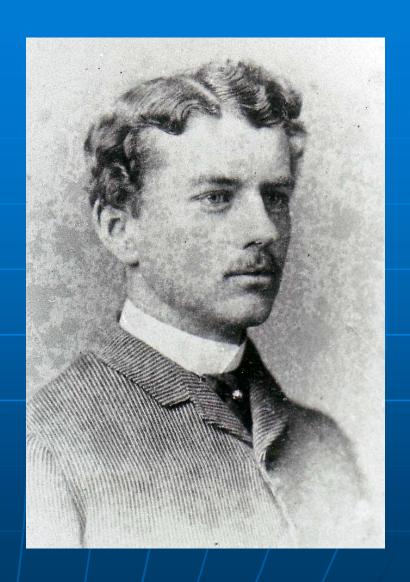


Blue Hill Observatory is home of the oldest continuous weather record in all of North America, dating back to 1885.

Abbott Lawrence Rotch founded Blue Hill Observatory in his twenty-fourth year.

- He possessed unusual energy
- He was well educated
- He frequently traveled abroad
- He spoke German and French
- He was trained in business
- He was financially secure





Rotch chose 635-foot Great Blue Hill in Milton, Massachusetts for his new weather observatory.

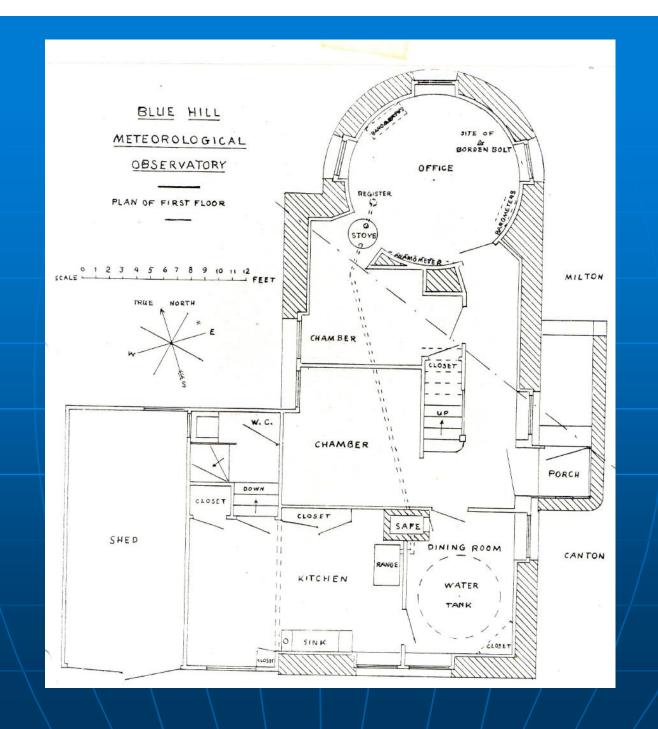
The building was designed by his architect brother Arthur Rotch.

Construction began on 18 October, 1884 at a fixed cost of \$3,500.



At midnight on 31 January 1885 a red fire and rockets announced the official opening of the Blue Hill Meteorological Observatory.





February 1. 1885.

Precepitation.		
Kind		Snow
		AM 10:55
June of begin		1.00
Direction of wind at beginning		S.E.
Time of ending		6.40 pm.
Direction of wind at ending. Changes in direction of wind.		w.
		Versed from S.E. to W
amount of a	ain (11:4:11:11.	
	arelted snow by gage	.09 in.
	melled snow by section.	
	lefth of snow	Itim.
A STATE	The same of the sa	
Self Registerin	g Thermometers	
7 AM min	Jhermometers	18:1
	edid minimum	18.1
	inum thermometer	15.7 by Exposed
	imum thermometer	30.4 by Enchosed.
The state of the s	ected minimum	15:7
	ected maximum	30.4
Ran	ige = 1111	147
	imum after selling	15.0
ma	xirum after setting	15.8
Wind		
maximum vel	locity.	
Jink of maxin	num velocity.	
Minimum vel	veity.	
Time of minin	num relocity	12-1
Changes in direction.		WE reering to W
	les in 24 hours	420
A STATE OF THE PERSON NAMED IN COLUMN TO STATE OF THE PER	Miscellaneous.	
Wind Velocity of 36 m	ils noted at 8 P.M	
" " 42.		ALC
48		
No. of the last of		197

