

Defeating Hitler's “Chase Me Charlies”

Al Penney
VO1NO / VE3



61+62

2562

LC-B8184-10497

**First Escort Group's
Area of Operations,
Late August, 1943**





Cape Finisterre



**HMS JED
and
HMS ROTHER**

HMS EGRET

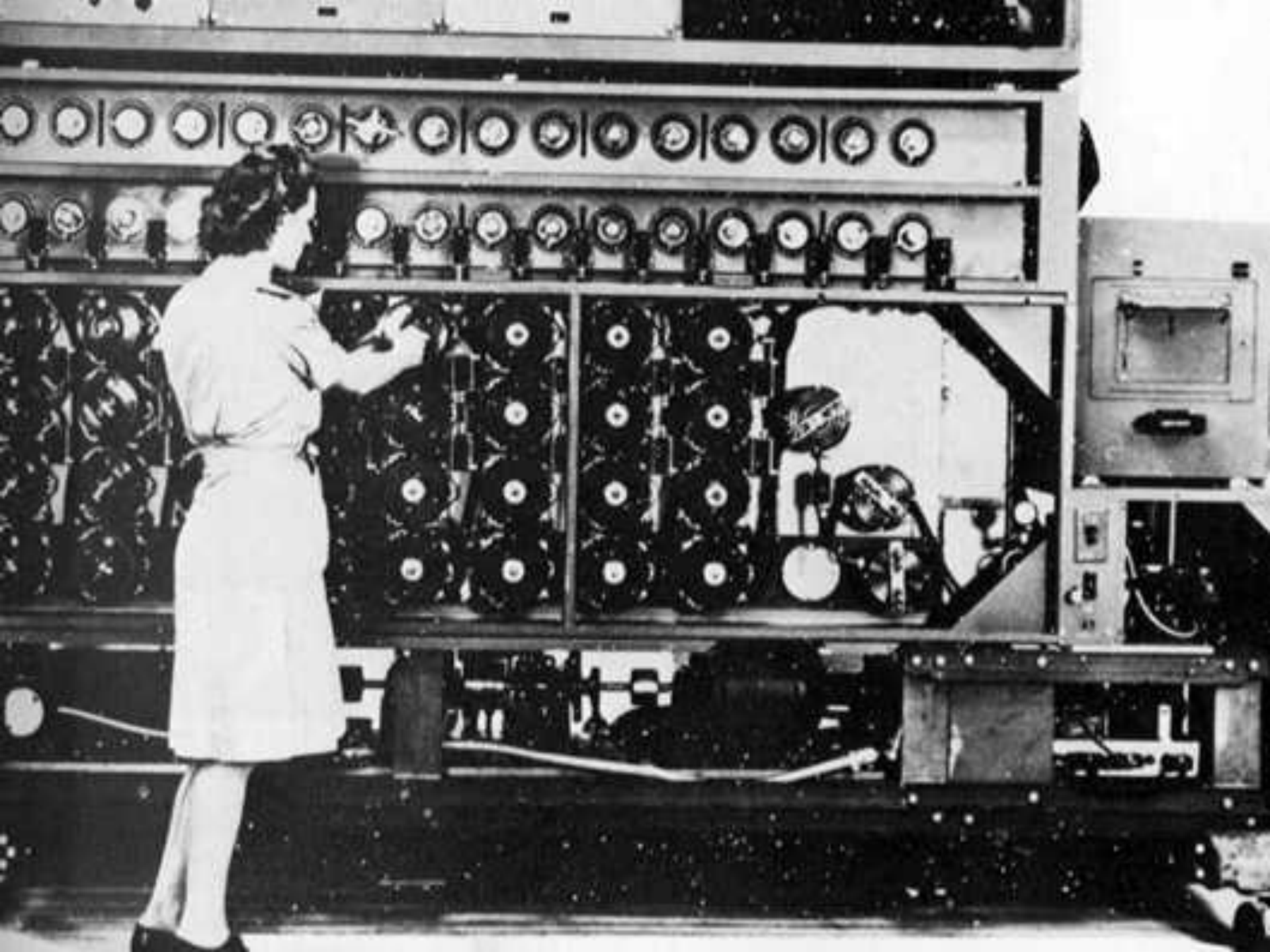


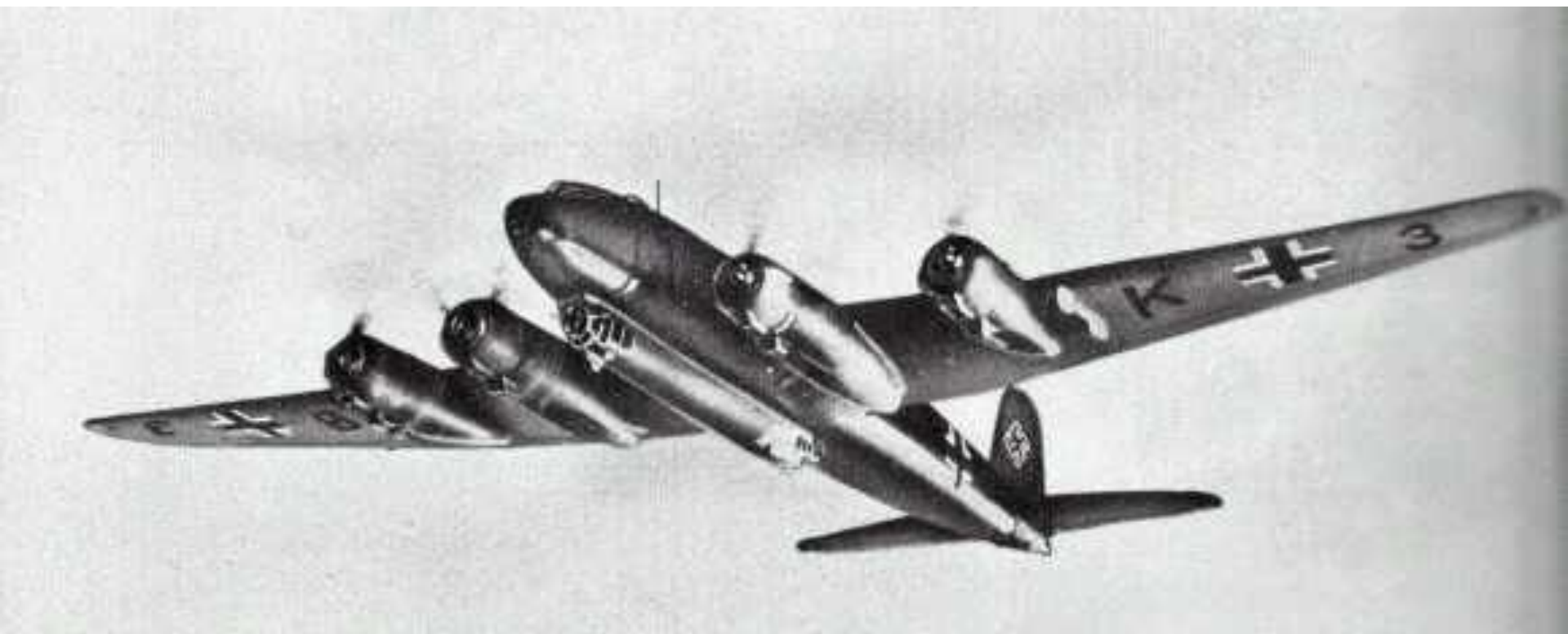


HMCS ATHABASKAN



HMS Grenville

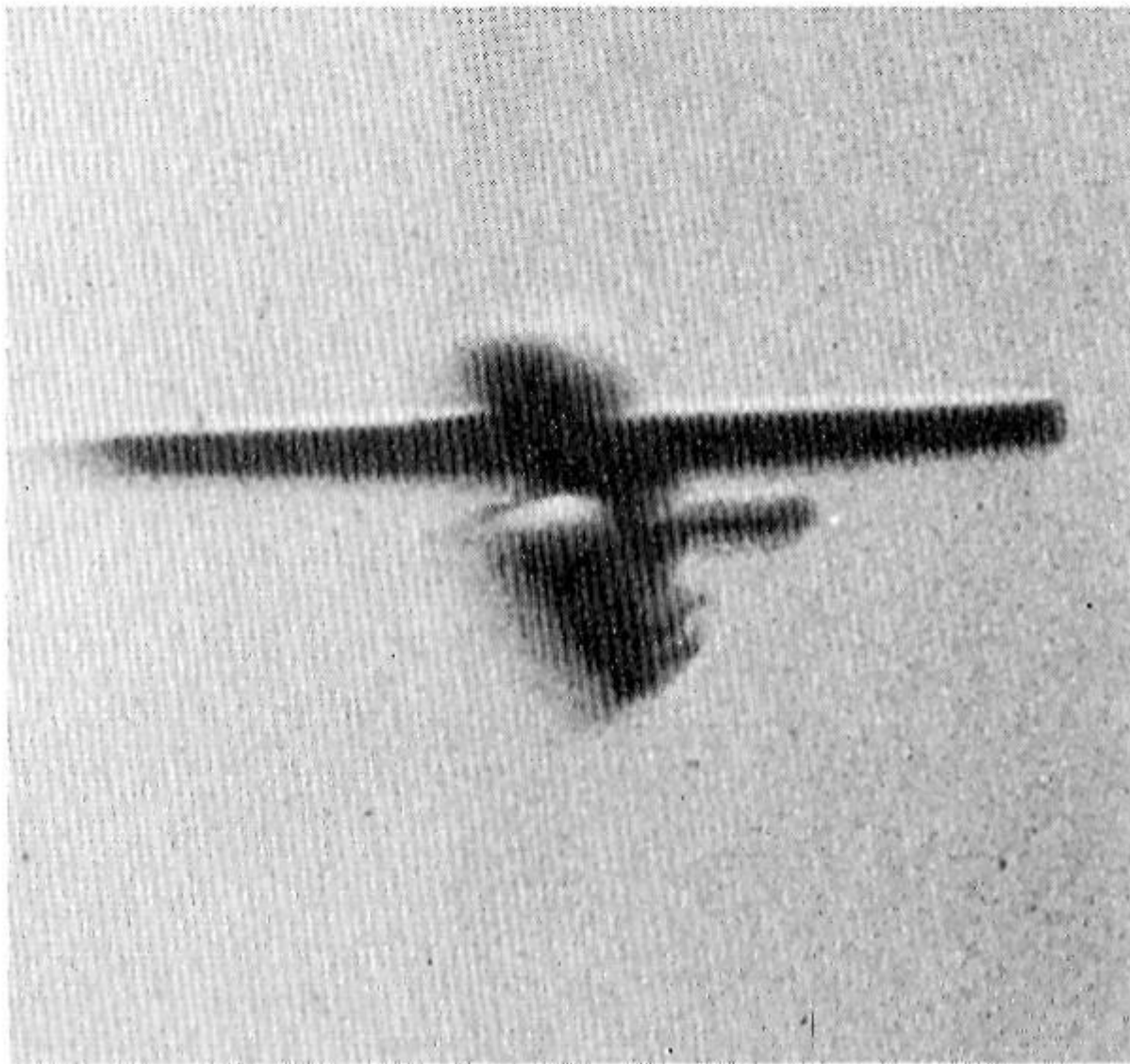




