Crawford	1858	Red River settlem't.	Donald Gunn	1857-'61
St. George's	Centre signal station,	1858-'68	Rigolet, Labrador	H. Connelly	1859-'60
	Royal Engineers,		JAMAICA.		
	in Royal Gazette.		Upper Park Camp.	James G. Sawkins...	1855-'56
Ireland Island.....	John G. Calder.....	1859	Upper Park Camp.	Col. W. B. Marlow ..	1855
CANADA.			MEXICO.		
Clifton	W. Martin Jones, U.	1867-'68	Chinamaca	Charles Laszlo	1859
	States consul.		Cordova	J. A. Hieto	1858-'60
Hamilton	Dr. W. Craigie	1857-'62		1862, '64	
Kingston	J. Williamson, (dire'r	1859-'60	Frontera, Tabasco.	Charles Laszlo	1865
	Kingston Observ'y.)		Mexico	Prof. L. C. Ervendberg	1855-'56
Michipicoten	Colin Rankin	1860-'66	Minititlan	Charles Laszlo	1858-'60
Montreal	Dr. A. Hall	1855-'63	Mirador	Dr. Chas. Sartorius..	1858-'68
Montreal	Thos. Blackwell	1861	San Juan Bautiste.	Charles Laszlo	1861-'64
Niagara	H. Phillips	1861-'63	Tuspan	Benjamin Crowther..	1867
Port Neuf	Observations publis'd	1868	Vera Cruz	Herman Berendt, M.D.	1859
	in the Naturaliste		NEW BRUNSWICK.		
	Canadien.		NEW BRUNSWICK.		
St. Martin's, near	Dr. Chas. Smallwood.	1852-'62	St. Johns	G. Murdock	1859-'68
Montreal			NEWFOUNDLAND.		
Stanbridge	J. C. Baker	1857-'65	NEWFOUNDLAND.		
Stanbridge	A. H. Gilmour	1868	St. Johns	*Jno. Delany, jr., and	1857-'64
Stratford	C. J. Macgregor	1861-'62	St. Johns	* E. M. J. Delany.	
Toronto	Magnetic Observatory	1856-'68	St. Johns	H. B. M. Milit'y Post.	1849
Toronto	Capt. J. H. Lefroy ..	1849	St. Johns	Rev. R. C. Caswell,	1868
		1851-'52		M. A.	
COSTA RICA.			NEW GRANADA.		
Limon	Felipe Valentin	1865-'66	NEW GRANADA.		
San José	C. N. Riette	1862-'66	Aspinwall	W. T. White, M. D. ..	1857-'65
San José	Dr. A. Von Frantzius.	1866-'67	Aspinwall	*J. P. Kluge, M. D. ..	1865-'66
San José	Oficina Central di	1867-'68		1868	
	Estadistica.		Aspinwall	*J. P. Kluge, M. D.,	1867
				and G. V. Rucker,	
GUATEMALA.			NICARAGUA.		
Guatemala	Antonia Canudas...	1858-'62	NICARAGUA.		
HONDURAS.					
Belize	S. Cockburn	1862-'68			
Truxillo	E. Purdot	1854		J. Moses	1855

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
NOVA SCOTIA.			ALASKA.		
Halifax	Royal Engineers	1859-'61	Fort Youkon.....	* R. Kennicott.....	1861
Halifax	Col. W. J. Myers, F. B. M.	1863-'65	Nulato	W. H. Dall	1866-'67
Halifax	Board of Trade	1854	Sitka	Dr. Alex. H. Hoff....	1867-'68
Halifax	R. J. Nelson	1859	St. Michaels.....	H. M. Bannister.....	1865-'66
Horton	C. F. Hartt	1858	St. Michaels.....	J. M. Bean	1865-'66
Pictou (Albion Mines.)	Henry Poole	1843-'55	Unalakleet.....	F. Westdahl.....	1866-'67
Windsor	King's College	1857-'62	ARIZONA.		
Wolfville	Acadia College	1854	Fort Whipple	Dr. E. Cones, U. S. A.	1865
Wolfville	Prof. D. F. Higgins... ..	1860-'62	ARKANSAS.		
Wolfville	C. F. Hartt	1867-'68	Arkadelphia.....	Dennis Barlow.....	1859
Wolfville	Prof. A. P. S. Stuart.. ..	1859	Arkadelphia.....	Female College.....	1860
Wolfville		1855-'58	Bentonville.....	Paul Graham.....	1859-'61
PORTO RICO.			Brownsville.....	B. F. Coulter	1859-'60
Est. San Ysidro ...	George Latimer.....	1868	Buckhorn	Armistead Younger..	1859
SAN SALVADOR.			Doaksville.....	Miss Sue McBeth.....	1860
La Union	Charles Dorat, M. D. . .	1855	Fort Smith.....	Rev. Francis Springer.	1866-'67
ST. DOMINGO.			Gainesville.....	James T. Davies.....	1859
Jonathan Elliott		1860	Green Grove.....	Robert Burris, M. D. .	1869
VANCOUVER'S ISLAND.			Helena	O. F. Russell.....	1865-'68
Victoria	David Walker, M. D . .	1863-'64	Jacksonport.....	G. Alexander Martin,	1859-'60
ALABAMA.				M. D.	
Ashville	Thomas M. Barker .. .	1857	Little Rock.....	Philip L. Anthony... .	1849
Auburn	Prof. John Darby .. .	1854-'58	Mico	Rev. H. F. Buckner ..	1860
Benton	Dr. Chas. F. Percival.. .	1849-'51	Mountain Home... .	J. S. Howard.....	1861
Boligee	Col. Horace Harding.. .	1860	Perryville.....	W. H. Blackwell.....	1859-'61
Bon Secours	W. J. Van Kirk	1866-'67	Perryville.....	H. F. Hardy	1856
Cahaba	Matthew Troy, M. D. .	1859	Spring Hill.....	P. F. Finley	1859
Carlowville	H. L. Alison, M. D. . .	1856-'60	Spring Hill.....	J. Reynolds.....	1859-'60
Erie	Dr. Sam'l K. Jennings	1867-'68	Spring Hill.....	P. F. Finley and J. Reynolds.	1860
Erie	Dr. T. C. Osborne .. .	1849	Waldron	Geo. W. Featherstone..	1859-'60
Eutaw	A. Winchell	1851-'52	Washington	Alex. P. Moore, M. D. .	1861
Fish River	W. J. Van Kirk	1868	Washington	Dr. N. D. Smith	1849-'61
Greensboro'	Robert B. Waller	1856-'62	Yellville	J. W. West	1859-'60
Greensboro'	N. T. Lupton	1868	Yellville	W. B. Flippin.....	1859-'60
Green Springs	H. Tutwiler	1834-'58	CALIFORNIA.		
Havana	Prof. H. Tutwiler	1853	Auburn	Robert Gordon.....	1850-'60
Havana, six miles east of	S. K. Jennings, M. D. .	1859-'61	Columbia.....	Silas Earle, M. D. . .	1857-'69
Livingston	Rev. S. U. Smith	1866-'68	Crescent City.....	Robert B. Randall .. .	1859-'60
McMath's P. O.	R. T. Meriwether.....	1868	Downieville.....	T. R. Kibbe, M. D. . .	1860
Mobile	Dr. S. B. North	1849	Folsom	Rev. S. V. Blakeslee..	1861
Mobile	Rev. J. J. Nicholson.. .	1859	Fort Yuma.....	Fort Yuma.....	1867
Monroeville	S. J. Cumming	1849	Honcut	James Slaven	1859
Montgomery	Rev. J. A. Shepherd.. .	1851-'55	Honcut	J. Slaven and Mrs. E. S. Dunkum.	1860
Montgomery	W. L. Foster	1851-'61	Honcut.....	Mrs. E. S. Dunkum .. .	1861-'63
Moulton	Andrew J. Harris.....	1852-'60	Mare Island.....	U. S. Naval Hospital.	1868
Moulton	Thomas J. Peters.....	1852-'68	Marsh's Rancho... .	Francis M. Rogers....	1867-'68
Moulton	Pr. J. J. Slackford.....	1851	Martinez.....	Edwin Howe	1860
Moulton	Ashey D. Hunt	1854	Marysville.....	W. C. Belcher	1857-'59
Opelika	J. H. Shields	1857-'68	Meadow Valley... .	James H. Whitlock .. .	1861-'63
Orville	Dr. S. K. Jennings... .	1859-'60	Meadow Valley... .	Colbert A. Canfield,	1864
Orville	T. A. Hasen and J. A. Coleman.	1859	Meadow Valley... .	M. D.	
Prairie Bluff	William Henderson.. .	1867	Meadow Valley... .	M. D. Smith	1863-'68
Prairie Bluff	R. M. Reynolds.....	1867	McKelumme Hill.. .	Wesley K. Boucher .. .	1859-'61
Selma	Dr. S. K. Jennings... .	1858-'59	Monterey	Colbert A. Canfield,	1859-'60
Spring Hill	A. Cornette, S. J. . .	1860	Murphy's	M. D.	
Tuscaloosa	Prof. M. Thomey	1853-'54	Presidio of San	Ephraim Cutting.....	1864-'68
Tuscaloosa	George Benagh	1854-'55	Francisco.....	W. W. Hays, M. D. . .	1862
Union Springs.....	J. L. Moultrie	1868	Presidio of San	D. F. Parkinson.....	1863-'64
Tuscaloosa	Rev. R. A. Cobbs.....	1859-'60	Francisco.....	Post surgeon	1852-'61
Uniontown	Benj. F. Holly.....	1849	Sacramento.....	Dr. F. W. Hatch	1854
Wetokaville.....		1851-'54	Sacramento.....	Drs. F. W. Hatch and T. M. Logan.	1855
			Sacramento.....	Dr. T. M. Logan.....	1849-'68
			Sacramento.....	Charles Craft.....	1863
			San Francisco.....	W. O. Ayres, M. D. . .	1856-'63
			San Francisco.....	Dr. H. Gibbons.....	1865-'68
					1854-'55

List of Smithsonian meteorological stations and observers.—Continued.

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PENNSYLVANIA—Cont.			DIST. OF COLUMBIA.		
Smith's Branch.....	W. W. Hays, M. D.....	1864	Georgetown.....	Rev. C. B. McKee....	1860-'63
Smith's Branch.....	Prof. O. S. Frombes... .	1859-'61	Washington.....	U. S. N. Observatory..	1852-'60
Smith's Branch.....	Lewis A. Gould.....	1859	Washington.....	J. Wiessner.....	1864-'67
Smith's Branch.....	M. D. Smith.....	1862-'63			1857-'58
Smith's Branch.....	Mrs. M. D. Smith.....	1864-'66	FLORIDA.		
Smith's Branch.....	Dr. Robert K. Ried.....	1855-'56	Alligator.....	Edward R. Ives.....	1857-'58
Smith's Branch.....	Walter M. Trivett.....	1867	Atsena Otie.....	Hon. Aug. Steele.....	1859-'61
Smith's Branch.....	W. L. Dunkum.....	1858	Belair.....	Benj. F. Whitney.....	1857-'58
COLORADO.			Cedar Keys.....	Judge Aug. Steele....	1851-'58
Canon City.....	W. D. McLain.....	1860-'61	Cedar Keys.....	W. C. Andrus.....	1867
Canon City.....	D. C. Collier.....	1859	Chesnut Hill.....	John Newton.....	1851
Canon City.....	Fred. J. Stanton.....	1862	Fernandina.....	* Henry M. Corey.....	1867
Canon City.....	Arthur M. Merriam....	1866-'67	Gainesville.....	James B. Bailey.....	1855-'61
Canon City.....	E. L. Berthoud.....	1867	Gainesville.....	P. C. Garvin, M. D....	1866
Canon City.....	James Luttrell.....	1863-'65	Gordon.....	H. B. Scott.....	1866-'68
Canon City.....	Dr. William T. Ellis... .	1860-'62	Green Cove Spring	G. A. Boardman.....	1868
CONNECTICUT.			Hibernia.....	F. L. Bacheider.....	1857-'58
Brackfield.....	Sanford W. Roe.....	1868	Jacksonville.....	Dr. A. S. Baldwin....	1866-'68
Canterbury.....	Jarvis Case.....	1861-'63	Key West (Salt Pond.)	W. C. Dennis.....	1854-'64
Canterbury.....	Miss C. Rockwell.....	1860-'68	Key West (Magnetic Observ'y.)	George D. Allen.....	1860-'61
Columbia.....	W. G. Yeomans.....	1856-'68	Key West (Magnetic Observ'y.)	G. F. Ferguson, and	1861-'62
East Windsor Hill.	P. A. Chadbourne.....	1852	Knox Hill.....	John G. Oltmans.....	
Georgetown.....	Aaron B. Hull.....	1855-'57	Lake City.....	J. Newton.....	1852-'53
Georgetown.....	Rev. E. Dewhurst.....	1866-'68	Lake City.....	Edward R. Ives.....	1859-'60
Hartford.....	Charles H. Hoadley....	1849-'51	Lake City.....	Galen M. Fisher.....	1866-'68
Middletown.....	Prof. J. Johnston.....	1854, '58	Lake City.....	Rev. W. W. Keep....	1867
Middletown.....	* Prof. A. W. Smith... .	1859-'68	Lake City.....	Dr. James B. Bean... .	1868
Middletown.....		1859, '61	Micanopy.....	John Newton.....	1858-'60
Middletown.....		1852	Orange Hills.....	U. S. Navy Yard.....	1854
New Haven.....	H. G. Du Bois, jr.....	1859	Pensacola.....		1849
New Haven.....	D. C. Leavenworth....	1862-'64	Pensacola.....	J. Pearson, U. S. N... .	1857-'60
New Haven.....	Prof. E. Cutler.....	1849, '51	Pensacola.....	J. Pearson and Lieut. Joseph Fry.....	1851-'54
New London.....	Rev. Tryon Edwards, D. D.	1849, '51	Pensacola.....	Lieut. Joseph Fry....	1855
New London.....		1852-'58	Pensacola.....	Lieut. Joseph Fry....	1856
North Colebrook..	M. H. Cobb.....	1849, '51	Pensacola.....	Lieut. Jos. Fry and J. W. Hester.....	1857
Norwich.....	N. Schofield.....	1855-'58	Pensacola.....	Lieut. J. W. Hester... .	1858
Plymouth.....	Dwight W. Learned....	1862-'64	Port Orange.....	J. M. Hawks, M. D... .	1867-'68
Pomfret.....	Rev. Daniel Hunt.....	1853-'68	St. Augustine.....	Dr. John E. Peck....	1849
Salisbury.....	Dr. Ovid Plumb.....	1849, '51	St. Augustine.....	P. B. Mauran, M. D... .	1856-'60
Salisbury.....		1853-'54	Tallahassee.....	Benj. F. Whitner.....	1859-'61
Saybrook.....	James Rankin.....	1853-'61	Tallahassee.....	W. S. Bogert.....	1852
Wallingford.....	Benj. F. Harrison.....	1856-'62	Tallahassee.....	Lardner Gibbon.....	1859-'60
Waterbury.....	Rev. R. G. Williams....	1867-'68	Uchee Anna.....	John Newton.....	1849
West Cornwall.....	T. S. Gold.....	1854	Warrington.....	Thayer Abert.....	1859-'60
Windsor.....	R. H. Phelps.....	1851			
DAKOTA.			GEORGIA.		
Fort Union.....	F. G. Ritter.....	1857-'58	Athens.....	Prof. John D. Easter..	1857-'59
Greenwood.....	Freeman Norvell....	1859-'61	Atlanta.....	J. G. Westmoreland..	1859-'60
Yancton.....	M. K. Armstrong.....	1855	Atlanta.....	Fred. Deckner & Son..	1865-'68
Yancton.....	G. D. Hill, G. W. Law-son, H. G. Williams....	1862	Augusta.....	William Haines.....	1854-'57
Yancton.....	H. G. Williams.....	1863	Augusta.....	William Schley.....	1854
DELAWARE.			Augusta.....	Wm. H. Doughty, M. D.	1852-'60
Delaware City.....	L. Vankeke.....	1866-'67	Boston.....	Rev. W. Blewitt.....	1865-'68
Dover.....	J. P. Walker.....	1854	Clarksville.....	Jarvis Van Buren.....	1859-'61
Georgetown.....	Dr. D. W. Mauld.....	1859	Clarksville.....	Col. J. R. Stanford....	1859
Lewes.....	John Burton.....	1849	Covington.....	Benjamin F. Camp... .	1859-'61
Milford.....	R. A. Martin.....	1857-'58	Culoden.....	John Darby.....	1852-'53
Newark.....	Prof. W. A. Norton....	1849	Cuthbert.....	Charles C. Seavey....	1860
Newark.....	Prof. E. D. Porter.....	1852	Dalton.....	J. R. McAfee.....	1861
Newark.....	Prof. W. A. Crawford..	1854	Darien.....	Charles Grant.....	1849
Newark.....	Prof. W. A. Crawford, R. A. Martin.....	1855	Factory Mills.....	F. T. Simpson.....	1857
Newark.....	Prof. W. A. Crawford, R. A. Martin, and T. J. Craven.....	1856	Hillsboro'.....	Eli S. Glover.....	1857-'59
Newark.....	Thos. J. Craven and Mrs. E. D. Porter..	1857	Macon.....	Miss L. J. Whitney....	1868
Newark.....	Mrs. E. D. Porter.....	1858	Macon.....	John A. Rockwell....	1868
Newark.....	Robert Crawford.....	1856	Macon.....	J. F. Adams.....	1868
Wilmington.....	* Urban D. Hedges....	1863-'65	Madison.....	Prof. Wm. D. Williams	1854
			Milledgeville.....	J. M. Cotting.....	1849
			Milledgeville.....	Prof. C. W. Lane.....	1849
			Penfield.....	Prof. J. E. Willet....	1852
			Perry.....	Dr. Geo. F. Cooper... .	1851-'52
			Philomath.....	James M. Reed.....	1857

List of Smithsonian meteorological stations and observers.—Continued.

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GEORGIA—Con'd.			ILLINOIS—Con'd.		
Powellton.....	P. C. Pendleton.....	1852	Evanston.....	* W. H. Morrison.....	1864
Savannah.....	* Dr. John F. Posey.....	1852-'59	Evanston.....	H. W. Seovill.....	1864
Savannah.....	R. T. Gibson.....	1859-'61	Evanston.....	Jos. H. Gill and others.....	1865
Sparta.....	Dr. E. M. Pendleton.....	1852-'61	Evanston.....	Fred. J. Huse.....	1866-'67
Summerville.....	Stephen Elliott Habersham.....	1868	Evanston.....	Prof. Oliver Marcy.....	1866
The Rock.....	Dr. James Anderson.....	1855-'60	Farmbridge.....	Elmer Baldwin.....	1860
Thomasville.....	Rev. W. Blewitt.....	1860	Premont Centre.....	Isaac H. Smith.....	1857-'58
Thomson.....	Dr. W. T. Grant.....	1858-'59	Galena.....	Emil Hauser.....	1859-'60
Willdenmarsh Island.....	R. T. Gibson.....	1849-'58	Galesburg.....	Prof. Wm. Livingston.....	1861-'68
Zebulon.....	Mrs. J. T. Arnold.....	1857-'59	Goleconda.....	Rev. Wm. V. Eldridge.....	1866-'68
IDAHO.			Granville.....	L. G. Edgerly.....	1854
Cantonment Jordan.....	W. W. Johnson.....	1859	Granville.....	J. L. Jenkins.....	1857
Fort Benton.....	M. C. Rosseau.....	1863	Hazel Dell.....	Henry Griffing.....	1863-'65
Fort Halleck.....	J. H. Finfrock.....	1864	Hennepin.....	Smiley Sheppard.....	1868
Fort Laramie.....	Col. W. O. Collins.....	1863-'64	Highland.....	A. F. Baudelier, jr.....	1860-'64
Fort Laramie.....	A. F. Ziegler, M. D.....	1865	Hillsboro.....	John S. Titcomb.....	1858
ILLINOIS.			Hoylton.....	J. Ellsworth.....	1864-'65
Albany.....	Warren Olds.....	1861-'62	Hoylton.....	O. J. Marsh.....	1866
Albion.....	Edgar P. Thompson.....	1857	Jacksonville.....	Prof. Wm. Coffin.....	1849
Alton.....	S. Y. McMasters.....	1849	Jacksonville.....	Timothy Dudley.....	1858
Alton.....	Norton Johnson.....	1849	Lacon.....	A. H. Thompson.....	1861-'64
Andalusia.....	E. H. Bowman, M. D.....	1866-'68	Lebanon.....	Prof. N. E. Cableigh.....	1867-'68
Athens.....	Joel Hall.....	1851-'58	Loammi.....	Timothy Dudley.....	1866-'68
Augusta.....	Dr. S. B. Mead.....	1849-'50	Magnolia.....	Henry K. Smith.....	1854-'61
		1851-'68	Manchester.....	John Grant.....	1862-'65
Aurora.....	* Andrew J. Babeock.....	1857-'61	Manchester.....	John Grant and Miss Ellen Grant.....	1866-'68
Aurora.....	Abiram Spaulding.....	1865-'68	Marengo.....	John & C. W. Grant.....	1866-'68
Batavia.....	Prof. Wm. Coffin.....	1853-'54	Marengo.....	O. P. Rogers.....	1856-'58
Batavia.....	* Thomp' Mead, M. D.....	1857-'61			1868
Batavia.....	E. Capen.....	1858-'59	Marengo.....	O. P. & J. S. Rogers.....	1859-'63
Batavia.....	Frank Crandon.....	1861-'62			1868
Batavia.....	K. T. Baker.....	1860-'63	Marengo.....	F. Rogers.....	1868
Bellevue.....	Dr. John J. Patrick.....	1861	Monroe.....	Silas Meacham.....	1849
Belleville.....	Dr. J. J. Patrick and N. T. Baker.....	1862	Mount Sterling.....	Rev. Alex. Duncan.....	1866-'68
Belvidere.....	G. B. Moss.....	1868	Naperville.....	Lewis Ellsworth.....	1859
Bloomington.....	Jesse Allison.....	1859-'61	Naperville.....	Milton S. Ellsworth.....	1859-'60
Brighton.....	Wm. V. Eldridge.....	1855-'58	Newton.....	Rev. Wm. V. Eldridge.....	1859
Carbon Cliff.....	Mrs. Wm. S. Thomas.....	1859	North Prairie.....	C. H. Bryant.....	1862
Carhage.....	Sanna J. Wallace.....	1857	Olney.....	Rev. H. H. Brickenshtein.....	1860
Carhage.....	Mrs. E. M. A. Bell.....	1859	Osceola.....	J. S. Pashley, M. D.....	1860-'61
	& Sanna J. Wallace.....	1859	Ottawa.....	Dr. J. O. Harris.....	1852-'61
Centraia.....	H. A. Schmitt.....	1865	Ottawa.....	Geo. O. Smith, M. D.....	1859-'60
Channahon.....	Rev. D. H. Sherman.....	1859	Ottawa.....	Samuel L. Shotwell.....	1860
Channahon.....	Dr. J. F. ...	1859	Ottawa.....	Mrs. Emily H. Merwin.....	1862-'68
Chicago.....	Henry J. ...	1859	Paris.....	C. Leving.....	1868
Chicago.....	G. D. H. ...	1859-'77	Peoria.....	J. H. Riblet.....	1857-'65
Chicago.....	Samuel B. ...	1859-'77	Peoria.....	Dr. Fred. Brendel.....	1855-'68
Chicago.....	M. C. Armstrong and J. H. R. ...	1859-'61	Peoria.....	M. A. Breed.....	1861-'62
Chicago.....	Gustave A. ...	1859-'61	Plymouth.....	Dr. J. B. N. Klinger.....	1852
Chicago.....	A. M. Byrne, J. H. Roe, and others.....	1862	Quincy.....	Rev. G. B. Giddings.....	1849
Chicago.....	John O. Donoghue.....	1862	Ridge Farm, Vermillion county.....	B. C. Williams.....	1868
Chicago.....	Arthur M. Byrne.....	1862-'74	Riley.....	E. Babeock.....	1856-'67
Chicago.....	Isaac A. Pool.....	1862	Robinson's Mills.....	E. Brendel, M. D.....	1860
Chicago.....	John G. Languth, jr.....	1862-'68	Rochele (Alta).....	Daniel Carey.....	1866-'68
Clinton.....	C. H. Moore.....	1864-'66	Rockford.....	William Holt.....	1849
De Kalb.....	John D. Parker.....	1869	Sandwich.....	N. E. Ballou, M. D.....	1859-'68
Dixon.....	J. Thos. Little.....	1856-'63	South Pass.....	Frank Baker.....	1857-'58
		1867	South Pass.....	S. C. Spaulding.....	1862-'66
Dongola.....	Ralph E. Meeker.....	1861-'62	South Pass.....	H. C. Freeman.....	1867-'68
Dubois.....	Wm. C. Spencer.....	1865-'68	Springfield.....	Geo. W. Brinkerhoff.....	1865-'68
Du Quoin.....	C. Ziegler.....	1864	Taskiwa.....	Verry Aldrich.....	1859-'68
Edgar county.....	J. W. Brown.....	1858	Upper Alton.....	Prof. P. P. Brown.....	1851-'52
Edgington.....	Dr. E. H. Bowman.....	1857-'61	Upper Alton.....	* Dr. John James.....	1853-'59
Elgin.....	Jno. B. Newcomb.....	1858-'61	Upper Alton.....	Anna James.....	1857
Elmhira.....	Orestes A. Blanchard.....	1862-'63	Upper Alton.....	Mrs. Anna C. Triple.....	1861-'64
		1865-'68	Wapella.....	T. Louis Groff.....	1868
Elmore.....	W. H. Adams.....	1864-'68	Warsaw.....	Benj. Whitaker.....	1855-'58
Evanston.....	* H. G. Meacham.....	1858	Waterloo.....	H. Kunster.....	1865
Evanston.....	Chas. E. Smith.....	1859-'60	Waukegan.....	Dr. Wm. Joslyn.....	1867-'68
Evanston.....	A. D. Langworthy.....	1864	Waverley.....	Timothy Dudley.....	1865-'66
			Waynesville.....	Joshua E. Cantrell.....	1858-'59
			West Salem.....	Henry A. Titze.....	1855-'60
			West Urbana.....	John Swain, M. D.....	1857-'59
			Wheaton.....	Prof. Geo. H. Collier.....	1858-'61

METEOROLOGICAL STATIONS AND OBSERVERS.

