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LOS ALAMOS SCIENTIFIC LABORATORY  
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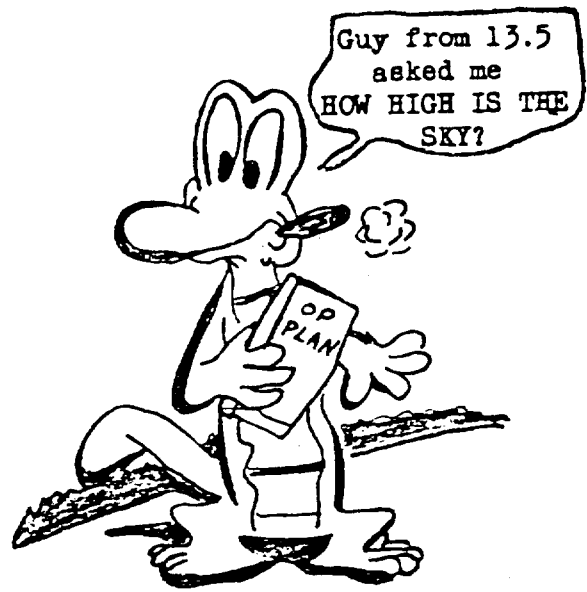
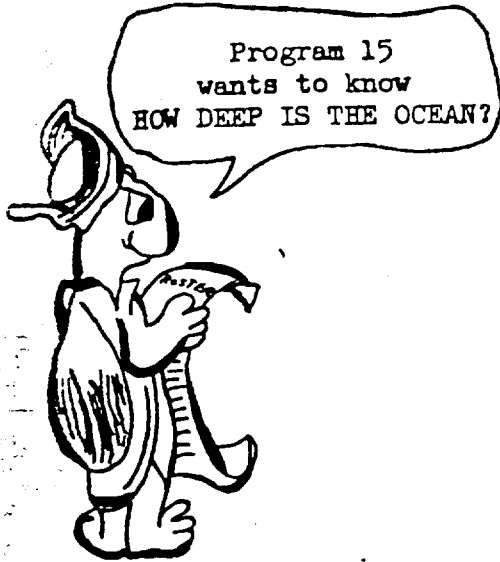
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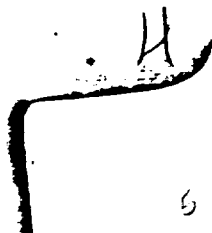
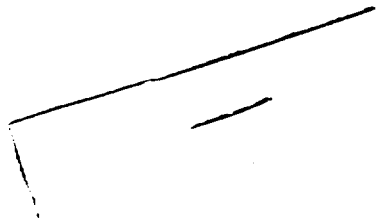
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CHAPTER 3

MISCELLANEOUS DATA

This chapter is simply a collection of random information that may be of use and not otherwise easily obtainable in the field. No effort has been made to achieve the optimum organization.

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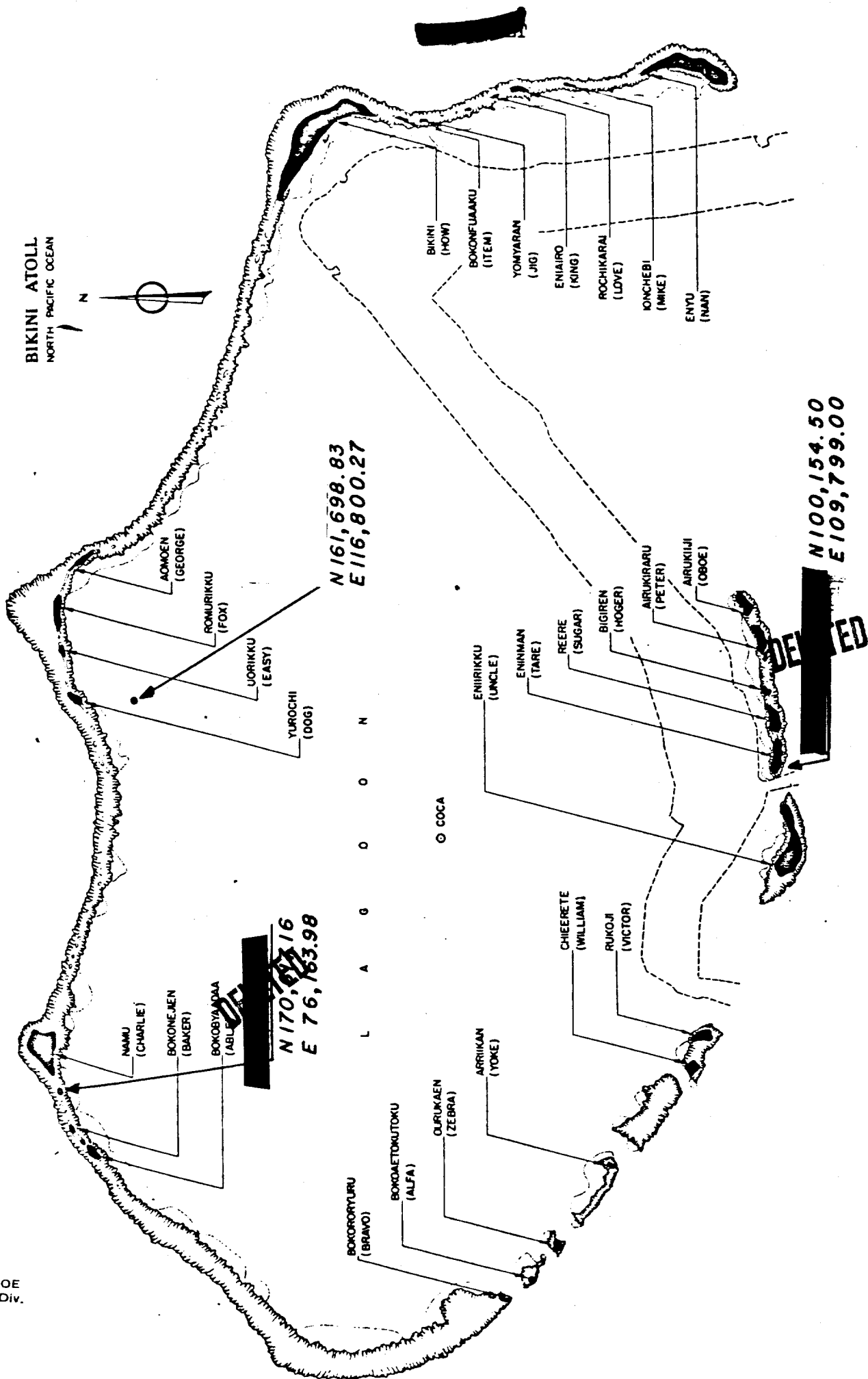


Fig. 3.1 - Sketch of Bikini Atoll,  
Showing Zero Points

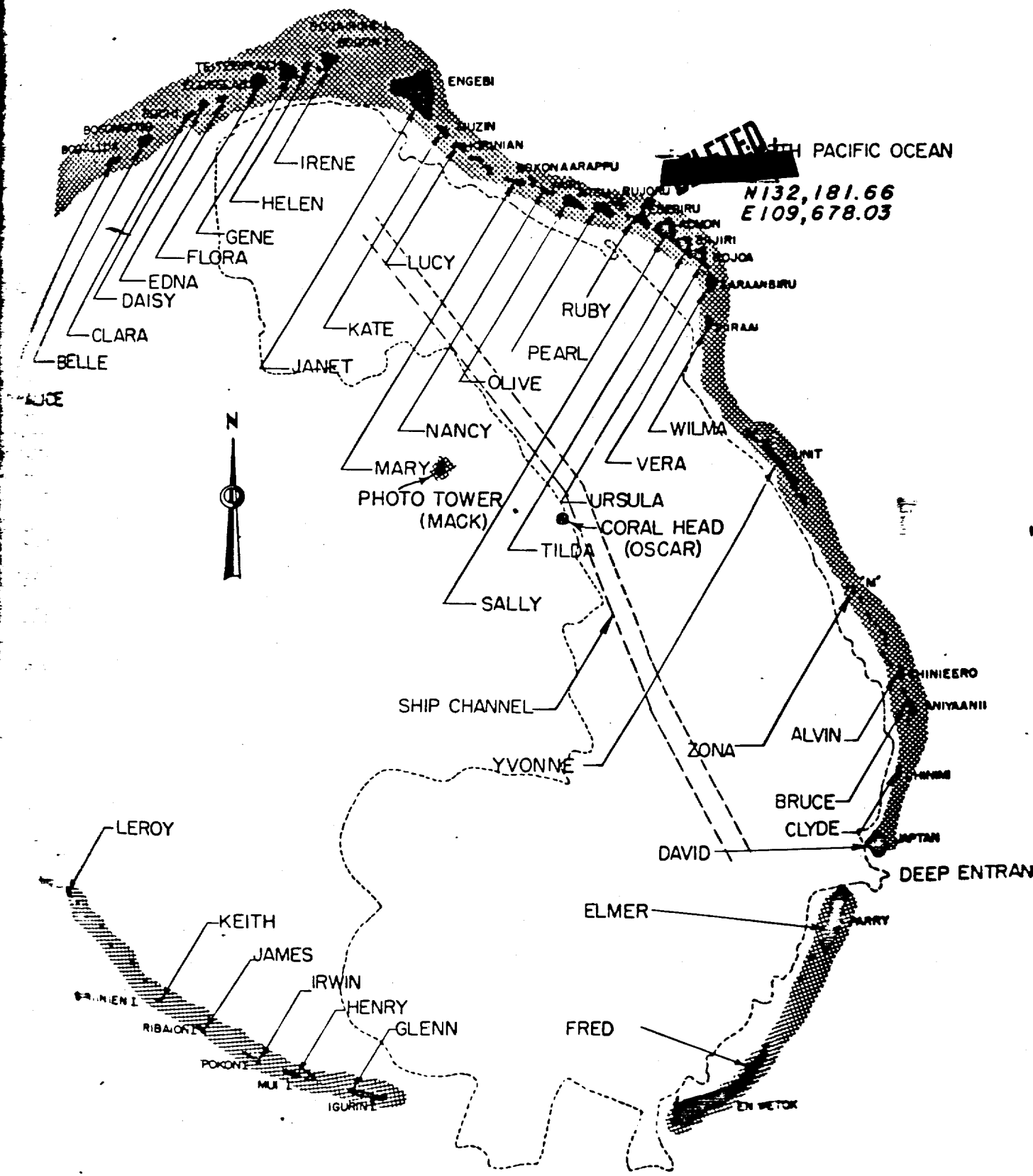


Fig. 3.2 - Sketch of Eniwetok Atoll, Showing Zero Point

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TIME IN SERVICE

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TIME IN SHAKES (ARBITRARY ORIGIN)