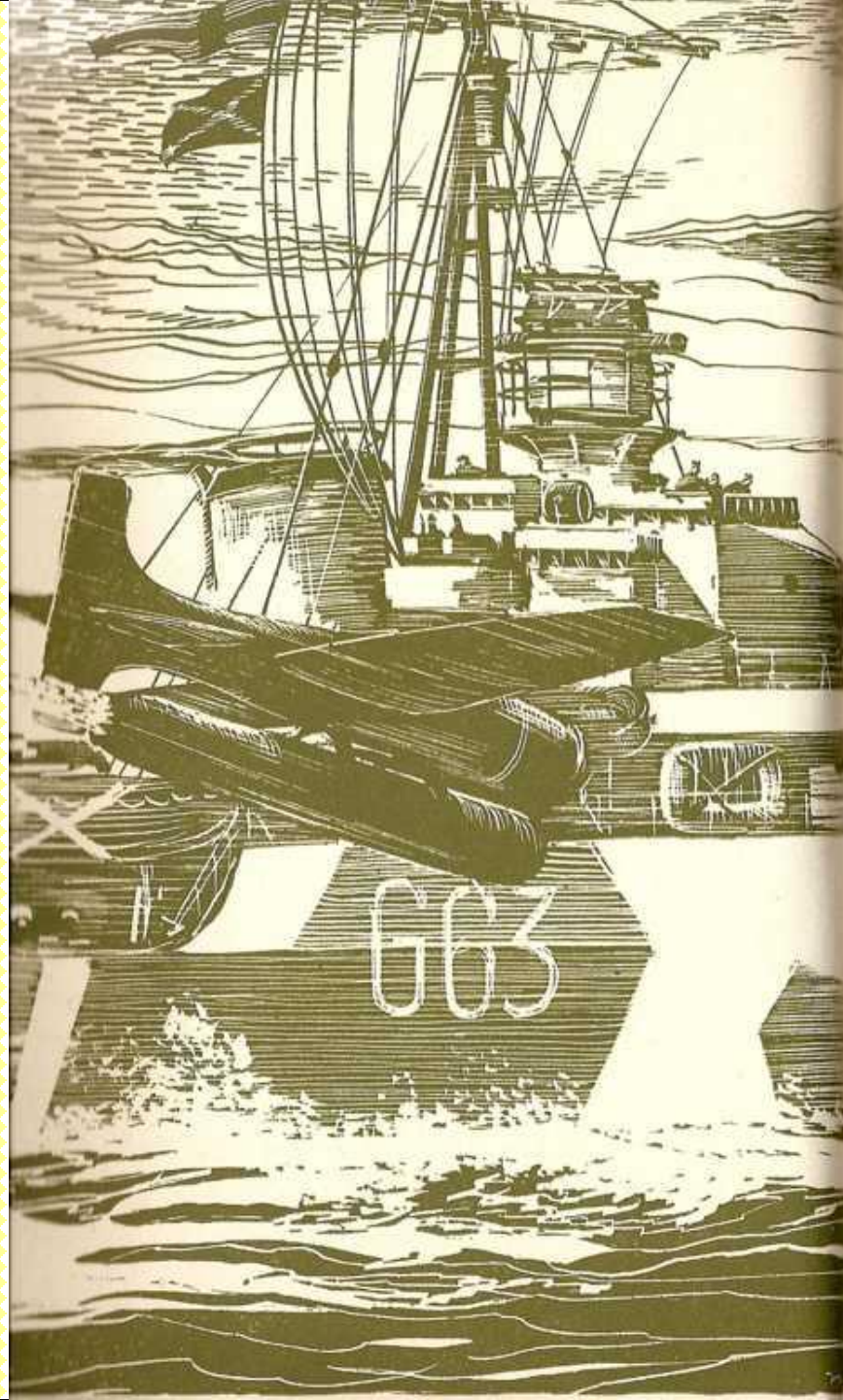
Focke-Wulf 200 Condor

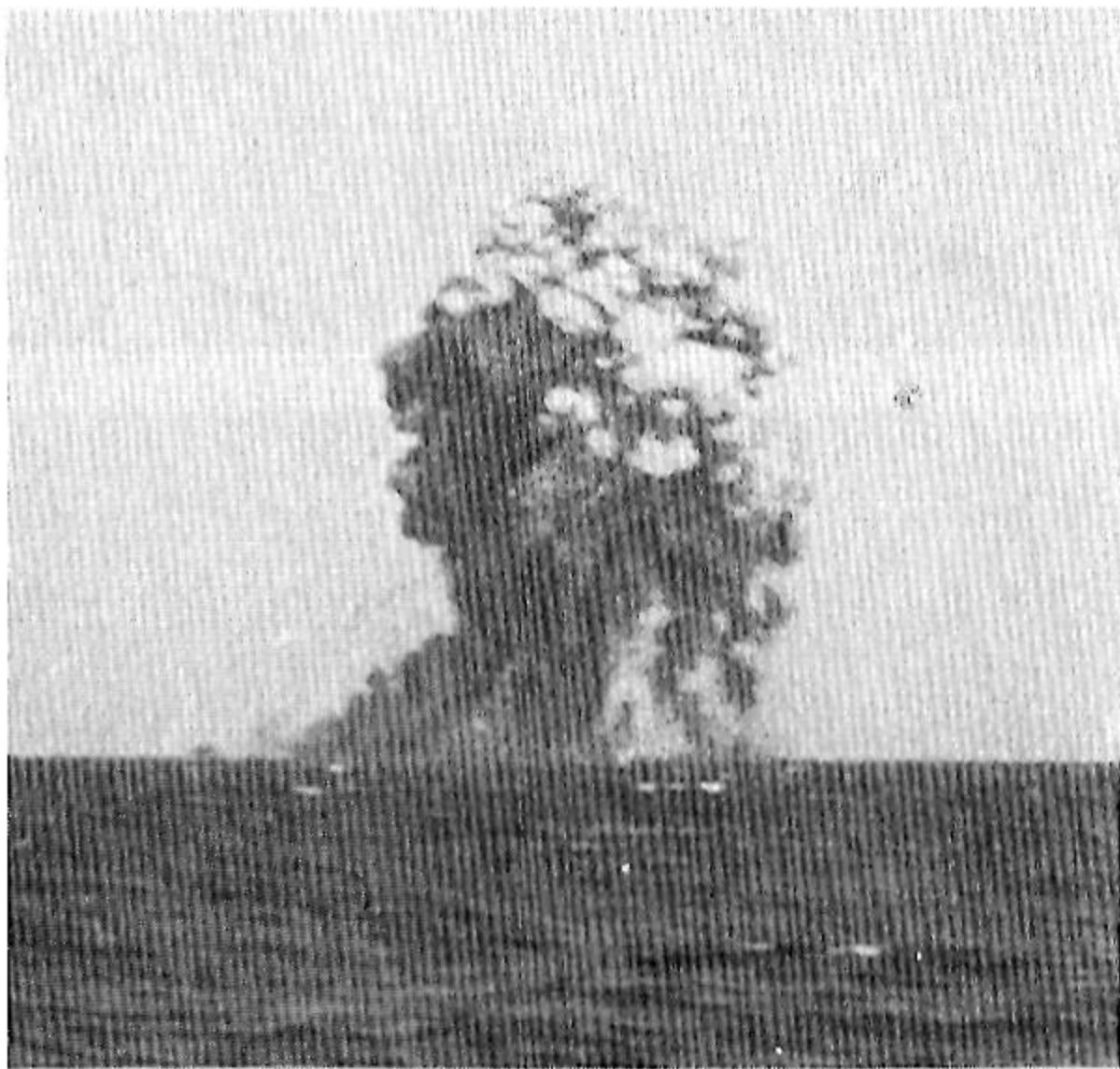


Dornier Do 217



“It seemed the controller could control the direction of the bomb but not the loss of height”.











La Spezia



Planned Escape Route for the Italian Fleet, Sep 1943

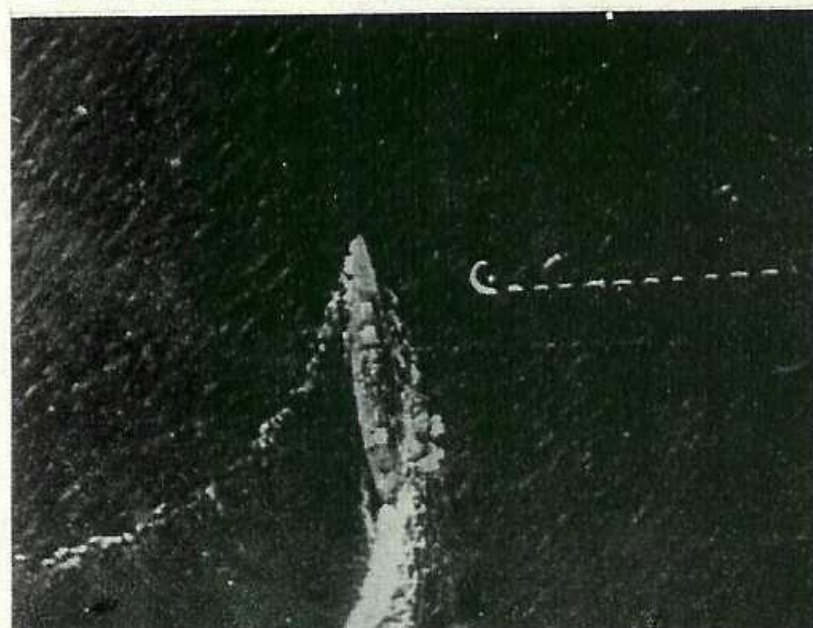


Battleship ROMA