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
INDIANA—Cont'd.			INDIANA—Cont'd.		
Rockville	E. E. Bacon	1859-'63	Rockville	H. H. Anderson	1859-'66
Rockville	Henry Griffing	1862	Rockville	J. W. Tenbroeck	1859
Shelbyville Depot	J. W. Tolman	1858-'68	Shelbyville	J. T. Bullock	1859-'62
Shelbyville	Geo. R. Bassett	1859-'61	South Bend	Prof. Gardner Jones	1851
South Bend	E. S. Phelps	1864	South Bend, (Notre Dame University)	Prof. Thos. Vagner	1858-'59
South Bend	E. S. Phelps and Miss L. E. Phelps	1865-'68	South Bend	Miss G. Webb	1859
South Bend	V. P. Gay	1864-'65	South Bend	James H. Dayton	1860-'63
INDIANA.			South Bend	Reuben Burroughs	1863-'65
Albion	Geo. Sutton, M. D.	1859	South Hanover	Prof. S. H. Thomson	1849
Albion		1866-'68	Spiceland	Wm. Dawson	1863-'68
Bloomington	Miriam Griest	1865-'66	Vevay	Charles G. Boerner	1864-'68
Bloomington	Wm. H. Hobbs	1864	Walnut Hills	W. W. Austin	1849
Bloomington	Miss M. A. Hobbs	1865	INDIAN TERRITORY.		
Bloomington	Prof. C. M. Dodd, assisted by T. H. Mallow and others.	1868	Armstrong Academy	Prof. A. G. Moffatt	1849
Cass	Wm. Dawson	1854-'63	Doaksville	P. P. Brown	1849
Carleton	Hamilton Smith, jr.	1856-'61	Talequah	T. B. Van Horne	1849
Carthage	Charles M. Hobbs	1863	IOWA.		
Columbia	Dr. F. McCoy and Miss Lizzie McCoy	1865-'68	Algona	F. McCoy, M. D.	1860
Evansville	John F. Crisp	1857-'58	Algona	F. McCoy and Miss Elizabeth McCoy	1861-'65
Fort Wayne	Prof. A. C. Huestis	1849	Algona	Philip Dorweiler	1866-'68
Fort Wayne	Miss G. Webb	1860-'61	Algona	James H. Warren	1867-'68
Greenfield	Prof. Jos. Tingley	1851-'54	Atalissa	B. Carpenter	1867
Indianapolis	Wm. H. Larrabee	1859-'63	Bangor	Isaac M. Gidley	1861-'63
Indianapolis	Royal Mayhew	1861-'65	Bellevue	John C. Foley	1856-'60
Indianapolis	W. W. Barnfield	1864-'65	Boonsboro	E. Babcock	1867-'68
Indianapolis	W. W. Barnfield and Mrs. Barnfield	1866-'67	Border Plains	G. C. and W. K. Goss	1856
Indianapolis	W. J. Elston	1867-'68	Border Plains	Wm. K. Goss	1857-'59
Jays	Albert C. Irwin	1878	Bowen's Prairie	Samuel Woodworth	1868
Kendallville	W. B. Convery	1854	Burlington	John M. Corse	1859-'60
Kendallville	J. Knater	1854	Burlington	Louisa P. Love	1866-'68
Knightstown	D. Deem	1858	Burlington	Mrs. James Love	1868
Lafayette	A. H. Dixby	1854	Ceres	John M. Hagensick	1865-'68
Lafayette	H. Peters	1854	Clarinda	S. H. Kridelbaugh, M. D.	1865-'66
Lafayette	Isaac E. Windle	1865	Clinton	Nathan H. Parker	1856-'58
Laporte	R. M. Newkirk	1849	Clinton	P. J. Farnsworth	1866-'68
Leo	W. W. Spratt, M. D.	1861	Dakota	Wm. O. Atkinson	1867-'68
Legansport	Charles B. Laselle	1857-'58	Davenport	Nathan H. Parker	1858
Legansport	Isaac Bartlett	1859-'61	Davenport	A. J. Finley	1859
Legansport	Thos. B. Helm	1863	Davenport	H. S. Finley	1859
Madison	C. Barnes	1854	Davenport	H. S. Finley and W. P. Dunwoody	1860
Madison	Rev. Samuel Collins	1864-'66	Davenport	J. Chamberlain, W. P. Dunwoody, H. H. Belfield.	1861
Madison	Oliver Mulvey	1865	Davenport	Dr. Ignatius Langer	1861
Merom	Thomas Holmes	1866-'68	Davenport	H. H. Belfield and W. P. Dunwoody.	1862
Michigan City	C. S. Woodard	1857-'58	Davenport	J. Chamberlain and W. P. Dunwoody	1864
Michigan City	W. Woodbridge, B. D. Angell, and H. Blake.	1859-'60	Davenport	Geo. B. Pratt	1865
Milton	Dr. V. Kersey	1853-'55	Davenport	G. B. Pratt and Sydney Smith.	1866
Mishawaka	Geo. C. Munfield	1859	Davenport	D. S. Sheldon	1867-'68
Muncie	E. J. Rice	1863-'64	Des Moines	Rev. J. A. Nash	1857-'67
Muncie	G. W. H. Kemper	1866-'68	Dubuque	Dr. Asa Horr	1851-'55
New Albany	C. Barnes	1855-'58	Dubuque	Rev. Joshua Phelps	1854
New Albany	Dr. Alex. Martin	1859	Dubuque, (Alexander College.)	Dr. W. W. Woolsey	1856
New Albany	Dr. E. S. Crozier	1863-'65	Dubuque	Dexter Beal	1856
New Castle	Prof. Jos. Tingley	1849	Fairfield	J. M. Shaffer	1856-'60
New Castle	Thos. B. Redding	1863-'65	Fairfield	Miss Sue McBeth	1859
New Garden	D. H. Roberts	1854	Fayette	John M. McKenzie	1859-'60
New Harmony	John Chappellsmith	1852-'68	Fontauelle	A. F. Bryant	1866-'68
New Harmony	Dr. D. D. Owen	1849-'51	Forrestville	Daniel Sheldon	1856-'63
Newport	Daniel H. Roberts	1851	Fort Madison	Daniel McCreedy	1852, '54
Patoka	A. P. Turner	1859	Franklin	Dexter Beal and W. Beal.	1855-'68
Pennville	John Griest	1864	Franklin	Dexter Beal	1857
Rensselaer	J. H. Loughridge, M.D.	1864-'65	Franklin	Dexter Beal	1858
Richmond	Dr. Jno. T. Plummer	1867-'68			
Richmond	W. W. Austin	1849, '51			
Richmond		1851-'55			
Richmond		1859-'61			
Richmond	Joseph Moore	1855-'59			
Richmond	John Haines	1859-'63			
Richmond	Edward B. Rambo	1862-'63			
Richmond	John Valentine	1865-'68			

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
IOWA—Continued.			KANSAS—Con'd.		
Fort Dodge	C. N. Jorgenson	1867-'68	Fort Riley	J. M. Shaffer and E. P. Camp	1866
Grove Hill	Dexter Beal	1859-'60	Gardner	G. F. Merriam	1860
Grove Hill	Dexter Beal and W. W. Beal	1861	Gardner	James Scott	1861-'62
Grove Hill	Mrs. Celia Beal	1862	Holton	Dr. James Walters	1867-'68
Guttenburg	Philip Dorweiler	1864-'66	Junction City	E. W. Seymour, M. D.	1863
Guttenburg	James P. Dickinson	1866-'68	Lawrence	G. W. Brown	1857-'59
Harris Grove	Jacob F. Stern	1866-'68	Lawrence	W. J. R. Blackman	1860-'61
Hesper	H. B. Williams	1860-'61	Lawrence	A. N. Fuller	1862-'64
Independence	D. S. Deering	1861-'67	Lawrence	W. L. G. Soutle	1863-'64
Independence	Alex. Camp Wheaton	1862-'66	Lawrence	Geo. W. Hollingsworth	1867
Independence	Mrs. D. D. Wheaton	1866-'68	Lawrence	Prof. F. H. Snow	1868
Independence	Geo. Warme, M. D.	1867-'68	Leavenworth	H. D. McCarty	1857-'59
Iowa City	Hermann H. Fairall	1856	Leavenworth	E. L. Berthoud	1858-'60
Iowa City	W. Reynolds	1857-'58	Leavenworth	M. Shaw	1861-'62
Iowa City	Prof. Theo. S. Parvin	1861-'68	Leavenworth	Dr. J. Stayman	1866-'68
Iowa Falls	Nathan Townsend	1863-'68	Leavenworth	T. B. Stowell	1863
Keokuk	Miss Ida E. Ball	1851-'54	Lecompton	Dr. Wm. T. Ellis	1859-'60
Keokuk	Dr. J. E. Ball	1853	Lecompton	Wm. A. McCormick	1860-'61
Keokuk	Prof. K. M. Taylor	1866	Lecompton	David G. Bacon	1866
Kossuth	Wm. P. Leonard	1862	Leroy	J. G. Shoemaker	1867
Kossuth	Isaiah Reed	1860-'61	Manhattan	Isaac I. Goodnow	1857-'62
Lyons	A. T. Hudson, M. D.	1859-'67	Manhattan	Rev. N. O. Preston	1859-'60
Lyons	P. J. Farnsworth	1862-'65	Manhattan	I. T. Goodnow and H. L. Denison	1863
Lyons	Dr. J. Messman	1866	Manhattan	Henry L. Denison	1864
Manchester	* Allen Mead	1865-'66	Manhattan	Agricultural College, (B. F. Mudge, and and others.)	1865-'68
Maquoketa	Edward F. Hobart	1857	Mapleton	S. O. Himoe, M. D.	1857-'58
Marble Rock	H. Wade	1867-'68	Moneka	J. O. Wattles and Celestia Wattles	1859
Monticello	Chauncey Mead	1864-'66	Neosho Falls	B. F. Goss	1859-'61
Monticello	M. M. Moulton	1866-'68	Neosho Falls	Mrs. E. W. Groesbeck	1868
Mount Pleasant	E. L. Briggs	1863-'64	Olatia	W. Beckwith	1864-'68
Mount Vernon	Prof. B. Wilson Smith	1857	Ridgeway	O. H. Brown	1863
Mount Vernon	Prof. Alonzo Collins	1860-'68	Topeka	P. W. Giles	1858
Muscatine	T. S. Parvin	1849-'50	Wyandot	John H. Millar	1839-'60
Muscatine	P. G. Parvin	1853-'54			
Muscatine	Snel Foster	1860-'64	KENTUCKY.		
Muscatine	T. S. Parvin and Rev. John Ufford	1860	Ballardsville	Dr. John Swain	1853-'56
Muscatine	Rev. John Ufford	1861-'62	Ballardsville	"John H. Lunemann	1860-'62
Muscatine	Josiah P. Walton	1863-'68	Barlstown	J. H. Lunemann and Thos. H. Miles	1858
Onowa	Richard Stebbins	1864	Barlstown	Thos. H. Miles	1859
Osage	Rev. Alva Bush	1866-'67	Barlstown	Thos. H. Miles	1860-'61
Pella	E. H. A. Scheeper	1854-'56	Beach Park	Dr. C. D. Case	1849-'50
Pleasant Plain	Townsend McConnell	1855-'65	Belling Green	J. E. Younglove	1851-'52
Pleasant Spring	Rev. B. F. O'Neil	1855	Bowling Green	F. C. Herrick	1852
Plum Spring	B. F. O'Neil and Miss Mary G. O'Neil	1855	Chambersburg	Dr. Samuel D. Martin	1863-'68
Plum Spring	Rev. B. F. O'Neil	1855	Chambersburg	Rev. T. H. Cleland	1868
Poultney	Dr. B. F. O'Neil	1855-'54	Danville	O. Beatty	1853-'62
Quasqueton	Dr. E. C. Bland	1855-'57	Danville	R. H. Caldwell	1863-'68
Rolle	Oscar I. Strong	1855	Danville	Prof. S. Y. McMasters	1864
Rossville	Carisle D. Brannan	1855	Dresden Springs	Mrs. Mary A. Walker	1859
Sioux City	Dr. J. J. Sawin	1855	Hardinsburg	J. C. Barbage	1860-'61
Sioux City	A. J. Millard	1855	Hardinsburg	Joshua C. Barbage	1860-'61
St. Mary's	D. E. Read	1855	Lexington	J. D. Shane	1854
Vernon Springs	Gregory Marshall	1851-'62	Lexington	Rev. S. R. Williams	1859
Washington	C. R. Boyle	1851	Lexington	W. S. Doak	1865-'66
Waterloo	L. H. Doyle	1850-'64	Louisville	Rev. S. R. Williams	1858-'59
Waterloo	T. Steed	1864-'68	Louisville	E. N. Woodruff	1860-'63
Whitesboro	David K. Witter	1867-'68	Maysville	E. L. Berthoud	1852-'54
			Millersburg	Rev. J. Miller	1833
			Millersburg	Rev. J. Miller, Rev. G. S. Savage	1854
KANSAS.			Millersburg	Dr. Geo. S. Savage	1855-'62
Atchison	Dr. H. B. Horn and Miss Clotilde Horn	1865-'68	Newport	Prof. M. G. Williams	1861
Avon	Allen Crocker	1866	Nicholasville	Jos. McD. Matthews, D. D.	1861-'63
Baxter Springs	Ingraham & Hyland	1867-'68	Nolin	J. Grinnell	1858
Burlingame	* Lucian Fish	1859-'61	Paducah	Andrew Mattison	1859-'62
Cayuga	Wm. H. Gilman	1858	Paris	L. G. Ray	1854-'59
Celestville	Rev. J. H. Drummond	1850-'60	Pleasant Valley	A. H. Bixby	1853
Council City	Edmund Fish	1857-'58			
Council Grove	A. Woodworth, M. D.	1865-'68			
Emporia	C. F. Oakfield	1863			
Fort Riley	Rev. David Clarkson	1859-'60			
Fort Riley	Dr. Fred. P. Drew, U. S. A.	1862-'64			
Fort Riley	Post Surgeon	1865			

METEOROLOGICAL STATIONS AND OBSERVERS.

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
MAINE—Cont'd.			MAINE—Con'd.		
Brook Hill.....	O. Beatty.....	1849-'51	Oldtown.....	Rev. S. H. Merrill.....	1849-'50
Brook Hill.....	E. M. Murch.....	1860		S. Eveleth.....	1851-'53
Brook Hill (near Lewiston).....	Mrs. L. Young.....	1849-'50	Oxford.....	Howard D. Smith.....	1868
		1851-'55	Patten.....	S. Eveleth.....	1849
		1857-'68	Pembroke.....	Rev. E. Dewhurst.....	1862
Topsham.....	H. C. Mathis.....	1866	Perry.....	William D. Dana.....	1853-'65
LOUISIANA.			Portland.....	Henry Willis.....	1855-'60
Bayou.....	J. H. Carter.....	1867-'68	Portland.....	John W. Adams.....	1859-'61
Bayou River.....	A. W. Jackson, M. D.....	1859	Runford Point.....	Waldo Pettengill.....	1866-'68
Bayou Coteau.....	B. F. Anthonis.....	1860	Sebec.....	Edwin Pitman.....	1864
Independence.....	Col. C. B. Swasey.....	1859	South Thomaston.....	Joshua Bartlett.....	1853-'54
Independence.....	Mrs. M. J. Mankard.....	1860	Standish.....	John P. Moulton.....	1865-'68
Independence.....	Prof. W. P. Riddell.....	1854	Steuben.....	J. D. Parker.....	1849-'50
New Orleans.....	* Dr. E. H. Barton.....	1849, '50	Thomaston.....	George Prince and Chr. Prince.....	1849-'50
		1851-'57	Topsham.....	Warren Johnson.....	1851-'52
		1856-'57	Vassalboro.....	James Van Blarcom.....	1859-'63
		1859, '61	Warren.....	Calvin Bickford.....	1859-'60
New Orleans.....	Lewis B. Taylor.....	1860	Webster.....	Almon Robinson.....	1865-'67
	Dr. S. P. Moore, U. S. A.....	1861	West Waterville.....	B. F. Wilbur.....	1863-'68
New Orleans.....	Harrison Thompson.....	1861	Whitehead.....	Joshua Bartlett.....	1849-'59
New Orleans.....	Robert W. Foster.....	1867-'68			1851-'52
New Orleans.....	E. L. Raulett.....	1868	Williamsburg.....	Edwin Pitman.....	1863, '66
St. Francisville.....	B. R. Gifford.....	1856	Williamsburg.....	E. Pitman.....	1867-'68
Trinity.....	A. R. Kilpatrick, M. D.....	1856-'59	Wyndham.....	Samuel A. Eveleth.....	1849-'50
Trinity.....	Edward Merrill, M. D.....	1856-'58			1851-'56
		1860	MARYLAND.		
Villa plantation.....	Rev. A. K. Teede.....	1867	Agricult'l College, Prince George Co.....	Montg. Johns, M. D.....	1861-'62
MAINE.			Annapolis.....	Prof. W. F. Hopkins.....	1851
Bangor.....	Stephen Gilman.....	1849	Annapolis.....	A. Zumbroek, M. D.....	1855-'56
Bangor.....	C. L. Nelson.....	1851-'59	Annapolis.....	W. R. Goodman.....	1856-'68
Bath.....	G. Emerson Blackwell.....	1852-'64	Baltimore.....	Dr. Lewis F. Steiner.....	1852-'53
Bath.....	Rev. A. G. Gales.....	1852-'62	Baltimore.....	Prof. Alfred M. Mayer.....	1857-'59
Bathford.....	J. G. Garland.....	1851-'59	Baltimore.....	Benj. O. Lowndes.....	1854-'64
		1851-'63	Catoxville.....	George S. Grape.....	1865-'67
Biddeford.....	F. A. Small.....	1854	Chestertown.....	James A. Pearce, jr.....	1855-'57
Blue Hill.....	Rev. S. H. Merrill.....	1854-'55	Chestertown.....	Prof. A. W. Clerk.....	1858
Blue Hill.....	H. H. Osgood.....	1864	Chestertown.....	Rev. A. Sutton.....	1859-'60
Brunswick.....	* Prof. Parker Cleaveland.....	1849-'58	Chestertown.....	Prof. J. Russell Dut- ton.....	1861-'64
Bucksport.....	Rufus Buck.....	1849-'50	Cumberland.....	T. C. Atkinson.....	1849
		1851-'52	Ellicott's Mills.....	Philip Tabb.....	1864
Carmel.....	J. J. Bell.....	1853-'57	Emmitsburg.....	Ell Smith.....	1866-'68
Castine.....	Dr. J. L. Stevens.....	1851	Emmitsburg.....	Prof. C. H. Jourdan.....	1867-'68
Cornish.....	G. W. Guptill.....	1855-'68	Frederick.....	Dr. Lewis F. Steiner.....	1851
Cornish.....	Silas West.....	1857-'68	Frederick.....	Henry E. Hanshaw.....	1852-'54
Dexter.....	B. F. Wilbur.....	1860-'63			1856-'63
East Exeter.....	Stephen Gilman.....	1858	Frederick.....	Miss H. M. Baer.....	1865-'66
East Wilton.....	Henry Reynolds, and Lauriston Reynolds.....	1861-'63	Hagerstown.....	Rev. J. P. Carter.....	1852, '54
			Leitersburg.....	Lewis J. Bell.....	1852
Exeter.....	Dr. J. B. Wilson.....	1860-'61	Leitersburg.....	Jacob E. Bell.....	1858-'62
Foxcroft.....	M. Pitman.....	1863-'64	Leonardtown.....	Dr. Alex. McWilliams.....	1858-'59
Freedom.....	E. A. Buller.....	1859	New Windsor.....	Prof. J. P. Nelson.....	1852
Freeport.....	G. B. Barrows.....	1849-'56	New Windsor.....	Prof. J. F. Maguire.....	1854
Gardiner.....	* Hon. R. H. Gardiner.....	1855-'64	Nottingham.....	A. P. Dalrymple.....	1849
Gardiner.....	Rev. F. Gardiner.....	1864	Oakland.....	L. R. Colrau.....	1857-'58
Gardiner.....	Rev. F. and R. H. Gardiner.....	1865	Port Deposit.....	Henry W. Thorp.....	1849
			Ridge.....	T. G. Stagg.....	1856-'57
Gardiner.....	R. H. Gardiner.....	1866-'68	Sandy Hill.....	Isaac Bond.....	1849
Hartland.....	E. E. Brown, S. W. Hall, L. S. Strick- land, and others.....	1859	Sykesville.....	Prof. William Baer.....	1849-'50
					1851-'52
Hiram.....	Peleg Wadsworth.....	1849-'64	Sykesville.....	Prof. Wm. Baer and Miss H. M. Baer.....	1853-'54
Keilton.....	Milton Welch.....	1849	Sykesville.....	Miss H. M. Baer.....	1855-'65
Lewiston.....	Benj. H. Towle.....	1866-'67	St. Inigoos.....	Rev. Jas. Stephenson.....	1859-'68
Lewiston.....	E. Pitman.....	1864-'66	Union Bridge.....	Warrington Gilling- ham.....	1864
Lewiston.....	W. G. Lord.....	1859-'61			
Lewiston.....	Asa P. Moore.....	1859-'68	Walkersville.....	Josiah Jones.....	1849-'51
Lewiston.....	B. F. Wilbur.....	1856-'59	Woodlawn.....	James O. McCormick.....	1865-'68
Newcastle.....	C. L. Nichols.....	1859	MASSACHUSETTS.		
New Sharon.....	J. F. Pratt, M. D.....	1860-'62	Amherst.....	Prof. E. S. Snell.....	1849-'68
Newburgh.....	A. H. Wyman.....	1859-'60	Baldwinsville.....	Rev. E. Dewhurst.....	1863-'65
Newburgh.....	M. Gould.....	1863-'61	Barnstable.....	B. R. Gifford.....	1852-'53
New Prospect.....	Virgil G. Eaton.....	1867			
Newbury.....	G. W. Verrill, jr.....	1859-'61			

METEOROLOGICAL STATIONS AND OBSERVERS.

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
MASS.—Continued.			MASS.—Continued.		
Boston	E. L. Smith	1857	Worcester	Drs. Ed. A. Smith, F. H. Rice, and others.	1853-'56
Boston	E. L. Adams	1859	Worcester	Dr. Geo. Chandler	1865
Bridgewater	Marshal Conant	1854	Worcester	John S. Sargent and others.	1851
Bridgewater	L. A. Darling	1852-'57	Worcester	Dr. H. C. Prentiss	1857-'58
Bridgewater	C. W. Felt and others.	1858-'59	Worcester	Dr. H. C. Prentiss	1859-'64
Bridgewater	Normal School	1860-'61	Worcester	Joseph Draper, M. D.	1866-'68
Brookline	Rev. John B. Perry	1868			
Byfield	Martin N. R.	1851	MICHIGAN.		
Cambridge	W. C. Bond	1855-'58	Alpena	J. W. Paxton	1865-'68
Cambridge	Harvard College Observatory	1852-'69	Ann Arbor	Dr. H. R. Schetterly	1852
Cambridge	Augustus Fendler	1862-'66	Ann Arbor	L. Woodruff	1862-'54
Canton	D. H. Ellis	1857-'58	Ann Arbor	Prof. A. Winchell	1856-'57
Chelsea	Nava; Hospital	1861-'64	Ann Arbor	L. Woodruff and A. Winchell.	1854
Clinton	Geo. M. Morse, M. D.	1852-'61	Ann Arbor	L. Woodruff and A. Winchell.	1856-'57
Danvers	A. W. Mack	1852-'53	Ann Arbor	L. Woodruff and A. Winchell.	1855
Duxbury	James Riddle	1841	Battle Creek	Dr. W. M. Campbell	1849-'60
Fall River	Charles C. Terry	1842	Brant	Dr. Thos. Whelpley	1848-'54
Fitchburg	George R. Knapp	1841-'61	Brant	Dr. M. K. Taylor	1852-'54
Florida	L. F. Williams	1857-'61	Burr Oak	Charles Berts	1849-'52
Frankingham	Gustavus A. Ripley	1849	Central Mine	S. H. Whittlesey	1867-'68
Georgetown	Henry M. Nason	1842-'67	Clinton	Wm. Van Orden, jr.	1862-'63
Georgetown	S. Augustus Nason	1842-'64	Coldwater	Elmore Wadwright	1851-'52
Grafton	Rev. Wm. G. Sargent	1842-'61	Cooper	N. C. Southworth	1868
Hinsdale	Rev. E. Dewar	1868	Cooper	Mrs. Octavia C. Walker.	1854-'58
Kingston	Giles S. Newcomb	1842-'64	Copper Falls	Chas. S. Whittlesey	1860-'62
Lawrence	John Fenton	1857-'65	Corunna	Heber Crane	1856-'57
Lowell	Charles J. Gauss	1849-'51	Detroit	Wm. A. Raymond	1855
Luzenburg	Geo. A. Cunningham	1848-'68	Detroit	Rev. Geo. Duffield	1849
Lynn	Jacob Bachelder	1849-'50	Detroit	Dr. Zena Pitcher and L. S. Horton.	1849-'56
		1851-'52	Detroit	U. S. Engineers	1858-'60
Mendon	Henry Rice	1849	Detroit	U. S. Engineers	1860-'63
Mendon	Dr. John G. Metcalf	1849-'68	Detroit	Dr. Zena Pitcher	1861-'62
Milton	Rev. A. K. Teale	1867-'68	Eagle River	Mrs. M. A. Goff	1856
Nantucket	Hon. Wm. Mitchell	1853-'61	East Saginaw	Dr. S. F. Mitchell	1854
New Bedford	Thomas Bailey	1849-'51	Flint	Dr. D. Clark	1854-'55
New Bedford	Samuel Rodman	1853-'68	Forestville	Lieut. C. N. Turnbull	1858
New Bedford	Edward T. Tucker	1866-'67	Fort Gratiot	Lieut. C. N. Turnbull, U. S. A.	1858-'59
Newbury	John H. Caldwell	1865-'68	Garlick	Edwin Ellis, M. D.	1864
Newburyport	Dr. H. C. Perkins	1853-'58	Grand Haven	Heber Squier	1859-'63
North Attleboro'	Henry Rice	1851-'58	Grand Rapids	Franklin Everett	1849
North Billerica	Rev. Elias Nason	1866-'68	Grand Rapids	Dr. J. Hollister	1849-'51
Plainfield	Francis Shaw	1857	Grand Rapids	Alfred O. Currier	1854-'58
Princeton	Hon. John Brooks	1853-'57	Grand Rapids	L. H. Streng	1857-'60
Randolph	Orrin A. Reynolds	1861-'62	Grand Rapids	Edwin A. Strong	1860-'61
Richmond	William Bacon	1849-'50	Grand Rapids	J. B. Parker	1864
		1851-'63	Grand Rapids	E. S. Holmes	1865-'68
		1865-'68	Grand Traverse	H. R. Schetterly	1854
Rockport	R. D. Mussey	1854	Holland	L. H. Streng	1860-'63
Roxbury	Benjamin Kent	1849	Homestead	George E. Steele	1865-'68
Sandwich	N. Barrows, M. D.	1863-'65	Houghton	J. B. Minick	1864-'67
South Groton	Alfred Collin	1859	Howell	Dr. H. R. Schetterly	1865-'66
Southwick	Anasa Holcomb	1849-'57	Kalamazoo	Harmon M. Smith	1849-'50
Springfield	Lencus C. Allen	1853-'56	Kalamazoo	Milton Chase	1851-'52
Springfield	Francis A. Brewer	1859	Kalamazoo	Frank Little	1864-'67
Stockbridge	Abraham S. Peet	1849	Lake George	J. H. Foster and Edward Permut	1865-'67
Taunton	Albert Schlegel	1854-'57	Lansing	Cleveland Abbe	1868
Topsfield	Nathan W. Brown	1860-'62	Lansing	J. C. Holmes	1859
Topsfield	John H. Caldwell	1863-'64	Lansing	Prof. R. C. Kozzie	1863-'68
Topsfield	Arthur M. Merriam	1864-'66	Litchfield	R. Bullard	1865-'68
Topsfield	Sidney A. Merriam	1866-'68	Lower Saginaw	James G. Birney	1849
Uxbridge	Dr. James Robbins	1854	Manchester	F. M. Reasner, M. D.	1864
West Dennis	Eugene Tappan	1864	Marquette	Peter White	1857
Westfield	Rev. Dr. E. Davis	1854-'66	Marquette	Dr. G. H. Blaker, jr.	1852-'61
West Newton	John H. Bixby	1867-'68	Marquette	Dr. G. H. Blaker, jr., and F. M. Bacon.	1862-'63
Weymouth	Dr. N. Q. Tirrell	1856-'57	Mill Point	Rev. L. M. S. Smith	1860-'62
		1859	Monroe	Thomas Whelpley	1852
Williamstown	C. M. Freeman	1851-'52	Monroe	Capt. A. D. Perkins	1854
Williamstown	Prof. P. A. Chadbourne	1854	Monroe	Miss H. I. Whelpley	1855-'60
Williamstown	D. J. Holmes, Jas. Orton, Lavallette Wilson, and others.	1854-'57	Monroe	G. W. Bowsby	1859-'61
Williamstown	I. McGee, C. J. Lyons, M. L. Berger & others.	1857-'59			
Williamstown	Astronomical Obsev'y.	1860-'68			
Williamstown	Prof. Albert Hopkins	1868			
Wood's Hole	B. R. Gifford	1854-'55			
Worcester	S. F. Haven	1849-'52			

METEOROLOGICAL STATIONS AND OBSERVERS.