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TIME - SECONDS

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**DISTANCE - METERS**

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TIME - SECONDS

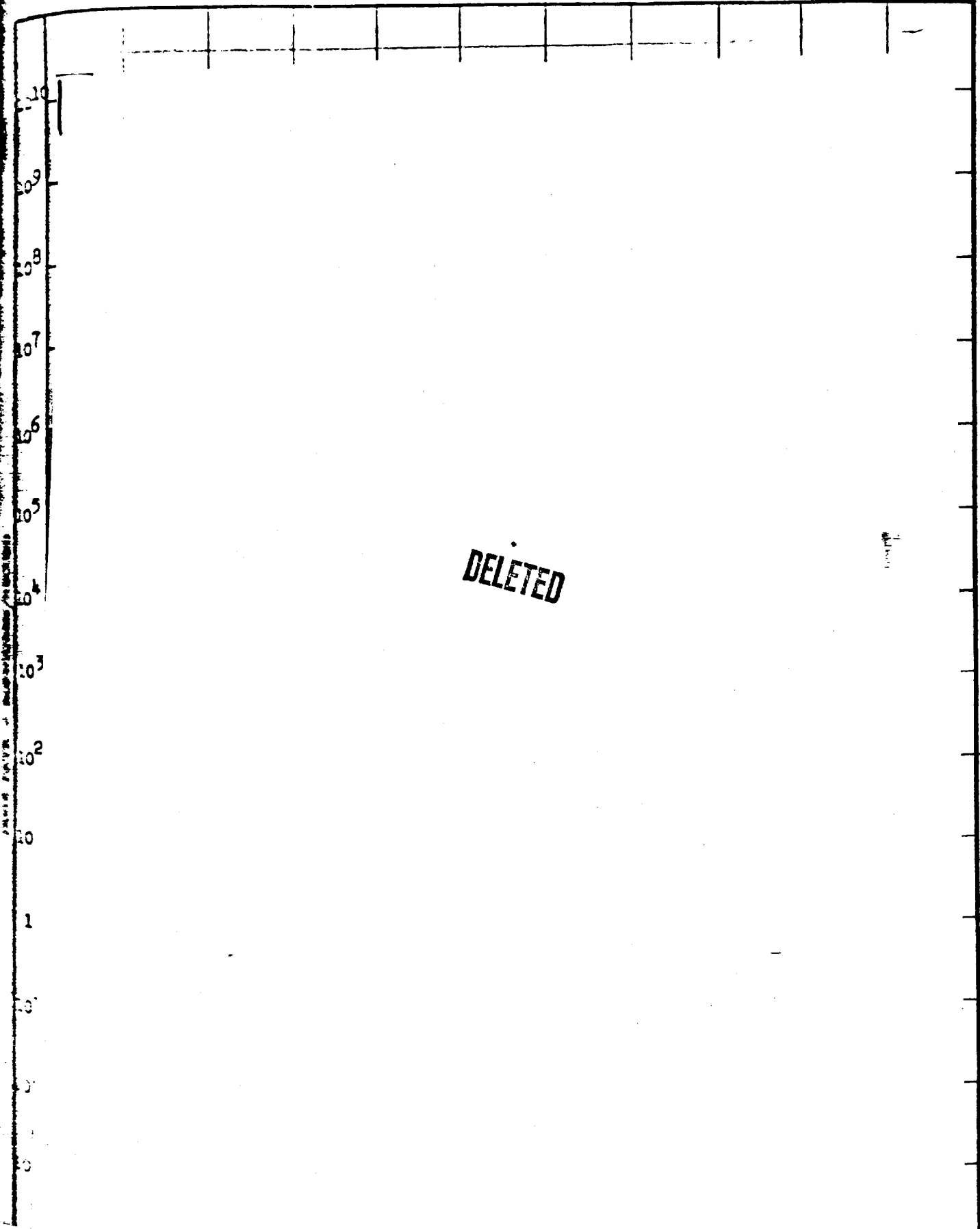
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TIME - SECONDS

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TABLE 3.1  
IVY MIKE PEAK FALL-OUT INTENSITY  
(M. Klein)

Location	Intensity
Engebi	10 <sup>3</sup> R/hr
Aomon	190 R/hr
Runit	9 R/hr
Rigili	.5 R/hr
Aniyaani	150 mR/hr
Eniwetok	1 mR/hr*

\*Questionable

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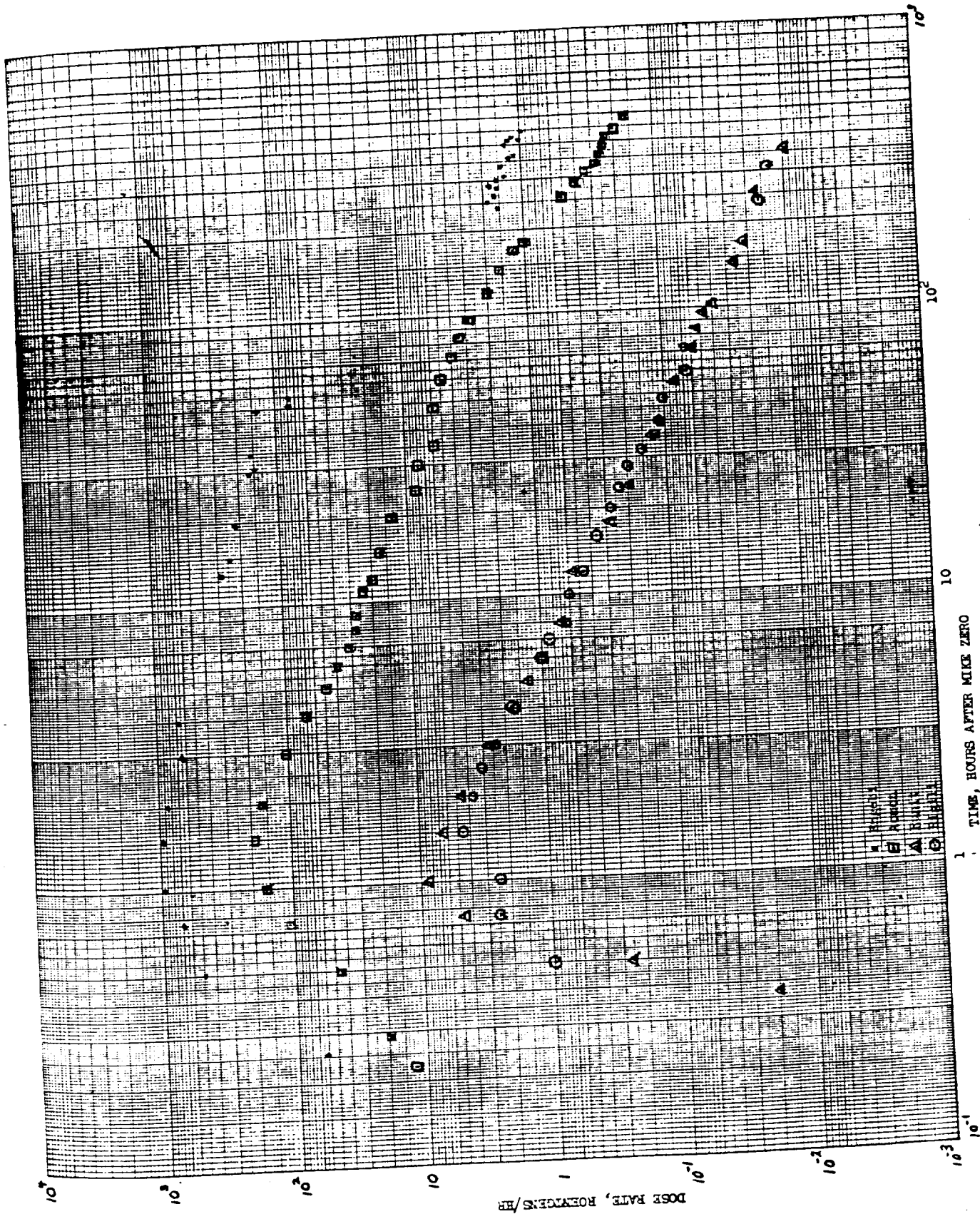


Fig. 3.11 - Mike Fall-out Intensity vs Time (M. Klein)

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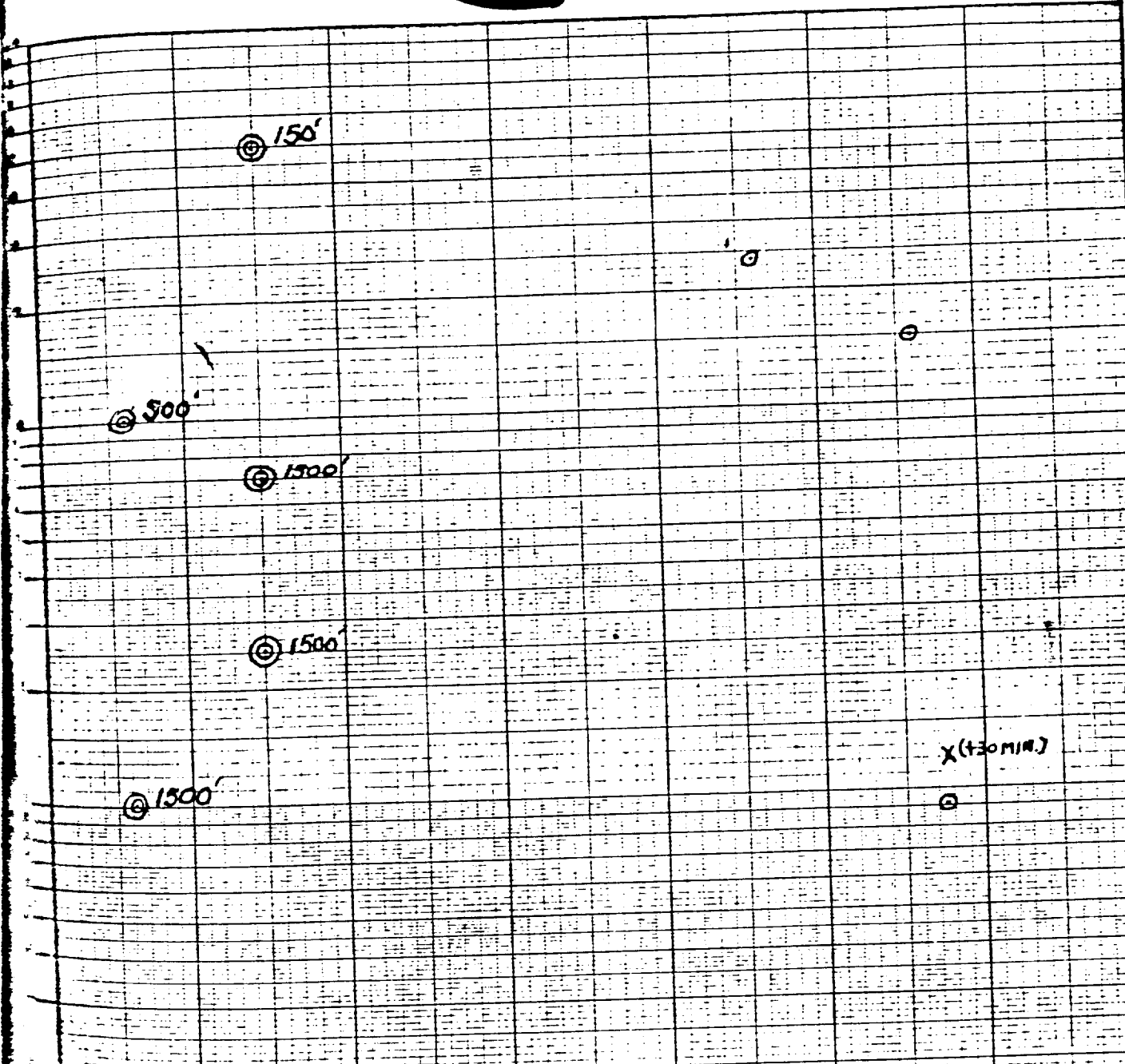