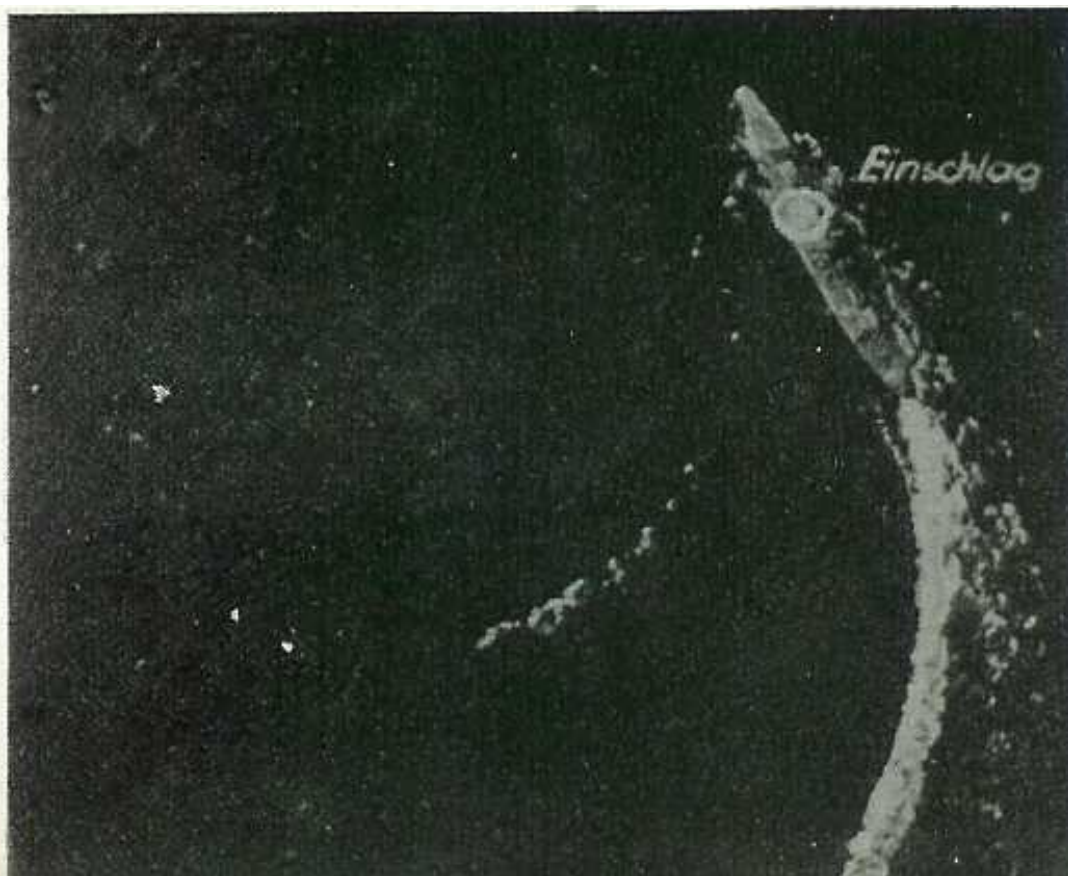
Original strike photograph of the Fritz-X attack on the Italian battleship Roma, sunk on September 9, 1943. The white dot at extreme right, located by the half circle and broken line, is the arc light by which flight of the missile was guided. The wake of the Roma is curving as she takes evasive action to avoid the path of conventional bombs.