List of Smithsonian meteorological stations and observers—Continued

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
MICHIGAN—Cont'd.			MINNESOTA—Co'd.		
Monroe	Miss Helen I. and Florence Whelpley.	1861	Smithfield	B. C. Livings	1868
Monroe	Miss F. E. Whelpley.	1862-'68	Stillwater	A. Van Voorhies	1858
Monroe Piers	John Lane	1859-'63	St. Anthony's Falls.	C. F. Anderson	1854
Muskegon	H. A. Pattison	1868	St. Cloud	O. E. Garrison	1861-'62
New Buffalo	J. B. Crosby	1857-'62	St. Joseph's	Rev. D. B. Spencer	1853-'55
Northport	H. R. Schetterley	1862-'63	St. Joseph's	A. O. Kellum	1854
Northport	Rev. Geo. N. Smith	1865-'68	St. Paul	Rev. A. B. Paterson, D. D.	1862-'68
Ontonagon	H. Selby	1859-'63	St. Paul	John W. Heimstreet. bury.	1866-'67
Ontonagon	Edwin Ellis, M. D.	1865-'68	Tamarack	Mary A. Grave	1863-'64
Ottawa Point	John Oliver	1859-'61	Travers des Sioux	Rev. R. Hopkins	1849-'51
Osego	Matthew Coffin	1859-'62	Wabashaw	Spencer L. Hillier	1857-'58
Osego	Milton Chase	1861	MISSISSIPPI.		
Ostemo & elsew'e.	Henry H. Mapes	1864-'68	Brook Haven	T. J. R. Keenan	1867-'68
Pennsylvania Mine.	Richard H. Griffith	1868	Columbus	James S. Lull	1855-'59
Pleasanton	Joseph D. Millard	1868	Como	E. W. Beckwith	1849
Pontiac	James A. Weeks	1864	Fayette	Rev. T. H. Cleland	1866-'67
Port Huron	James Allen, jr.	1857-'59	Gainesville	Charles A. Folsom	1849
Port Huron	Geo. A. Stockwell	1860	Garlandsville	Rev. E. S. Robinson	1853-'55
Redford Centre	Chas. C. Smith, M. D.	1861	Granville	James H. Vincent	1849
Romeo	Isaac Stone	1855	Grenada	Wm. Henry Waddell	1854
Romeo	Seth L. and G. F. Andrews.	1856	Grenada	Prof. Albert Moore	1859-'60
Romeo	S. L. Andrews, M. D.	1855, '57	Hernando	Wm. M. Johnston	1859-'60
Saugatuck	L. H. Strong	1854-'56	Jackson	Thomas Oakley	1849-'52
St. James	James J. Strong	1853-'56	Jackson	A. R. Green	1854
Sugar Island	U. S. Engineers	1863	Kingston	J. Edward Smith	1866-'67
Tawas City	U. S. Engineers	1861-'63	Marion	T. W. Florer, M. D.	1868
Thunder Bay	J. I. Malden	1859-'63	McLeod's	David Moore	1849
Ypsilanti	Miss G. Webb	1859	Monticello	J. R. Cribbs	1860-'61
Ypsilanti	C. S. Woodward	1859-'63	Natchez	Geo. L. C. Davis	1849-'51
MINNESOTA.			Natchez	J. Edward Smith	1856
Afton	Dr. B. F. Babcock	1865-'67	Natchez	* R. McCary	1858-'61
Beaver Bay	Thomas Clark	1858-'59	Natchez	W. McCary	1864-'66
Beaver Bay	Henry Wieland	1859-'60	Oxford	Prof. L. Harper	1858-'68
Beaver Bay	Thos. Clark and C. Wieland.	1860	Pass Christian	Rev. J. A. Sheppard	1860
Beaver Bay	C. Wieland	1861-'68	Paulding	Rev. E. S. Robinson	1852-'59
Bowles Creek	Andrew Stouffer	1865-'66	Port Gibson	Prof. J. Boyd Elliott	1855-'57
Buchanan	Stephen Walsh	1857-'58	Prairie Line	Rev. E. S. Robinson	1850-'61
Burlington	A. A. Hibbard	1858-'60	Vicksburg	A. L. Hatch	1849-'52
Cass Lake	Alonzo Barnard	1852	Westville	J. R. Cribbs	1850-'60
Cass Lake Mission.	Rev. B. F. Odell	1856	Yazoo City	Col. C. B. Swasey	1860-'61
Chatfield	T. F. Thickstun	1859-'61	MISSOURI.		
Danville	Thomas A. Kellett	1868	Allenton	Aug. Fendler	1865-'68
Fond du Lac	Rev. Joseph W. Holt	1849-'51	Athens	John T. Caldwell	1864-'66
Forest City	A. C. Smith	1859-'61	Augustus	Conrad Mallinckrodt	1859
Forest City	Henry L. Smith	1862-'66	Bethany	D. J. Heaston	1859-'60
Forest City	Rev. S. W. Mauncey	1854	Bolivar	W. J. Vankirk	1859-'61
Fort Ripley	Richard Bardon	1867	Bolivar	James A. Race	1868
Grand Portage	T. F. Thickstun	1861-'62	Booneville	Norris Sutherland	1859-'61
Hastings	S. R. Riggs	1855-'58	Canton	George P. Ray	1861-'68
Hazelwood	J. B. Clough	1864-'65	Canton	Dr. J. M. Parker	1868
Hennepin county.	O. H. Kelley	1860-'61	Cape Girardeau	Rev. James Knoud	1856-'58
Inasca			Carrollton	John Campbell	1859
Lac qui Parle	Rev. S. L. Riggs	1852-'53	Carrollton	S. J. Huffaker	1859
Lac qui Parle	S. R. and A. L. Riggs	1854	Carrollton	D. J. Kirby	1859
Lake Winnibigoshish.	Rev. Benj. F. Odell	1859	Cassville	M. L. Wyrick	1859-'61
Lapham	E. M. Wright	1857	Charleston	George Whitecomb	1868
Lapham	J. F. McMullen and D. F. Shortwell.	1858	Dry Ridge	O. H. P. Lear	1854-'55
Lapham	Samuel Locke	1858	Dundee	S. S. Bailey	1859-'61
Mankato	Wm. Kilgore	1864	Easton	P. B. Sibley	1864-'65
Minneapolis	Wm. Cheney	1864-'68	Edinburg	John E. Vertrues	1866-'67
New Ulm	Charles Roos	1864-'68	Edinburg	J. C. Agnew	1859-'66
Pajutazee	Rev. S. R. Riggs	1859-'62	Emerson	W. B. Kizer	1859
Pembina	Charles Cavileer	1852	Farmington	Nathan P. Force	1859
Princeon	O. E. Garrison	1856-'60	Fort Pierre	Fred. Behmer	1854
Princeon	S. M. Byers	1860	Greenfield	S. B. Bowles, M. D.	1859-'62
Red Lake	Rev. E. W. Carver	1853-'54	Greenville	O. D. Dalton	1859-'60
Red Wing	Rev. Jabez Brooks	1856	Hannibal	O. H. P. Lear	1853
Red Wing	Prof. A. M. Stephens	1867	Hannibal	Edw'd Duffield, M. D.	1855-'56
Sandy Lake	Samuel Spates	1852	Harrisonville	John Christian	1859-'68
Sank Centre	Smith Bloomfield	1868	Hematite	John M. Smith	1868
Sibley	C. W. Woodbury	1865-'67	Hermann	Philip Weber	1859-'60
Sibley	C. W. and C. E. Wood.	1868			

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
MISSOURI—Cont'd.			NEBRASKA—Con'd.		
Hermitage	Miss Belle Moore	1867-'68	Omaha	James P. Allan	1860-'61
Hornersville	W. H. Horner	1859-'61	Omaha	C. B. Wells	1868
Jefferson City	Nicolas De Wyl	1868	Peru	J. M. McKenzie	1867
Kirksville	Robert Byers, M. D.	1859	Rock Bluffs	H. C. Pardee	1860-'61
Kirksville	J. H. Myers	1859-'63	South Pass wagon road expedition.	C. H. Miller	1859-'60
Laborville	William Muir	1863-'64	NEVADA.		
Lancaster	John M. Weatherford	1859	Star City	R. C. Johnson	1865
Lexington	Joseph A. Wilson	1859	NEW HAMPSHIRE.		
Lexington	Geo. W. Wilson, jr.	1860	Antrim	Rev. Win. Hurlin	1866-'68
Lexington	P. S. Wilson	1861	Claremont	F. N. Freeman	1857-'58
Luray	B. P. Hanan	1859-'61	Claremont	Arthur Chase	1859-'68
Oregon	William Kaucher	1867-'68	Claremont	* Stephen O. Mead	1864-'67
Paris	W. F. Maxey	1859-'62	Claremont	Linus Stevens	1867-'68
Rhineland	Charles Vogel	1859-'60	Concord	Dr. Wm. Prescott	1849-'57
Richmond	R. W. Finley	1859-'60	Concord	H. E. Sawyer	1857-'58
Rockport	C. Q. Chandler, M. D.	1855-'56	Concord	E. P. Colby	1858
Rolla	Homer Ruggles	1867-'68	Concord	John T. Wheeler	1865-'68
Springfield	J. A. Stephens	1857-'58	Concord	James C. Knox	1868
St. Joseph	Edward B. Neely	1857-'58	Dublin	Rev. L. W. Leonard	1849
St. Louis	Dr. Geo. Engelmann	1853-'57			1851-'52
St. Louis	A. Wislizenus, M. D.	1856-'57	Dunbarton	Alfred Colby	1868
St. Louis	G. Engelman, M. D., and A. Wislizenus, M. D.	1858	Exeter	Rev. L. W. Leonard	1853-'55
St. Louis	Augustus Fendler	1859-'64	Exeter	Rev. Elias Nason	1861-'65
St. Louis	* J. H. Lunemann	1860-'62	Farmington	Louis Bell	1860-'61
St. Louis	Rev. P. W. Koning	1861	Francestown	Dr. Martin N. Root	1857
St. Louis	Rev. F. H. Stuntebeck	1865-'68	Francestown	A. H. Bixby	1857-'58
St. Louis	Rev. I. Strautmans	1868	Great Falls	Henry E. Sawyer	1854-'57
Stockton	Wm. Wells	1859-'61	Hanover	Prof. Ira Young and A. A. Young	1853-'54
Toronto	B. D. Dodson	1859-'60	Isle of Shoals	Thos. B. Loughton	1849
Trenton	Thomas J. Conkling	1859	Laconia	J. W. French, agt. L. } Lake Village	1857-'61
Tusumbia	Wm. M. Lumpkin	1859	Littleton	W. C. & W. M. Co. } Robert C. Whiting	1863-'64
Union	Dr. W. Moore	1866	Londonderry	Robert C. Mack	1849-'57
Union	Miss Belle Moore	1867	London Ridge	Isaac S. French, M. D.	1862-'65
Warrensburg	Rev. J. E. Pollock	1868	Manchester	Hon. S. N. Bell	1852-'57
Warrenton	Marion F. Hamaker	1859			1850-'61
Warrenton	Mary A. Tidswell	1859-'63	North Barnstead	R. F. Hanson	1855-'58
Waynesville	B. G. Lingow	1859	North Barnstead	Charles H. Pitman	1860-'68
Westport	Rev. N. Scarritt	1851	North Littleton	Rurus Smith	1850-'60
MONTANA.			North Littleton		1863-'64
Benton City	* Dr. H. M. Lehman	1868	Portsmouth	Dr. C. Chase, U. S. N.	1849
Camp Cooke	* Dr. H. M. Lehman	1867	Portsmouth	John Hatch	1867-'68
Cantonment Wright	T. Koleski	1861-'62	Salmon Falls	George B. Sawyer	1853-'54
Helena City	Alex. Camp Wheaton	1862-'68	Shelburne	Fletcher Odell	1856-'68
NEBRASKA.			Stamford	B. Gould Brown	1855-'58
Bellevue	D. E. Reed	1854	Stamford	Andrew Wiggins	1859-'60
Bellevue	R. v. Wm. Hamaker	1857-'67	Stamford	Branch Brown	1859-'68
Bellevue	Henry M. Burr	1857	Tanworth	Alfred Brewster	1867
Bellevue	Miss L. L. Caldwell	1858	Top of Mt. Wash- ington	Joseph H. Hall	1859
Blackbird Hills	R. v. Wm. Hamaker	1857-'65	Wagaworth	Peter L. Hoyt	1859
Brownville	Charles B. Smith	1857-'60	West Enfield	Nath. Purmort	1856-'58
Dakota City	H. H. Brown	1857-'65	NEW JERSEY.		
Deer Creek	Major Thos. S. Twiss	1859	Belleville	Thos. B. Merrick	1849
De Soto	Charles Seitz	1857-'65	Bloomfield	R. L. Cooke	1849-'58
Elkhorn City	Anna M. J. Bowen	1857-'64	Bloomfield		1862-'63
Elkhorn City	John S. Bowen	1857-'65	Burlington	Prof. Adolph Frost	1849-'54
Fontanelle	John Evans	1859	Burlington	Dr. E. R. Schmidt	1855
Fontanelle		1862-'63	Burlington	Prof. A. Frost and Dr. E. R. Schmidt	1857-'58
Fontanelle	Henry Gibson	1858	Burlington		1856
Fort Pierre	M. C. R. Seeger	1860-'61	Burlington	John C. Deacon	1863-'68
Fort Union	E. T. Denig	1854	Cinnaminson	William Parry	1859-'60
Glendale	A. L. Child, M. D.	1861	Cole's Landing	James S. Lippincott	1864-'66
Glendale		1866-'67	Dover	Howard Shriver	1866-'68
Glendale	Dr. A. C. Child and Miss J. E. Child	1865	Elwood	J. S. Fritts	1867-'68
Jonin	L. J. Hill	1855	Freehold	B. F. Simpson and O. R. Willis	1857-'58
Kenosha	Bela White	1850-'62	Freehold	O. R. Willis	1859-'62
Nebraska City	Edgar E. Mason	1859	Greenwich	Benj. Sheppard	1856-'61
Nebraska City	P. Zahner	1863			
Nurse'y Hill	R. O. Thompson	1865			
Omaha	Wm. N. Byers	1857-'59			
Omaha	John G. Rain	1859-'60			

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
N. JERSEY—Con'd.			N. YORK—Con'd.		
Greenwich	Clarkson Sheppard ..	1864	Clyde	Matthew Mackie	1859-'62
Greenwich	C. Sheppard and Miss R. C. Sheppard ..	1865-'67	Constableville	L. L. Fairchild	1852
Greenwich	Miss R. C. Sheppard ..	1868	Constantia	Sereno Clark	1861
Haddonfield	John Clement, jr ..	1849	Dansville	Rev. John J. Brown ..	1859-'61
Haddonfield	Samuel Wood	1866-'68	Depauville	Henry Hass	1865-'68
Lambertville	Jacob S. Gary	1849	East Franklin	Dr. J. W. Smith	1854
Long Branch	Howard A. Stokes ..	1861, '63	East Henrietta	A. S. Wadsworth	1859-'62
Long Branch	Arch. Alexander ..	1865	Eden	Stephen Landon	1855
Morristown	Dr. S. C. Thornton ..	1849, '61	Eden	Anna S. Landon	1857-'59
Morristown	Miss E. E. Thornton ..	1859	Falconer	Laurens A. Langdon ..	1853-'54
Morristown	Thos. J. Beans	1865-'68	Farmer	A. B. Covert	1859
Morristown	Jos. W. Lippincott ..	1865	Farmingdale	John C. Merritt	1868
Mount Holly	Morgan J. Rhees, M. D	1861-'68	Fishkill Landing	* W. H. Denning	1855-'66
Newark	W. A. Whitehead	1849-'68	Flatbush	Rev. Thos. H. Strong ..	1854-'55
New Brunswick	Prof. Geo. H. Cook ..	1854	Flatbush	Rev. R. D. Van Kleeck	1856-'60
New Brunswick	E. T. Mack	1865-'68	Flatbush	Rev. W. W. Howard ..	1860
New Brunswick	Edwin Allen	1859	Flatbush	Rev. E. T. Mack	1862-'68
New Brunswick	Edwin Allen and G. W. Thompson ..	1860	Fordham	John Aubier	1856
New Brunswick	Geo. W. Thompson ..	1861-'65	Fordham	Claudius Pernot	1856-'57
Newfield	E. D. Conch	1867-'68	Fordham	H. M. Paine, M. D. ..	1858
New Germantown	Arthur B. Noll	1868	Fordham	Rev. Jno. Aubier and Prof. A. T. Monroe ..	1853-'62
Newton	Thos. Ryerson, M. D. .	1868	Fort Ann	P. A. McMore	1863-'66
Passaic Valley	Wm. Brooks	1863-'65	Fort Edward	Prof. Solomon Sias ..	1857-'59
Paterson	Wm. Brooks	1866-'68	Fort Niagara	L. Lefman	1859-'63
Progress	Thos. J. Beans	1863-'65	Fredonia	Prof. D. J. Pratt	1854, '63
Readington	John Fleming	1866-'67	Friendship	George W. Fries	1864
Riceville	Prof. L. Harper	1860-'61	Garrisons	Thos. B. Arden	1866-'67
Rio Grande	Jerusha R. Palmer ..	1868	Geneva	Rev. W. D. Wilson	1863-'68
Salem	C. M. Dodd	1856	Geneva	Job Elleston	1855-'57
Salem	George Watson	1859	Geneva	Wm. Tompkins	1864-'68
Seaville	Barker Cole	1865-'67	Germantown	Rev. Sanford W. Roe ..	1859
Seaville	E. C. Cole	1868	Germantown	Dr. P. O. Williams	1866-'68
Sergeantsville	John T. Sergeant	1857-'58	Gouverneur	Cyrus H. Russell	1852-'54
Trenton	Ephraim R. Cook	1865-'68	Gouverneur	Warren P. Adams	1860-'68
Vineland	Jno. Ingram, M. D. .	1867-'68	Glen's Falls	Kathalo Kelsey	1854
Woodstown	George Watson	1860	Great Valley	Col. E. C. Frost	1859-'60
NEW MEXICO.			Havana	Hector	1859-'60
Pope's Expedition ..	James M. Reade	1855-'57	Hector	David Trowbridge	1865-'67
NEW YORK.			Hermitage	A. A. Hibbard	1860-'62
Adam's Centre	C. D. Potter, M. D. .	1859-'61	Homer	Edwin C. Reed	1855-'57
Albany	H. M. Paine, M. D. .	1865-'66	Houseville	Walter D. Yale	1849-'54
Albion	L. F. Munger	1849-'54	Inst. for Deaf and Dumb, N. Y.	Prof. Oran W. Morris ..	1856-'60
Alps	James H. Ball	1849-'51	Iliion	J. D. Ingersoll	1865-'68
Angelica	E. M. Alba	1854-'58	Jamestown	Rev. Sanford W. Roe ..	1859-'60
Auburn	John B. Dill	1860-'65	Jericho, L. I.	Albert G. Carl	1863-'66
Baldwinsville	John Bowman	1849-'67	Lake	Peter Ried	1849
Beaver Brook	C. S. Woodward	1853-'54	Leroy	L. F. Munger	1856-'58
Bellport	H. W. Titus	1857-'62	Leyden	C. C. Merriam	1854
Beverly	Thos. B. Arden	1853-'59	Liberty	John Felt	1868
Blackwell's Island, N. Y.	W. W. Sanger, M. D. .	1855-'57	Lima	Prof. S. A. Lattimore ..	1855-'56
Brookhaven	E. A. Smith and daughters ..	1868	Little Genesee	Daniel Edwards	1861
Buffalo	A. Hcsmer	1849-'52	Lockport	E. Giddings	1866-'68
Buffalo	Elias O. Salisbury ..	1853-'54	Lockport	James B. Trevor	1849
Buffalo	Dr. S. B. Hunt	1854	Lodi	* John Lefferts	1849-'52
Buffalo	W. D. Allen	1854	Lowville	Irah R. Adams	1854
Buffalo	William Ives	1858-'62	Lowville	J. Carroll House	1854-'58
Buffalo	U. S. Engineers	1866-'68	Lyons	Dr. E. W. Sylvester ..	1859-'62
Canton	E. W. Johnson	1853-'58	Madrid	E. A. Dayton	1849-'59
Cazenovia	Prof. Aaron White ..	1856-'64	Marathon	Lewis Swift	1863
Cazenovia	Prof. Wm. Soule	1865, '67	McGrawville	J. Metcalf Smith	1856-'57
Charlotta	Andrew Mulligan	1859-'63	Mexico	John R. French	1855-'57
Chatham	Cornelius Chase	1849-'51	Minaville	D. S. Bussing and J. W. Bussing	1867
Chatham	C. Thornton Chase ..	1853-'54	Minaville	J. W. Bussing	1868
Clinton	Prof. O. Root	1856	Mohawk	James Lewis	1861-'68
Clinton	H. M. Paine, M. D. .	1857-'59	Morristown	William Day	1859
Clockville	J. P. Chapman	1849	Moriches	E. A. Smith and Miss N. Smith	1864-'67
			Morley	Ezra Parmelee	1849
			Newark Valley	Rev. Samuel Johnson ..	1868
			Newburg	James H. Gardiner	1864-'68
			New York	U. S. Naval Station ..	1849
			New York	J. S. Gibbons	1854