Fig. 3.12  
CONTAMINATION FROM MIKE SHOT  
M-Day

- X Ground readings--East Side Islands
- Ground readings--West Side Islands
- Air Readings--25 ft--East Side Islands
- △ Air Readings--25 ft--West Side Islands
- ⊙ Air Readings Altitude as Shown

NOTE: Figs. 3.12 thru 3.25 are from  
RadSafe Data

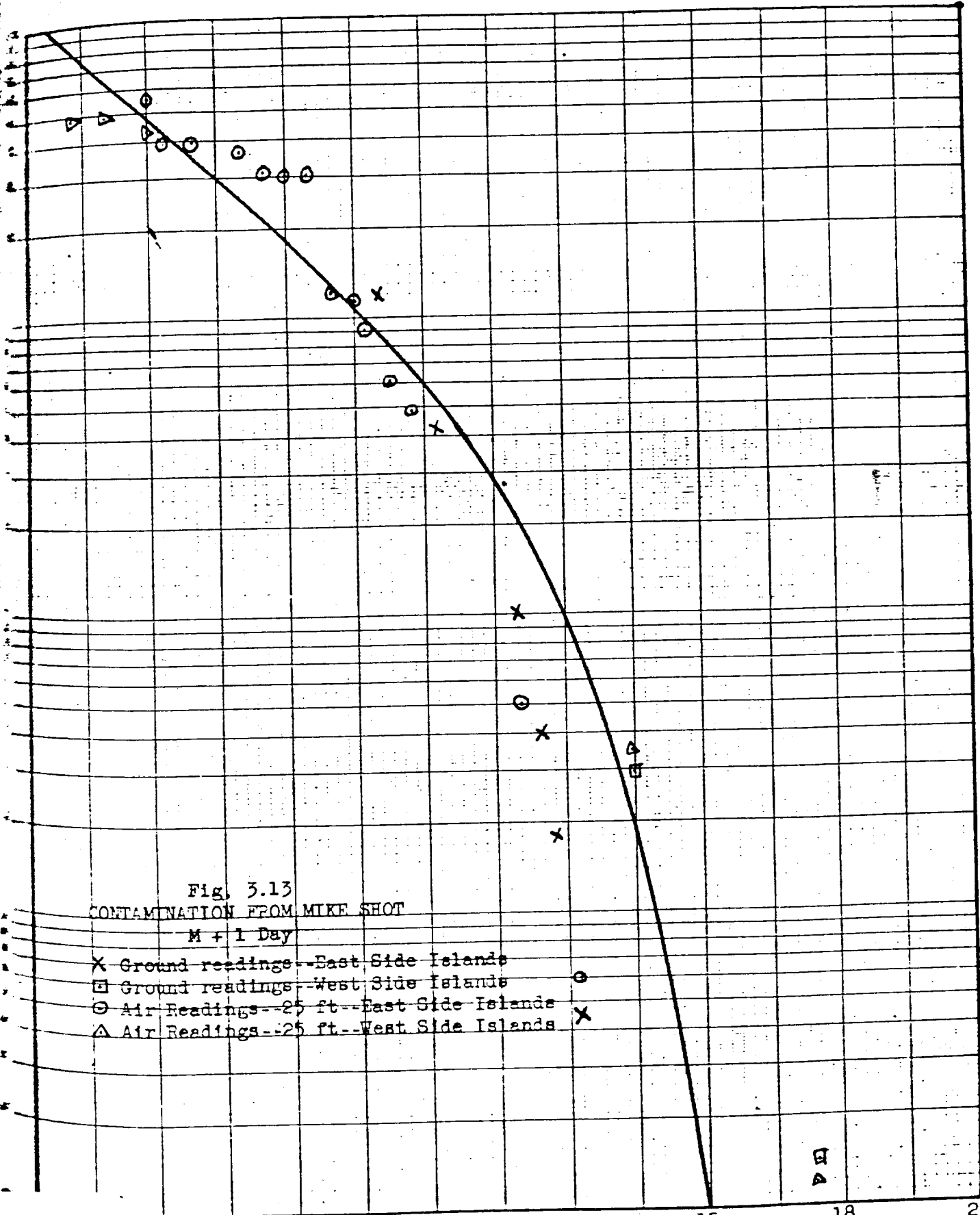


Fig. 3.13  
CONTAMINATION FROM MIKE SHOT  
M + 1 Day

- X Ground readings--East Side Islands
- Ground readings--West Side Islands
- Air Readings--25 ft--East Side Islands
- △ Air Readings--25 ft--West Side Islands

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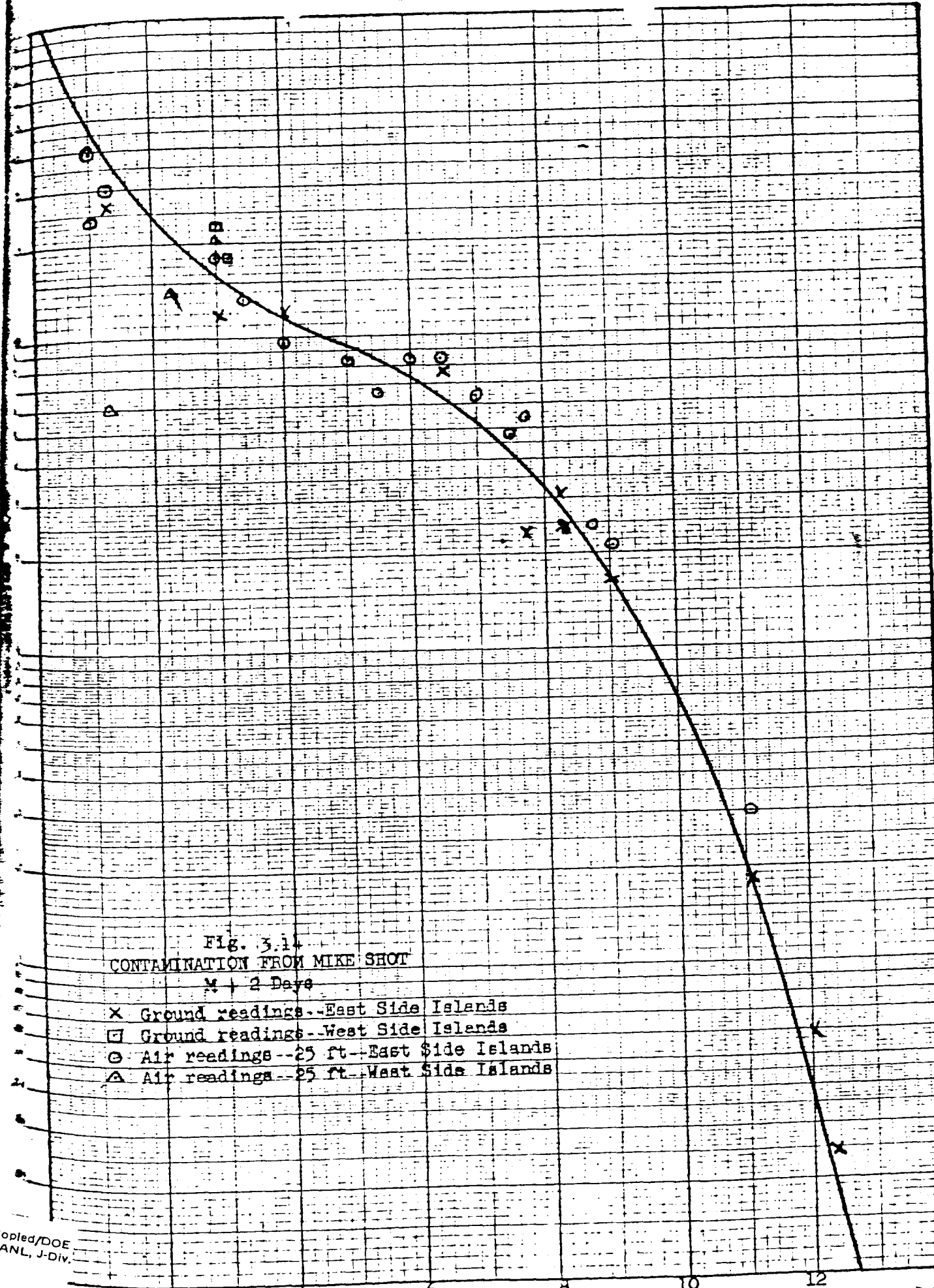


Fig. 3.14  
CONTAMINATION FROM MIKE SHOT  
X + 2 Days

- X Ground readings--East Side Islands
- Ground readings--West Side Islands
- ⊙ Air readings--25 ft--East Side Islands
- △ Air readings--25 ft--West Side Islands