The Roma continues to turn as the missile closes in. During last seconds of the fall control of the missile was extremely crucial as large changes could throw it irrevocably off target.



The Roma's wide arc has been to no avail. The Fritz-X smashes into the foredeck. Some 20 minutes later all that remained of the battleship was debris.





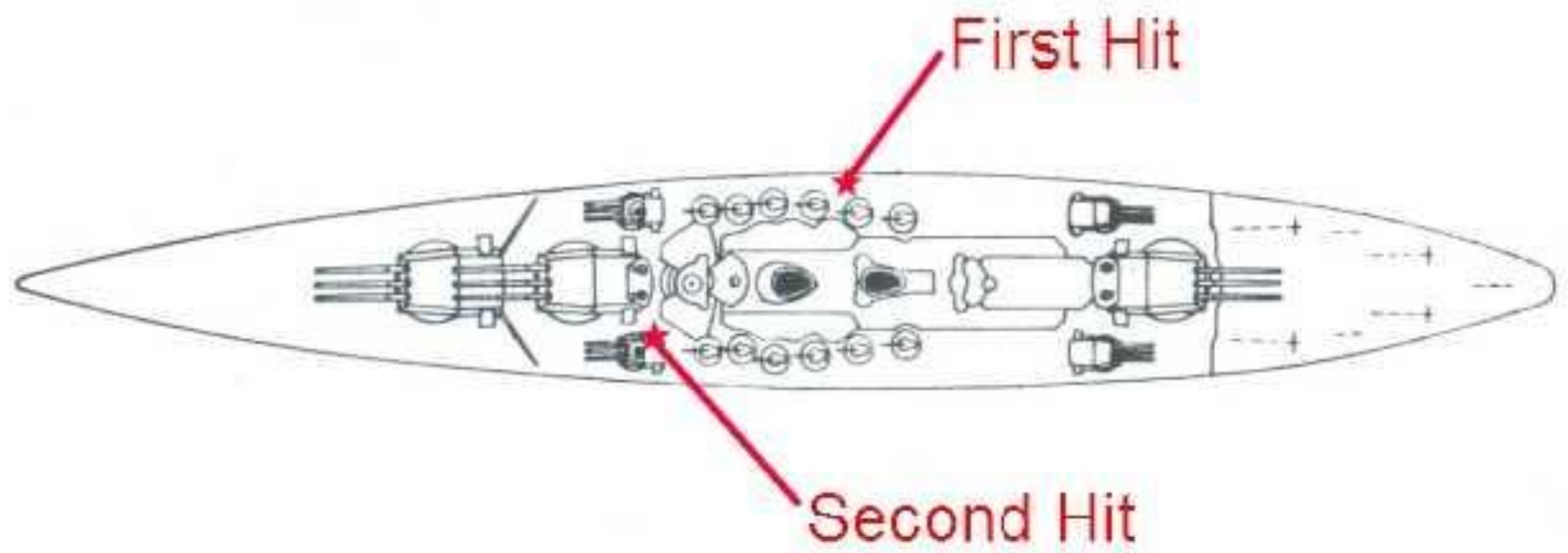
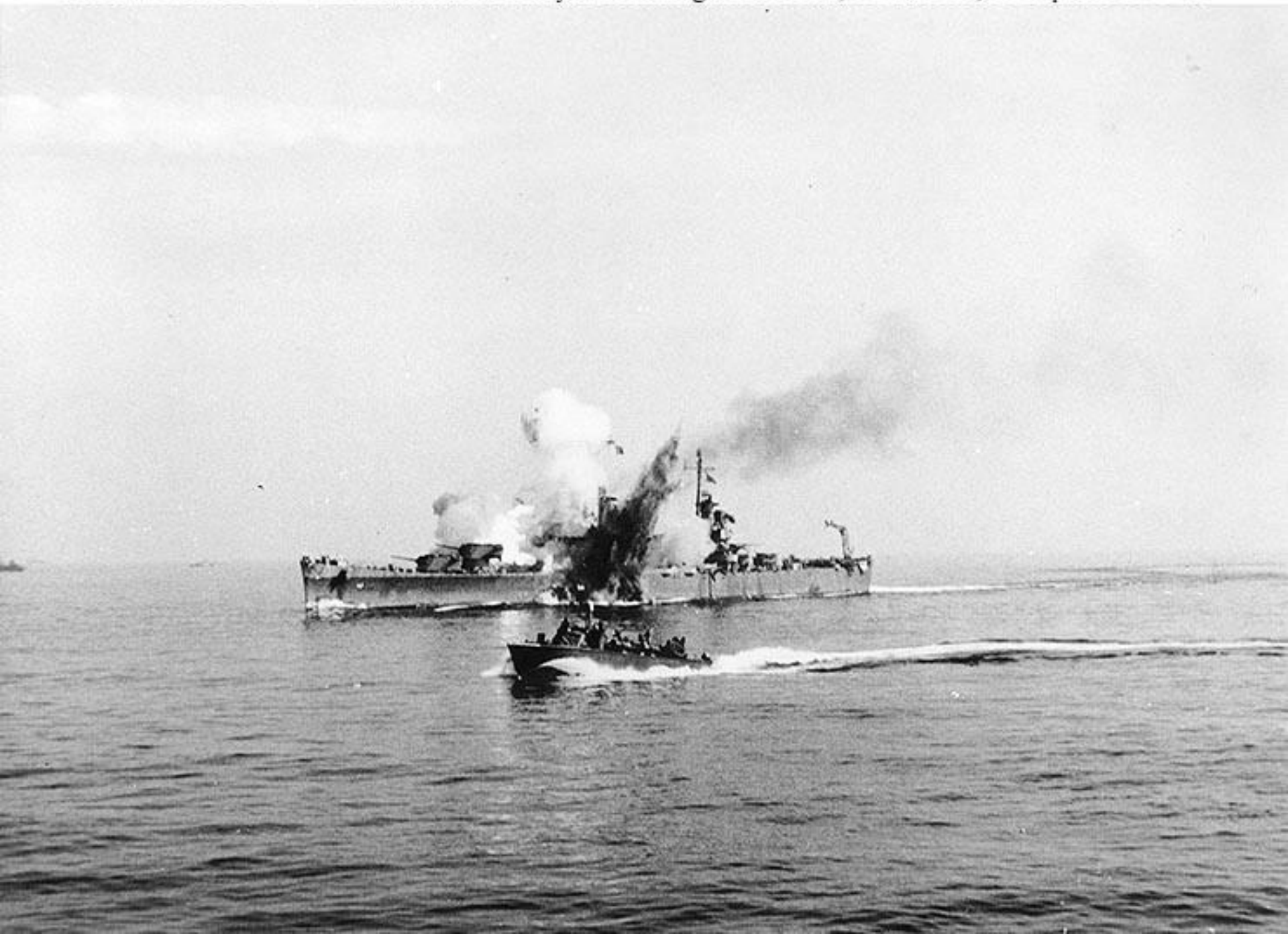






