

K. E. Fields, Director
Division of Military Application

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John C. Bigher, M.D., Director
Division of Biology and Medicine

N 26360

METEOROLOGICAL DATA ON FIRST SHOT - 2/23/54 - 1845Z

SYMBOL: H:JCB

The following data have been supplied by the U.S. Weather Bureau:

Height of cloud: 60,000 feet base, 90,000 feet top
 Estimated yield: 11 MT
 Wind data: 0 - 5000 feet, easterly winds; normally extend much higher
 5000-8000 feet, calm
 8000-55,000 feet - westerly or southwesterly; maximum speed 35-40 knots at 40,000 feet
 55,000-90,000 feet - variable in lower levels, changing to easterly; 35 knots at 90,000 feet.

Wind structure to west of site is somewhat similar.

The trajectory of maximum speed eastward, as adjusted by AFOAT plane observations, is as follows. This is at the height of 40,000 feet (200 mb), and represents the first air mass to reach North America.

03Z	March 1	171°E	14°N	Adjusted
15	1	173°W	17°N	Adjusted
03	2	165°W	17.5°N	Adjusted
15	2	152.5°W	23.5°N	Adjusted - south of Honolulu
03	3	139.5°W	25.5°N	Adjusted
15	3	126.5°W	21°N	(Predicted)
03	4	113°W	26°N	Adjusted - Lower California

Expected that this material will move across extreme southern part of United States.

All other eastward winds are moving much more slowly.

NON-CCRP

CLASSIFICATION CANCELLED

BY AUTHORITY OF DEC 56-50.2, III -12
 BY *Jane Day* DATE 5/14/81
 BY *William K. ...* DATE 5-15-81

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 326 US ATOMIC ENERGY COMMISSION
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