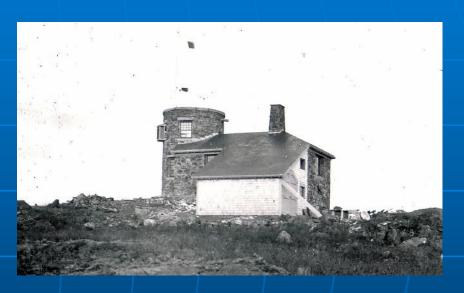
Hand-written records from first day of observations on 1 February, 1885



Northeast



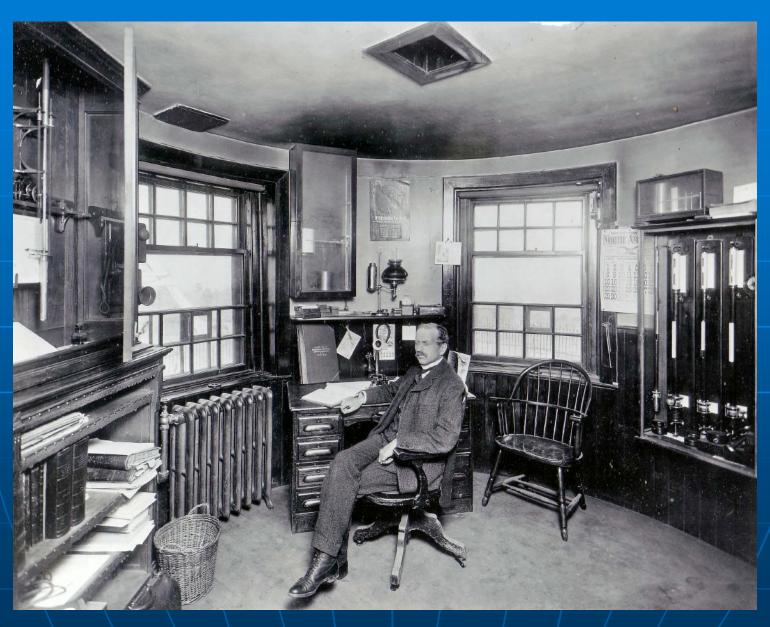
Three views of the new Observatory

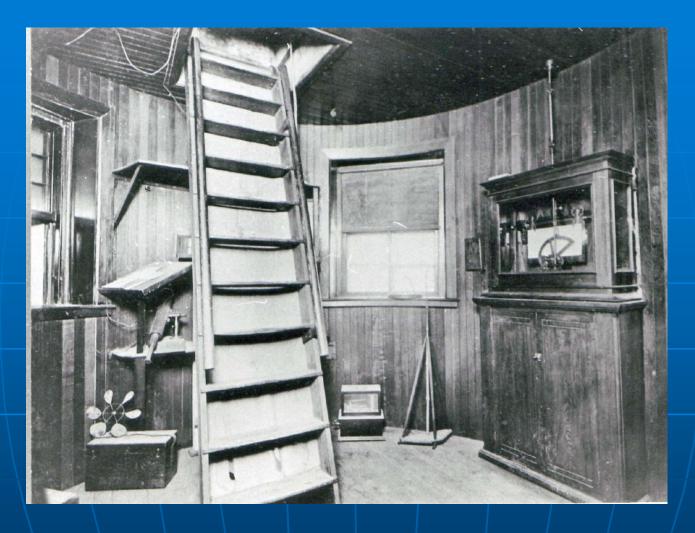


West

South

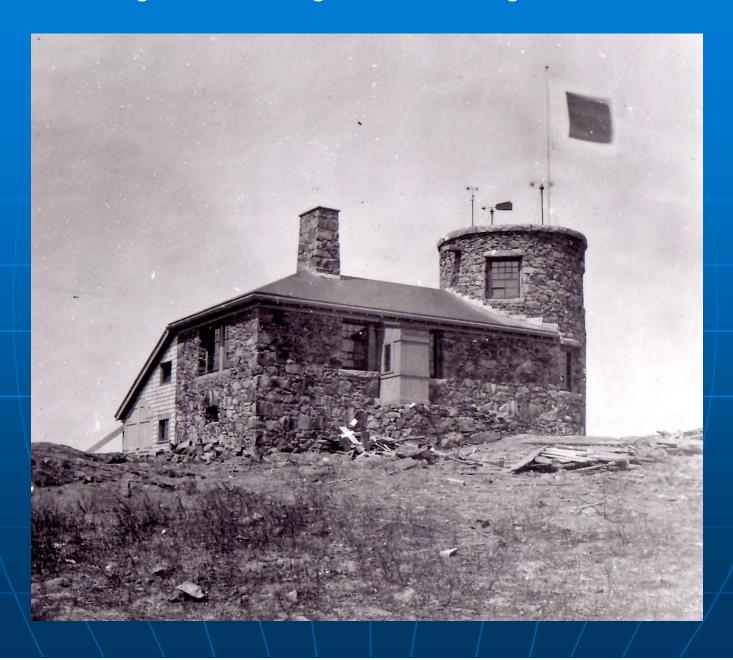
Rotch seated at his desk in first floor office

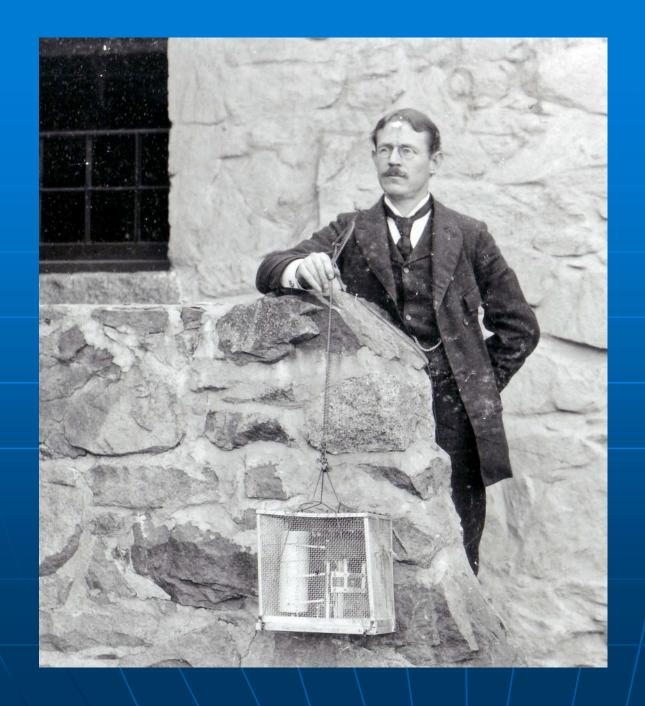




Second floor of old tower after sheathing

Colored flags alerted neighbors to changes in the weather

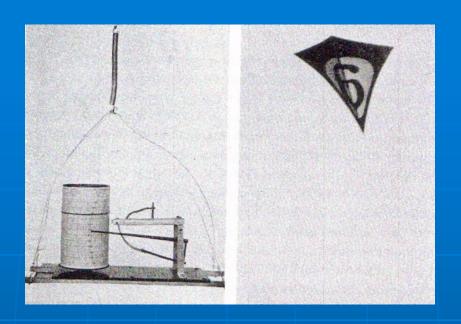




Henry Helm Clayton, age 24, arrived at the Observatory in 1886. His interest in clouds led to the first detailed cloud statistics in America and provided the first basic climatology of cloud types, height, and velocity in the Western Hemisphere