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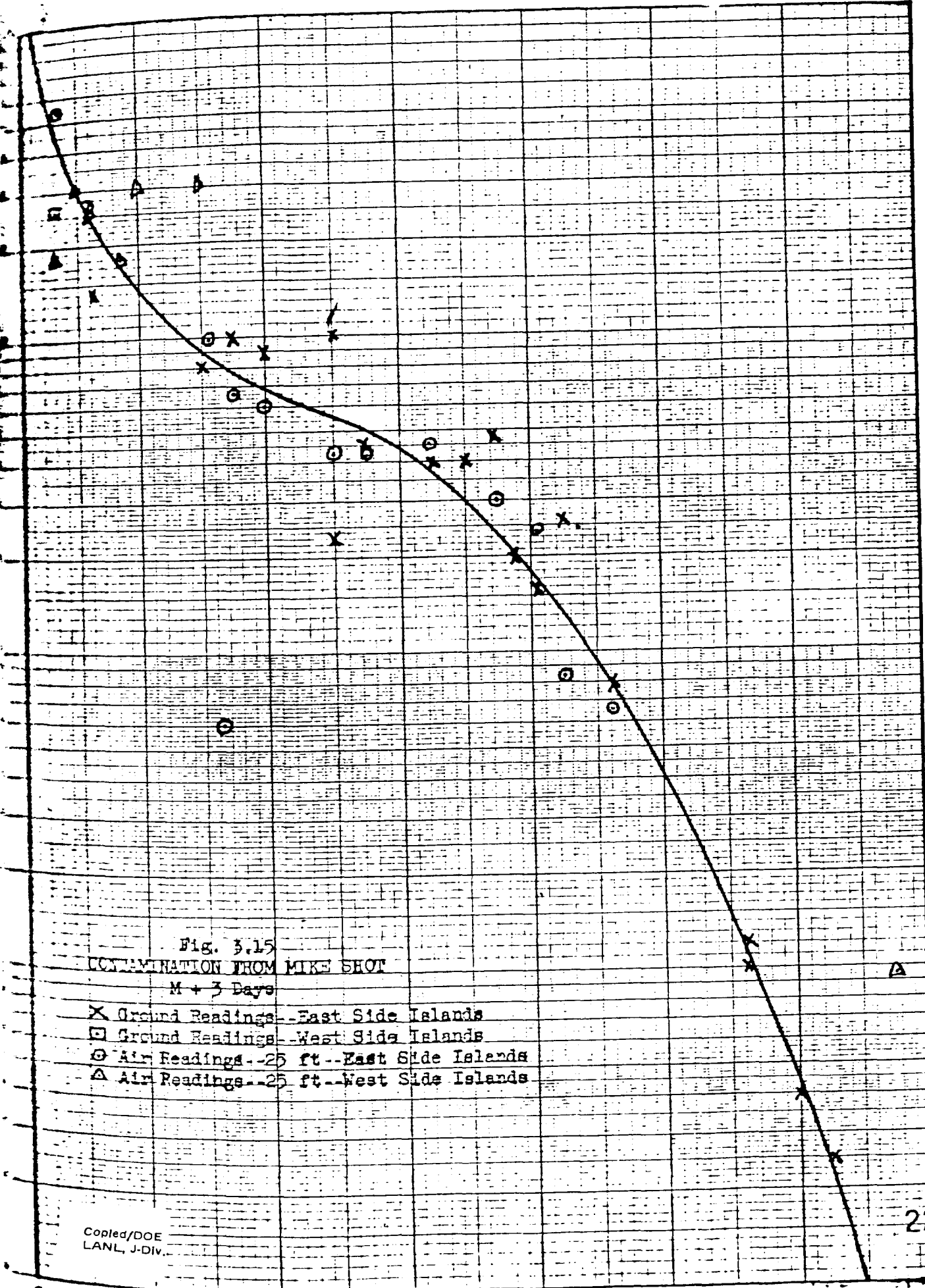
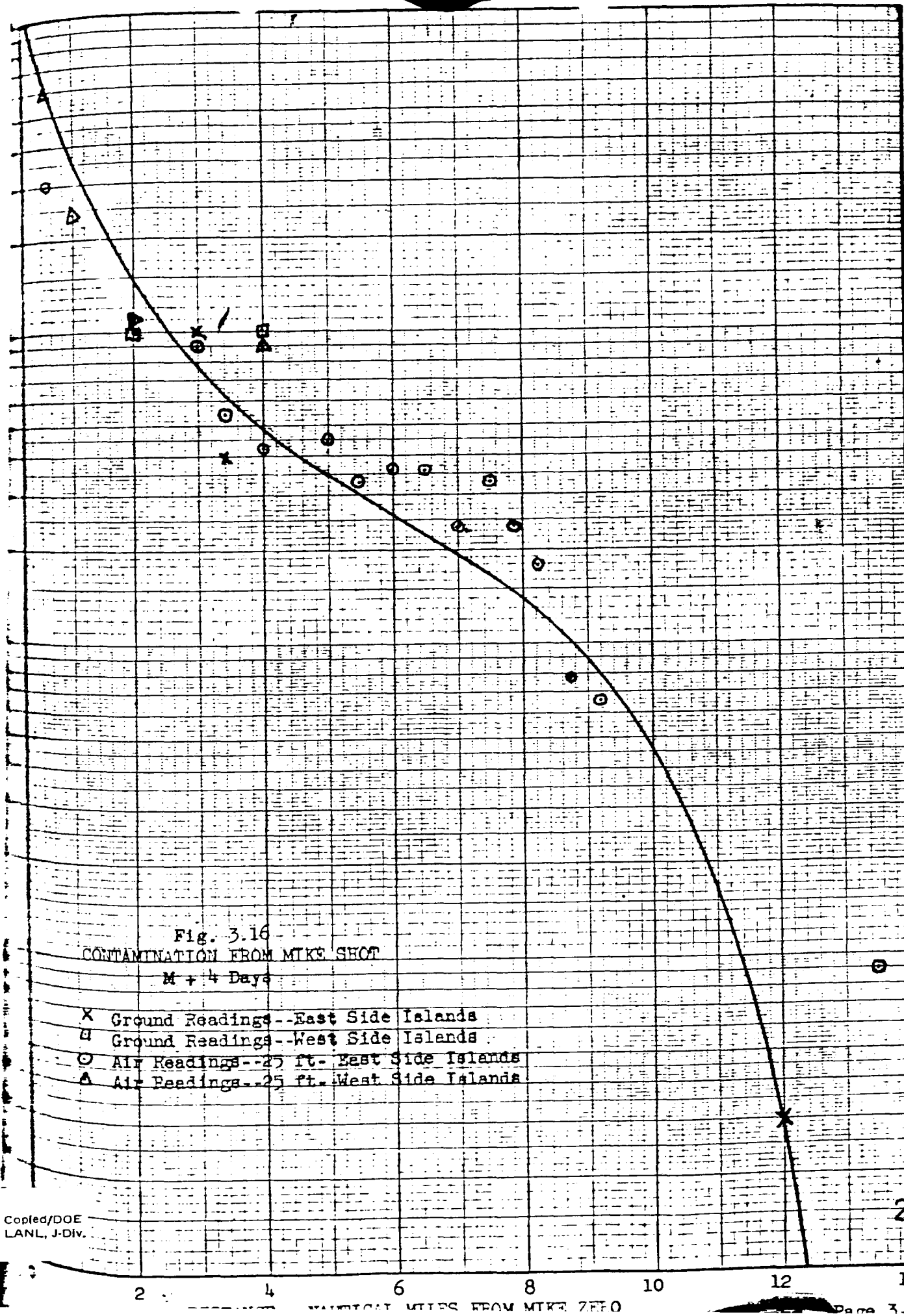


Fig. 3.15  
CONTAMINATION FROM MIKE SHOT  
M + 3 Days

- X Ground Readings--East Side Islands
- Ground Readings--West Side Islands
- ⊙ Air Readings--25 ft--East Side Islands
- △ Air Readings--25 ft--West Side Islands

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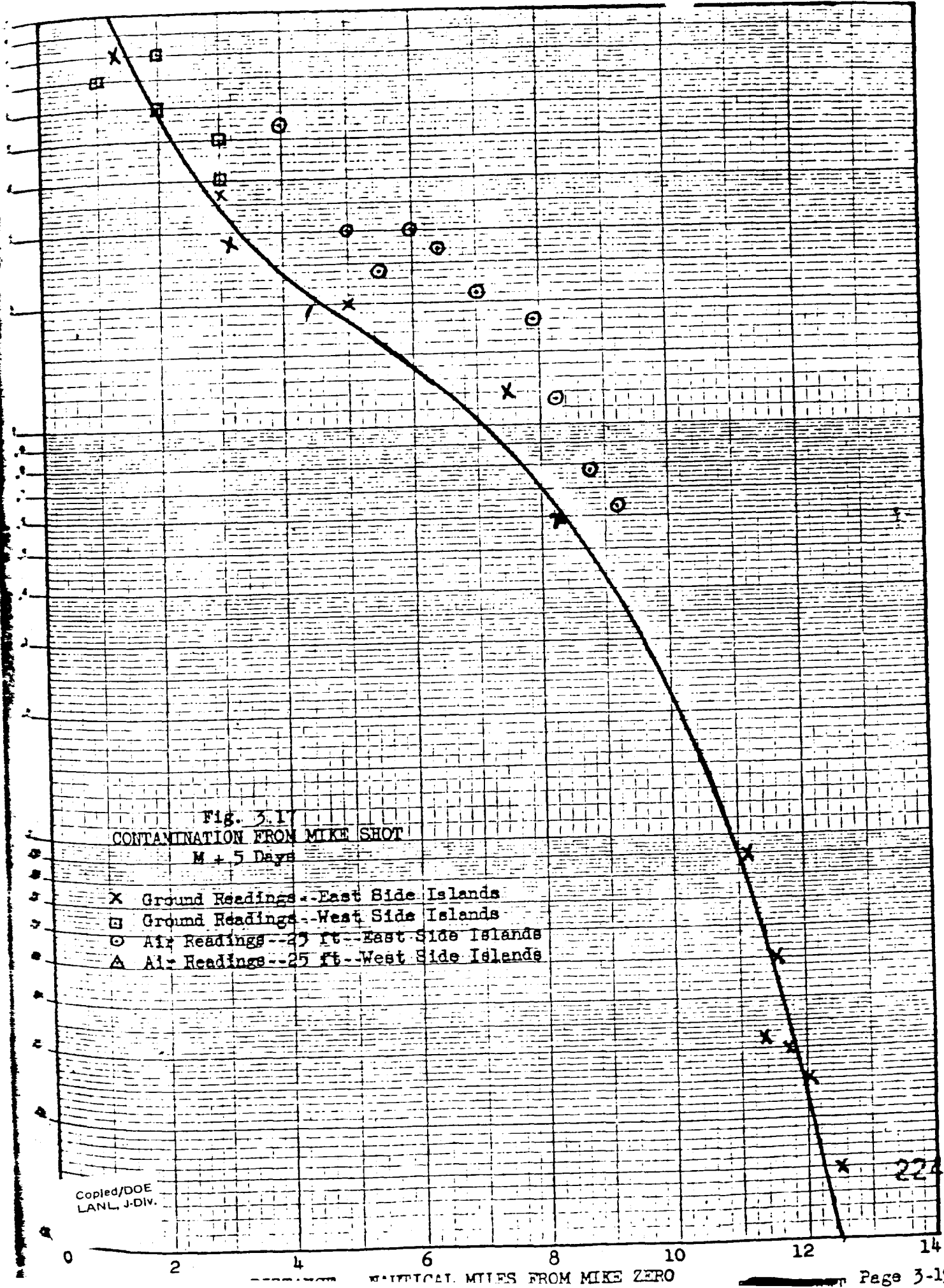


Fig. 3.1  
 CONTAMINATION FROM MIKE SHOT  
 M + 5 Days

- X Ground Readings - East Side Islands
- Ground Readings - West Side Islands
- Air Readings - 25 ft - East Side Islands
- △ Air Readings - 25 ft - West Side Islands

