

JULY 29, 1941 TWO WATERSPOUTS OVER MANILA BAY.

1.25 p.m. (non-standard time). On the Azotea, the fathers called my attention to the two waterspouts over Manila Bay.

No. 1 - was in line with Dakota Street gate - entrance to Ateneo.

No. 2 - was in line with Zobel's house - i.e. the end of P. Faura Street.

Each waterspout was thin, hanging from the cloud, but neither was long enough to reach the water. Both were straight, but No. 1 began to curve slightly just before I left the Azotea.

I watched them for about one minute. Then, to the Observatory office, and to the Central Tower.

1.27 p.m. approximately - on the Central Tower.

No. 1 was curved and thicker. It was shaded, that is, the edges were darker than the center, as though it were hollow.

No. 2 was curved, not very much thicker, apparently, and almost uniform in color - no shading.

The base of each waterspout could be seen, that is, the spray on the water surface. No. 2 was nearer the shore line. Both were inside the breakwater. Both were moving rather rapidly in a generally northeasterly direction. No. 2 was threatening Pier 7.

The spray under each waterspout was about the same. It extended about the same length that one of the harbor launches would show, and the upward distance was about one-half of the horizontal distance.

The upper parts of both waterspouts did not reach the water. They extended at the most about two-thirds of the distance downwards, but most of the time the tips were about half way down. The tips were not distinct and what could be seen of the lower parts of the waterspouts was seldom quiet, always waving back and forth.

For a short time, No. 1 was curved almost into a semicircle.

Beyond the waterspouts, a very dark slate-colored cloud was moving toward the city. At the Observatory, before the waterspouts were noticed, about 1.15 p.m., there was light rain. On the Central Tower, light rain began again and the sound of heavy rain on nearby roofs was heard.

About 1.32 p.m. the waterspouts had definitely disappeared. It was beginning to rain hard.

A ship, tied up to southern side of Pier 7, had smoke rising from the stack during the whole period. This smoke showed the presence of a rather strong wind from the S or SW, for the smoke was blown horizontally from the top of the stack.

In the east, at 1.35 p.m., sunshine over the distant hills.