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
N. YORK—Con'd.			N. YORK—Con'd.		
New York	S. De Witt Bloodgood	1854-'55	Spencertown	Levi S. Packard	1861
New York, (East- ern Dispensary.)	Caleb Swann and Dr. J. P. Loines.	1854-'61	Springville	J. W. Earle	1849
New York	Fred. I. Slade	1860-'61	Springville	Moses Lane	1851
New York, (Ruth- erford's Obser- vatory.)	Charles C. Wakely	1860-'63	Stapleton	Spencer L. Hillier	1867-'68
New York	Naval hospital	1860-'68	Suffern	James H. Warren	1863
New York, (N. Y. Skating Club.)	E. B. Cook	1863-'66	Syracuse	Henry L. Dinsmore	1851-'52
New York	Rev. John M. Aubier	1865-'67	Theresa	S. O. Gregory	1861-'68
New York, (Colum- bia College.)	Prof. Chas. A. Joy	1865-'68	Throg's Neck	Francis M. Rogers	1864, '66
New York, (Central Park Obser- vatory.)	Haden Patrick Smith	1867-'68	Throg's Neck	Miss Elizabeth Morris	1865-'68
North Argyle	Geo. M. Hunt	1864	Troy	John W. Heimstreet	1849-'68
North Hammond ..	Charles A. Wooster	1866-'68	Troy	Prof. E. A. H. Allen	1853-'54
North Salem	John F. Jenkins	1849-'53	Troy	Prof. Dascom Greene	1856-'57
North Salem	Mrs. M. J. Lobdell	1855-'56	Troy	Wm. L. Haskin	1860-'61
North Volney	J. M. Partrick	1868	Utica	Dr. L. A. Tourtellot	1856-'57
Nichols	R. Howell	1857-'68	Utica	Joseph Graham	1868
Ogdensburg	W. E. Guest	1849-'52	Vermillion	E. B. Bartlett	1860-'68
Oneida	Dr. Stillman Spooner	1864-'68	Wales	S. O. Carpenter	1854
Oswego	C. Strong	1849	Wampsville	Dr. Stillman Spooner	1853-'63
Oswego	J. H. Hart	1851-'54	Warsaw	J. P. Morse	1865
Oswego	Capt. W. S. Malcolm	1854-'68	Waterburgh	David Trowbridge	1868
Otto	Prof. Weston Flint	1861	Waterford	John C. House	1856-'63
Ovid	J. W. Chickering	1855-'58	Watertown	Dr. P. O. Williams	1855-'57
Palisades	W. S. Gilman, jr	1868	Waterville	James M. Tower	1849-'51
Palmyra	Stephen Hyde	1864-'65	Wellsville	H. M. Sheerer	1857-'58
Peekskill	Charles A. Lee	1854	West Concord	Lewis Woodward	1860
Penn Yan	Dr. H. P. Sartwell	1854-'57	West Day	Jude M. Young	1856-'59
Perry City	David Trowbridge	1864	West Farms	J. S. Gorton	1856-'57
Philipstown	Thos. B. Arden	1851-'52	West Morrisania	I. Zaepffel	1857-'59
Pine Hill	Godfrey Zimmerman	1859-'60	White Plains	O. R. Willis	1862-'68
Plainville	J. H. Norton	1856-'57	Wilson	E. S. Holmes	1858-'64
Plattsburg	Joseph W. Taylor	1855-'57	NORTH CAROLINA.		
Pompey	S. Marshall Ingalls	1857-'58	Asheville	W. W. McDowell	1857-'58
Porpey Hill	John F. Kendall	1856	Asheville	E. J. Aston	1867-'68
Poughkeepsie	Prof. C. B. Waring	1849	Asheville	J. F. E. Hardy, M. D.	1868
Rochester	Prof. Wetherell	1849	Attaway Hill	F. J. Koon	1849-'62
Rochester	* Prof. C. Dewey	1855-'67	Chapel Hill	Prof. James Phillips	1867-'68
Rochester	* Prof. M. M. Matthews	1859-'67	Davidson College	Prof. W. C. Kerr	1849-'61
Rochester	H. Wells Mathews	1868	Gaston	Geo. F. Moore, M. D.	1856-'58
Rochester	W. M. L. Fisk	1868	Goldsborough	Prof. D. Morelle	1855-'58
Sackett's Harbor ..	U. S. Naval Station	1849	Greenboro	Geo. F. Moore, M. D.	1859-'61
Sackett's Harbor ..	Mandrin Linus	1851-'52	Goldsborough	Prof. E. W. Adams	1860-'61
Sackett's Harbor ..	H. Metcalf	1859-'63	Green Plains	Sam'l W. Westbrook	1868
Sag Harbor	E. N. Byram	1849-'55	Guilford Mine	Alexander Wray	1859
Saratoga	Walter H. Riker	1876-'82	Jackson	Rev. Fred. Fitzgerald	1867
Saugerties	R. G. Williams	1863-'66	Kenansville	Prof. N. B. Webster	1852-'54
Saugerties	Jas. W. Grush, Jas. M. Alexander, and Levi S. Packard.	1854-'69	Lake Scuppernon	Rev. J. A. Sheppard	1865
Schenectady	Robert M. Fuller and Haren V. Swart.	1864	Lake Scuppernon	Dr. J. Bryant Smith	1849-'52
Schenectady	Alexis A. Julien	1858-'59	Lineinton	D. Morrell	1851
Schenectady	and H. A. Schaubert.		Marlboro	Dr. J. Bryant Smith	1854
Seneca Falls	Elisha Foote	1849	Marlboro	Robert H. Drysdale	1858
Seneca Falls	John P. Fairchild	1849-'52	Martinsboro	Rev. A. McDowell	1856-'61
Seneca Falls	Chas. A. Avery	1853-'54	Oxford	John H. Mills	1866-'67
Seneca Falls	Philo Cowing	1861-'64	Oxford	Wm. R. Hicks, M. D.	1867-'68
Sennett	Henry B. Fellows	1857	Raleigh	T. Carter and W. H. Hamilton.	1859
Sherburne	Rev. Jas. R. Haswell	1865	Raleigh	W. H. Hamilton	1860
Sing Sing	C. F. M'arvice	1849-'52	Raleigh	Rev. Fisk P. Brewer	1866-'68
Skaneateles	W. M. Beauchamp	1860-'67	Rutherfordtown	J. W. Callaway	1849
Skaneateles	G. W. Potter	1868	Statesville	Thos. A. Allison	1866-'68
Smithville	J. Everett Breed	1849-'52	Thornbury	Rev. F. Fitzgerald	1854
Somerville	Dr. F. B. Hough	1849-'51	Thornbury	Dan. Merelle	1854
South Edmeston ..	L. A. Beardsley	1849-'51	Trinity College	Rev. B. Craven	1860-'61
South Hartford	Greenville M. Ingals- bee.	1863-'68	Warrenton	Dr. W. M. Johnson	1857-'58
South Trenton	Capt. Storrs Barrows	1863-'68	Wilson	E. W. Adams	1866
Spencertown	A. W. Morehouse	1855-'57	OHIO.		
Spencertown	Irving Magee	1838	Andrews	Dr. W. W. Spratt	1860-'61
			Athens	Prof. W. W. Mather	1849-'51
			Austinburg	J. G. Dole and C. S. S. Griffing.	1862-'63
			Austinburg	David S. Alvord	1864
			Austinburg	J. G. Dole	1864
			Austinburg	E. D. Winchester	1864-'66

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
OHIO—Continued.			OHIO—Continued.		
Avon	Rev. L. F. Ward	1858-'60	Hudson	Prof. C. A. Young and E. W. Childs.	1858-'59
Bellecentre	Rev. R. Shields and J. C. Smith.	1857-'59	Hudson	Prof. C. A. Young and A. C. Barrows.	1860-'61
Bellecentre	Rev. Robert Shields..	1854	Hudson	Prof. C. A. Young, E. W. Stuart, J. C. Elliott, W. Pettigill, H. R. Watterson.	1862
Bellefontaine	Joseph Shaw	1855-'60	Hudson	Prof. C. A. Young and J. C. Elliott.	1863
Berea	Prof. G. M. Barber	1854	Huron	Edmund W. West ...	1854
Bethel	George W. Crane	1859-'68	Iberia	S. T. Boyd	1859
Bowling Green	W. R. Peck, M. D.	1857-'63	Jackson	Geo. L. Crookham ...	1849-'54
Bowling Green	John Clarke	1866-'68	Jackson	G. L. Crookham and M. Gilmore.	1855
Breckville	Rev. S. L. Hillier	1859-'61	Jackson	S. B. Wood	1855
Cardington	Hubert A. Schaubert ..	1863	Jackson	M. Gilmore	1857-'58
Centralia	Hubert A. Schaubert ..	1864-'66	Jacksonburgh	J. B. Owsley, M. D.	1868
Cheviot	Ebenezer Hannaford ..	1855-'57	Jefferson	James D. Herrick	1855-'58
Cincinnati	John Lea	1849	Keene	Dr. E. C. Bidwell	1849-'52
Cincinnati	F. W. Hurt	1854	Keene	E. Spooner	1853-'54
Cincinnati	Geo. W. Harper	1857-'58	Kenton	C. H. Smith, M. D.	1862-'63
Cincinnati	A. A. Warder	1859-'63	Kelly's Island	Geo. C. Huntingdon ..	1866-'68
Cincinnati	R. C. & J. H. Phillips ..	1859-'64	Kingston	Prof. Jno. Haywood ..	1859-'68
Cincinnati	Eli T. Tappan	1860-'62	Lafayette	Samuel Knobbe	1867
Cincinnati	R. C. Phillips	1865-'68	Lancaster	Lewis M. Dayton	1857
Cleveland	Gustavus A. Hyde	1851	Lancaster	H. W. Jaeger	1858
Cleveland	Edward Wade	1855-'61	Lancaster	W. E. Davis	1859
Cleveland	Edward Colburn	1858-'63	Lancaster	J. W. Towson	1866
Cleveland	U. S. Engineers	1860-'63	Lebanon	Joseph C. Hatfield ..	1849
Cleveland	G. A. Hyde and Mrs. Hyde.	1862-'67	Little Hocking	James Fraser	1862-'63
Cleveland	T. A. Smurr	1866-'68	Little Mountain	E. J. Ferriss	1867-'68
College Hill	G. S. Ormsby	1854	Madison	Rev. L. S. Atkins	1857-'60
College Hill	Prof. R. S. Bosworth ..	1853-'57	Madison	Mrs. Ardelia C. King ..	1859-'63
College Hill	Prof. J. H. Wilson	1858-'65	Mansfield	F. A. Benton	1851-'52
College Hill	J. W. Hammitt	1859-'68	Marietta	D. P. Adams	1860-'63
College Hill	L. B. Tuckerman	1855-'67	Marietta	Prof. J. W. Andrews ..	1849-'55
Collingwood	Henry Bennett	1856-'57	Marion	H. A. True	1865-'68
Collingwood	Sarah E. Bennett	1858	Marion	T. Chase	1859
Coshocton	Thos. H. Johnson	1861-'62	Martin's Ferry	Charles R. Shreve	1867
Columbus	Theo. G. Wormley	1851, '52	Medina	Rev. L. F. Ward	1857-'58
Croton	Mark Sperry	1860	Medina	Wm. P. Clarke	1858-'63
Croton	Rev. E. Thompson and Mark Sperry.	1861	Middlebury	Michael Beecher	1849
Croton	Rev. Elias Thompson ..	1862-'63	Milnersville	Rev. D. Thompson	1862-'68
Cuyahoga Falls	D. M. Rankin	1864-'65	Monroe county	Enoch D. Johnson	1859
Dallasburg	F. G. Hill	1859-'63	Mount Auburn	Senior class Mt. Auburn Female Inst.	1868
Dayton	Cooper Female Seminary.	1856	Mt. Pleasant	David H. Tweedy	1859-'60
Dayton	Jas. C. Fischer, M. D.	1856	Mount Tabor	William Lapham	1849
Dayton	Lewis Groneweg	1858	Mount Union	Newton Anthony	1857-'60
East Cleveland	Mrs. M. A. Pillsbury ..	1861-'62	Mount Vernon	F. A. Benton	1853-'55
East Fairfield	S. B. McMillan	1859-'67	Mount Victory	W. C. Hampton	1859-'60
East Rockport	Dr. J. P. Kirtland	1854	Newark	Lewis M. Dayton	1854-'55
Eaton	Thomas J. Larsh	1863-'65	Newark	Isaac Dille	1859-'63
Edinburg	Smith Sanford	1857-'58	New Concord	Prof. S. G. Irvine	1849
Franklin	W. L. Schenck, M. D.	1855-'57	New Lisbon	J. F. Benner	1857-'68
Freedom	H. M. Davidson	1859-'60	New Westfield	A. E. Jerome	1862-'63
Freedom	H. M. Davidson and Wilson Davidson.	1861	North Bend	R. B. Warder	1868
Freedom	Wilson Davidson	1862	North Fairfield	O. Burras	1867-'68
Gallipolis	G. W. Livesay	1854-'56	Northwood	Prof. J. R. W. Sloane ..	1852
Gallipolis	A. P. Rogers	1857-'58	Norton	W. D. Watkins	1849
Gallipolis	A. P. Rogers	1864-'68	Norwalk	G. A. Hyde	1854
Garrettsville	Warren Pierce	1861-'63	Norwalk	Rev. Alfred Newton ..	1861-'68
Germantown	L. Groneweg	1852-'56	Oberlin	Profs. Fairchild and Dascomb.	1849-'50
Germantown	J. S. Binkerd	1856-'57	Oberlin	Prof. J. N. Allen	1851-'52
Granville	Prof. P. Carter	1849	Oberlin	Prof. J. H. Fairchild ..	1857
Granville	Dr. S. N. Sanford	1849-'58	Oberlin	Frederick Allen	1853-'56
Harmar	W. G. Fuller	1860-'61	Oberlin	F. Hollenbeck	1860
Hillsborough	Rev. J. McD. Mathews.	1851-'60	Perrysburg	F. Hollenbeck	1854-'56
Hillsborough	Mathews.	1863-'68	Perrysburg	F. and D. K. Hollenbeck.	1858
Hillsborough	C. C. Janes	1857	Perrysburg	F. and D. K. Hollenbeck.	1857
Hillsborough	Dr. C. C. Samms	1863	Portsmouth	James H. Poe	1855-'58
Hiram	S. L. Hillier and S. M. Luther.	1855	Portsmouth	D. B. Cotton, M. D.	1859-'63
Hiram	Spencer L. Hillier	1856	Portsmouth	Lud. Engelbrecht	1863-'65
Hiram	S. M. Luther	1856-'60	Republic	Stephen S. Dorsey	1851
Madison	Dr. John Rhoades	1859-'60	Richmond	Jacob N. Desellem	1854-'55
Madison	Thos. F. Withrow	1852			

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
OHIO—Continued.			PENN.—Continued.		
Ripley	J. Ammen	1857-'61	Byberry	John W. Saurman	1860-'61
Ripley	Dr. G. Bamback	1864-'67	Byberry	Isaac C. Martindale	1861-'67
Ripley	Mrs. M. M. Marsh	1867-'68	Canonsburg	Prof. J. R. Williams	1849
Russell Station	J. W. Gamble	1859-'60	Canonsburg	F. L. Stewart	1855-'61
Sandusky	Thomas Niell	1859-'68	Canonsburg	Rev. Wm. Smith, D. D.	1863-'68
Savannah	Dr. John Ingram	1854-'63	Canonsburg	Charles Davis	1860
Saybrook	Rev. L. S. Atkins	1862-'63	Canonsburg	Lyceum Jefferson Col.	1861-'63
Saybrook	James B. Fraser	1864-'66	Carlisle	Prof. S. F. Baird	1849
Seville	Rev. L. F. Ward	1861-'62	Carlisle	Prof. W. C. Wilson	1855-'59
Sharonville	Wm. F. Bowen	1859-'60	Carlisle	W. H. Cook	1863
Sidney	Joseph Shaw	1857	Carlisle	E. L. McNett	1862
Smithfield	D. H. Tweedy	1866	Carpenter	R. P. Stevens	1849-'54
Smithville	John H. Myers	1864-'66	Ceres	Wm. Haysler, jr.	1858-'62
Smithville	Wm. Hoover	1868	Chromedale	Joseph Edwards	1854-'57
Staubenville	Roswell Marsh	1849-'63	Chromedale	Joseph Edwards and John H. Smedley	1858
Steubenville	J. B. Doyle	1865-'68	Clarksburg	Barnet McElroy	1852
Springfield	Samuel C. Frey	1859-'61	Connellsville	John Taylor	1849-'68
Toledo	Sarah E. Bennett	1859	Darby	John Jackson	1849
Toledo	E. B. Raffensperger	1859	Dyberry	Theodore Day	1865-'68
Toledo	J. B. Trembley, M. D.	1860-'68	Easton	A. R. McCoy	1849
Troy	Charles L. McClung	1859-'63	Easton	Prof. J. H. Coffin	1851
Twinsburg	N. A. Chapman	1860	Easton	E. L. Dodder	1851
Unionville	Miss A. Cunningham	1854-'57	Easton	Selden J. Coffin	1837-'58
Unionville	Mrs. Ardelia C. King	1858	Easton	Selden J. Coffin and G. S. Houghton	1859-'60
Urbana	Prof. M. G. Williams	1855-'68	Easton	Geo. S. Houghton	1861
West Bedford	H. D. McCarty	1856-'57	East Smithfield	James E. Tracy	1859
Welchfield	B. F. Abell	1857-'66	East Smithfield	Benjamin Grant	1849
Wellington	Rev. L. F. Ward	1863	Ephrata	W. H. Spera	1865-'68
Westerville	Prof. Jno. Haywood	1858-'62	Fallsington	Ebenezer Hance	1865-'68
Westerville	Prof. H. A. Thompson	1863-'67	Franklin	Rev. M. A. Tolman	1867-'68
Western Star	A. S. Stuver	1861	Freeport	Dr. A. Alter	1849
West Union	Rev. Wm. Lumsden	1860-'61	Freeport	Andrew Roulston	1849-'51
Wooster	Eugene Pardee	1849	Freeport	A. D. Wier	1854
Wooster	Martin Winger	1864-'68	Freeport	John H. Baird	1860
Williamsport	John R. Wilkinson	1867-'68	Freeport	Samuel Brugger	1856-'67
Windham	Samuel W. Treat	1857-'59	Fleming	S. C. Walker	1868
Yanケットown	A. Jacque	1854	Fountain Dale	S. Ebert	1859
Yellow Springs	W. A. Anthony	1868	Germantown	Thos. Meehan and J. Meehan	1862-'64
Zanesfield	John F. Lukins	1854	Germantown	Thomas Meehan	1859-'61
Zanesville	L. M. Dayton	1856	Germantown	Prof. M. Jacobs	1865-'68
Zanesville	Adam Peters	1859	Gettysburg	Rev. M. Jacobs and D. Eyster	1849-'60
Zanesville	J. G. F. Holston, M.D.	1853-'57	Gettysburg	Rev. M. Jacobs and H. E. Jacobs	1861
OREGON.			Gettysburg	Rev. M. Jacobs and H. E. Jacobs	1862-'65
Albany	S. M. W. Hindman	1865-'68	Grampian Hills	Elisha Fenton	1864-'68
Auburn	R. B. Ironside	1863-'65	Harrisburg	Dr. J. Heisely	1849-'68
Auburn	S. M. W. Hindman	1864-'65	Harrisburg	W. O. Hickok	1857-'64
Corvallis	A. D. Barnard	1866-'68	Harrisburg	K. A. Martin	1860-'61
Fort Snyder	James A. Snyder	1858	Haverford	Dr. Paul Swift	1853-'63
Fort Thompson	W. H. Wagner	1857-'58	Holidayburg	J. R. Lowrie	1853
Oregon City	Geo. A. Atkinson	1851-'52	Honesdale	M. H. Cobb	1852
Portland	Geo. H. Stebbins	1858-'59	Horsham	Miss Anna Spencer	1864-'63
Salem	Thos. H. Crawford	1861	Huntingdon	Wm. Brewster, M. D.	1859
Salem	P. L. Willis	1862-'65	Ickesburg	Wm. E. Baker	1867-'68
PENNSYLVANIA.			Indiana	David Peelor	1849-'51
Abington	Rodman Sison	1864-'68	Indiana	Wm. D. Hildebrand and David Peelor	1858
Altoona	W. R. Boyers	1859-'60	Johnstown	David Peelor	1868
Altoona	Thomas H. Savery	1863	Kingsleys	Francis Schreiner	1852
Andersville	R. Weiser	1854	Lancaster	F. A. Muhlenburg, Jr.	1849
Beaver	Rev. R. T. Taylor	1867-'68	Lancaster	John Wise	1849-'51
Bedford	* Samuel Brown	1852-'58	Latrobe	Prof. Rudolph Muller	1860-'62
Bedford	Rev. H. Heckerman	1859-'61	Latrobe	W. R. Boyers	1861
Bellefonte	J. I. Burrell	1858-'59	Lewisburg	Prof. C. S. James	1855-'60
Bendersville	Franklin W. Cook	1859	Lima	Messrs. Edwards and Miller	1849-'52
Bendersville	T. E. Cook & Sons	1859-'60	Lima	Joseph Edwards	1853
Derwick	John Eggert	1856-'61	Lima	John H. Smedley	1859
Derwick	John Eggert	1863-'65	Linden	James Barrett	1858-'59
Bethlehem	L. R. Huebener	1849	Manchester	Corydon Marks	1849-'52
Bethlehem	Nathan C. Tooker	1867	Meadville	Prof. L. D. Williams	1849-'51
Bethlehem	Prof. A. M. Mayer	1867-'68	Meadville	T. H. Thieksun	1854-'58
Blairstown	W. R. Boyers	1861-'65	Media	Isaac N. Kerlin, M. D.	1860
Blooming Grove	John Grathwohl	1865-'68			
Brookville	D. S. Deering	1854			
Byberry	John Comly	1852-'54			
		1857-'58			

METEOROLOGICAL STATIONS AND OBSERVERS.

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List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
PENN.—Continued.			PENN.—Continued.		
Moorhead	R. L. Walker	1863	Tioga	E. T. Bentley	1863-'68
Morrisville	Ebenezer Hance	1849-'64	Towanda	S. J. Coffin, W. H. Dean, i. H. Kingsbury.	1861
Morrisville	Mahlon Moore	1859	Troy Hill	Victor Scriba	1855-'56
Moss Grove	Francis Schreiner	1853-'57	Uniontown	Freeman Lewis	1849
Mount Joy	Mary E. Hoffer	1857-'58	Valley Forge	C. P. Jones	1849
Mount Joy	Dr. Jacob R. Hoffer	1860-'68	Warrior's Mark	J. R. Lowrie	1854
Murrysville	Thomas H. Stewart	1857-'59	Waynesboro'	Rev. D. J. Eyer	1853-'54
Murrysville	F. L. Stewart	1867-'68	Wellsboro'	Henry W. Thorp	1849
Nazareth	E. T. Kluge	1851	Westchester	Samuel Alsop	1858-'59
Nazareth	E. T. Kluge and E. Kummer.	1852	Westchester	Prof. A. G. Clark and T. H. Aldrich.	1864-'65
Nazareth	H. A. Brickenstein	1855-'57	Westchester	Dr. Geo. Martin	1868
Nazareth	J. C. Harvey	1859-'60	Whitehall Station	Edward Kohler	1859-'60
Nazareth	O. T. Huebner	1861	Williamsport	H. C. Moyer	1864
Nazareth	O. T. Huebner and L. E. Ricksecker.	1862	Worthington	Samuel Scott	1859-'62
Nazareth	L. E. Ricksecker	1863-'66	Youngsville	Dr. A. C. Blodget	1853-'54
New Castle	E. M. McConnell	1866-'68	RHODE ISLAND.		
Norristown	Rev. J. G. Ralston	1851-'63	East Greenwich	E. G. Arnold	1855-'56
Northeast	John T. Milliken	1867	Newport	Samuel Powel	1854
North Whitehall	Edward Kohler	1856-'68	Newport	Wm. H. Crandall	1865-'68
Oil City	James A. Weeks	1863-'64	North Scituate	Henry C. Sheldon	1853-'54
Oxford	Henry Duffield, M. D.	1865	Portsmouth	Geo. Manchester	1854
Paradise	Jacob Frantz	1854-'58	Providence	Prof. A. Caswell	1849-'67
Parkerville	Fenelon Darlington	1859-'63	Providence	H. C. Sheldon	1860-'64
Philadelphia	U. S. Navy-yard	1849	SOUTH CAROLINA.		
Philadelphia	Lt. Jos. Reed, U. S. N.	1849	Aiken	H. W. Ravenel	1854-'56
Philadelphia	Dr. Paul Swift	1849-'52	Aiken	Rev. J. H. Cornish	1857-'61
Philadelphia	J. F. Coorlies	1849-'52	Anderson	E. S. Earle	1867-'68
Philadelphia	Prof. J. A. Kirkpatrick.	1852-'60	Barrattsville	Dr. Jno. P. Barratt	1868
Philadelphia	U. S. Naval Hospital.	1862-'68	Beaufort	Dr. M. M. Marsh and Mrs. Marsh.	1849-'51
Philadelphia	J. C. Martindale, M.D.	1860-'61	Black Oak	Thos. P. Ravenel	1863-'65
Philadelphia	P. Friel	1863	Camden	J. A. Young, M. D.	1858-'61
Philadelphia	Homer Eachers	1864	Camden	T. Carpenter	1849-'51
Philadelphia	Penn'vania Hospital	1864-'65	Charleston	Prof. L. R. Gibbes	1851-'54
Philadelphia	J. M. Ellis	1867	Charleston	Dr. Jos. Johnson	1851
Pittsburg	Edward Fenderich	1849-'51	Charleston	J. L. Dawson, M. D.	1853-'57
Pittsburg	Dr. H. Smyser	1849-'54	Charleston	J. L. Dawson, M. D., and J. L. Dawson, M. D., and G. S. Pelzer, M. D.	1857
Pittsburg	W. W. Wilson	1852-'58	Charleston	Jos. Johnson, M. D., and J. L. Dawson, M. D., and G. S. Pelzer, M. D.	1858-'61
Pittsburg	Wm. Martin	1857	Columbia	Col. W. Wallace	1851
Pittsburg	John Hastings and Wm. Martin.	1855	Columbia	F. H. Harleston	1856
Pittsburg	Wm. Martin and Dr. Alex. M. Speer.	1858	Columbia	Prof. J. B. White	1856
Pittsburg	Dr. Alex. M. Speer	1859-'61	Columbia	Capt. C. C. Tew	1858
Pittsburg	Prof. Rudolph Muller.	1863	Columbia	E. H. Barton, M. D.	1859
Plymouth Meeting.	Marcus H. Corson	1868	Columbia	Sup't Arsenal Acad'y	1859
Pocopson	Fenelon Darlington	1853-'58	Edisto Island	E. N. Fuller	1855-'57
Pottsville	John Hughes	1866-'68	Georgetown	Rev. Alex. Glennie	1859-'61
Pottsville	Dr. A. Heger	1854-'55	Godwysville	Charles Petty	1868
Pottsville	Dr. A. Heger	1855	Hilton Head	Maj. J. W. Abert, U. S. Eng., Capt. C. R. Suter.	1864
Pottsville	Rev. B. R. Smyser	1857	Hilton Head	Maj. C. R. Suter, U. S. Engineers.	1865
Pottsville	D. Washburn	1858	Mount Pleasant	E. N. Fuller, M. D.	1857
Randolph	Orrin T. Hobbs	1851-'52	Orangeburg	Thos. A. Elliott	1849
Reading	John H. Raser	1854-'56	Orangeburg	Joseph T. Zealy	1849
Reading	John H. Raser	1857-'63	St. Johns	H. W. Ravenel	1849-'52
Reading	Dr. J. B. Peale and Charles Hahn.	1858	St. Johns	Thos. P. Ravenel	1859-'60
Scranton	Dr. A. P. Meybert	1858	Waccaman	Rev. Alex. Glennie	1854-'58
Sewickleyville	John I. Travelli	1859-'60	Wilkinsville	Chas. Petty	1866-'67
Sewickleyville	J. I. Travelli and G. H. Tracy.	1861	TENNESSEE.		
Sewickleyville	George H. Tracy	1862	Austin	S. K. Jennings, M. D.	1860-'61
Shamokin	P. Friel	1856-'63	Austin	P. B. Calhoun	1868
Silver Spring	H. G. Bruckart	1863-'68	Chattanooga	Dr. G. H. Blaker	1864
Somerset	Rev. David J. Eyer	1852	Clarksville	Prof. W. M. Stewart	1851-'68
Somerset	Dr. F. Chorpenning	1856	Dixon Springs	Thos. L. Sawyer	1852
Somerset	George Mowry	1857-'61	Dover	B. F. Tavel	1849
Stevensville	J. Russell Dutton	1866-'67			
St. Mary's	Wm. A. Stokes	1849			
Sugar Grove	Lorin Blodget	1849-'51			
Sugar Grove	W. O. Blodgett	1852-'54			
Summit Hill	M. Abbott	1852			
Summitville	Thos. Seabrook	1852			
Susquehanna Depot	H. H. Atwater	1863			
Tarboro'	John H. Baird	1856-'60			