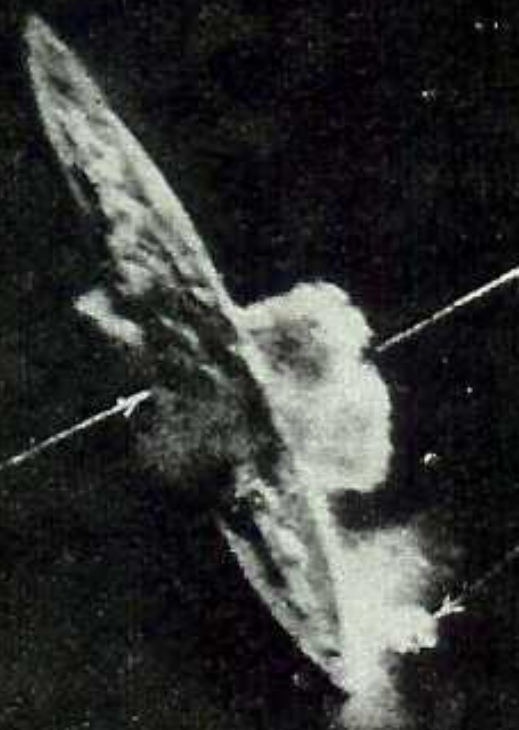
Photo # NH 95562 USS Savannah is hit by a German guided bomb, off Salerno, 11 September 1943