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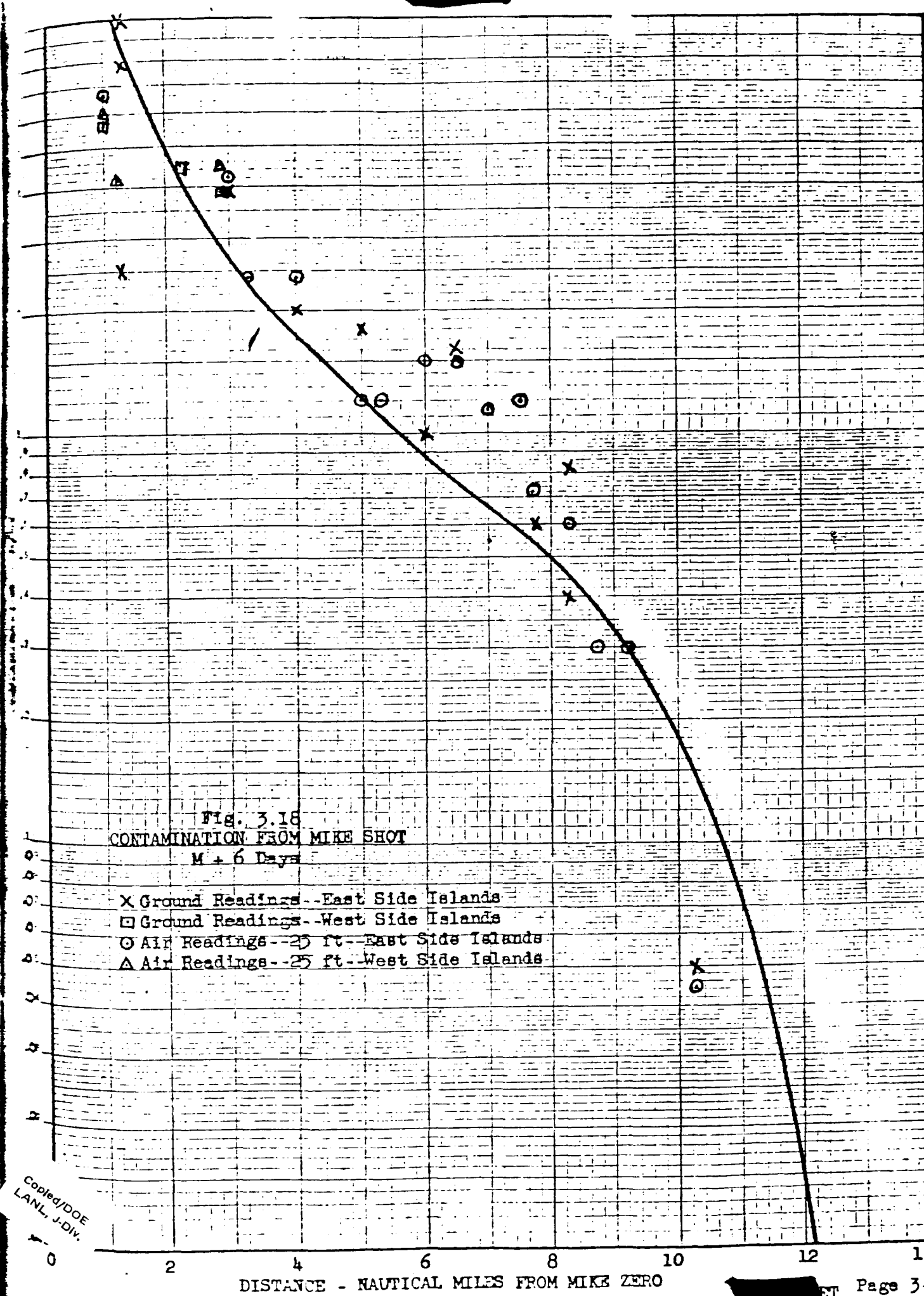


Fig. 3.18  
 CONTAMINATION FROM MIKE SHOT  
 M + 6 Days

- X Ground Readings -- East Side Islands
- Ground Readings -- West Side Islands
- Air Readings -- 25 ft -- East Side Islands
- △ Air Readings -- 25 ft -- West Side Islands

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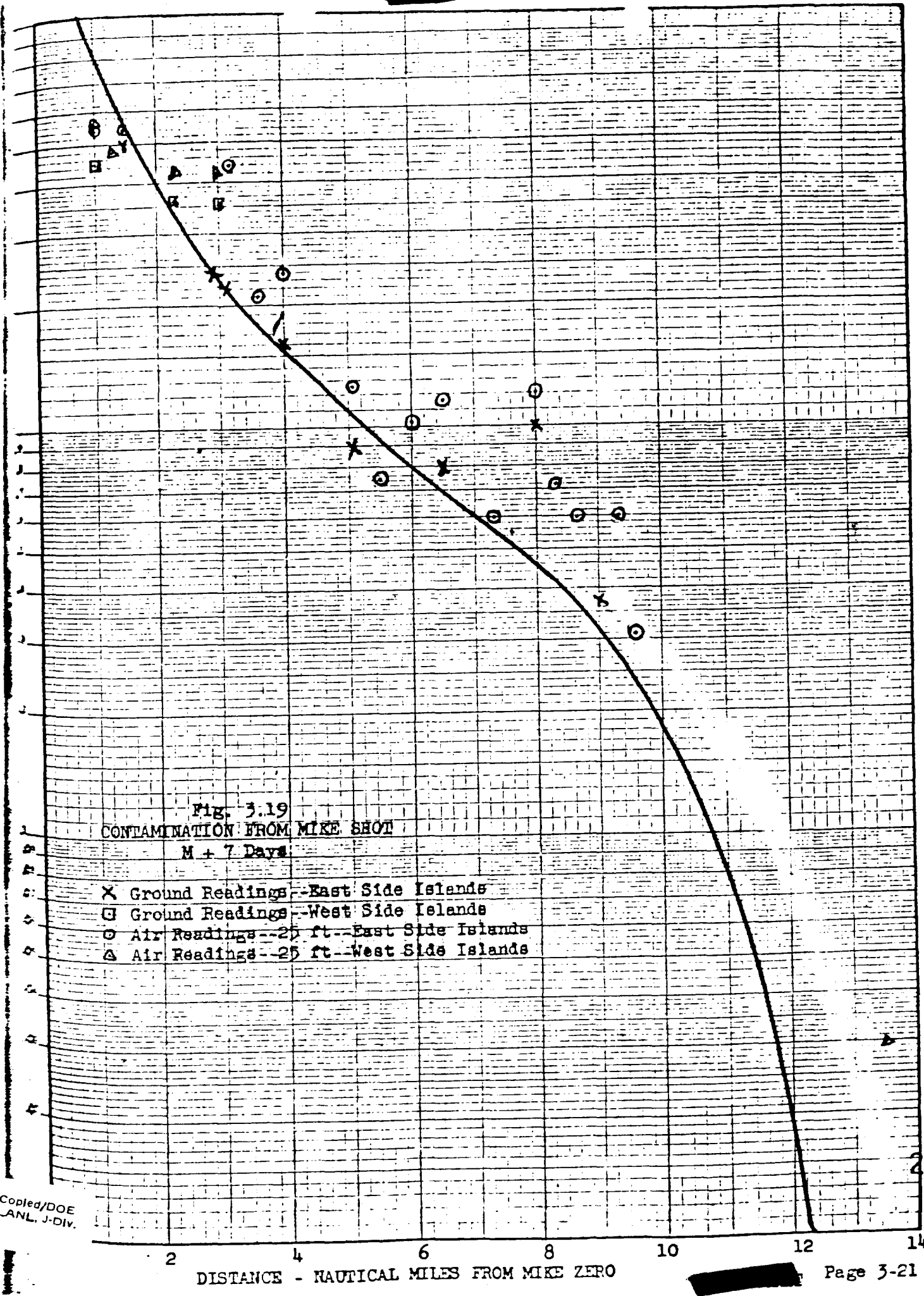


Fig. 3.19  
 CONTAMINATION FROM MIKE SHOT  
 M + 7 Days

- X Ground Readings--East Side Islands
- Ground Readings--West Side Islands
- Air Readings--25 ft--East Side Islands
- △ Air Readings--25 ft--West Side Islands

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DISTANCE - NAUTICAL MILES FROM MIKE ZERO

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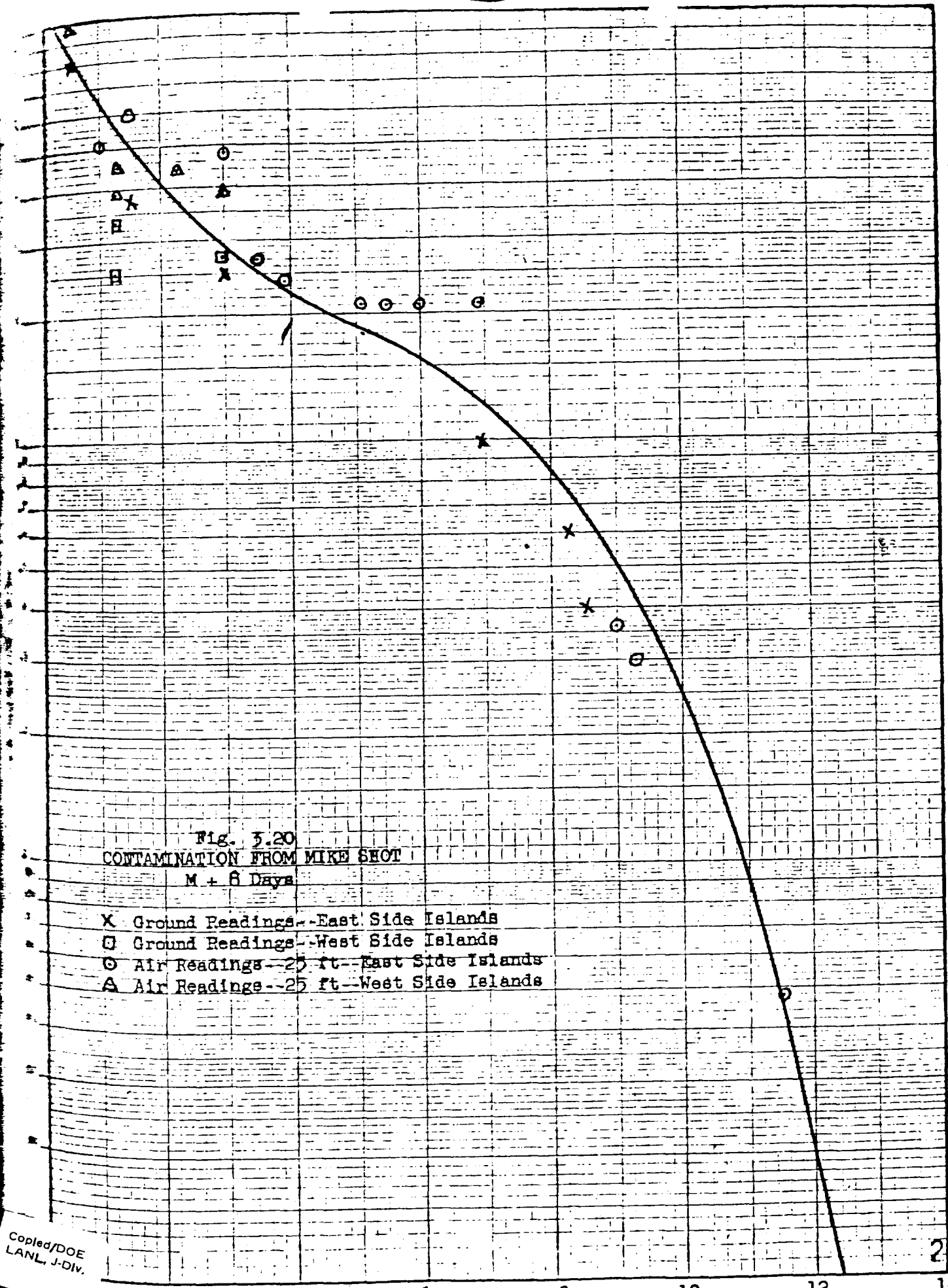
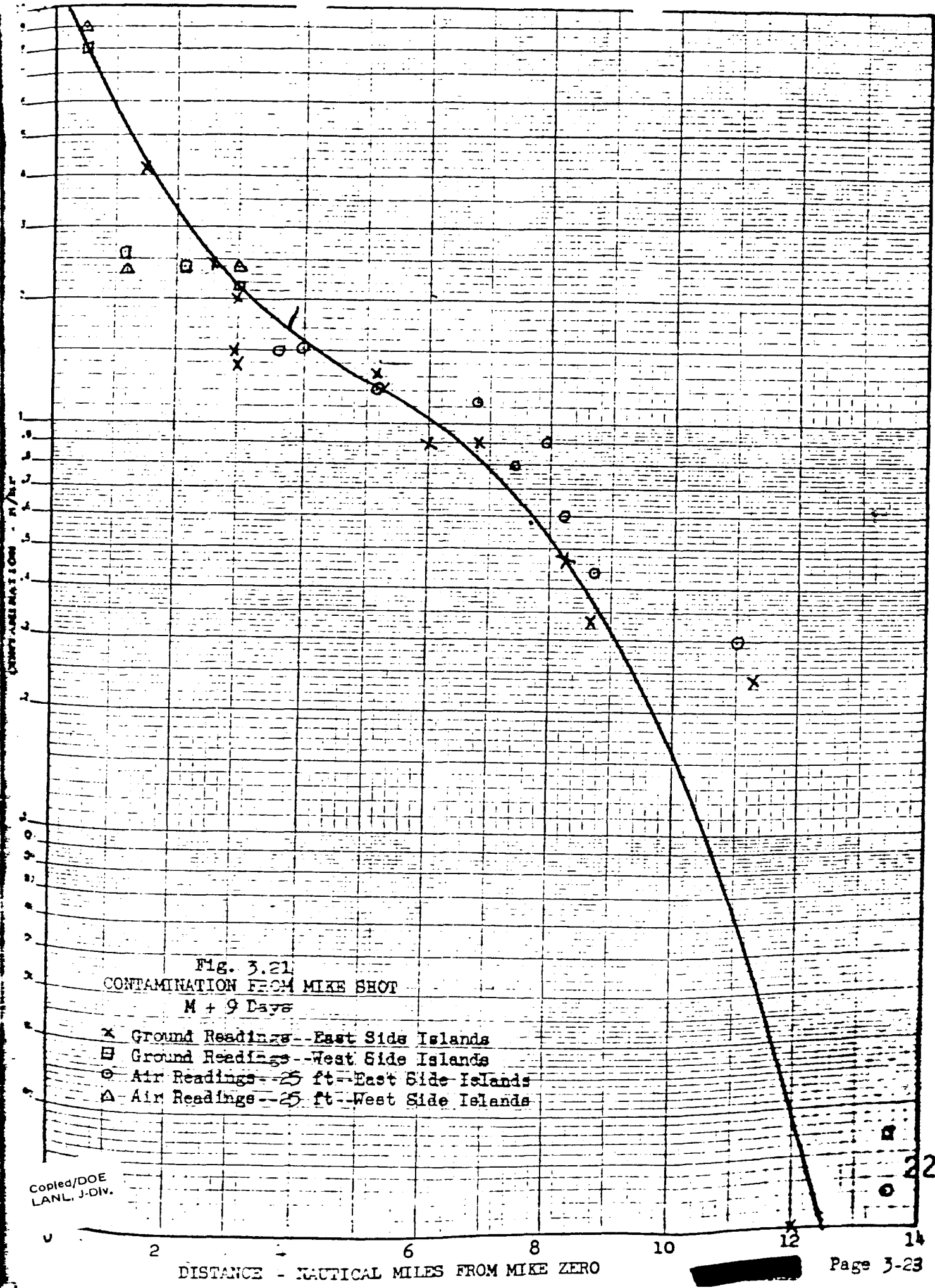