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
TENN.—Continued.			TEXAS—Continued.		
Elizabethton	Charles H. Lewis	1868	New Wied	T. C. Ervendberg	1849-'54
Fayetteville	Dr. W. W. McNulty	1849-'51	New Wied	J. L. Forke	1855-'57
Franklin	Jos. M. Parker, M. D.	1867	Pope's Expedition	James M. Reade	1855-'57
Friendship	Dr. Robert T. Carter	1854-'55	Port La Vaca	James Gardiner	1859
Greenville	S. S. & W. S. Doak	1866-'68	Roundtop	Bruno Shuman	1859-'61
Knoxville	O. W. Morris	1851-'52	San Patricio	J. O. Gaffney	1859-'60
Knoxville	Prof. Geo. Cooke	1853	Sisterdale	Ernest Kapp	1859-'60
Knoxville	Prof. Geo. Cooke and L. Griswold	1854	Springfield	T. A. Turner	1859
Knoxville	T. L. Griswold	1855-'56	Tarrant	Dr. B. L. D'Spain and J. M. Ewing	1859-'60
Knoxville	Stephen C. Dodge	1860	Texana	William Colman	1859
La Grange	J. R. Blake	1859-'60	Turner's Point	James Royal	1861
Lebanon	Prof. A. P. Stewart	1851-'54	Union Hill	Dr. Wm. H. Gant	1857-'61
Lebanon	Prof. B. C. Jilson	1854	Waco	Edward Merrill, M. D.	1867-'68
Lookout Mountain	Edward F. Williams	1866-'67	Washington	B. H. Rucker	1856-'60
Lookout Mountain	Rev. C. F. P. Bancroft	1867-'68	Webbville	Prof. C. W. Yellowby	1859-'61
Memphis	U. S. Navy Yard	1849-'53	Wheelock	F. Kellog	1859-'61
Memphis	R. Harris	1851-'52	Woodboro	Dr. Jas. E. Moke	1859-'60
Memphis	* W. J. Tuck, M. D.	1857-'58			
Memphis	Dr. Daniel F. Wright	1857			
Memphis	Drs. W. J. Tuck and R. W. Mitchell	1859			
Memphis	R. W. Mitchell, M. D.	1860-'61			
Memphis	Edward Goldsmith	1867-'68	Gt. Salt Lake City	H. E. Phelps	1857
Nashville	Prof. Jas. Hamilton	1849	Gt. Salt Lake City	H. E. Phelps and W. W. Phelps	1858
Nashville	Wm. Rothrock	1849	Gt. Salt Lake City	W. W. Phelps	1859-'61
Nashville	James Higgins	1854	Harrisburg	James Lewis	1867-'68
Nashville	Fred. H. French	1867-'68	Heberville	Harrison Pearce	1860-'61
Pomona	J. W. Dodge & Son	1854	Rockville	Andrew L. Siber	1866
Trenton	Prof. Hamilton	1854	St. George	Harrison Pearce	1862-'64
University Place, Franklin county	Chas. R. Barney	1859-'61	St. George	H. Pearce and G. A. Burgon	1865-'66
Walnut Grove	James B. Bean	1856-'57	St. Mary's	Thomas Bullock	1865
Winchester	S. W. Houghton	1859-'60	Vineland	Andrew L. Siber	1864
			Wanship	Thomas Bullock	1866-'68
			Washington	Harrison Pearce	1860
TEXAS.			VERMONT.		
Aransas	Frederick Kaler	1860	Barnet	B. F. Eaton, M. D.	1866-'67
Austin	Dr. Sam'l K. Jennings	1852-'56	Bradford	L. W. Bliss	1856-'57
Austin	J. W. Glenn	1854	Brandon	* D. Buckland	1852-'64
Austin	Dr. S. K. Jennings and J. Van Nostrand	1857	Brandon	Harmon Buckland	1864-'67
Austin	Swante Palm	1858-'64	Brattleboro'	Charles C. Frost	1849-'51
Austin	J. Van Nostrand	1852-'61	Brookfield	T. F. Pollard	1863
Bastrop	J. D. Cunningham	1859	Burlington	Prof. Zadok Thomp- son	1849-'54
Bonham	Prof. Solomon Stias	1859-'60	Burlington	McK. Petty	1857-'64
Boston	G. Freese	1860-'61	Calais	James K. Toby	1861-'64
Boundary Survey	John H. Clark	1859	Cadyville	D. Underwood	1852-'54
Burkeville	Dr. N. P. West	1859-'61	Charlotte	M. E. Wing	1868
Cedar Grove Pln.	Hennell Stevens	1857-'65	Cranebury	Chas. A. J. Marsh	1853-'54
Chappell Hill	W. H. Gantt	1852-'67	Cranebury	James A. Paddock	1855-'67
Columbus	Dr. W. G. De Graaf ferried	1852	East Berlin	Charles L. Paine	1865
Cross Roads	F. S. Wade	1854-'63	East Montpelier	B. J. Wheeler	1855
Dallas	John M. Crockett	1859	Lunenburg	Hiram A. Cutting	1859-'68
Galveston	Drs. C. H. Wilkinson, H. A. McComby, and others	1867	Middlebury	Prof. W. H. Parker	1849-'52
Geological Survey	Geo. G. Shumard	1859	Middlebury	Harmon A. Sheldon	1865-'68
Gilmer	J. M. Glase	1859-'61	Montpelier	D. P. Thompson	1849, '51
Goliad	John C. Brightman	1867-'68	Montpelier	M. M. Marsh	1863
Gonzales	Melvin H. Allis	1859-'61	North Cranebury	Rev. Edward P. Wild A. Jackson	1867-'68
Greenville	Dr. R. De Jernett	1859-'60	Norwich	R. M. Manly	1855-'59
Helena	John C. Brightman	1856-'57	Randolph	Charles L. Paine	1849-'51
Houston	* Dr. A. M. Potter	1862-'65	Randolph	Joseph Parker	1866-'68
Houston	Miss E. Baxter	1862-'63	Rupert	Joseph Parker	1857-'63
Houston	Miss E. Baxter	1867-'68	Rutland	* S. O. Mead	1862-'64
Huntsville	H. Yoakum	1849-'51	Saxes' Mills	J. C. Baker	1855
Huntsville	J. H. Browne	1852	Shelburne	George Bliss	1855-'57
Huntsville	T. Gibbs	1858	Springfield	Rev. J. W. Chickering	1860-'63
Huntsville	T. Gibbs	1858-'60	St. Johnsbury	J. K. Coiby and J. P. Fairbanks	1853-'55
Kaufman	James T. Rayal	1859-'66	St. Johnsbury	Franklin Fairbanks	1857-'61
Kaufman	James Brown	1866	West Fairlee	L. W. Bliss	1858
Jefferson	W. T. Erpperson	1859	Wilmington	Rev. John B. Perry	1866-'67
Larissa	F. L. Yoakum	1858-'60	Woodstock	Charles Marsh	1857-'58
Long Point	M. Rutherford	1867	Woodstock	Lester A. Miller	1867
New Braunfels	A. Forke and Otto Friedrich	1857	Woodstock	H. Doten and L. A. Miller	1868
New Braunfels	Otto Friedrich	1858-'60			

METEOROLOGICAL STATIONS AND OBSERVERS.

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
VIRGINIA.			WASHINGTON TERRITORY.		
Alexandria.....	Rev. C. B. McKee	1858-'59	Fort Colville.....	Capt. Hague	1860-'61
Ashland.....	Benj. Hallowell.....	1849	Fort Steilacoom.....	David Walker, M. D.....	1863-'64
Berryville.....	Samuel Couch.....	1853-'58	Fort Vancouver.....	Dr. Barnes.....	1859
Berryville.....	Miss E. Kownslar.....	1854	Neeah Bay.....	James G. Swan.....	1862-'66
Bridgeton.....	Dr. R. Kownslar.....	1856-'57	Neeah Bay.....	Alexander Sampson.....	1867
Bridgewater.....	C. R. Moore.....	1858-'57	Port Townsend.....	S. S. Bulkeley.....	1867-'68
Buffalo.....	Jed. Hotchkiss.....	1868			
Buffalo.....	Prof. G. R. Rossiter.....	1868, '54	WEST VIRGINIA.		
Buffalo.....	Samuel Couch.....	1851-'54	Ashland.....	Charles L. Roffe.....	1865-'68
Buffalo.....	Wm. R. Boyers.....	1855, '58	Burning Springs.....	Robert H. Bliven.....	1867-'68
Cape Charles.....	* Jas. G. Potts.....	1858-'59	Capon Bridge.....	J. J. Offutt, M. D.....	1857
Charleston.....	Jas. E. Kendall.....	1867-'68	Crackwhip.....	D. H. Ellis.....	1856-'57
Charlottesville.....	Chas. J. Meriwether.....	1856-'57	Grafton.....	D. W. H. Sharp.....	1867-'68
Charlottesville.....	J. Ralls Abell.....	1849-'51	Hampshire county.....	S. J. Harpster.....	1868
Christiansburg.....	Wm. C. Hagan.....	1859-'61	Harper's Ferry.....	L. J. Bell.....	1860
Cobham.....	Chas. J. Meriwether.....	1851	Huntersville.....	Wm. Skeen.....	1851-'56
Cobham Depot.....	Geo. C. Dickinson.....	1852	Kanawha.....	David L. Ruffner.....	1856-'57
Crichton's Store.....	R. F. Astrop.....	1859-'61	Kanawha.....	James E. Kendall.....	1858
Diamond Grove.....	R. F. Astrop.....	1852-'61	Kanawha Salines.....	W. C. Reynolds.....	1860-'61
Falmouth.....	Abraham Van Doren.....	1849-'51	Lewisburg.....	Dr. Wm. N. Patton.....	1858-'59
Fredericksburg.....	Chas. H. Roby.....	1850-'61	Lewisburg.....	Dr. Thos. Patton.....	1851-'52
Fredericksburg.....	B. R. Wellford.....	1849	Lewisburg.....	Thos. Patton and J. W. Stalmaker.....	1853-'57
Fork Union.....	Silas B. Jones.....	1858	Lewisburg.....	J. W. Stalmaker.....	1858
Garysville.....	T. S. Beckwith, M. D.....	1859-'61	New Creek Station.....	Henricks Clark.....	1859-'61
Garysville.....	Julian C. Ruffin.....	1856	Point Pleasant.....	W. R. Boyers.....	1856-'65
Gospert.....	United States Navy Yard.....	1849	Romney.....	Marshall McDonald.....	1858
Hartwood.....	Abraham Van Doren.....	1852	Romney.....	W. H. McDowell.....	1852
Heathsville.....	J. C. Wills.....	1858	Sistersville.....	Enoch D. Johnson.....	1866-'68
Hewlett's.....	J. F. Adams.....	1849	Wardensville.....	D. H. Ellis.....	1857-'58
Holiday's Cove.....	B. D. Sanders.....	1867	Wellsburg.....	B. D. Sanders.....	1855
Johnsontown.....	C. R. Moore.....	1858	Weston.....	Benjamin Owen.....	1859-'61
Leesburg.....	N. F. D. Browne.....	1868	West Union.....	W. C. Quincy.....	1868
Leesburg.....	Samuel X. Jackson.....	1849	Wheeling.....	* Geo. P. Lockwood.....	1855-'56
Lexington.....	Wm. K. Park.....	1854	Wirt.....	Josiah W. Hoff.....	1859-'60
Lexington.....	W. H. Ruffner.....	1861			1856-'58
Lloyd.....	Geo. W. Upshaw.....	1867-'68			
Longwood.....	Thos. J. Wickline.....	1859			
Lynchburg.....	A. Nettleton.....	1857			
Lynchburg.....	Chas. J. Meriwether.....	1854			
Madison.....	Dr. A. M. Grinnan.....	1866-'68			
Meadow Dale.....	James Slaven.....	1867			
Middlesex.....	L. C. Breckenstein.....	1851-'52			
Montealm.....	Chas. J. Meriwether.....	1857-'59			
Montrose.....	H. H. Fautnerley.....	1852			
Montross.....	Edw. E. Spence.....	1854			
Mossy Creek.....	Jed. Hotchkiss.....	1856-'57			
Mount Solon.....	Jas. T. Clarke.....	1858-'59			
Mustapha.....	James Fraser.....	1856-'58			
New England.....	James Fraser.....	1857-'58			
Norfolk.....	United States Naval Hospital.....	1859-'61			
Portsmouth.....	N. B. Webster.....	1868			
Portsmouth.....	Naval Hospital.....	1852-'60			
Powhatan Hill.....	Edward T. Tayloe.....	1800-'61			
Prince Edward.....	Prof. Frs. J. Nuttner.....	1849-'62			
Richmond.....	David Turner.....	1849-'52			
Richmond.....	Chas. J. Meriwether.....	1849-'54			
Richmond.....	John Appleyard.....	1850-'61			
Rose Hill.....	Geo. W. Upshaw.....	1860			
Rougmont.....	Geo. C. Dickinson.....	1857-'58			
Rutliff.....	Julian C. Ruffin.....	1856-'58			
Salem.....	J. Carson Wells.....	1857-'58			
Smithfield.....	John R. Purdie.....	1856-'61			
Snowville.....	J. W. Stalmaker.....	1857-'58			
Staunton.....	J. B. Imboden.....	1867-'68			
Staunton.....	J. C. Covell.....	1849			
Strubling Springs.....	Jed. Hotchkiss.....	1868			
Surry.....	Benj. W. Jones.....	1859			
The Plains.....	John Pickett.....	1867-'68			
Winchester.....	J. W. Marvin.....	1859-'60			
Winchester.....	J. W. Marvin.....	1852-'61			
Wytheville.....	W. D. Roedel.....	1859-'61			
Wytheville.....	Howard Shriver.....	1861			
Wytheville.....	Rev. Jas. A. Brown.....	1865-'66			
		1868			
			Falls of St. Croix.....	M. T. W. Chandler.....	1857
			Falls of St. Croix.....	Wm. M. Blanding.....	1858
			Galesville.....	Wm. Gale.....	1867-'68

List of Smithsonian meteorological stations and observers—Continued.

Name of station.	Name of observer.	Years of observations.	Name of station.	Name of observer.	Years of observations.
Wis.—Continued.			Wis.—Continued.		
Geneva.....	Wm. H. Whiting....	1863-'68	New London.....	J. Everett Breed.....	1857-'58
Green Bay.....	Col. D. Underwood..	1859	Norway.....	John E. Himoe.....	1855-'57
Green Bay.....	Frederick Deckner..	1864-'65	Odanah.....	Edwin Ellis, M. D....	1863-'66
Green Lake.....	C. F. Pomeroy.....	1851-'52	Otsego.....	L. H. Doyle.....	1859-'60
Hartford.....	Judge Hopewell Cox.	1859-'62	Pardeeville.....	S. Armstrong.....	1859-'60
Hingham.....	John De Lyser.....	1867-'68	Platteville.....	Dr. J. L. Pickard.....	1851-'59
Hudson.....	G. F. Livingston.....	1854	Platteville.....	A. K. Johnson.....	1859-'60
Janesville.....	J. F. Willard.....	1853-'58	Plymouth.....	G. Moeller.....	1865-'68
Janesville.....	Geo. J. Kellogg.....	1859	Prescott.....	Spencer L. Hillier....	1857
Janesville.....	Dr. Clark G. Pease..	1860-'61	Racine.....	Rev. Roswell Park....	1856
Janesville.....	Daniel Strunk.....	1862	Racine.....	W. J. Durham.....	1856-'58
Kenosha.....	Rev. John Gridley...	1851-'52	Racine.....	Hiland W. Phelps.....	1860-'61
		1857-'63	Ripon.....	Prof. W. H. Ward.....	1865-'66
Kilbourn City.....	James H. Bell.....	1860-'62	Rocky Run.....	W. W. Curtis.....	1859-'68
Lake Mills.....	Isaac Atwood.....	1859-'62	Rural.....	R. H. Struthers.....	1860-'61
Lobanon.....	J. C. Hicks.....	1864	Southport.....	Rev. John Gridley...	1849
Lind.....	R. H. Struthers.....	1858	Summit.....	Edward S. Spencer....	1851-'54
Madison.....	Prof. S. H. Carpenter.	1853	Superior.....	Wm. H. Newton and	1855
Madison.....	S. H. Carpenter and	1854		L. Washington.....	
	J. W. Sterling.....		Superior.....	L. and R. Washington,	1856
Madison.....	A. Schuc, M. D.....	1856-'58		and C. Loring, jr....	
Madison.....	Prof. J. W. Sterling..	1856-'59	Superior.....	Wm. Mann.....	1850-'63
		1863-'65	Superior.....	G. R. Stuntz and E.	1859-'63
Madison.....	J. Jennings.....	1860		H. Bly.....	
Madison.....	Prof. J. W. Sterling	1860	Waterford.....	S. Armstrong.....	1863
	and S. P. Clarke....		Watertown.....	William Ayres.....	1852
Madison.....	Prof. J. W. Sterling	1861-'62	Waukesha.....	Prof. S. A. Bean.....	1855-'56
	and W. Fellows....				1858-'59
Manitowoc.....	Jacob Lüps.....	1857-'68	Waukesha.....	Prof. S. A. Bean and	1857
Menasha.....	Col. D. Underwood..	1857-'58		L. C. Slye, M. D....	
Milwaukee.....	I. A. Lapham.....	1849-'52	Waupacea.....	J. Everett Breed.....	1856, '65
		1854	Waupacea.....	H. C. Mead.....	1863-'68
		1857-'68	Waupaca.....	C. D. Webster.....	1867
Milwaukee.....	Carl Winkler, M. D..	1854-'67	Wausau.....	W. A. Gordon, M. D..	1859-'60
Milwaukee.....	F. C. Pomeroy.....	1855-'59	Weyauwega.....	Melzar Parker.....	1860-'61
Milwaukee.....	Prof. E. P. Larkin...	1859-'61	Weyauwega.....	William Woods.....	1861-'64
Mosinee.....	J. S. Pashley.....	1859	Weyauwega.....	John C. Hicks.....	1866
Mount Morris.....	Wm. F. Horsford....	1858	Weyauwega.....	* Dr. Jas. Matthews..	1866
New Holstein.....	Ferdinand Hachez...	1865	Whittlesey.....	Edwin Ellis, M. D....	1859-'60
New Lisbon.....	John L. Dunegan....	1867-'68			

Alphabetical list of meteorological observers of the Smithsonian Institution, up to the end of the year 1868.

Name.	State.	Name.	State.
Abbe, Cleveland	Michigan.	Astrop, R. F.	Virginia.
Abbott, M.	Pennsylvania.	Atkins, Rev. L. S.	Ohio.
Abell, B. F.	Ohio.	Atkinson, George A.	Oregon.
Abell, J. Ralls	Virginia.	Atkinson, William A.	Iowa.
Abert, Major J. W.	South Carolina.	Atwater, H. H.	Pennsylvania.
Abert, Thayer	Florida.	Atwood, Isaac	Wisconsin.
Acadia College	Nova Scotia.	Aubier, Rev. J. M.	New York.
Adams, E. L.	Massachusetts.	Austin, W. W.	Indiana.
Adams, Prof. E. W.	North Carolina.	Avery, Charles A.	New York.
Adams, I. R.	New York.	Ayres, W.	Wisconsin.
Adams, J. F.	Virginia.	Ayres, Dr. W. O.	California.
Adams, J. F.	Georgia.	*Babcock, A. J.	Illinois.
Adams, Jno. W.	Maine.	Babcock, Dr. B. F.	Minnesota.
Adams, W. H.	Illinois.	Babcock, E.	Illinois.
Adams, W. P.	New York.	Babcock, E.	Iowa.
Agnew, J. C.	Missouri.	Bachelor, F. L.	Florida.
Agricultural College	Kansas.	Bachelor, J.	Massachusetts.
Alba, E. M.	New York.	Bacon, D. G.	Kansas.
Alcott, W. P.	Massachusetts.	Bacon, E. E.	Illinois.
Aldrich, T. H.	Pennsylvania.	Bacon, Frank M.	Michigan.
Aldrich, Very	Illinois.	Bacon, William	Massachusetts.
Alexander, Arch.	New Jersey.	Baer, Miss H. M.	Maryland.
Alexander, Captain R. E.	Bermuda.	Baer, Prof. W.	Maryland.
Alexander, J. M.	New York.	Bailey, James B.	Florida.
Alison, H. L.	Alabama.	Bailey, S. S.	Missouri.
Allen, Edwin	New Jersey.	Bailey, Thomas	Massachusetts.
Allen, Prof. E. A. H.	New York.	Baird, John H.	Pennsylvania.
Allen, Frederick	Ohio.	Baird, Prof. S. F.	Pennsylvania.
Allen, George D.	Florida.	Baker, Frank	Illinois.
Allen, Prof. G. N.	Ohio.	Baker, J. C.	Vt. & Canada.
Allen, James, jr.	Michigan.	Baker, Miss M. E.	Wisconsin.
Allen, J. P.	Nebraska.	Baker, N. T.	Illinois.
Allen, W. D.	New York.	Baker, William E.	Pennsylvania.
Allin, Lucius C.	Massachusetts.	Baldwin, Dr. A. S.	Florida.
Allis, Melvin H.	Texas.	Baldwin, Elmer	Illinois.
Allison, Jesse	Illinois.	Ball, Miss Ida E.	Iowa.
Allison, Thomas A.	North Carolina.	Ball, Dr. J. E.	Iowa.
Alsop, Samuel	Pennsylvania.	Ball, James H.	New York.
Alter, Dr. D.	Pennsylvania.	Ballou, N. E.	Illinois.
Alvord, D. S.	Ohio.	Bambach, Dr. G.	Ohio.
Ammen, J.	Ohio.	Bancroft, Rev. C. F. P.	Tennessee.
Anderson, C. F.	Minnesota.	Bandelier, Adolphus F., jr.	Illinois.
Anderson, H. H.	Indiana.	Bannister, H. M.	Alaska Ter.
Anderson, Dr. James	Georgia.	Barbage, Joshua C.	Kentucky.
Anderson, W. H.	Indiana.	Barber, Prof. G. M.	Ohio.
Andrews, G. P.	Michigan.	Barker, Thomas M.	Alabama.
Andrews, Prof. J. W.	Ohio.	Barlow, Dennis	Arkansas.
Andrews, Seth L.	Michigan.	Barnard, Alonzo	Minnesota.
Andrus, W. C.	Florida.	Barnard, A. D.	Oregon.
Angell, B. D.	Indiana.	Barnes, C.	Indiana.
Anthozio, B. F.	Louisiana.	Barnes, Dr.	Washington Ter
Anthony, Newton	Ohio.	Barney, Charles R.	Tennessee.
Appleyard, John	Virginia.	Barratt, Rev. J. P.	South Carolina.
Arden, Thos. B.	New York.	Barrett, James	Pennsylvania.
Armstrong, M. K.	Dakota Ter.	Barrows, A. C.	Ohio.
Armstrong, S.	Wisconsin.	Barrows, G. B.	Maine.
Arnold, E. G.	Rhode Island.	Barrows, N.	Massachusetts.
Arnold, James B.	Bermudas.	Barrows, Storrs	New York.
Arnold, Mrs. J. T.	Georgia.	Bartlett, E. B.	New York.
Astron. Observatory, Wil-		Bartlett, Isaac	Indiana.
liams College	Massachusetts.	Bartlett, Joshua	Maine.

*Deceased.