Bildstelle
III. IX. 9. 100

Wirkungsbild

Angriff auf engl. Schlachtschiff
Klasse „Worspite“ 30600 t



1. Einschlag
an Borwand

2. Einschlag
Mittschiffs

3. Einschlag

Beob. Uffz. Huhn
Bombensch. „Huhn“
Feldw. Meyer
Obfr. Mrowitz

Aufgen. am 16. 9. 43
14.35 Uhr

Maßstab etwa
1:1500

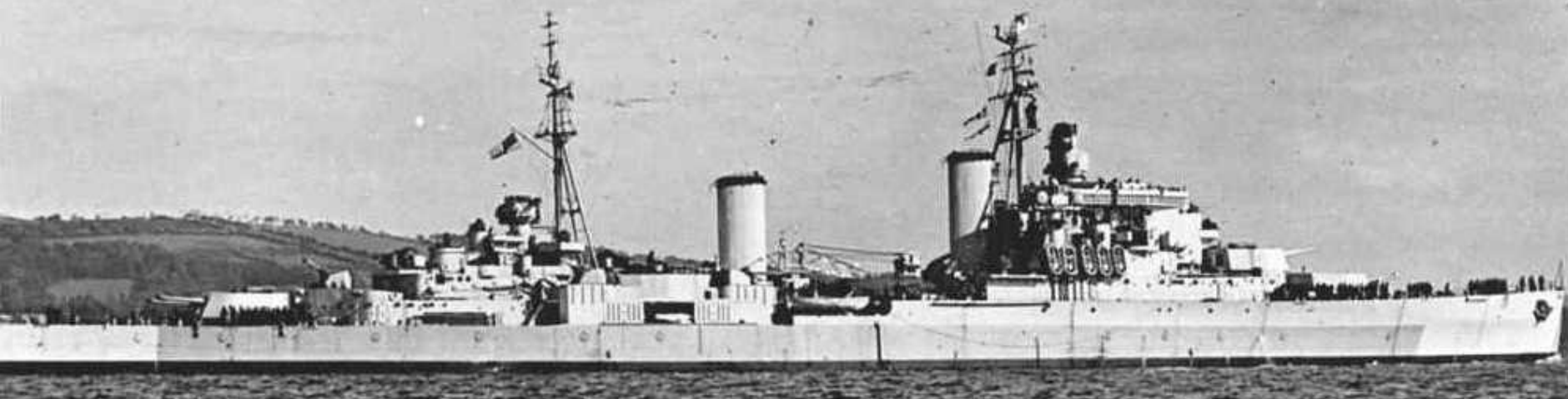






Photo # 80-G-83243 Destroyer lays a smoke screen off Salerno, September 1943

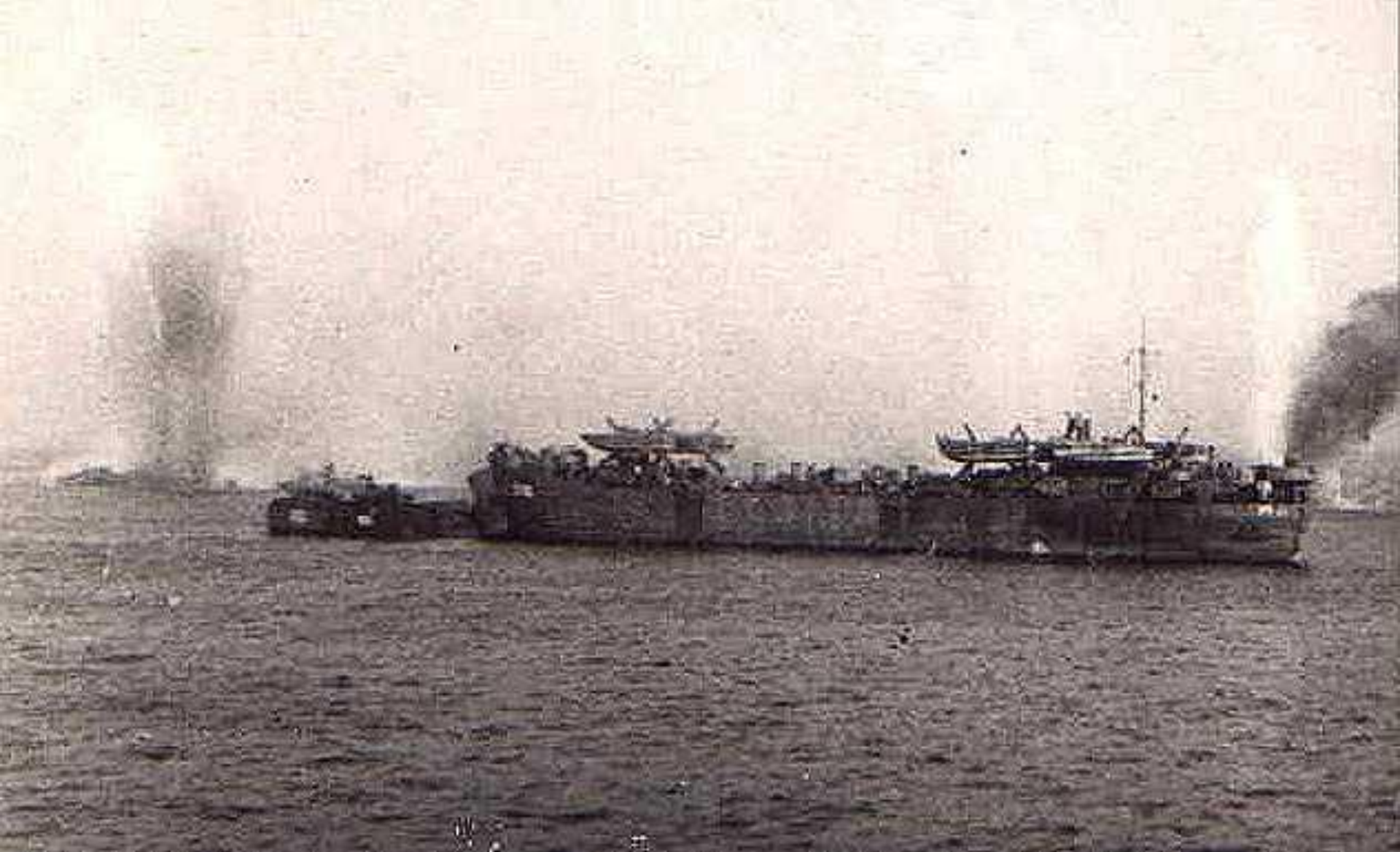




S-27



S-36



Presenting



THE WORLD'S FINEST ELECTRIC SHAVER

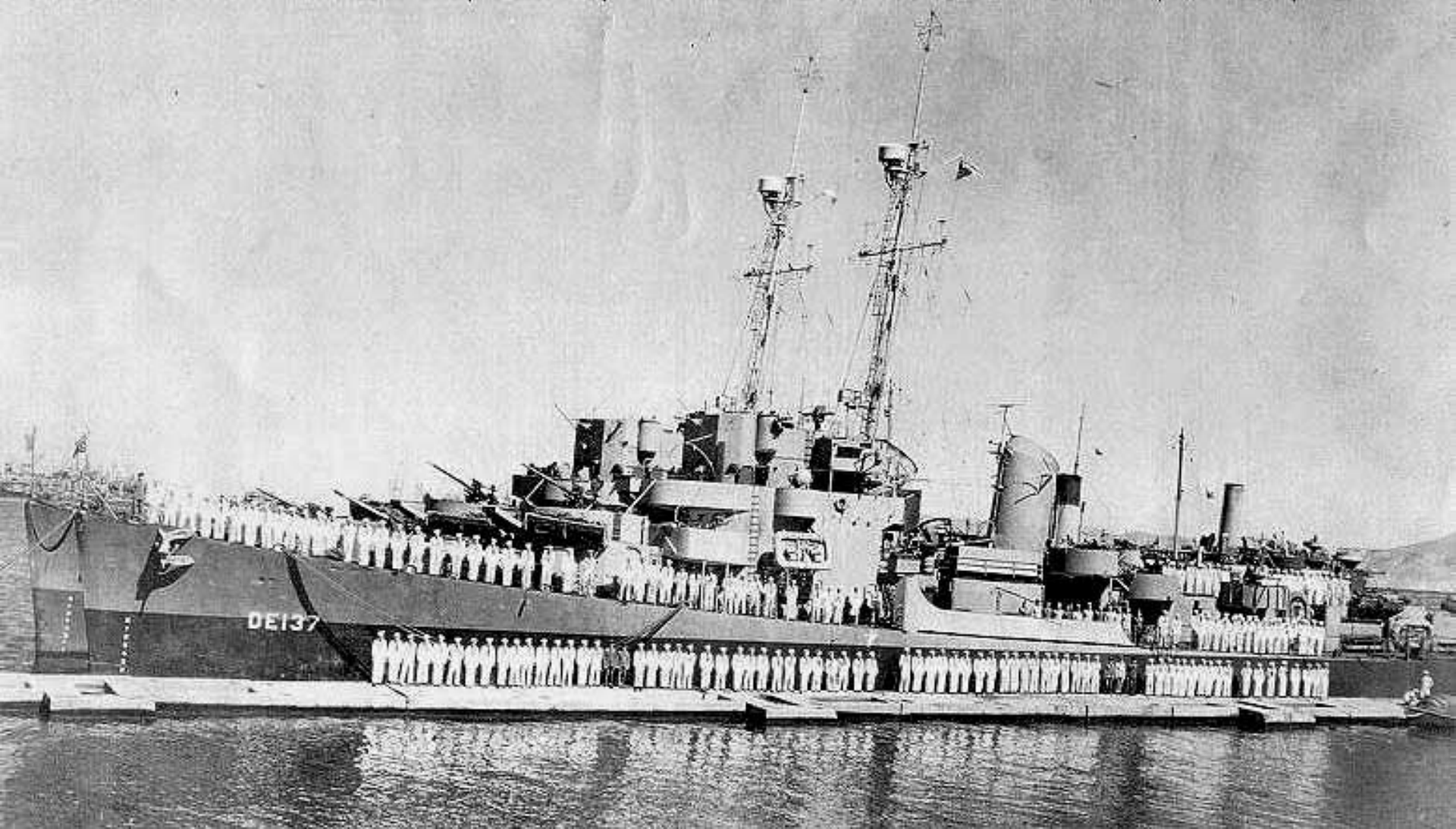
Nowhere on earth will you find such shaving speed and comfort as Remington now offers you in this amazing four-headed shaver . . . and nowhere will you find a gift more welcomed