Fig. 3.20  
CONTAMINATION FROM MIKE SHOT  
M + 6 Days

- X Ground Readings - East Side Islands
- O Ground Readings - West Side Islands
- Air Readings - 25 ft - East Side Islands
- △ Air Readings - 25 ft - West Side Islands

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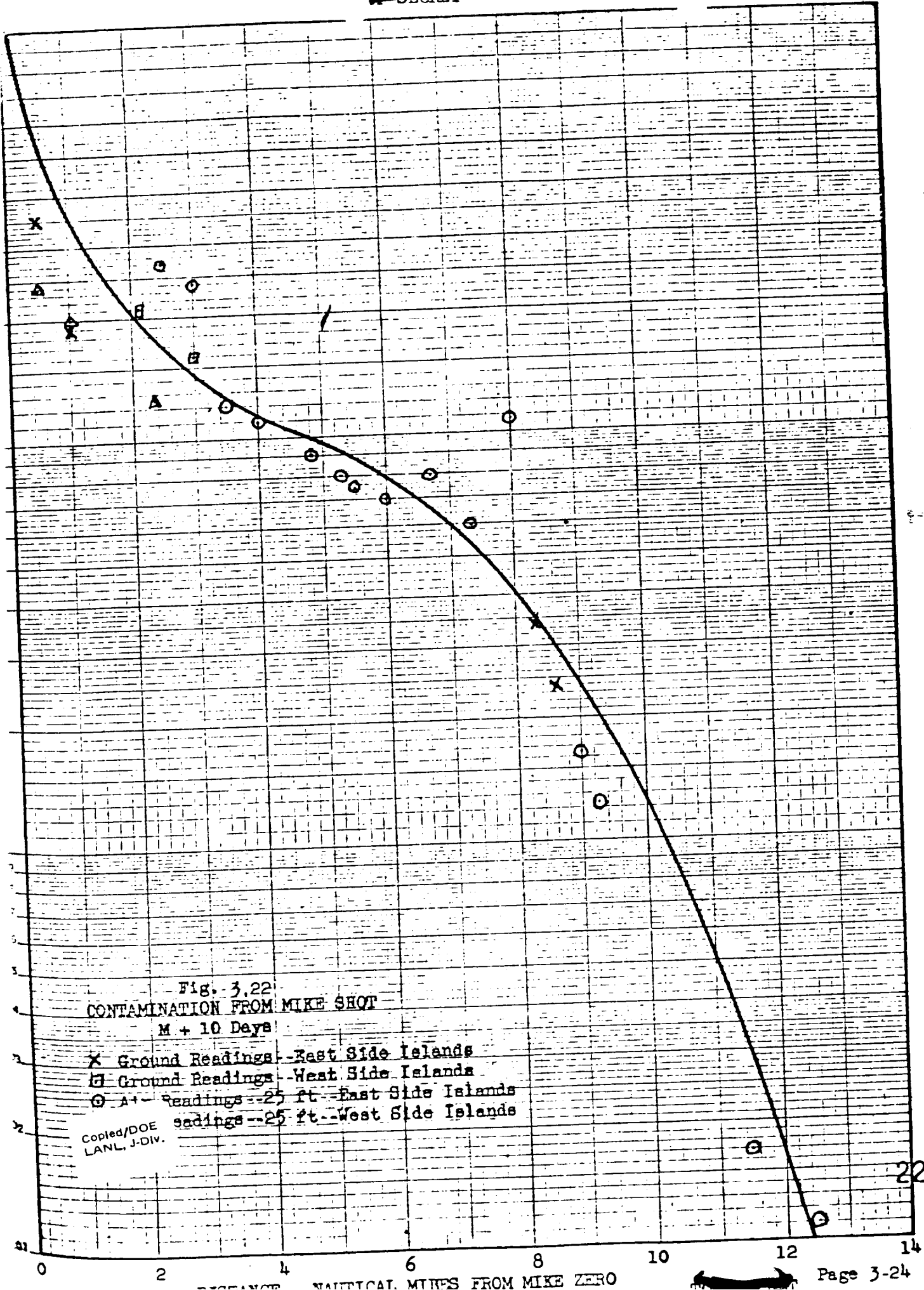


Fig. 3.22  
CONTAMINATION FROM MIKE SHOT  
M + 10 Days

- X Ground Readings - East Side Islands
- A Ground Readings - West Side Islands
- O A+ Readings - 25 ft - East Side Islands
- Readings - 25 ft - West Side Islands

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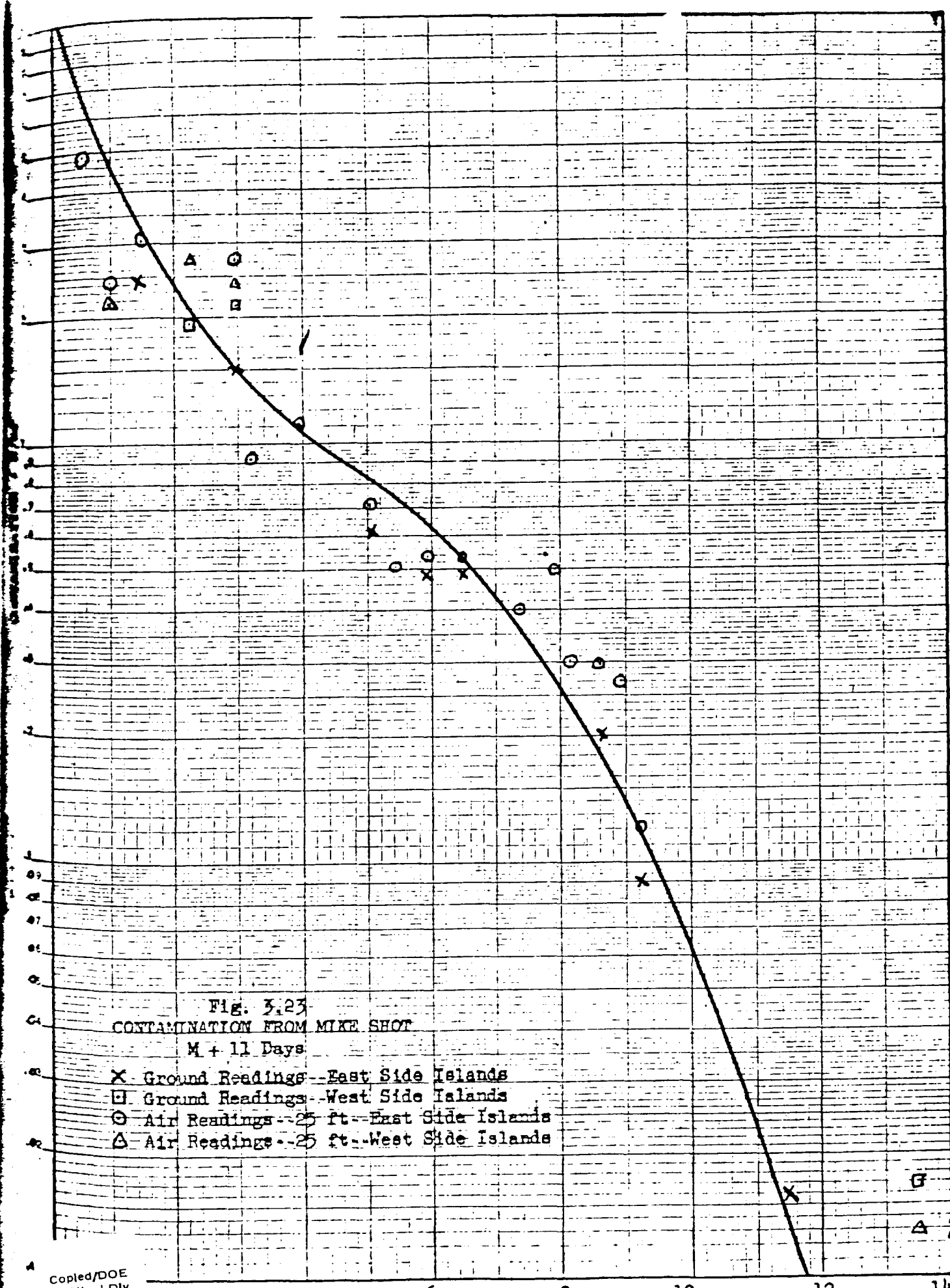