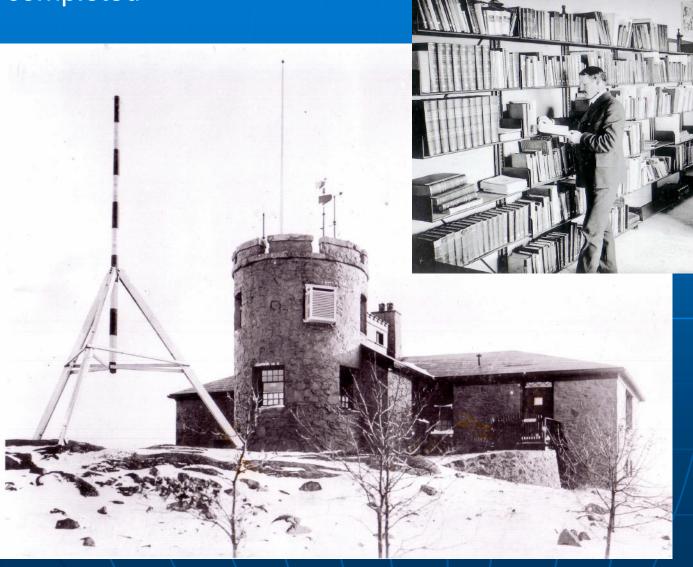
On 4 August 1894 using a series of Malay tail-less kites, a thermograph was carried aloft to an altitude of 1,400 ft.





Steam-driven windlass used in kite soundings beginning in March, 1897

1902 - new west wing was completed



June 26, 1903 the new library opens

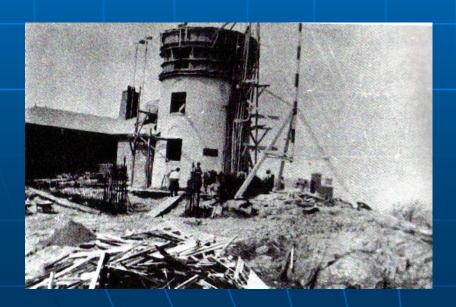






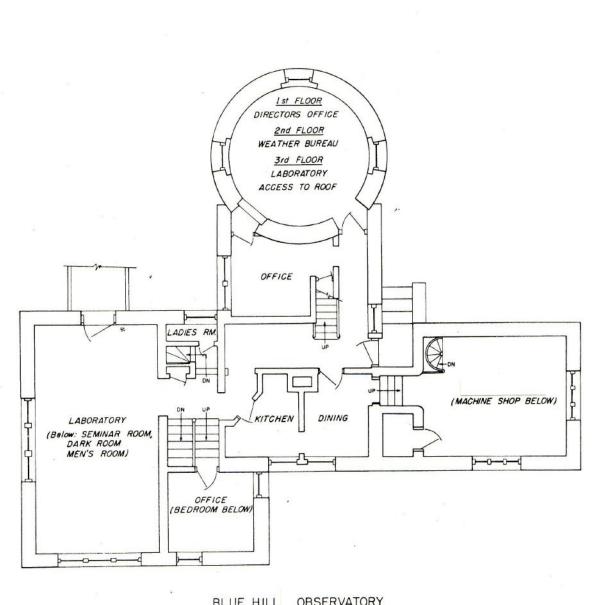
New three-level tower construction began on 25 March, 1908.

- 4 June, 1908 new tower completed.
 - 800 tons of concrete mixed by hand and hauled up in buckets
 - Anemometers moved to chimney
 - Parapet of tower notched to form a perfect compass