by men. For the Remington Foursome is equipped with three full-sized shaving heads plus a trimming head for sideburns and mustache. It is the latest application of the Remington multiple-head principle—the principle which has proved so successful in the famous Remington Dual and Remington Triple-head shavers now used and recommended by over 16,000 barbers. Your dealer will be glad to show you the complete line of Remington multiple-head shavers, priced as low as \$12.75. See them today. General Shaver Division of Remington Rand Inc., Bridgeport, Conn.

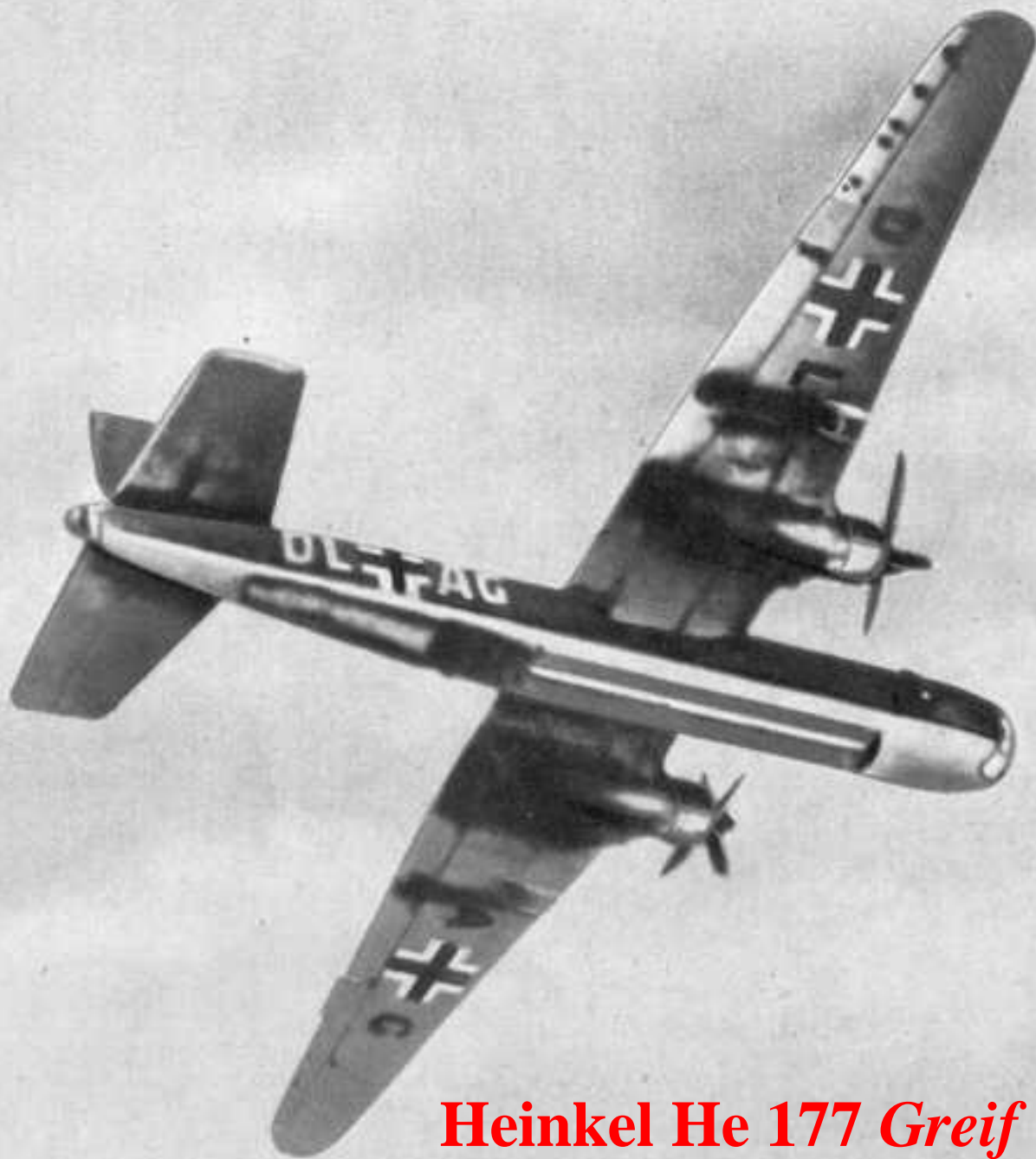
"You could't get me to shave any other way. With this Remington Foursome I get it and, done, that's all it takes in 30 seconds."