Fig. 3.23  
 CONTAMINATION FROM MIKE SHOT  
 M + 11 Days  
 X - Ground Readings - East Side Islands  
 □ - Ground Readings - West Side Islands  
 ○ - Air Readings - 25 ft - East Side Islands  
 △ - Air Readings - 25 ft - West Side Islands

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DISTANCE - NAUTICAL MILES FROM MIKE ZERO

230  
 34

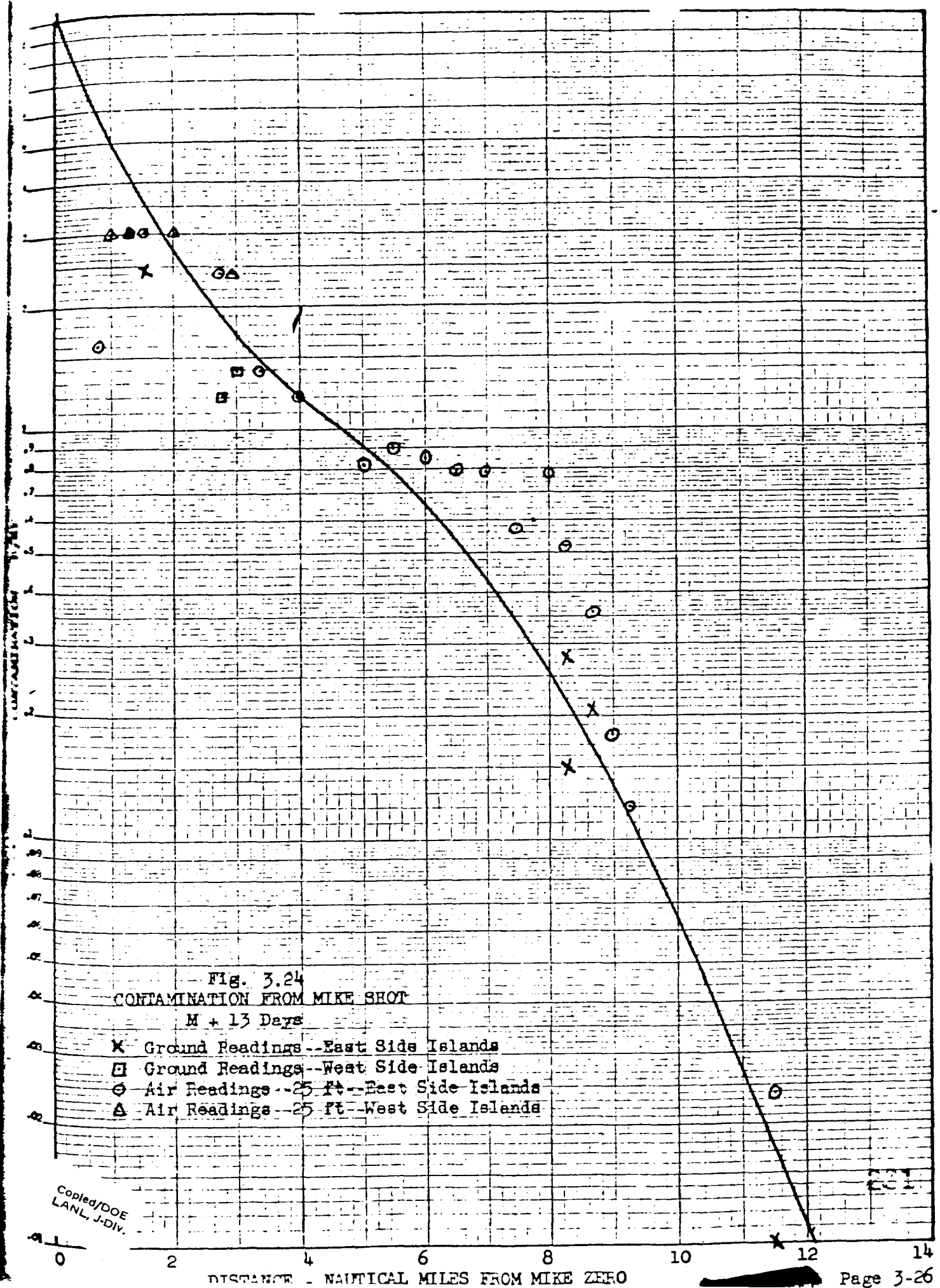


Fig. 3.24  
 CONTAMINATION FROM MIKE SHOT  
 M + 13 Days  
 X Ground Readings -- East Side Islands  
 □ Ground Readings -- West Side Islands  
 ○ Air Readings -- 25 ft -- East Side Islands  
 △ Air Readings -- 25 ft -- West Side Islands

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35  
 37

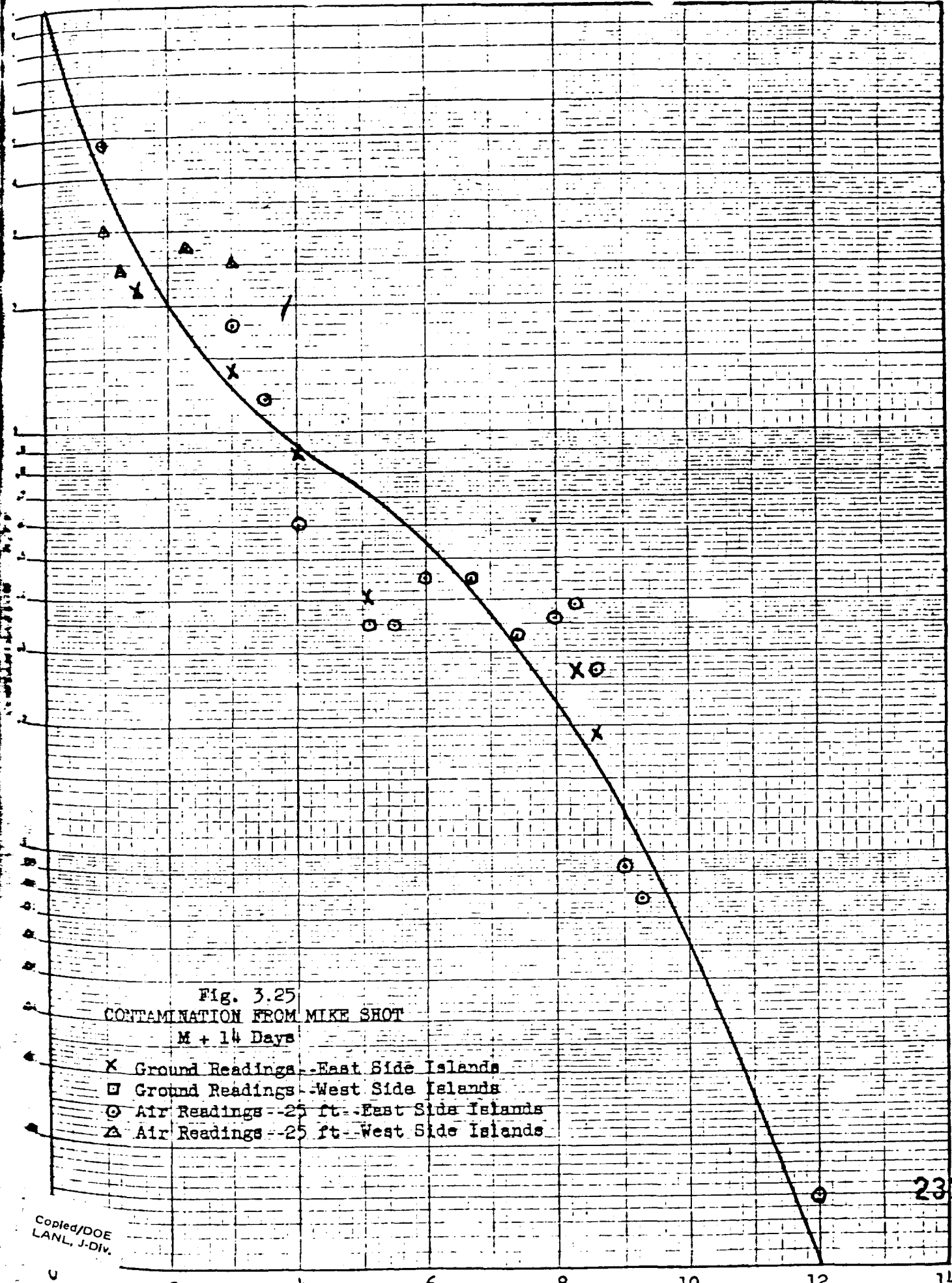


Fig. 3.25  
CONTAMINATION FROM MIKE SHOT  
M + 14 Days

- X Ground Readings - East Side Islands
- Ground Readings - West Side Islands
- ⊙ Air Readings - 25 ft. - East Side Islands
- △ Air Readings - 25 ft. - West Side Islands

[REDACTED]

### Radioactivity From Crossroads Baker Shot

The curves of Figs. 3.26, 3.27, and 3.28 show the radioactivity in the surface waters of Bikini Lagoon on the first three days after Crossroads Baker Shot. The values shown are in mR/hr. Since this shot was in late July, wind and current conditions were somewhat different than those to be expected in March and April, when the trade winds are blowing. The prevailing trade winds are from east-northeast, averaging 15 to 20 knots, while on B day there were light breezes estimated at less than 5 knots from south-southeast. On B + 1 the light breezes alternated with periods of calm, and on B + 2 and B + 3 the wind increased somewhat and hauled to the southeast.

(The figures shown are from an article, "Diffusion in Bikini Lagoon", by W. H. Munk, G. C. Ewing, and R. R. Revelle, of the Scripps Institution of Oceanography; Transactions of the American Geophysical Union, v. 30, pp. 59-66, 1949. The following note accompanies the figures: "Qualitative description of the diffusion of contaminated water--In examining the distribution shown . . . one should hold in mind that they are based on measurements extending over many hours, rather than on simultaneous measurements.")