Alphabetical list of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
*Barton, Dr. E. H.	S. Car. and La.	Bly, E. H.	Wisconsin.
Bassett, G. R.	Illinois.	Board of Trade	Nova Scotia.
Batchelder, F. L.	Florida.	Boardman, G. A.	Florida.
Baxter, Miss E.	Texas.	Boerner, C. G.	Indiana.
Beal, Dexter.	Iowa.	Boettner, Gustave A.	Illinois.
Beal, W. W.	Iowa.	Bogert, W. S.	Florida.
Beam, Carlisle D.	Iowa.	Bond, Isaac.	Maryland.
Bean, Dr. James B.	Fla. and Tenn.	*Bond, W. C.	Massachusetts.
Bean, Prof. S. A.	Wisconsin.	Bosworth, Prof. R. S.	Ohio.
Beans, Thomas J.	New Jersey.	Boucher, W. K.	California.
Beardsley, L. A.	New York.	Bowen, Miss Anna M. J.	Kansas.
Beatty, O.	Kentucky.	Bowen, J. S.	Kansas.
Beauchamp, W. M.	New York.	Bowen, Wm. F.	Ohio.
Beckwith, E. W.	Mississippi.	Bowles, Dr. S. B.	Missouri.
Beckwith, Dr. T. F.	Virginia.	Bowlsby, G. W.	Michigan.
Beckwith, W.	Kansas.	Bowman, E. H.	Illinois.
Beecher, Michael.	Ohio.	Bowman, John.	New York.
Behmer, Frederick.	Missouri.	Boyd, S. T.	Ohio.
Belcher, W. C.	California.	Boyers, W. R.	Pennsylvania.
Belfield H. H.	Iowa.	Boyle, C. R.	Iowa.
Bell, Miss E. M. A.	Illinois.	Brackett, G. E.	Maine.
Bell, Jacob E.	Maryland.	Brayton, Jas. C.	Wisconsin.
Bell, James H.	Wisconsin.	Brayton, Milton.	Sombrero Isl'd.
Bell, J. J.	Maine.	Breckenstein, L. C.	Virginia.
Bell, Louis.	New Hampshire.	Breed, J. Everett.	N. Y. and Wis.
Bell, L. J.	Virginia.	Breed, M. A.	Illinois.
Bell, Lewis J.	Maryland.	Brendel, Dr. E.	Illinois.
Bell, Hon. S. N.	New Hampshire.	Brendel, Dr. F.	Illinois.
Benagh, George.	Alabama.	Brewer, Rev. Fisk P.	North Carolina.
Benner, J. F.	Ohio.	Brewer, F. A.	Massachusetts.
Bennett, Henry.	Ohio.	Brewster, Alfred.	New Hampshire.
Bennett, Sarah E.	Ohio.	Brewster, Wm., M. D.	Pennsylvania.
Benton, F. A.	Ohio.	Brickenstein, Rev. H. H.	Illinois.
Berendt, G.	Mexico.	Brinkerhoff, G. M.	Illinois.
Berger, M. L.	Massachusetts.	Briggs, E. L.	Iowa.
Berky, W. H.	Kansas.	Brightman, J. C.	Texas.
Berthoud, E. L.	Ky., Kas., & Col.	Brooks, Rev. Jabez.	Minnesota.
Betts, Charles.	Michigan.	Brooks, Hou. J.	Massachusetts.
Bickford, Calvin.	Maine.	Brooks, Wm.	New Jersey.
Bidwell, Dr. E. C.	Iowa and Ohio.	Brookes, Samuel.	Illinois.
Binker, J. S.	Ohio.	Brown, Branch.	New Hampshire.
Birney, James G.	Michigan.	Brown, B. G.	New Hampshire.
Bixby, A. H.	N. H., Ky., & Ind.	Brown, E. E.	Maine.
Bixby, J. H.	Massachusetts.	Brown, G. W.	Kansas.
Blackman, W. J. R.	Kansas.	Brown, H. H.	Kansas.
Blackwell, Thomas.	Canada.	Brown, James.	Texas.
Blackwell, W. H.	Arkansas.	Brown, Rev. J. J.	New York.
Blake, H.	Indiana.	Brown, J. W.	Illinois.
Blake, J. R.	Tennessee.	Brown, N. W.	Massachusetts.
*Blaker, Dr. G. H.	Tenn. and Mich.	Brown, Prof. P. P.	Illinois.
Blakeslee, Rev. S. V.	California.	Brown, P. P.	Ind. Ter.
Blanchard, Orestes A.	Illinois.	*Brown, Samuel.	Pennsylvania.
Blanding, William M.	Wisconsin.	Brown, W. B. G.	New Hampshire.
Blewitt, Rev. W.	Georgia.	Browne, J. H.	Texas.
Bliss, George.	Vermont.	Browne, N. F. D.	Virginia.
Bliss, L. W.	Vermont.	Brown, O. H.	Kansas.
Bliven, Robert H.	West Virginia.	Bruckart, H. G.	Pennsylvania.
Blodgett, Dr. A. C.	Pennsylvania.	Brugger, S.	Pennsylvania.
Blodget, Lorin.	Pennsylvania.	Bryant, A. F.	Iowa.
Blodget, W. O.	Pennsylvania.	Bryant, C. H.	Illinois.
Bloodgood, S. De Witt.	New York.	Buck, Rufus.	Maine.

* Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
*Buckland, D.	Vermont.	Chapman, J. P.	New York.
Buckner, Rev. H. F.	Arkansas.	Chapman, N. A.	Ohio.
Bulkeley, S. S.	Wash. Ter.	Chappelsmith, J.	Indiana.
Bullard, Ransom.	Michigan.	Chase, Arthur.	New Hampshire.
Buller, E. A.	Maine.	Chase, Dr. Charles.	New Hampshire.
Bullock, J. T.	Indiana.	Chase, Cornelius.	New York.
Bullock, Thomas.	Utah.	Chase, C. Thornton.	New York.
Burgon, G. A.	Utah.	Chase, Milton.	Michigan.
Burras, O.	Ohio.	Chase, T.	Ohio.
Burrell, J. I.	Pennsylvania.	Cheney, W.	Minnesota.
Burris, Dr. Robert.	Arkansas.	Chickering, J. W.	New York.
Burroughs, R.	Indiana.	Chickering, Rev. J. W.	Vermont.
Burt, Henry M.	Nebraska.	Child, Dr. A. L.	Nebraska.
Burton, John.	Delaware.	Child, Miss J. E.	Nebraska.
Bush, Rev. Alva.	Iowa.	Childs, E. W.	Ohio.
Bussing, D. S.	New York.	Chorpenning, Dr. F.	Pennsylvania.
Bussing, J. W.	New York.	Christian, John.	Missouri.
Butterfield, W. W.	Indiana.	Clark, Prof. A. G.	Pennsylvania.
Butterfield, Mrs.	Indiana.	Clark, Prof. A. W.	Maryl'd & Wis.
Byers, Dr. Robert.	Missouri.	Clark, Dr. D.	Michigan.
Byers, S. M.	Minnesota.	Clark, Sereno.	New York.
Byers, William N.	Nebraska.	Clark, Hendricks.	West Virginia.
Byram, E. N.	New York.	Clark, Thomas.	Minnesota.
Byrne, Arthur M.	Illinois.	Clark, W. P.	Ohio.
Calder, J. G.	Bermudas.	Clarke, John.	Ohio.
Caldwell, John H.	Massachusetts.	Clarke, J. T.	Virginia.
Caldwell, John T.	Missouri.	Clarke, Lawrence, jr.	Hud. Bay Ter.
Caldwell, R. H.	Kentucky.	Clarke, Mrs. Lawrence.	Hud. Bay Ter.
Calhoun, P. B.	Tennessee.	Clarkson, Rev. D.	Kansas.
Calloway, J. W.	North Carolina.	Cleland, Rev. T. H.	Kent'y & Miss.
Camp, Benjamin F.	Georgia.	Clement, John, jr.	New Jersey.
Camp, E. P.	Kansas.	Clough, J. B.	Minnesota.
Campbell, J.	Missouri.	Cockburn, S.	Honduras.
Campbell, Dr. W. M.	Michigan.	Cobb, M. H.	Pennsylvania.
Canfield, Dr. C. A.	California.	Cobb, M. H.	Connecticut.
Cantril, J. E.	Illinois.	Cobbs, Rev. R. A.	Alabama.
Canudas, Ant.	Guatemala.	Cobleigh, Prof. N. E.	Illinois.
Capen, E.	Illinois.	Coffin, Prof. J. H.	Pennsylvania.
Carey, Daniel.	Illinois.	Coffin, Matthew.	Michigan.
Carl, Albert G.	New York.	Coffin, Selden J.	Pennsylvania.
*Carothers, A. G.	Bahamas.	Coffin, Prof. William.	Illinois.
Carpenter, B.	Iowa.	Cofrau, L. R.	Maryland.
Carpenter, Prof. S. H.	Wisconsin.	Colburn, Ed.	Ohio.
Carpenter, S. O.	New York.	Colby, Alfred.	New Hampshire.
Carpenter, T.	South Carolina.	Colby, E. P.	New Hampshire.
Carter, J. H.	Louisiana.	Colby, J. K.	Vermont.
Carter, Rev. J. P.	Maryland.	Cole, Barker.	New Jersey.
Carter, Prof. P.	Ohio.	Cole, E. C.	New Jersey.
Carter, Dr. Robert T.	Tennessee.	Coleman, J. A.	Alabama.
Carter, Thomas.	North Carolina.	Collier, Alfred.	Massachusetts.
Carver, Rev. E. W.	Minnesota.	Collier, D. C.	Colorado.
Carver, Dr. R. T.	Tennessee.	Collier, Prof. George H.	Illinois.
Case, Dr. C. D.	Kentucky.	Collin, Prof. Alonzo.	Iowa.
Case, Jarvis.	Connecticut.	Collins, Rev. Samuel.	Indiana.
Caswell, Prof. A.	Rhode Island.	Collins, Colonel W. O.	Idaho.
Caswell, Rev. R. C.	Newfoundland.	Colman, William.	Texas.
Cavleer, Chas.	Minnesota.	Comings, G. P.	Missouri.
Chadbourne, Prof. P. A.	Mass. & Conn.	Comly, John.	Pennsylvania.
Chamberlain, J.	Iowa.	Conant, Marshall.	Massachusetts.
Chandler, Charles Q.	Missouri.	Conkling, Thomas J.	Missouri.
Chandler, Dr. George.	Massachusetts.	Connolly, H.	Hud. Bay Ter.
Chandler, M. T. W.	Wisconsin.	Cook, E. B.	New York.

* Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Cook, Ephr. R.	New Jersey.	Darlington, F.	Pennsylvania.
Cook, F. W.	Pennsylvania.	Dascomb, Professor.	Ohio.
Cook, Prof. George H.	New Jersey.	Davidson, H. M.	Ohio.
Cook, Thomas E., & Sons.	Pennsylvania.	Davidson, W.	Ohio.
Cook, W. H.	Pennsylvania.	Davies, James F.	Arkansas.
Cooke, Prof. George.	Tennessee.	Davis, Charles.	Pennsylvania.
Cooke, R. L.	New Jersey.	*Davis, Rev. Dr. Emerson.	Massachusetts.
Cooper Female Seminary.	Ohio.	Davis, George L. C.	Mississippi.
Cooper, Dr. George F.	Georgia.	Davis, R. J.	Virginia.
Coorlies, J. F.	Pennsylvania.	Davis, W. E.	Ohio.
*Corey, Henry M.	Florida.	Dawson, John L.	South Carolina.
Cornette, Rev. A.	Alabama.	Dawson, W.	Indiana.
Cornish, Rev. J. H.	South Carolina.	Day, Theodore.	Pennsylvania.
Corse, John M.	Iowa.	Day, William.	New York.
Corson, Rev. Marcus H.	Pennsylvania.	Dayton, E. A.	New York.
Cotting, J. M.	Georgia.	Dayton, Lewis M.	Ohio.
Cotton, Dr. D. B.	Ohio.	Dayton, James H.	Indiana.
Couch, E. D.	New Jersey.	Deacon, John C.	New Jersey.
Couch, Samuel.	Virginia.	Dean, W. H.	Pennsylvania.
Coues, Dr. E.	Arizona.	Dearing, D. S.	Pennsylvania.
Coulter, B. F.	Arkansas.	Deckner, Frederick, & Son.	Georgia & Wis.
Covell, J. C.	Virginia.	Deem, D.	Indiana.
Coventry, W. B.	Indiana.	Deering, D. S.	Iowa & Penn'a.
Covert, A. B.	New York.	De Graffenreid, Dr. W. G.	Texas.
Cowing, Philo.	New York.	De Jernett, Dr. R.	Texas.
Cox, Judge Hopewell.	Wisconsin.	De Lyser, J.	Wisconsin.
Craigie, Dr. W.	Canada West.	*Delaney, E. M. J.	Newfoundland.
Crandall, William H.	Rhode Island.	*Delaney, John, jr.	Newfoundland.
Crandon, F.	Illinois.	Denig, E. T.	Nebraska.
Crane, George W.	Ohio.	Denison, H. L.	Kansas.
Crane, Heber.	Michigan.	*Denning, W. H.	New York.
Craven, Rev. B.	North Carolina.	Dennis, W. C.	Florida.
Craven, Thomas J.	Delaware.	Desellen, J. N.	Ohio.
Crawford, R.	Delaware.	*Dewey, Prof. C.	New York.
Crawford, W. A.	Delaware.	Dewhurst, Rev. E.	Me., Mass., & Ct.
Crawford, T. H.	Oregon.	De Wyl, N.	Missouri.
Cribbs, J. R.	Mississippi.	D'Spain, Dr. B. L.	Texas.
Crisp, John F.	Indiana.	Dickinson, George C.	Virginia.
Crisson, J. C.	Bahamas.	Dickinson, James P.	Iowa.
Crocker, Allen.	Kansas.	Dickson, Walter.	Hud. Bay Ter.
Crockett, John M.	Texas.	Dick, John B.	New York.
Croft, Charles.	California.	Dile, Israel.	Ohio.
Crookham, George L.	Ohio.	Dinsmore, H. L.	New York.
Crosby, J. B.	Michigan.	Dinsmore, O.	Wisconsin.
Crozier, Dr. E. S.	Indiana.	Doak, S. S.	Tennessee.
Crowther, Benjamin.	Mexico.	Doak, W. S.	Tennessee.
Cumming, S. J.	Alabama.	Dodd, Prof. C. M.	Indiana.
Cunningham, Miss Ardelia.	Ohio.	Dodder, E. L.	Pennsylvania.
Cunningham, G. A.	Massachusetts.	Dodge, J. W., & Son.	Tennessee.
Cunningham, J. D.	Texas.	Dodge, Stephen C.	Tennessee.
Currier, Alfred O.	Michigan.	Dodson, B. D.	Missouri.
Curtis, W. W.	Wisconsin.	Dole, J. G.	Ohio.
Cutler, Prof. E.	Connecticut.	Dorat, Dr. Charles.	Sau Salvador.
Cutting, Ephr.	California.	Dorsey, S. P.	Ohio.
Cutting, Hiram A.	Vermont.	Dorweiler, P.	Iowa.
Dall, W. H.	Alaska Territ'y.	Doten, H.	Vermont.
Dalrymple, A. P.	Maryland.	Doughty, William H.	Georgia.
Dalton, O. D.	Missouri.	Doyle, Joseph B.	Ohio.
Dana, William D.	Maine.	Doyie, L. H.	Wisconsin.
Darby, Prof. John.	Georgia & Ala.	Draper, Dr. Joseph.	Massachusetts.
Darling, L. A.	Massachusetts.		

* Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Drew, Dr. F. P.	Kansas.	Farnsworth, P. J.	Iowa.
Drummond, Rev. J. H.	Kansas.	Fauntleroy, H. H.	Virginia.
Drvsdale, Robert H.	North Carolina.	Featherston, G. W.	Arkansas.
Dubois, H. G., jr.	Connecticut.	Fellows, H. B.	New York.
Dudley, T.	Illinois.	Fellows, W.	Wisconsin.
Duffield, Dr. E.	Missouri.	Felt, C. W., and others. .	Massachusetts.
Duffield, Rev. Dr. George. .	Michigan.	Felt, John.	New York.
Duffield, Dr. H.	Pennsylvania.	Female College, Arkadel-	
Duncan, Rev. Alexander. .	Illinois.	phia.	Arkansas.
Dungan, John L.	Wisconsin.	Fenderick, E.	Pennsylvania.
Dunkum, Mrs. E. S.	California.	Fendler, Aug.	Massachusetts.
Dunkum, W. L.	California.	Fendler, Aug.	Missouri.
Dunwoody, W. P.	Iowa.	Ferguson, G. F.	Florida.
Durham, W. J.	Wisconsin.	Ferriss, E. J.	Ohio.
Dutton, J. Russell.	Pennsylvania.	Finfrock, J. H.	Idaho.
Eachers, Homer.	Pennsylvania.	Finley, A. J.	Iowa.
Earle, E. S.	South Carolina.	Finley, H. S.	Iowa.
Earle, J. W.	New York.	Finley, P. F.	Arkansas.
Earle, Silas.	California.	Finley, R. W.	Missouri.
Easter, Prof. J. D.	Georgia.	Fischer, Dr. James C. .	Ohio.
Eaton, Dr. B. F.	Vermont.	Fish, Edmund.	Kansas.
Ebert, S.	Pennsylvania.	* Fish, Lucien.	Kansas.
Eddy, Levens.	Wisconsin.	Fisher, Dr. J. C.	Ohio.
Edgerly, L. G.	Illinois.	Fisher, Dr. Galen, M. .	Florida.
Edwards, Daniel.	New York.	Fiske, W. M. L.	New York.
Edwards & Miller.	Pennsylvania.	Fitch, Dr. Joseph. .	Illinois.
Edwards, Joseph.	Pennsylvania.	Fitzgerald, Rev. F. .	North Carolina
Edwards, Rev. Dr. Tryon. .	Connecticut.	Fleming, John.	New Jersey.
Eggert, John.	Pennsylvania.	Flett, Andrew.	Hud. Bay Ter.
Eldridge, Rev. W. V.	Illinois.	Flint, Prof. W.	New York.
Elletson, Job.	New York.	Flippin, W. B.	Arkansas.
Ellis, D. H.	Massachusetts.	Florer, Thomas W.	Mississippi.
Ellis, D. H.	Virginia.	Foote, Elisha.	New York.
Ellis, J. M.	Pennsylvania.	Folsom, C. A.	Mississippi.
Ellis, Dr. Edwin.	Mich. & Wis.	Force, N. P.	Missouri.
Ellis, Dr. W. T.	Colorado & Kas.	Forey, J. C.	Iowa.
Elliott, Jonathan.	St. Domingo.	Forke, A.	Texas.
Elliott, Prof. J. Boyd. .	Mississippi.	Forke, J. L.	Texas.
Elliott, J. C.	Ohio.	Foster, J. H.	Michigan.
Elliott, T. A.	South Carolina.	Foster, Robert W.	Louisiana.
Ellsworth, J.	Illinois.	Foster, W. L.	Alabama.
Ellsworth, Lewis.	Illinois.	Foye, Prof. J. C.	Wisconsin.
Ellsworth, M. S.	Illinois.	Frantz, Jacob.	Pennsylvania.
Elstun, W. J.	Indiana.	Fraser, James.	Ohio.
Engelbrecht, Lud.	Ohio.	Fraser, James.	Virginia.
Engelmann, Dr. George. .	Missouri.	Fraser, James B.	Ohio.
Epperson, W. T.	Texas.	Freeman, F. N.	New Hampshire.
Ervendberg, Dr. L. C.	Mexico.	Freeman, H. C.	Illinois.
Ervendberg, T. C.	Texas.	Freese, G.	Texas.
Evans, John.	Nebraska.	French, Fred. H.	Tennessee.
Eveleth, S.	Maine.	French, I. S.	New Hampshire.
Eveleth, Samuel A.	Maine.	French, J. B.	New Hampshire.
Everett, Franklin.	Michigan.	French, J. R.	New York.
Ewing, J. M.	Texas.	Frey, Samuel C.	Texas.
Eyler, Rev. D. J.	Pennsylvania.	Friedrich, Otto.	Texas.
Eyster, D.	Pennsylvania.	Friel, P.	Pennsylvania.
Fairall, H. H.	Iowa.	Fries, G. W.	New York.
Fairchild, Prof. J. H.	Ohio.	Fritts, J. S.	New Jersey.
Fairchild, John P.	New York.	Frombes, Prof. Oliver S. .	California.
Fairbanks, F.	Vermont.	Frost, Prof. A.	New Jersey.
Fairbanks, J. P.	Vermont.	Frost, C. C.	Vermont.
Fallon, John.	Massachusetts.	Frost, Colonel E. C.	New York.

* Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Fry, Lieutenant Joseph...	Florida.	Grant, C. W.	Illinois.
Fuller, Dr. E. N.	South Carolina.	Grant, Miss Ellen	Illinois.
Fuller, R. M.	New York.	Grant, J.	Illinois.
Fuller, W. G.	Ohio.	Grant, Dr. W. T.	Georgia.
Gaffney, J. O.	Texas.	Grape, George S.	Maryland.
Gaines, Rev. A. G.	Maine.	Grathwohl, J.	Pennsylvania.
Gale, W.	Wisconsin.	Grave, Mary A.	Minnesota.
Gamble, J. W.	Ohio.	Green, A. R.	Mississippi.
Gantt, Dr. W. H.	Texas.	Greene, Prof. Dascom	New York.
Gardiner, James	Texas.	Gregory, S. O.	New York.
Gardiner, J. H.	New York.	Gridley, Rev. J.	Wisconsin.
Gardiner, R. H.	Maine.	Griest, John	Indiana.
* Gardiner, Hon. R. H.	Maine.	Griest, Miss M.	Indiana.
Garland, J. G.	Maine.	Griffing, Henry	Illinois.
Garland, Samuel G.	Bahamas.	Griffith, R. H.	Michigan.
Garrison, O. E.	Minnesota.	Grinnell, J.	Kentucky.
Garvin, Dr. P. C.	Florida.	Griswold, L.	Tennessee.
Gary, Jacob S.	New Jersey.	Griswold, T. L.	Tennessee.
Gay, Thomas	Wisconsin.	Groesbeck, Mrs. E. W.	Kansas.
Gay, V. P.	Illinois.	Groff, T. Louis.	Illinois.
Gibbes, Prof. L. R.	South Carolina.	Groneweg, L.	Ohio.
Gibbon, Lardner	Florida.	Guest, W. E.	New York.
Gibbons, H.	California.	Gunn, Donald	Hud. Bay Ter.
Gibbons, J. S.	New York.	Guptill, G. W.	Maine.
Gibbs, T.	Texas.	Haas, Henry	New York.
Gibson, H.	Nebraska.	Habersham, S. E.	Georgia.
Gibson, R. T.	Georgia.	Hachez, Ferd.	Wisconsin.
Giddings, Rev. George B.	Illinois.	Hagan, W. E.	Virginia.
Gidley, I. M.	Iowa.	Hagensick, J. M.	Iowa.
Gifford, B. R.	Louisiana.	Hague, Captain.	Washington Ter
Gifford, R. R.	Massachusetts.	Hahn, Charles	Pennsylvania.
Giles, F. W.	Kansas.	Haines, John	Indiana.
Gill, Joseph H.	Illinois.	Haines, William	Georgia.
Gillingham, W.	Maryland.	Hall, Dr. A.	Canada.
Gilliss, Charles J.	Massachusetts.	Hall, Joel	Illinois.
Gilman, Stephen	Maine.	Hall, Joseph H.	New Hampshire
Gilman, W. H.	Kansas.	Hall, S. W.	Maine.
Gilman, W. S., jr.	New Ycrk.	Hallowell, Benjamin.	Virginia.
Gilmore, M.	Ohio.	Hamaker, Marion F.	Missouri.
Gilmour, A. H. J.	Canada.	Hamilton, Prof. J.	Tennessee.
Glasco, J. M.	Texas.	Hamilton, Captain W.	Bahamas.
Glenn, J. M.	Texas.	Hamilton, Rev. W.	Nebraska.
Glennie, Rev. Alex.	South Carolina.	Hamilton, W. H.	North Carolina.
Glover, Eli S.	Georgia.	Hammitt, J. W.	Ohio.
Goff, Mrs. M. A.	Michigan.	Hampton, W. C.	Ohio.
Gold, T. S.	Connecticut.	Hanan, B. P.	Missouri.
Goldsmith, E.	Tennessee.	Hance, Ebenezer	Pennsylvania.
Goodman, W. R.	Maryland.	Hanna, G. B.	Massachusetts.
Goodnow, I. T.	Kansas.	Hannaford, E.	Ohio.
Gordon, Robert	California.	Hanscom, R. F.	New Hampshire.
Gordon, Dr. W. A.	Wisconsin.	Haushew, Henry E.	Maryland.
Gorton, J. S.	New York.	Harding, Colonel Horace.	Alabama.
Goss, B. F.	Kansas.	Hardy, H. F.	Arkansas.
Goss, George C.	Iowa.	Hardy, Dr. J. F. E.	North Carolina.
Goss, W. K.	Iowa.	Harkness, W.	New York.
Gould, Lewis A.	California.	Harper, G. W.	Ohio.
Gould, M.	Maine.	Harper, Prof. L.	New Jersey.
Graham, J.	New York.	Harper, Prof. L.	Mississippi.
Graham, Paul.	Arkansas.	Harris, A. J.	Alabama.
Grant, Benjamin	Pennsylvania.	Harris, Dr. J. O.	Illinois.
Grant, Charles	Georgia.	Harris, R.	Tennessee.

* Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Harrison, B. F.	Connecticut.	Hollenbeck, F.	Ohio.
Hart, J. H.	New York.	Holley, Benj. F.	Alabama.
Hart, C. F.	Nova Scotia.	Hollingworth, G. W.	Kansas.
Harvey, J. C.	Pennsylvania.	Hollister, Dr. J.	Michigan.
Haskin, W. L.	New York.	Holmes, D. J.	Massachusetts.
Hastings, J.	Pennsylvania.	Holmes, E. S.	New York.
Haswell, Rev. J. R.	New York.	Holmes, Dr. E. S.	Michigan.
Hatch, A. L.	Mississippi.	Holmes, J. C.	Michigan.
Hatch, Dr. F. W.	California.	Holmes, Thomas	Indiana.
Hatch, H.	Mississippi.	Holston, Dr. J. G. F.	Ohio.
Hatch, J.	New Hampshire.	Holt, Rev. Jos. W.	Minnesota.
Hatfield, Jos. C.	Ohio.	Holt, William	Illinois.
Hauser, Emil	Illinois & Wis.	Hoover, W.	Ohio.
Haven, S. F.	Massachusetts.	Hopkins, Prof. A.	Massachusetts.
Hawks, Dr. J. M.	Florida.	Hopkins, Rev. Robert	Minnesota.
Hayes, Dr. W. W.	California.	Hopkins, Prof. W. F.	Maryland.
Hayne, J. B.	Bahamas.	Horn, Miss Clotilde.	Kansas.
Haywood, Prof. J.	Ohio.	Horn, Dr. H. B.	Kansas.
Heaston, D. J.	Missouri.	Horner, W. H.	Missouri.
Heckerman, Rev. H.	Pennsylvania.	Horr, Dr. Asa.	Iowa.
Hedges, Urban D.	Delaware.	Horr, Ed. W.	Iowa.
Heger, Dr. A.	Pennsylvania.	Horsford, William F.	Wisconsin.
Heimstreet, J. W.	N. Y. and Minn.	Hosmer, A.	New York.
Heisely, Dr. J.	Pennsylvania.	Hotchkiss, Jed.	Virginia.
Helm, Thos. B.	Indiana.	Hough, Dr. F. B.	New York.
Henderson, W.	Alabama.	Houghton, G. S.	Pennsylvania.
Herrick, F. C.	Kentucky.	Houghton, S. W.	Tennessee.
Herrick, J. D.	Ohio.	House, J. C.	New York.
Hester, Lieut. J. W.	Florida.	House, J. Carol.	New York.
Heubner, O. T.	Pennsylvania.	Howard, J. S.	Arkansas.
Heyser, W., jr.	Pennsylvania.	Howe, Edwin.	California.
Hibbard, A. A.	N. Y. and Minn.	Howell, R.	New York.
Hickok, W. O.	Pennsylvania.	Hoyt, Peter L.	New Hampshire.
Hicks, John	Wisconsin.	Hudson, Dr. A. T.	Iowa.
Hicks, J. C.	Wisconsin.	Huebener, L. R.	Pennsylvania.
Hicks, Dr. W. R.	North Carolina.	Huestis, Prof. A. C.	Indiana.
Hieto, J. A.	Mexico.	Huffaker, S. S.	Missouri.
Higgins, Prof. D. F.	Nova Scotia.	Hughes, Jno.	Pennsylvania.
Higgins, James	Tennessee.	Hull, A. B.	Connecticut.
*Hildreth, S. P.	Ohio.	Hunt, Ashley D.	Alabama.
Hill, F. G.	Ohio.	Hunt, Rev. D.	Connecticut.
Hill, G. D.	Dakota.	Hunt, George M.	New York.
Hill, L. J.	Nebraska.	Hunt, Dr. S. B.	New York.
Hillier, Rev. Spencer L.	N. Y., Ohio, Wis., and Minn.	Huntingdon, George C.	Ohio.
Himoe, John E.	Wisconsin.	Hurlbut, Dr. M. J. E.	Wisconsin.
Himoe, Dr. S. O.	Kansas.	Hurlin, Rev. W.	New Hampshire.
Hindman, S. M. N.	Oregon.	Hurt, F. W.	Ohio.
Hiscox, G. D.	Illinois.	Huse, Frederick J.	Illinois.
Hoadley, C. H.	Connecticut.	Huston, T. A.	Alabama.
Hobart, Ed. F.	Iowa.	Hyde, G. A.	Mass. and Ohio.
Hobbs, Chas. M.	Indiana.	Hyde, Mrs. G. A.	Ohio.
Hobbs, Miss M. A.	Indiana.	Hyde, Stephen	New York.
Hobbs, Orrin T.	Pennsylvania.	Hyde, Rev. T. C. P.	New York.
Hobbs, William H.	Indiana.	Imboden, J. B.	Virginia.
Hoff, Dr. Alex. H.	Alaska Ter.	Ingalls, S. Marshall	New York.
Hoff, J. W.	Virginia.	Ingalsbee, Grenville M.	New York.
Hoffer, Dr. J. R.	Pennsylvania.	Ingersoll, J. D.	New York.
Hoffer, Mary E.	Pennsylvania.	Ingraham & Hyland	Kansas.
Holcomb, A.	Massachusetts.	Ingram, Dr. J.	Ohio and N. J.
Hollenbeck, D. K.	Ohio.	Ironside, R. B.	Oregon.
		Irvine, Professor S. G.	Ohio.

*Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Ives, Edward R.	Florida.	*Kennicott, R.	Alaska & Hud. Bay Territory.
Ives, William.	New York.	Kent, Benjamin.	Massachusetts.
Jackman, A.	Vermont.	Kerlin, Dr. I. N.	Pennsylvania.
Jackson, Dr. A. W.	Louisiana.	Kerr, Prof. W. C.	North Carolina.
Jackson, John.	Pennsylvania.	Kersey, Dr. V.	Indiana.
Jackson, Samuel X.	Virginia.	Kibbe, T. R.	California.
Jacobs, H. E.	Pennsylvania.	Kilgore, W.	Minnesota.
Jacobs, Prof. M.	Pennsylvania.	Kilpatrick, Dr. A. R.	Louisiana.
Jaeger, H. W.	Ohio.	King, Mrs. Adelia C.	Ohio.
James, Miss Anna.	Illinois.	King's College.	Nova Scotia.
James, Prof. C. S.	Pennsylvania.	Kingsbury, J. H.	Pennsylvania.
*James, Dr. John.	Illinois.	Kirby, D. J.	Massachusetts.
Janes, C. C.	Ohio.	Kirkpatrick, Prof. J. A.	Pennsylvania.
Jaque, A.	Ohio.	Kirtland, Dr. J. P.	Ohio.
Jenkins, John F.	New York.	Kizer, W. B.	Missouri.
Jenkins, J. L.	Illinois.	Kluge, E. T.	Pennsylvania.
Jennings, J.	Wisconsin.	*Kluge, Dr. J. P.	New Granada.
Jennings, Dr. Samuel K.	Ala. Texas, and Tenn.	Knauer, J.	Indiana.
Jilson, B. C.	Tennessee.	Knox, James C.	New Hampshire.
Johns, Dr. Montgomery.	Maryland.	Knoud, Rev. James.	Missouri.
Johnson, A. K.	Wisconsin.	Kohler, Edward.	Pennsylvania.
Johnson, Enoch D.	Virginia & Ohio.	Kohleski, Theo.	Montana.
Johnson, E. W.	New York.	Koning, Rev. P. W.	Missouri.
Johnson, Joseph.	South Carolina.	Kownslar, Miss E.	Virginia.
Johnson, Norton.	Illinois.	Kownslar, Dr. R.	Virginia.
Johnson, R. C.	Nevada.	Kridelbaugh, S. H.	Iowa.
Johnson, Rev. Samuel.	New York.	Kron, F. J.	North Carolina.
Johnson, Thomas H.	Ohio.	Kummer, E.	Pennsylvania.
Johnson, Warren.	Maine.	Kunster, H.	Illinois.
Johnson, Dr. W. M.	North Carolina.	Laighton, Thomas B.	New Hampshire.
Johnson, W. W.	Montana.	Landon, Anna S.	New York.
Johnston, Prof. John.	Connecticut.	Landon, Stephen.	New York.
Johnston, William M.	Mississippi.	Lane, Prof. C. W.	Georgia.
Jones, Benjamin W.	Virginia.	Lane, John.	Michigan.
Jones, C. P.	Pennsylvania.	Lane, Moses.	New York.
Jones, Prof. Gardner.	Indiana.	Langdon, Laurens A.	New York.
Jones, Josiah.	Maryland.	Langee, Dr. Ignatius.	Iowa.
Jones, Silas B.	Virginia.	Langguth, J. G., jr.	Illinois.
Jones, W. Martin.	Canada.	Langworthy, A. Darwin.	Illinois.
Jorgenson, C. N.	Iowa.	Lapham, Darius.	Ohio.
Jourdan, Prof. C. H.	Maryland.	Lapham, I. A.	Wisconsin.
Joy, Prof. Charles A.	New York.	Larkin, Prof. E. P.	Wisconsin.
Julien, Alexis A.	Antilles.	Larrabee, W. H.	Indiana.
Kaler, Frederick.	Texas.	Larsh, T. J.	Ohio.
Kapp, Ernest.	Texas.	Laselle, C. B.	Indiana.
Kaucher, William.	Missouri.	Laszlo, Charles.	Mexico.
Kedzie, Prof. R. C.	Michigan.	Lathrop, Prof. S. P.	Wisconsin.
Keenan, T. J. R.	Mississippi.	Latimer, George.	Porto Rico.
Keep, Rev. W. W.	Florida.	Lattimore, Prof. S. A.	New York.
Kellett, Thomas A.	Minnesota.	Lawson, G. W.	Dakota.
Kelley, O. H.	Minnesota.	Lea, John.	Ohio.
Kellogg, F.	Texas.	Lear, O. H. P.	Missouri.
Kellogg, G. J.	Wisconsin.	Learned, Dwight W.	Connecticut.
Kellum, A. O.	Wisconsin.	Leavenworth, D. C.	Connecticut.
Kelly, Charles W.	Minnesota.	Lee, Charles A.	New York.
Kelsey, Prof. H. S.	Wisconsin.	*Lefferts, John.	New York.
Kelsey, Kathalo.	New York.	Leffman, L.	New York.
Kemper, G. W. H.	Indiana.	Lefroy, Capt. J. H.	Canada.
Kendall, James.	Virginia.	*Lehman, Dr. H. M.	Montana.
Kendall, John F.	New York.	Leonard, Rev. L. W.	New Hampshire.

* Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Leonard, W. P.....	Iowa.	McKee, Rev. C. B.....	Dist. Col. & Va.
Levings, Chas.....	Illinois.	McKenzie, J. M.....	Iowa & Neb.
Lewis, Charles H.....	Tennessee.	McLain, W. D.....	Colorado.
Lewis, James.....	Utah.	McMasters, Professor S. Y.	Ill's and Ken.
Lewis, James.....	New York.	McMillan, S. B.....	Ohio.
Lingow, B. G.....	Missouri.	McMullen, J. F.....	Minnesota.
Linus, M.....	New York.	McMore, P. A.....	New York.
Lippincott, James S.....	New Jersey.	McNelly, Dr. W. W.....	Tennessee.
Lippincott, Joseph W.....	New Jersey.	McNett, E. L.....	Pennsylvania.
Little, Frank.....	Michigan.	McQuigg, J.....	Wisconsin.
Little, J. Thomas.....	Illinois.	McWilliams, Dr. Alex.....	Maryland.
Livezey, G. W.....	Ohio.	Macfarlane, R.....	Hud. Bay Ter.
Living, B. C.....	Minnesota.	Macgregor, C. J.....	Canada.
Livingston, G. F.....	Wisconsin.	Mack, A. W.....	Massachusetts.
Livingston, Prof. Wm.....	Illinois.	Mack, E. T.....	New Jersey.
Lobdell, Mrs. M. J.....	New York.	Mack, Rev. E. T.....	New York.
Locke, Samuel.....	Minnesota.	Mack, Robert C.....	New Hampshire
Lockhart, James.....	Hud. Bay Ter.	Mackenzie, J.....	Hud. Bay Ter.
*Lockwood, G. P.....	Virginia.	Mackie, M.....	New York.
Logan, Dr. T. M.....	California.	Magee, I.....	New York.
Loines, Dr. J. P.....	New York.	Magnetic Observatory.....	Canada.
Lord, W. G.....	Maine.	Maguire, Professor J. F.....	Maryland.
Loring, C.....	Wisconsin.	Malcolm, W. S.....	New York.
Loughridge, Dr. J. H.....	Indiana.	Malden, J. J.....	Michigan.
Love, Mrs. James.....	Iowa.	Malinckrodt, C.....	Missouri.
Love, Louisa P.....	Iowa.	Manchester, Geo.....	Rhode Island.
Lowndes, B. O.....	Maryland.	Mankard, Mrs. M. J.....	Louisiana.
Lowrie, J. R.....	Pennsylvania.	Manley, R. M.....	Vermont.
Lüps, Jacob.....	Wisconsin.	Mann, Wm.....	Wisconsin.
Lukins, John F.....	Ohio.	Mapes, H. H.....	Michigan.
Lull, James S.....	Mississippi.	Mar-y, Professor O.....	Illinois.
Lumpkin, W. M.....	Missouri.	Marks, Corydon.....	Pennsylvania.
Lumsden, Rev. William.....	Ohio.	Marlow, Colonel W. B.....	Jamaica.
*Lunemann, John H.....	Missouri & Ky.	Marsh, Chas.....	Vermont.
Lupton, N. T.....	Alabama.	Marsh, C. A. J.....	Vermont.
Luther, S. M.....	Ohio.	Marsh, M. M.....	Vermont.
Luttrell, James.....	Colorado.	Marsh, Mrs. M. M.....	Ohio.
Lynde, C. J.....	Wisconsin.	Marsh, O. J.....	Illinois.
Lyons, Curtis J.....	Massachusetts.	Marsh, Roswell.....	Ohio.
McAfee, J. R.....	Georgia.	Marshall, Gregory.....	Iowa.
McBeth, Miss Sue.....	Arkansas.	Martin, Dr. Alex.....	Indiana.
McCarty, H. D.....	Kansas & Ohio.	Martin, Dr. Geo.....	Pennsylvania.
*McCary, Robert.....	Mississippi.	Martin, Dr. G. Alex.....	Arkansas.
McCary, William.....	Mississippi.	Martin, K. A.....	Pennsylvania.
McClung, C. L.....	Ohio.	Martin, R. A.....	Delaware.
McComly, Dr. H. A.....	Texas.	Martin, Dr. Samuel D.....	Kentucky.
McConnell, E. M.....	Pennsylvania.	Martin, W.....	Pennsylvania.
McConnell, Townsend.....	Iowa.	Martindale, Dr. Jos. C.....	Pennsylvania.
McCormick, J. O.....	Maryland.	Martindale, Isaac C.....	Pennsylvania.
McCormick, William A.....	Kansas.	Marvin, J. W.....	Virginia.
McCoy, A. R.....	Pennsylvania.	Mason, Edgar E.....	Nebraska.
McCoy, Dr. F.....	Iowa & Indiana.	Mason, Professor R. Z.....	Wisconsin.
McCoy, Miss Lizzie.....	Iowa & Indiana.	Mather, Professor W. W.....	Ohio.
McCready, Daniel.....	Iowa.	Mathews, D.....	Wisconsin.
McDonald, M.....	Virginia.	Mathews, Geo.....	Wisconsin.
McDowell, Rev. A.....	North Carolina.	*Mathews, Dr. J.....	Wisconsin.
McDowell, W. H.....	West Virginia.	Mathews, Jos. McD.....	Ky. and Ohio.
McDowell, W. W.....	North Carolina.	Mathis, H. C.....	Kentucky.
McElrath, J. J.....	Arkansas.	Mathews, H. W.....	New York.
McElroy, Barnet.....	Pennsylvania.	*Mathews, Prof. M. M.....	New York.
McGee, J.....	Massachusetts.	Mattison, Andrew.....	Kentucky.

* Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Mauld, Dr. D. W	Delaware.	Moore, Jos	Indiana.
Mauncey, Rev. S. W	Minnesota.	Moore, Mahlon	Pennsylvania.
Manran, Dr. P. B	Florida.	Moore, Dr. S. P	Louisiana.
Maurice, C. F	New York.	Moore, Dr. W	Missouri.
Maxey, W. F	Missouri.	Morehouse, A. W	New York.
Mayer, Professor Alfred M	Md. & Pa.	Morelle, Professor D	North Carolina.
*Mayhew, Royal	Indiana.	Morris, Miss E	New York.
*Meacham H. G	Illinois.	Morris, Professor O. W	New York.
Meacham, S	Illinois.	Morris, O. W	Tennessee.
*Mead, Allen	Iowa.	*Morrison, W. H	Illinois.
Mead, Chauncey	Iowa.	Morse, Geo. M	Massachusetts.
Mead, H. C	Wisconsin.	Morse, J. P	New York.
Mead, Dr. S. B	Illinois.	Moses, J	Nicaragua.
*Mead, Stephen O	Vt. and N. H.	Moss, G. B	Illinois.
*Mead, Dr. Thompson	Illinois.	Moulton, J. P	Maine.
Meehan, J	Pennsylvania.	Moulton, M. M	Iowa.
Meehan, Thos	Pennsylvania.	Moultrie, J. L	Alabama.
Meeker, Ralph E	Illinois.	Mowry, Geo	Pennsylvania.
Memfield, Geo. C	Indiana.	Moyer, H. C	Pennsylvania.
Meriwether, C	Virginia.	Mublenberg, F. A., jr	Pennsylvania.
Meriwether, C. J	Virginia.	Muir, Wm	Missouri.
Meriwether, R. T	Alabama.	Muller, Professor R	Pennsylvania.
Merriam, A. M	Massachusetts.	Mulligan, A	New York.
Merriam, A. M	Colorado.	Mulvey, Oliver	Indiana.
Merriam, C. C	New York.	Munfield, Geo. C	Indiana.
Merriam, G. F	Kansas.	Munger, L. F	New York.
Merriam, Sidney A	Massachusetts.	Murch, E. M	Kentucky.
Merrick, Thos. B	New Jersey.	Murdoch, G	New Brunswick.
Merrill, Dr. E	La. and Texas.	Mussey, R. D	Massachusetts.
Merrill, Rev. S. H	Maine.	Myers, J. H	Missouri.
Merritt, John C	New York.	Nash, Rev. J. A	Iowa.
Merwin, Mrs. E. H	Illinois.	Nason, Rev. Elias	N. H. and Mass.
Messman, Dr. J	Iowa.	Naturaliste Canadien	Canada.
Metcalf, H	New York.	Naval Hospital	California.
Metcalf, Dr. John G	Massachusetts.	Naval Hospital	New York.
Meybert, Dr. A. P	Pennsylvania.	Naval Hospital	Massachusetts.
Miles, Thos. H	Kentucky.	Naval Hospital	Pennsylvania.
Military Post	Newfoundland.	Naval Station	New York.
Millard, A. J	Iowa.	Navy Yard	Florida.
Millard, Joseph D	Michigan.	Navy Yard	Pennsylvania.
Miller, C. H	Nebraska.	Navy Yard	Virginia.
Miller, Rev. J	Kentucky.	Neely, E. B	Tennessee.
Miller, John H	Kansas.	Nelson, H. M	Missouri.
Miller, L. A	Vermont.	Nelson, Professor J. P	Massachusetts.
Milliken, John T	Pennsylvania.	Nelson, R. J	Maryland.
Mills, Dr. B. F	Wisconsin.	Nelson, S. A	Nova Scotia.
Mills, John H	North Carolina.	Nettleton, A	Massachusetts.
Minick, J. B	Michigan.	Newcomb, Guilford S	Virginia.
Mitchell, Dr. R. W	Tennessee.	Newcomb, J. B	Massachusetts.
Mitchell, Dr. S. F	Michigan.	Newcomb, J. B	Illinois.
Mitchell, Hon. W	Massachusetts.	Newkirk, R. M	Indiana.
Moeller, G	Wisconsin.	Newton, Rev. Alfred	Ohio.
Moffatt, Professor A. G	Indian Territory.	Newton, John	Florida.
Moke, Dr. Jas. E	Texas.	Newton, W. H	Wisconsin.
Moore, Professor A	Mississippi.	Nichols, C. L	Maine.
Moore, Dr. Alex. P	Arkansas.	Nicholson, Rev. J. J	Alabama.
Moore, Asa P	Maine.	Niell, Thos	Ohio.
Moore, Mrs. Belle	Missouri.	Noll, Arthur B	New Jersey.
Moore, C. R	Virginia.	Normal School	Massachusetts.
Moore, David	Mississippi.	North, Dr. S. B	Alabama.
Moore, Dr. G. F	North Carolina.	Norton, J. H	New York.
Moore, J. A	North Carolina.	Norton, Prof. W. A	Delaware.

* Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Norvell, F.	Dakota Territ'y.	Pearson, John	Florida.
Nourse, H. J.	Wisconsin.	Peck, Dr. John E.	Florida.
Nuttaner, Prof. Frs. J.	Virginia.	Peck, Dr. W. R.	Ohio.
Oakfield, C. F.	Kansas.	Peelor, David	Pennsylvania.
Oakley, Thomas	Mississippi.	Peet, Abraham S.	Massachusetts.
Observatory Harvard Col- lege	Massachusetts.	Pelzee, George S.	South Carolina.
O'Donoghue, John	Illinois.	Pendleton, Dr. E. M.	Georgia.
Odell, Dr. B. F.	Minn. and Iowa.	Pendleton, P. C.	Georgia.
Odell, Fletcher	New Hampshire.	Percival, Dr. Charles F.	Alabama.
Offutt, Dr. J. J.	Virginia.	Perkins, Capt. A. D.	Michigan.
Oficiana Central de Esta- dística	Costa Rica.	Perkins, Dr. H. C.	Massachusetts.
Olds, Warren	Illinois.	Pernot, Claudius	New York.
Oliver, John	Michigan.	Perrault, Ed.	Michigan.
Ormsby, G. S.	Ohio.	Perry, Rev. J. B.	Mass. and Vt.
Orton, James	Mass.	Perry, W.	New Jersey.
Osborne, Dr. T. C.	Alabama.	Peters, Adam	Ohio.
Osgood, H. H.	Maine.	Peters, H.	Indiana.
Owen, Benjamin	West Virginia.	Peters, Thos. M.	Alabama.
Owen, Dr. D. D.	Indiana.	Pettingill, Waldo	Maine.
Owsley, J. B.	Ohio.	Pettingill, W.	Ohio.
Fackard, Levi S.	New York.	Petty, Chas.	South Carolina.
*Paddock, James A.	Vermont.	Petty, McK.	Vermont.
Paine, Charles L.	Vermont.	Phelps, H. E.	Utah.
Paine, Charles S.	Vermont.	Phelps, Highland W.	Wisconsin.
Paine, Dr. H. M.	New York.	Phelps, Rev. Joshua	Iowa.
Palm, Swante	Texas.	Phelps, R. H.	Connecticut.
Palmer, Miss Jerusha R.	New Jersey.	Phelps, W. W.	Utah.
Pardee, Eugene	Ohio.	Phillips, H.	Canada.
Pardee, H. C.	Nebraska.	Phillips, Prof. Jas., D. D.	North Carolina.
Park, William K.	Virginia.	Phillips, J. H.	Ohio.
Park, Rev. Roswell	Wisconsin.	Phillips, R. C.	Ohio.
Parker, J. B.	Michigan.	Pickard, Dr. J. L.	Wisconsin.
Parker, J. D.	Maine.	Pickett, John	Virginia.
Parker, John D.	Illinois.	Pierce, Warren	Ohio.
Parker, Joseph	Vermont.	Pillsbury, M. A.	Ohio.
Parker, Dr. Joseph M.	Tennessee.	Pillsbury, Mrs. M. A.	Ohio.
Parker, Melzar	Wisconsin.	Pitcher, Dr. Zeno	Michigan.
Parker, Nathan H.	Iowa.	Pitman, Charles H.	New Hampshire.
Parker, Prof. W. H.	Vermont.	Pitman, E.	Maine.
Parkinson, D. F.	California.	Pitman, M.	Maine.
Parmelee, Ezra	New York.	Plumb, Dr. Ovid	Connecticut.
Parry, William	New Jersey.	Plummer, Dr. John T.	Indiana.
Parsons, B. W.	Massachusetts.	Poe, James H.	Ohio.
Parsons, L. H.	New Jersey.	*Pollard, T. F.	Vermont.
Partrick, J. M.	New York.	Pollock, Rev. J. E.	Missouri.
Parvin, P. G.	Iowa.	Pomeroy, F. C.	Wisconsin.
Parvin, Prof. Theo. S.	Iowa.	Pool, Isaac A.	Illinois.
Pashley, J. S.	Wisconsin.	Poole, H.	Nova Scotia.
Paterson, Rev. Dr. A. B.	Minnesota.	Porter, E. D.	Delaware.
Patrick, Dr. John J.	Illinois.	Porter, Mrs. E. D.	Delaware.
Pattison, H. A.	Michigan.	Porter, Henry D.	Wisconsin.
Patton, Thomas	Virginia.	Porter, Prof. W.	Wisconsin.
Patton, Dr. Wm. N.	Virginia.	*Posey, Dr. John F.	Georgia.
Paxton, J. W.	Michigan.	Post Surgeon	Kansas and Cal.
Payne, Dr. J. W.	Alabama.	Potter, Dr. A. M.	Texas.
Peabody, Prof. S. H.	Vermont.	*Potter, C. D.	New York.
Peale, Dr. J. B.	Pennsylvania.	Potter, G. W.	New York.
Pearce, Harrison	Utah.	Potts, Jean G.	Virginia.
Pearce, James A., jr.	Maryland.	Powel, Samuel	Rhode Island.
		Pratt, Prof. D. J.	New York.
		Pratt, George B.	Iowa.

* Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Pratt, Dr. J. F.	Maine.	Robinson, Rev. E. S.	Mississippi.
Prentiss, Dr. H. C.	Massachusetts.	Roby, Charles H.	Virginia.
Prescott, Dr. W.	New Hampshire.	Rockwell, Miss Charlotte.	Connecticut.
Preston, Rev. N. O.	Kansas.	Rockwell, John A.	Georgia.
Prince, Charles	Maine.	Rodman, Samuel.	Massachusetts.
Prince, G.	Maine.	Roe, J. H.	Illinois.
Purdie, John R.	Virginia.	Roe, Rev. Sanford W.	Con. and N. Y.
Purdot, E.	Honduras.	Roedel, W. D.	Virginia.
Purmort, N.	New Hampshire.	Roffe, C. L.	West Virginia.
Quincy, W. C.	Virginia.	Rogers, A. P.	Ohio.
Race, James A.	Missouri.	Rogers, Francis M.	New York.
Raffensperger, E. B.	Ohio.	Rogers, J. S.	Illinois.
Rain, John G.	Nebraska.	Rogers, O. P.	Illinois.
Ralston, Rev. J. G.	Pennsylvania.	Roos, Charles.	Minnesota.
Rambo, E. B.	Indiana.	Root, Dr. Martin N.	Mass. and N.H.
Randall, R. B.	California.	Root, Professor O.	New York.
Rankin, Colin.	H. B. T. & Can- ada.	Ross, B. R.	H. B. Territory.
Rankin, D. M.	Ohio.	Rosseau, M. C.	Idaho.
Rankin, James.	Connecticut.	Rossiter, Professor G. R.	Virginia.
Ranlett, E. L.	Louisiana.	Rothrock, William	Tennessee.
Raser, John Heyl.	Pennsylvania	Ray, G. P.	Missouri.
Ravenel, H. W.	South Carolina.	Royal Engineers.	Bermudas.
Ravenel, Thomas P.	South Carolina.	Royal Engineers.	Nova Scotia.
Ray, Dr. John D.	Kentucky.	Royal Gazette.	Bermudas.
Ray, L. G.	Kentucky.	Rucker, B. H.	Texas.
Rayal, James T.	Texas.	Ruffin, David L.	Virginia.
Raymond, George.	Massachusetts.	Ruffin, Julian C.	Virginia.
Raymond, W. A.	Michigan.	Ruggles, Homer.	Missouri.
Read, D. E.	Neb. and Iowa.	Russell, Cyrus H.	New York.
Reade, J. M.	Tex. & N. Mex.	Russell, O. F.	Arkansas.
Reasure, Dr. F. M.	Michigan.	Rutherford, M.	Texas.
Redding, Thomas B.	Indiana.	Ryerson, Dr. Thomas.	New Jersey.
Reed, Edwin C.	New York.	Salisbury, Elias O.	New York.
Reed, Isaiah.	Iowa.	Samms, Dr. C. C.	Ohio.
Reed, Lt. Jos.	Pennsylvania.	Sampson, Alexander.	W. Territory.
Reid, Jas. M.	Georgia.	Sanders, B. O.	Virginia.
Reid, Dr. Robert K.	California.	Sanford, S.	Ohio.
Reid, Peter.	New York.	Sanford, Dr. S. N.	Ohio.
Reynolds, Henry.	Maine.	Sanger, Dr. W. W.	New York.
Reynolds, J.	Arkansas.	Sargent, John S.	Massachusetts.
Reynolds, Lauriston.	Maine.	Sartorius, Dr. Charles.	Mexico.
Reynolds, Orrin A.	Massachusetts.	Sartwell, Dr. H. P.	New York.
Reynolds, R. M.	Alabama.	Saurman, John W.	Pennsylvania.
Reynolds, W.	Iowa.	Savage, Dr. G. S.	Kentucky.
Reynolds, W. C.	Virginia.	Savery, Thomas H.	Pennsylvania.
Rhees, Dr. Morgan J.	New Jersey.	Saville, J. J.	Iowa.
Rhoades, Dr. John.	Ohio.	Sawkins, James G.	Jamaica.
Rhodes, W. H. T.	Texas.	Sawyer, George B.	N. Hampshire.
Riblet, J. H.	Illinois.	Sawyer, H. E.	N. Hampshire.
Rice, Frank H.	Massachusetts.	Sawyer, Thomas L.	Tennessee.
Rice, Henry.	Massachusetts.	Scandlin, Rev. Wm. G.	Massachusetts.
Richards, Thomas.	H. B. Ter'y.	Scarritt, Rev. N.	Missouri.
Ricksecker, L. E.	Pennsylvania.	Schauber, H. A.	New York, Ohio, and Illinois.
Riddell, Prof. W. P.	Louisiana.	Scheeper, E. H. A.	Iowa.
Riggs, A. L.	Minnesota.	Schenck, Dr. W. L.	Ohio.
Riggs, Rev. S. R.	Minnesota.	Schetterly, Dr. H. R.	Michigan.
Riker, Walter H.	New York.	Schlegel, Albert.	Massachusetts.
Riotte, Hon. C. N.	Costa Rica.	Schley, W.	Georgia.
Ritchie, James.	Massachusetts.	Schmidt, Dr. E. R.	New Jersey.
Riter, F. G.	Dakota.	Scholefield N.	Connecticut.
Robbins, Dr. James.	Massachusetts.	Schriever, Francis.	Pennsylvania.
Roberts, D. H.	Indiana.	Schue, Dr. A.	Wisconsin.
Robinson, Almon.	Maine.	Scott, H. B.	Florida.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Sarr, James	Kansas.	Smith, C. B.	Nebraska.
Sarr, Samuel	Pennsylvania.	Smith, Dr. C. C.	Michigan.
Savill, H. W.	Illinois.	Smith, C. E.	Illinois.
Sariba, Victor	Pennsylvania.	Smith, Dr. Carl H.	Ohio.
Saxbrook, Thomas	Pennsylvania.	Smith, Eli	Maryland.
Savay, C. C.	Georgia.	Smith, Dr. E. A.	Massachusetts.
Schert, Samuel R.	Wisconsin.	Smith, E. A., and daughters	New York.
Schly, Henry	Michigan.	Smith, E. L.	Massachusetts.
Schz, Charles	Nebraska.	Smith, Rev. George N.	Michigan.
School class, Mount Auburn Female Institute	Ohio.	Smith, Dr. George O.	Illinois.
Sergeant, John T.	New Jersey.	Smith, Haden Patrick	New York.
Seymour, E.	Wisconsin.	Smith, Hamilton, jr.	Indiana.
Seymour, Dr. E. W.	Kansas.	Smith, Henry K.	Illinois.
Shackelford, Prof. J.	Alabama.	Smith, H. L.	Minnesota.
Shaffer, J. M.	Iowa.	Smith, Harmon M.	Michigan.
Shane, J. D.	Kentucky.	Smith, Howard D.	Maine.
Sharp, Dr. W. H.	West Virginia.	Smith, Isaac H.	Illinois.
Shaw, Francis	Massachusetts.	Smith, Dr. J. Bryant	North Carolina.
Shaw, Jos.	Ohio.	Smith, J. C.	Ohio.
Shaw, M.	Kansas.	Smith, J. Edwards	Mississippi.
Sheerer, H. M.	New York.	Smith, John M.	Missouri.
Sheldon, Daniel	Iowa.	Smith, J. Metcalf	New York.
Sheldon, D. S.	Iowa.	Smith, Dr. J. W.	New York.
Sheldon, H. A.	Vermont.	Smith, Rev. L. M. S.	Michigan.
Sheldon, H. C.	Rhode Island.	Smith, M. D.	California.
Shepard, J. A.	Mississippi.	Smith, Mrs. M. D.	California.
Shepherd, Smiley	Illinois.	Smith, Dr. N. D.	Arkansas.
Sheppard, Benjamin	New Jersey.	Smith, Rufus	New Hampshire.
Sheppard, Clarkson	New Jersey.	Smith, Sydney	Iowa.
Sheppard, Rev. J. A.	N. C. and Ala.	Smith, Rev. S. U.	Alabama.
Sheppard, Miss R. C.	New Jersey.	Smith, Rev. W.	Pennsylvania.
Sherman, Rev. D. H.	Illinois.	Smurr, Dr. T. A.	Ohio.
Shields, J. H.	Alabama.	Smyser, Dr. B. R.	Pennsylvania.
Shields, Rev. R.	Ohio.	Smyser, Dr. H.	Pennsylvania.
Shintz, H. J.	Wisconsin.	Snell, Prof. E. S.	Massachusetts.
Shoemaker, J. G.	Kansas.	Snow, Prof. F. H.	Kansas.
Shortwell, D. F.	Minnesota.	Snyder, James A.	Oregon.
Shotwell, Samuel L.	Illinois.	Soule, Prof. W.	New York.
Shreve, Charles R.	Ohio.	Soule, W. L. G.	Kansas.
Shriver, Howard	Va. and N. J.	Southworth, N. C.	Michigan.
Shuman, Bruno	Texas.	Spaulding, Dr. Abiram	Illinois.
Shumard, G. G.	Texas.	Spaulding, S. C.	Illinois.
Shs, Professor Solomon	Tex. and N. Y.	Spates, Samuel	Minnesota.
Shier, Andr. L.	Utah.	Speer, Dr. Alex. M.	Pennsylvania.
Shley, P. B.	Missouri.	Spencer, Miss Anna	Pennsylvania.
Shmpson, B. F.	New Jersey.	Spencer, Edward E.	Virginia.
Shmpson, F. T.	Georgia.	Spencer, Rev. D. B.	Minnesota.
Shson, Rodman	Pennsylvania.	Spencer, E. S.	Wisconsin.
Shsen, W.	Virginia.	Spencer, W. C.	Illinois.
Shde, Frederick J.	New York.	Spera, W. H.	Pennsylvania.
Shven, J. B.	California.	Sperry, M.	Ohio.
Shven, James	Virginia.	Spooner, E.	Ohio.
Shane, Prof. J. R. W.	Ohio.	Spooner, Dr. S.	New York.
Shve, L. C.	Wisconsin.	Spratt, Dr. W. W.	Indiana & Ohio.
Shadwood, Dr. Charles	Canada.	Springer, Rev. Fr.	Arkansas.
Shall, F. A.	Maine.	Squier, H.	Michigan.
Shelley, John H.	Pennsylvania.	Stagg, T. G.	Maryland.
Shen, A. C.	Minnesota.	Stalnaker, J. W.	Virginia.
Shen, A. M.	Bahamas.	Stanford, Colonel J. R.	Georgia.
Shen, Prof. A. W.	Connecticut.	Stanton, Fred. J.	Colorado.
Shen, Prof. B. Wilson	Iowa.	Stayman, Dr. J.	Kansas.
		Stebbins, George H.	Oregon.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Stebbins, Richard	Iowa.	Taylor, Dr. M. K	Michigan.
Steed, F.	Iowa.	Taylor, Rev. R. T.	Pennsylvania.
Steele, Hon. Aug.	Florida.	Teale, Rev. A. K.	La. and Mass.
Steele, George E.	Michigan.	Tenbrock, J. W.	Indiana.
Steiner, Dr. Lewis F.	Maryland.	Terry, Charles C.	Massachusetts.
Stephens, Prof. A. M.	Minnesota.	Tew, Captain C. C.	South Carolina.
Stephens, J. A.	Missouri.	Thatcher, A. E.	New York.
Stephenson, Rev. James ..	Maryland.	Thickstun, T. F.	Minnesota.
Sterling, J. W.	Wisconsin.	Thickstun, T. F.	Pennsylvania.
Stern, Jacob T.	Iowa.	Thomas, Mrs. W. S.	Illinois.
Sternbergh, W. H.	New Granada.	Thompson, A. H.	Illinois.
Stevens, Hennell	Texas.	Thompson, Rev. D.	Ohio.
Stevens, Dr. J. L.	Maine.	Thompson, D. P.	Vermont.
Stevens, Linus	New Hampshire.	Thompson, Rev. E.	Ohio.
Stevens, R. P.	Pennsylvania.	Thompson, E. P.	Illinois.
Stewart, Prof. A. P.	Tennessee.	Thompson, George W.	New Jersey.
Stewart, F. L.	Pennsylvania.	Thompson, H.	Louisiana.
Stewart, Thomas H.	Pennsylvania.	Thompson, Prof. H. A.	Ohio.
Stewart, W. M.	Tennessee.	Thompson, Mrs. Phœbe ..	Vermont.
Stockwell, George A.	Michigan.	Thompson, R. O.	Nebraska.
Stokes, H. A.	New Jersey.	Thompson, Prof. Zadok ..	Vermont.
Stokes, William A.	Pennsylvania.	Thomson, Prof. S. H.	Indiana.
Stone, Isaac	Michigan.	Thornton, Miss E. E.	New Jersey.
Stouffer, And.	Minnesota.	Thornton, Dr. S. C.	New Jersey.
Stowell, T. B.	Kansas.	Thorp, Henry W.	Md. and Penn.
Straetmans, H. I.	Missouri.	Tidswell, Miss Mary A.	Missouri.
Strang, J. J.	Michigan.	Tingley, Prof. Joseph.	Indiana.
Streng, L. H.	Michigan.	Tirrell, Dr. N. Q.	Massachusetts.
Strickland, L. S.	Maine.	Titcomb, J. S.	Illinois.
Strong, Edwin A.	Michigan.	Titus, H. W.	New York.
Strong, Oscar I.	Iowa.	Titze, H. A.	Illinois.
Strong, Rev. Thomas H.	New York.	Toby, James K.	Vermont.
Strunk, Daniel.	Wisconsin.	Tolman, J. W.	Illinois.
Struthers, R. H.	Wisconsin.	Tolman, Rev. Marcus A.	Pennsylvania.
Stuart, E. W.	Ohio.	Tompkins, W.	New York.
Stuart, Prof. A. P. S.	Nova Scotia.	Tooker, Nathan C.	Pennsylvania.
Stumps, S. J.	West Virginia.	Tourtellot, Dr. L. A.	New York.
Stuntebeck, F. H.	Missouri.	Tower, James M.	New York.
Stuntz, G. R.	Wisconsin.	Towers, M. H.	Wisconsin.
Stuver, A. S.	Ohio.	Townsend, Nathan	Iowa.
Suter, Captain C. R.	South Carolina.	Towson, J. W.	Ohio.
Sutherland, Norris	Missouri.	Tracy, George H.	Pennsylvania.
Sutton, Rev. A.	Maryland.	Tracy, James E.	Pennsylvania.
Sutton, Dr. G.	Indiana.	Travelli, J. I.	Pennsylvania.
Swain, Dr. John	Illinois and Ky.	Treat, Samuel W.	Ohio.
Swan, Caleb.	New York.	Trembley, Dr. J. B.	Ohio.
Swan, James G.	Washington Ter.	Trevor, James B.	New York.
Swart, Haren V.	New York.	Tribble, Miss Anna C.	Illinois.
Swazey, C. B.	La. and Miss.	Trivett, Walter M.	California.
Swift, Lewis	New York.	Trowbridge, David.	New York.
Swift, Dr. Paul.	Pennsylvania.	Troy, Dr. M.	Alabama.
Sylvester, Dr. E. Ware ..	New York.	True, H. A.	Ohio.
Talcott, H.	Illinois.	* Tuck, Dr. W. J.	Tennessee.
Tappan, Eugene	Massachusetts.	Tucker, Edward T.	Massachusetts.
Tappan, E. T.	Ohio.	Tuckerman, L. B.	Ohio.
Tate, And.	Wisconsin.	Tuomey, Prof. M.	Alabama.
Tavel, B. F.	Tennessee.	Turnbull, Lieut. C. N.	Michigan.
Taylor, E. T.	Virginia.	Turner, A. P.	Indiana.
Taylor, John	Pennsylvania.	Turner, David	Virginia.
Taylor, Joseph W.	New York.	Turner, T. A.	Texas.
Taylor, Prof. K. M.	Iowa.	Tutwiler, H.	Alabama.
Taylor, L. B.	Louisiana.	Tweedy, D. H.	Ohio.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Twiss, Thomas S.....	Nebraska.	Wattles, J. O	Kansas.
United States consul.....	Bahamas.	Weast, J. W	Arkansas.
Urford, Rev. John.....	Iowa.	Weatherford, John M.....	Missouri.
Underwood, D.....	Vermont.	Webb, Miss G.....	Mich. and Ind.
Underwood, Colonel D	Wisconsin.	Webb, Dr. Robert D.....	Alabama.
Upshaw, G. W.....	Virginia.	Weber, P.....	Missouri.
United States engineers	Michigan.	Webster, Prof. N. B.....	Virginia & N. C.
Vagnier, Thomas.....	Indiana.	Weeks, James A.....	Pennsylvania.
Valentine, John.....	Indiana.	Weir, A. D.....	Pennsylvania.
Valentine, Felipe.....	Costa Rica.	Weiser, R.....	Pennsylvania.
Van Blascom, J.....	Maine.	Wellford, B. R.....	Virginia.
Van Buren, Jarvis.....	Georgia.	Wells, C. B.....	Nebraska.
Van Doren, A.....	Virginia.	Wells, J. Carson.....	Virginia.
Van Horne, F. B.....	Indian Territory.	Wells, W.....	Missouri.
Vankekle, L.....	Delaware.	West, Edmund.....	Ohio.
Vankirk, W. J.....	Alabama.	West, E. W.....	Ohio.
Vankirk, W. J.....	Missouri.	West, L. W.....	Wisconsin.
Vankleek, Rev. R. D.....	New York.	West, Dr. N. P.....	Texas.
Van Nostrand, J.....	Texas.	West, Silas.....	Maine.
Van Orden, W.....	Michigan.	Westbrook, Samuel W.....	North Carolina.
Van Vorhees, A.....	Minnesota.	Westdahl, F.....	Alaska Ter.
Von Frantzius, Dr. A.....	Costa Rica.	Westmoreland, J. G.....	Georgia.
Verrill, G. W., jr.....	Maine.	Wetherill, Prof.....	New York.
Vetrees, John E.....	Missouri.	Wheaton, Alex. Camp.....	Iowa & Mon. T.
Vincent, J. H.....	Mississippi.	Wheaton, Mrs. Daniel D.....	Iowa.
Vogel, C.....	Missouri.	Wheeler, B. J.....	Vermont.
Waddell, William H.....	Mississippi.	Wheeler, John T.....	New Hampshire.
Wade, Edward.....	Ohio.	Whelpley, Miss Flor'e E.....	Michigan.
Wade, F. S.....	Texas.	Whelpley, Miss Helen I.....	Michigan.
Wadey, H.....	Iowa.	*Whelpley, Dr. Thomas.....	Michigan.
Wadsworth, A. S.....	New York.	Whipple, Capt. A. W.....	Michigan.
Wadsworth, General P.....	Maine.	Whitaker, B.....	Illinois.
Wagner, W. H.....	Oregon.	Whitcomb, George.....	Missouri.
Wainwright, Elmore.....	Michigan.	Whitcomb, L. F.....	Massachusetts.
Waite, M. C.....	Wisconsin.	White, Prof. Aaron.....	New York.
Wakeley, C. C.....	New York.	White, Bela.....	Nebraska.
Walker, David, M. D.....	Vancouver's isl.	White, Prof. J. B.....	South Carolina.
Walker, J. P.....	Delaware.	White, Peter.....	Michigan.
Walker, Mrs. Mary A.....	Kentucky.	White, Dr. W. T.....	New Grenada.
Walker, Mrs. Octavia C.....	Michigan.	Whitehead, W. A.....	New Jersey.
Walker, R. L.....	Pennsylvania.	Whitfield, E.....	Minnesota.
Walker, S. C.....	Pennsylvania.	Whiting, Robert C.....	New Hampshire.
Wallace, Samuel J.....	Illinois.	Whiting, William H.....	Wisconsin.
Wallace, Colonel W.....	South Carolina.	Whitlock, James H.....	California.
Waller, R. B.....	Alabama.	Whitner, B. F.....	Florida.
Walsh, Stephen.....	Minnesota.	Whitney, Miss L. J.....	Georgia.
Waiter, Dr. James.....	Kansas.	Whittlesey, C. S.....	Michigan.
Walton, Joseph P.....	Iowa.	Whittlesey, S. H.....	Michigan.
Ward, Rev. L. F.....	Ohio.	Wickline, Thomas J.....	Virginia.
Ward, Prof. W. H.....	Wisconsin.	Wieland, C.....	Minnesota.
Warder, A. A.....	Ohio.	Wieland, H.....	Minnesota.
Warder, R. B.....	Ohio.	Wiessner, J.....	Dist. Columbia.
Waring, Prof. C. B.....	New York.	Wiggin, Andrew.....	New Hampshire.
Warne, Dr. George.....	Iowa.	Wilbur, B. F.....	Maine.
Warren, James H.....	New York.	Wild, Rev. Edward P.....	Massachusetts.
Warren, James H.....	Iowa.	Wilkinson, C. H., M. D.....	Texas.
Washburn, D.....	Pennsylvania.	Wilkinson, John R.....	Ohio.
Washington, L.....	Wisconsin.	*Willard, J. F.....	Wisconsin.
Watkins, W. D.....	Ohio.	Willet, Prof. J. E.....	Georgia.
Watson, George.....	New Jersey.	Williams, B. C.....	Illinois.
Waterson, H. R.....	Ohio.	Williams, Ed. F.....	Tennessee.
Wardes, Miss Celestia.....	Kansas.	Williams, H. B.....	Iowa.

* Deceased.

List of meteorological observers, &c.—Continued.

Name.	State.	Name.	State.
Williams, Prof. J. R.	Pennsylvania.	Woodruff, E. N.	Kentucky.
Williams, Prof. L. D.	Pennsylvania.	Woodruff, L.	Michigan.
Williams, Prof. M. G.	Ky. & Ohio.	Woods, W.	Wisconsin.
Williams, Dr. P. O.	New York.	Woodard, C. S.	Michigan & Ind.
Williams, Rev. R. G.	N. Y. & Conn.	Woodard, C. S.	New York.
Williams, Rev. S. R.	Kentucky.	Woodward, Lewis	New York.
Williams, Prof. Wm. D. ...	Georgia.	Woodworth, Dr. A.	Kansas.
Willis, Henry	Maine.	Woodworth, Samuel	Iowa.
Willis, O. R.	N. Y. & N. J.	Woolsey, Dr. W. W.	Iowa.
Willis, P. L.	Oregon.	Wooster, C. A.	New York.
Wills, J. C.	Virginia.	Wormley, Theo. G.	Ohio.
Wilson, G. W., jr.	Missouri.	Wray, Alex.	North Carolina.
Wilson, Joseph A.	Missouri.	Wright, Dr. Daniel F. ...	Tennessee.
Wilson, Dr. J. B.	Maine.	Wright, E. M.	Minnesota.
Wilson, Prof. J. H.	Ohio.	Wyman, A. H.	Maine.
Wilson, Lavallette	Massachusetts.	Wyrick, M. L.	Missouri.
Wilson, P. S.	Missouri.	Yale, Walter D.	New York.
Wilson, Prof. W. C.	Pennsylvania.	Yellowby, Prof. C. W. ...	Texas.
Wilson, Rev. W. D.	New York.	Yeomans, W. G.	Connecticut.
Wilson, W. W.	Pennsylvania.	Yoakum, F. L.	Texas.
Winchell, Prof. A.	Ala. & Michigan.	Yoakum, H.	Texas.
Windle, Isaac E.	Indiana.	Young, A. A.	New Hampshire
Wing, M. E.	Vermont.	Young, Prof. C. A.	Ohio.
Winger, Martin	Ohio.	Young, Prof. Ira	New Hampshire.
Winkler, Dr. C.	Wisconsin.	Young, J. A.	South Carolina.
Wise, John	Pennsylvania.	Young, Jude. M.	New York.
Wislizenus, Dr. A.	Missouri.	Young, Mrs. L.	Kentucky.
Withrow, Thomas F.	Ohio.	Younger, Armistead	Arkansas.
Witter, D. K.	Iowa.	Younglove, J. E.	Kentucky.
Woodbridge, W.	Indiana.	Zaepffel, J.	New York.
Woodbury, C. E.	Minnesota.	Zahner, P.	Nebraska.
Woodbury, C. W.	Minnesota.	Zealy, Joseph T.	South Carolina.
Wood, Samuel	New Jersey.	Zeigler, Dr. A. F.	Idaho Territory.
Wood, S. B.	Ohio.	Zimmerman, G.	New York.
Woodbridge, W.	Indiana.	Zumbrock, Dr. A.	Maryland.
Woodin, S. F.	New York.		

METEOROLOGICAL MATERIAL CONTRIBUTED IN ADDITION TO THE REGULAR OBSERVATIONS, DURING THE YEAR 1868.

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Aguilar, F. C.—Boletino Meteorologico del observatorio del Colegio Nacional de Quito, dirigido por los padres de la Compañia de Jesus, segundo año 1866, F. C. Aguilar, S. J., Quito, 1868, 36 pages, 8vo.

Asiatic Society of Bengal—Journal, Part II, No. II, 1868, containing abstract of the results of meteorological observations taken at the surveyor general's office, Calcutta, September, 1866, to June, 1867, inclusive; also tables of mean monthly readings of the barometer reduced to freezing point, for 10 years, from 1856 to 1865, and of barometric curve and registered rainfall.

Bache, R. M.—Notes on the climate of San Francisco, California, and table of temperature.

Berkey, W. H.—Meteorological record kept at Ossawatomie, Kansas, during the month of March, 1868.

Boardman, G. A.—Meteorological observations made during the month of January, 1868, at Green Cove Spring, Florida.

Boerner, Charles G.—Account of the meteoric shower of November 13 and 14, observed at Vevay, Indiana.

Bruhns, Dr. C.—Resultate aus den Meteorologischen Beobachtungen angestellt an mehreren Orten im Königreich Sachsen in den Jahren 1826 bis 1861, und an den fünfundzwanzig Königlichen Sächsischen Stationen im Jahre 1866. Nach den monatlichen Zusammenstellungen im Statistischen Bureau des Königlichen Ministeriums des Innern, bearbeitet von Dr. C. Bruhns, Director der Sternwarte und Professor der Astronomie in Leipzig. Dritter Jahrgang, Leipzig, 1868. 4to. 136 pp.

Bush, Richard J.—Meteorological observations made during the exploration of the country between Okhotsk and Nicolaefsk, East Siberia, in the service of the Western Union Telegraph Company, October 21, 1865, to March 4, 1866.

Chase, Pliny Earle, Philadelphia.—Curves indicating the relation of the moon to temperature at the surface of the earth.

Christiania Observatorium.—Meteorologiske Iagttagelser, 1867.

Cornelissen, J. D.—On the temperature of the sea near the south point of Africa. Royal Meteorological Institute of the Netherlands, 4to.

Cox, Judge Hopewell.—Meteorological observations made at Hartford, Dodge county, Wisconsin, from April, 1859, to September, 1862; copied by S. G. Lapham, for the Smithsonian Institution.

Dall, W. H.—Meteorological observations made at Nulato, Alaska, from December 1, 1866, to May 26, 1867, by W. H. Dall; also meteorological observations at Unalakleet, Alaska, from October 19, 1866, to January 23, 1867, by F. Westdahl.

Davis, R. J.—Observations of temperature near Glasgow Station, Amherst county, Virginia.

Destruge, A.—Meteorological register for the month of October, 1868, at Guayaquil, Ecuador.

Draper, Dr. Joseph.—Meteorological observations made at the State Lunatic Hospital, Worcester, Massachusetts, during the years 1859, 1860, and 1861.

Engineer corps, United States army.—Horary curves at Willet's Point, New York, from 12 days' hourly observations, July 14 to July 25, 1868; Svo, 2 pp.

French, J. B., agent W. Lake C. & W. Manufacturing Company, Lake Village, New Hampshire.—Tables of rainfall at Lake Village and Laconia, New Hampshire.

Galveston City Hospital.—Meteorological observations made at the Galveston City Hospital, Galveston, Texas, during the year 1867, by Drs. C. H. Wilkinson, H. A. McComly, and others.

Gesellschaft für Natur-und Heilkunde in Dresden.—Die Vertheilungen der Windstärke in der Windrose von Dresden, von Dr. Ed. Loisler; Svo.

Gibbs, George.—Meteorological statement for the year ending October 31, 1868, Sitka, Alaska Territory.

Gilman, W. S., Jr.—Weather items. Palisades, Rockland county, New York, 1868.

Hann, Dr. Julius.—Die thermischen Verhältnisse der Luftströmungen auf dem Obir (6,288 Par. Fuss) in Kärnthen. mit 1 Tafel: December, 1867.

Die Temperatur-Abnahme mit der Höhe als ein Function der Windesrichtung, mit 1 Tafel; March. 1868.

Zur Charakteristik der Winde des adriatischen Meers. mit 1 Tafel; 1868.

Hart, Charles H.—Meteorological register kept at Parana, South America, from October, 1843, to July, 1850, inclusive.

Heis, Dr.—Wochenschrift für Astronomie, Meteorologie und Geographie. Neue Folge, Elfter Jahrgang; (der "Astronomischen Unterhaltungen," 22ter Jahrgang.) Redigirt von Professor Dr. Heis, in Münster. 1868: (Svo, each number eight pages.)

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