

- Pendulum observations, record of observations, 704-712.
 flexure of pendulum piers at Fort Conger, 712.
 comparison of pendulum, Peirce No. 1 with meter No. 49 and B, 713.
 observations at the Smithsonian with pendulum, Peirce No. 1, 714.
 comparison of observations at Fort Conger with those at Washington, 714.
 memorandum by General Greely in reply to statements of Professor Peirce concerning the care and use of pendulum No. 1 at Fort Conger, 715.
 supplementary report on the pendulum observations at Fort Conger by H. Farquhar, 716-729.
 reply to statements of Professor Peirce as to responsibility for failure of preliminary observations in room 6, and respecting the supposed loss of weight of pendulum No. 1, 716-719.
 computation of time from transit observations at Fort Conger, 1881-'82, 720-724, chart.
 correction and rate of four chronometers, 724, chart.
 record of arc observations at Fort Conger and correction for arc, 725-728.
 measures for center of mass of pendulum, 729.
- Periphylla hyacinthina*, 39.
 Perry transit (Coast Survey, No. 11), 481, 482.
 Phalarope, red, 24.
 northern, 28.
Phalaropus fulicarius, 24.
hyperboreus, 28.
 Phenology, dates of flowering of arctic plants, 11.
 dates of arrival and departure of birds at various arctic stations, 30-37.
Philonotis fontana, 16.
Phoca fatida (or *hispida*), 7, 8.
barbata, 8.
grønlandica, 8.
Phyllodoce, sp. (?), 48, 51.
 Pinnipedia, 7-9.
Placodium crenulatum, 18.
elegans, 18.
 Plants, arctic, dates of flowering, 11.
 flowering, list and description, 12-15.
Plectrophenax nivalis, 27.
Pleurobrachia rhododactyla, 44.
 Plover, golden, 25.
 ringed, 25.
 black-bellied, 28.
 gray, 28.
Poa, *abbreviata*, 15.
alpina, 15.
arctica, 15.
casia, 15.
cenisia, 15.
laxa, 15.
Pogonatum alpinum, 16.
capillare, 16.
 Polychaeta, 48.
Polygonum viviparum, 14.
Polynoida (?), 48.
Polytrichum formosum, 16.
Potentilla nivea, 13.
maculata, 13.
pulchella, 13.
Pottia heimii, 17.
 Precipitation, daily amounts, August 5, 1881, to July 31, 1883, 318-365.
 number of hours of rain or snow, 368.
 methods of observation, 368.
 monthly means, 1881-'83, 369.
 daily amounts of hoar-frost and snow, 370.
 rainfall from St. John's to Fort Conger, 404, 405.
 Pressure of the atmosphere, list of charts and tables, 92, 93.
 report, 94-165.
 accuracy of observations, 94, 95.
 hourly readings of aneroid, August to December, 1881, 96-105.
 hourly readings of mercurial, August, 1881, to August, 1883, 106-151.
 mean daily, at Fort Conger, 152, 153.
 mean hourly, at Fort Conger, 154, 155.
 mean, by decades, at Fort Conger and Discovery Bay, 156.
 annual mean for Arctic America, 156, 157.
 annual fluctuation for northern hemisphere, 157-165, charts 1-4.
 annual fluctuation at Fort Conger, 166, chart 5.
 diurnal fluctuation at Fort Conger, 167, chart 6.
 diurnal fluctuations at international stations, 168-170, charts 7, 8.
 annual, absolute, and daily ranges at Fort Conger, 171, 172.
 rapid fluctuations, 172, 173.
 methods of observation, 401.
 barometer readings from St. John's to Fort Conger, 402, 403.
 barometer readings in Kennedy Channel and Kane Sea, 408, 409.
 barometer readings at Camp Clay, 422-425.
 daily mean in Kennedy Channel, Kane Sea, and at Camp Clay, 437.
 effect of variations upon half-tide level, 692, 693.
- Procellaria glacialis*, 23.
 Ptarmigan, rock, 26.
 Pteropoda, 50.
 Puffin, 20.
- Radiation, report, 371-378.
 methods of observation, 371, 378.
 daily solar and terrestrial thermometer readings, September 8, 1881, to July 31, 1883, 372, 373.
 solar, daily excess of maximum black bulb *in vacuo*, 374.
 terrestrial, deficit of minimum radiating thermometer, 375.
 extremes and means of solar thermometers, 1875-'76, 1881-'83, 376.
 solar and terrestrial, annual curves, 377, 378, chart 17.
 monthly extremes and means of terrestrial thermometers, 378.
- Rainfall. *See* Precipitation.
 Rain gauge, 368.
 Ralston, D. C., Sergeant, 91.
Rangifer tarandus, 7.
Ranunculus affinis, 12.
nivalis, 12.
 Raven, 27.
 Records, magnetic and tidal, transcripts made at Fort Conger, 480, 637.
 original, abandoned at Fort Conger, 481.
 original, accuracy of transcripts from, 481.
- Reindeer, 7.
 Repsold pendulums, 703, 718.
Rhachotropis aculeata, 50.
Rhacomitrium lanuginosum, 18.
Rhodostethia rosea, 28.
 Rice, G. W., Sergeant, 382.
 tidal observer, 638.
 Richards, G. H., Sir, cited, 9.
 Richardson, J., Dr., cited, 1, 5, 28.
Rissa tridactyla, 22.
 Rodentia, 4, 5.
 Ross, J., Sir, cited, 4.