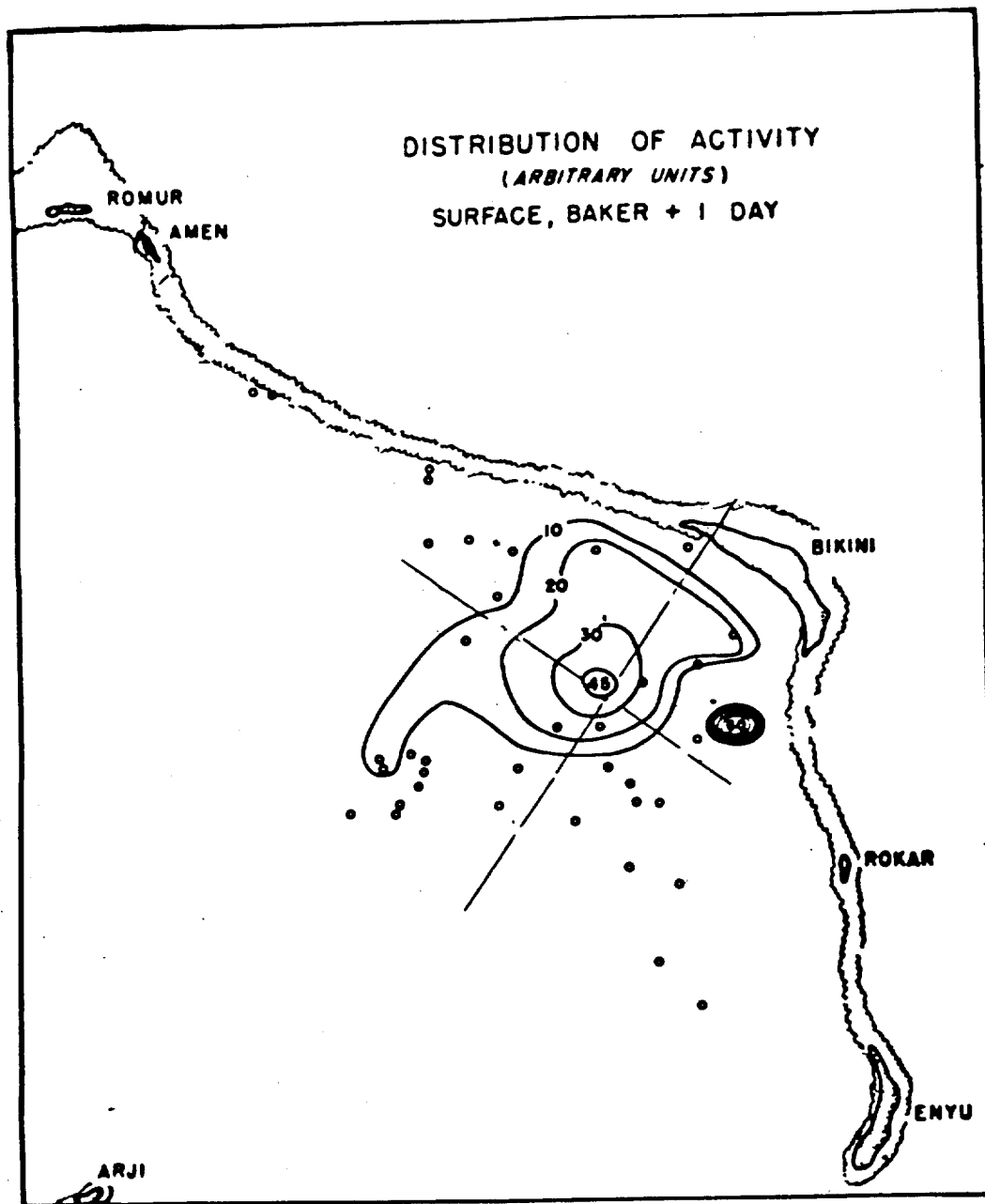


Fig. 3.26 - Distribution of Radioactivity in Surface Waters of Bikini Lagoon; Baker + 1 Day



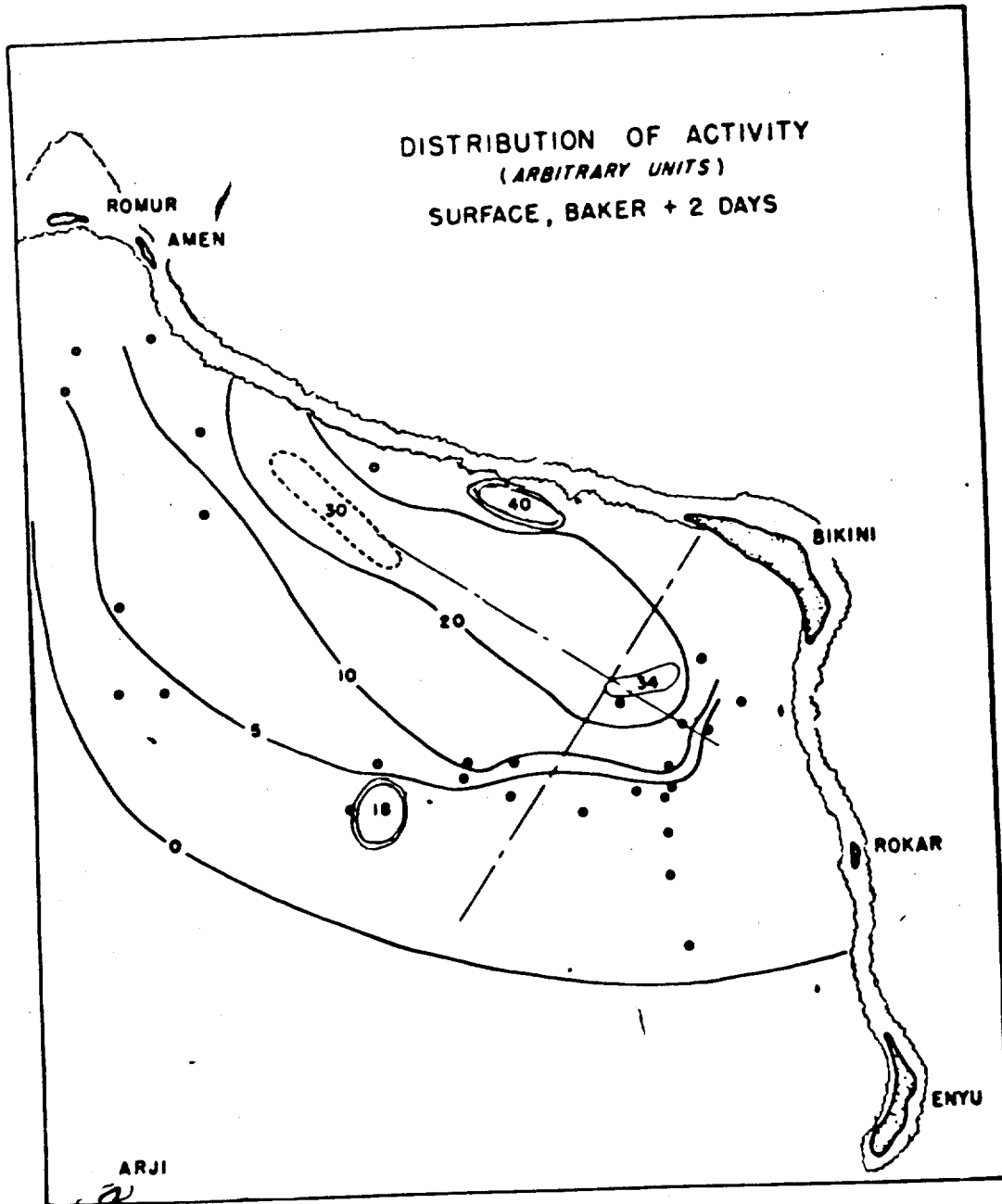


Fig. 3.27 - Distribution of Radioactivity in Surface Waters of Bikini Lagoon, Baker + 2 Days

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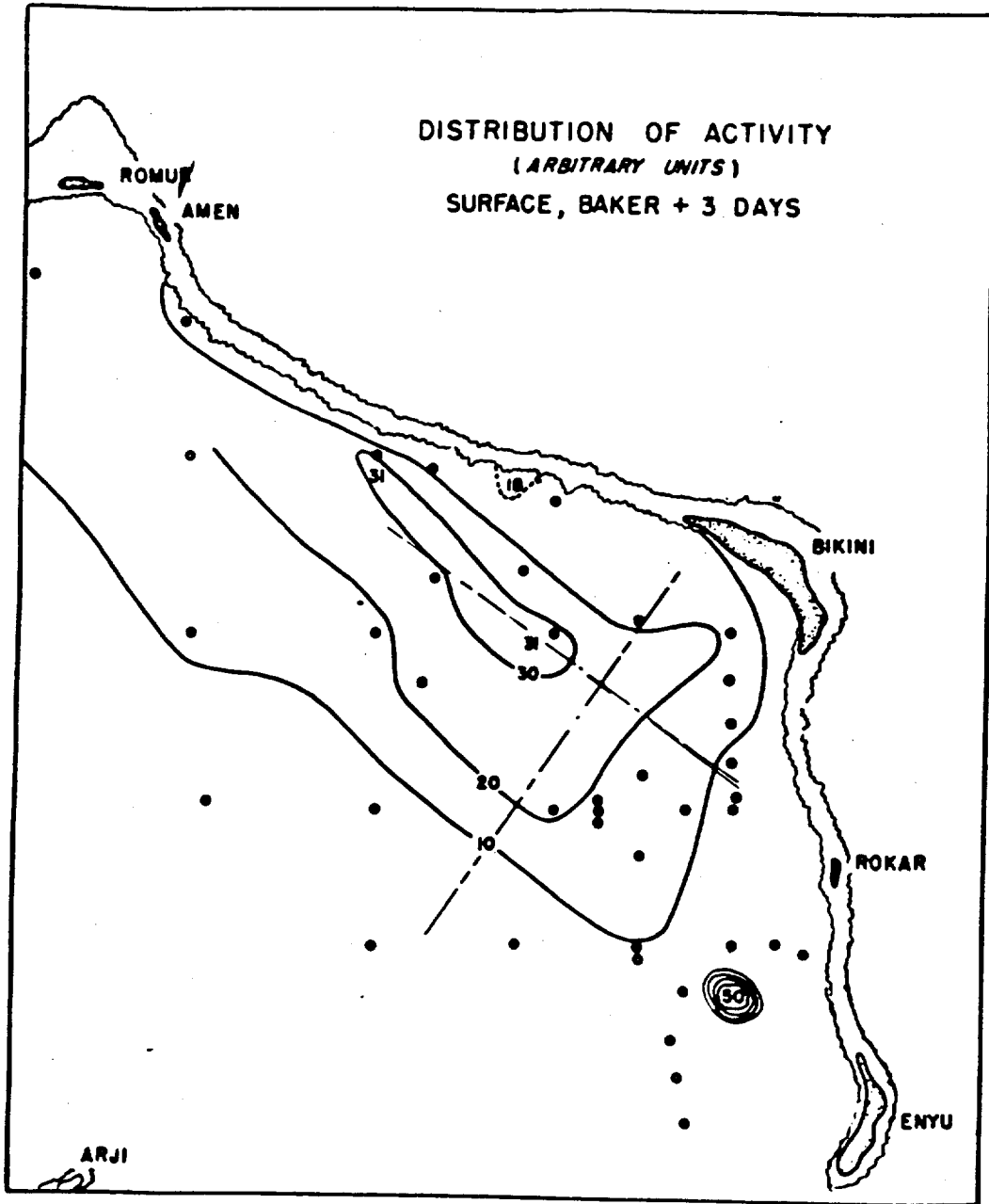


Fig. 3.28 - Distribution of Radioactivity in Surface Waters of Bikini Lagoon; Baker + 3 Days

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