• Tower completed at a cost of \$5,000



BLUE HILL OBSERVATORY

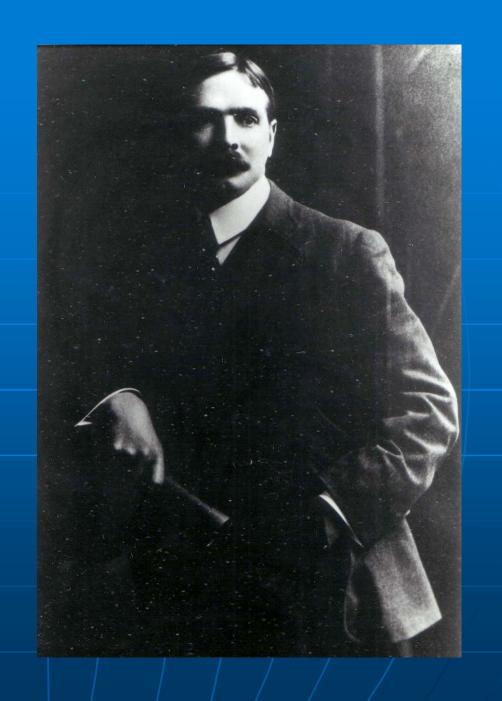
1912

Rotch dies suddenly

1913

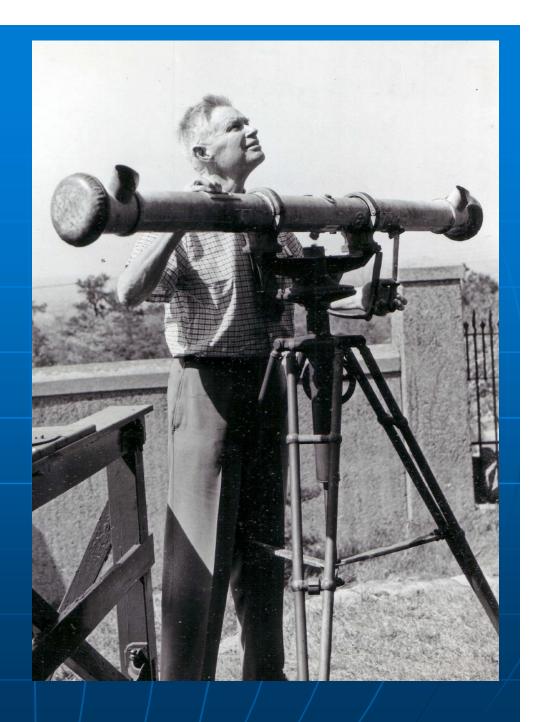
Harvard College takes over Observatory

Alexander McAdie appointed Director



Dr. Charles Franklin Brooks was Director from 1931 to 1958

- Restored the observing program
- Restored Mt. Washington and trained the observers
- Co-founder of the American Meteorological Society in 1919



1935 - first successful radio-meteorograph transmission from a free balloon was made.



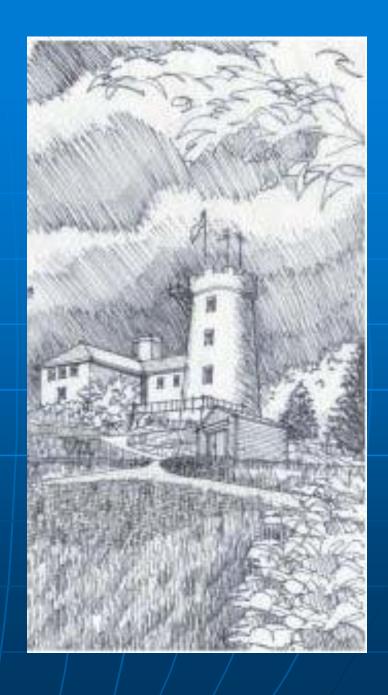
1936 - balloon launcher was completed

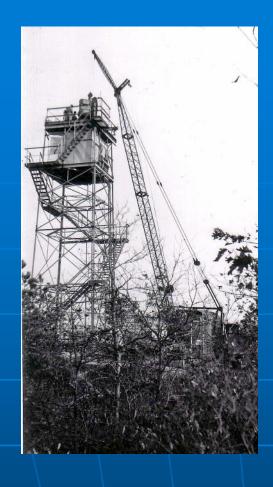


THE BLUE HILL METEOROLOGICAL OBSERVATORY OF HARVARD UNIVERSITY, MILTON, MASSACHUSETTS

21 September, 1938

Observatory survives wind gust of 186 mph in Great New England Hurricane







1954 - Weather radar installed on Great Blue Hill



1959 - U.S. Weather Bureau takes over climatological observations