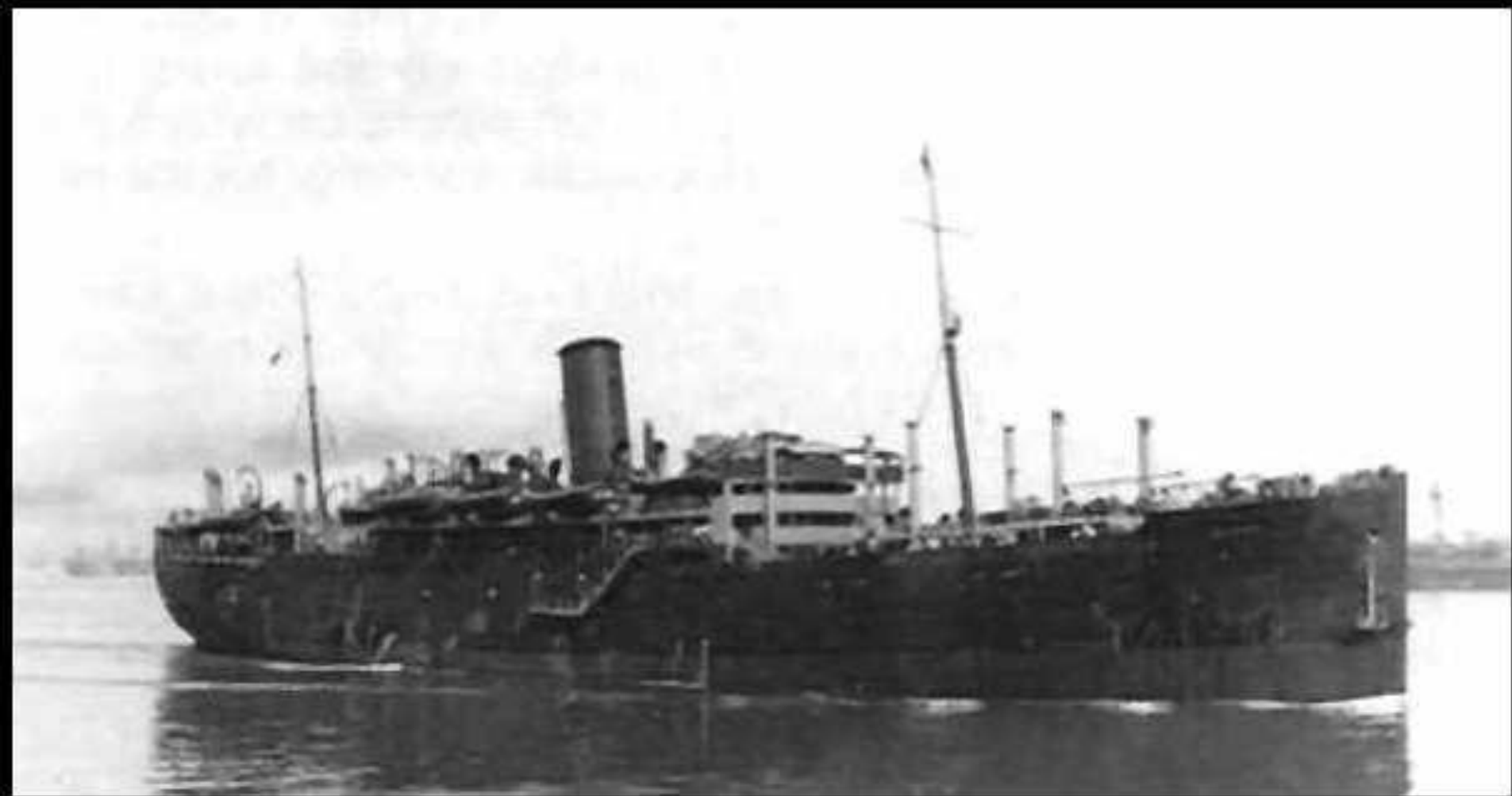
REMINGTON RAND

FASTEST SHAVING, FASTEST-SELLING ELECTRIC SHAVERS

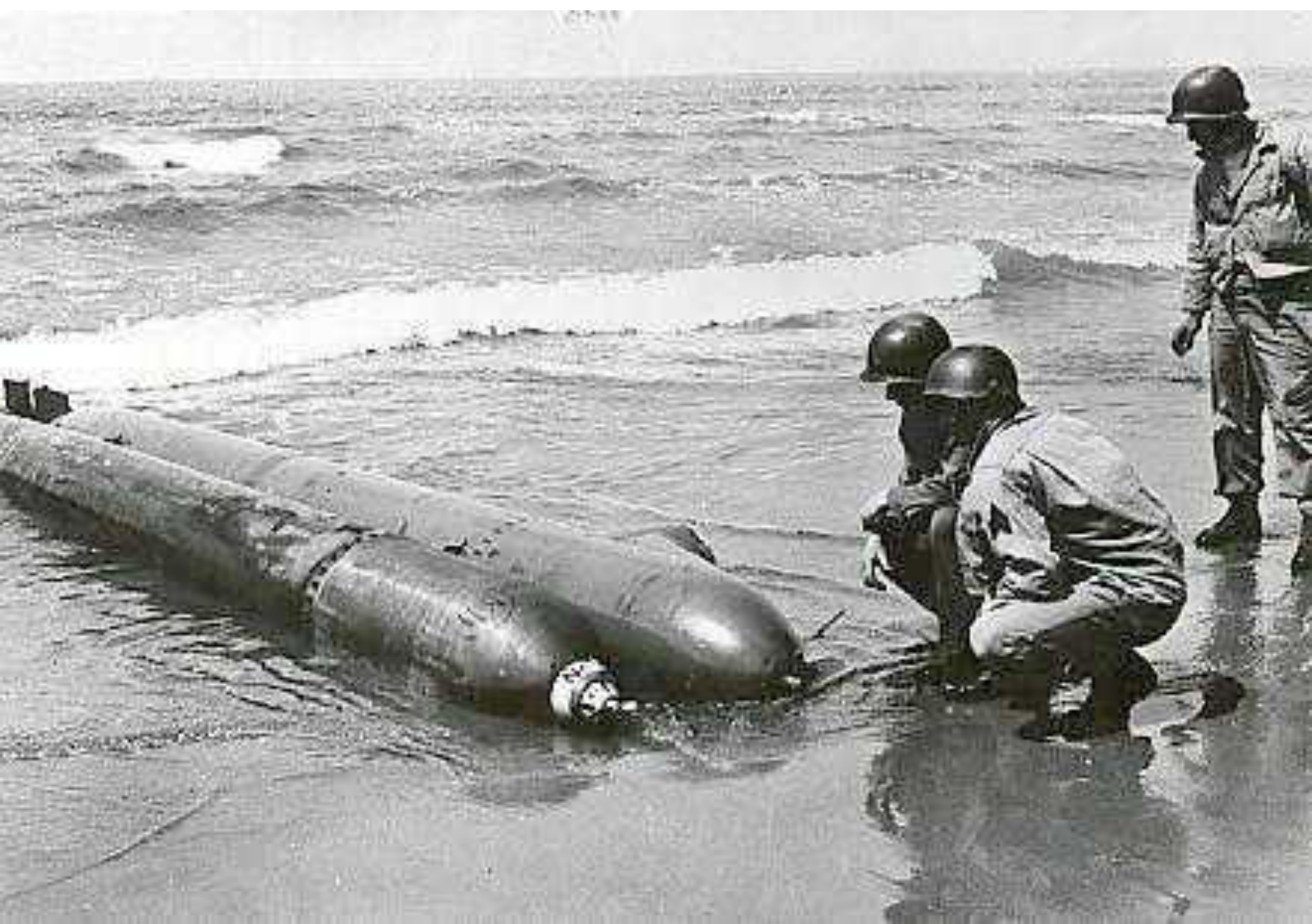


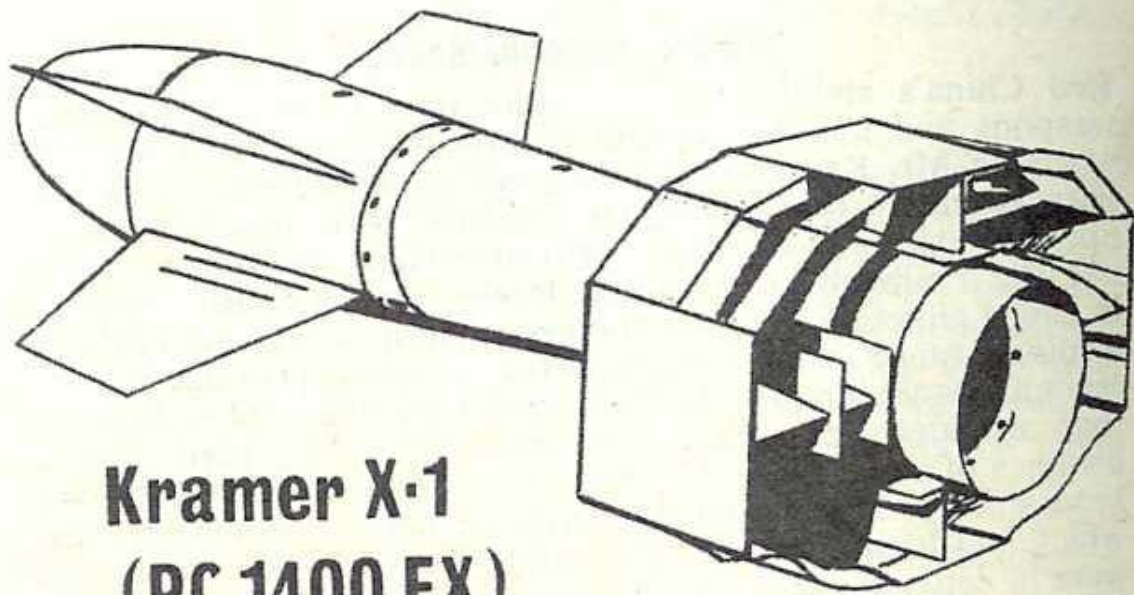


Heinkel He 177 *Greif* (Griffin)

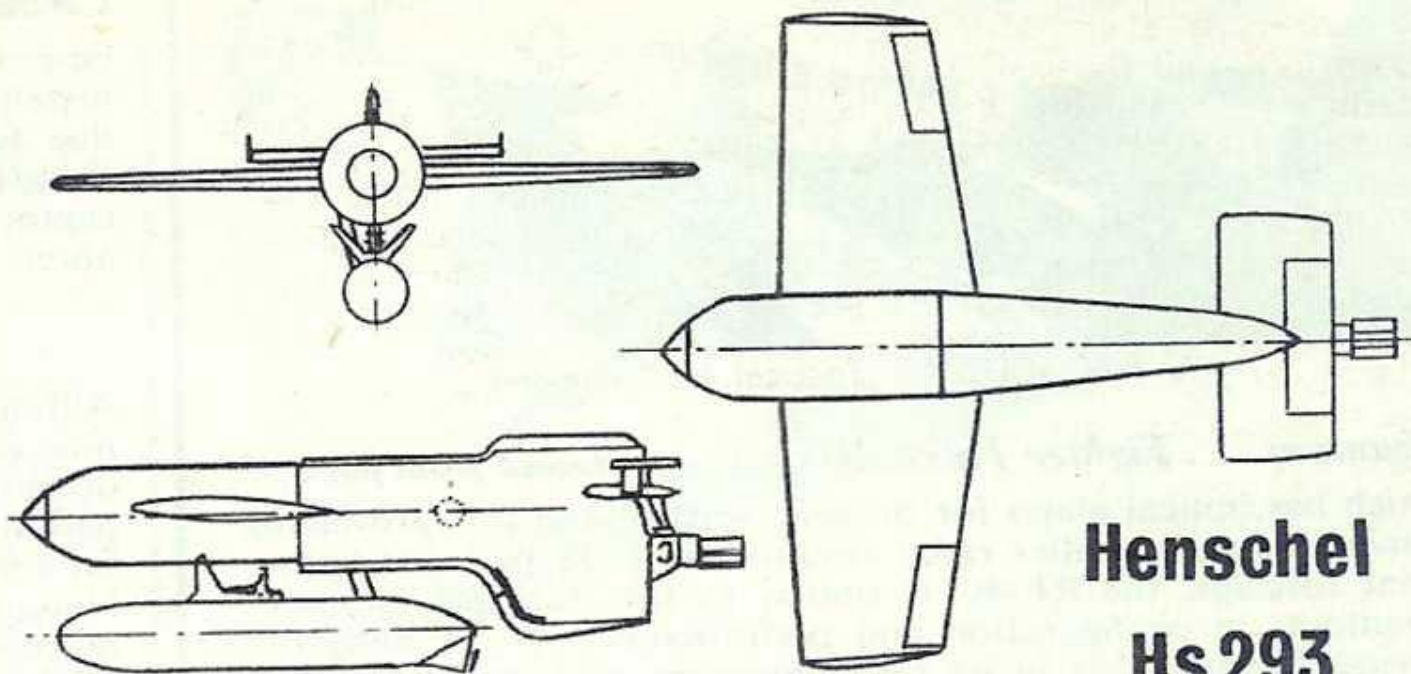


Troop Transport ROHNA

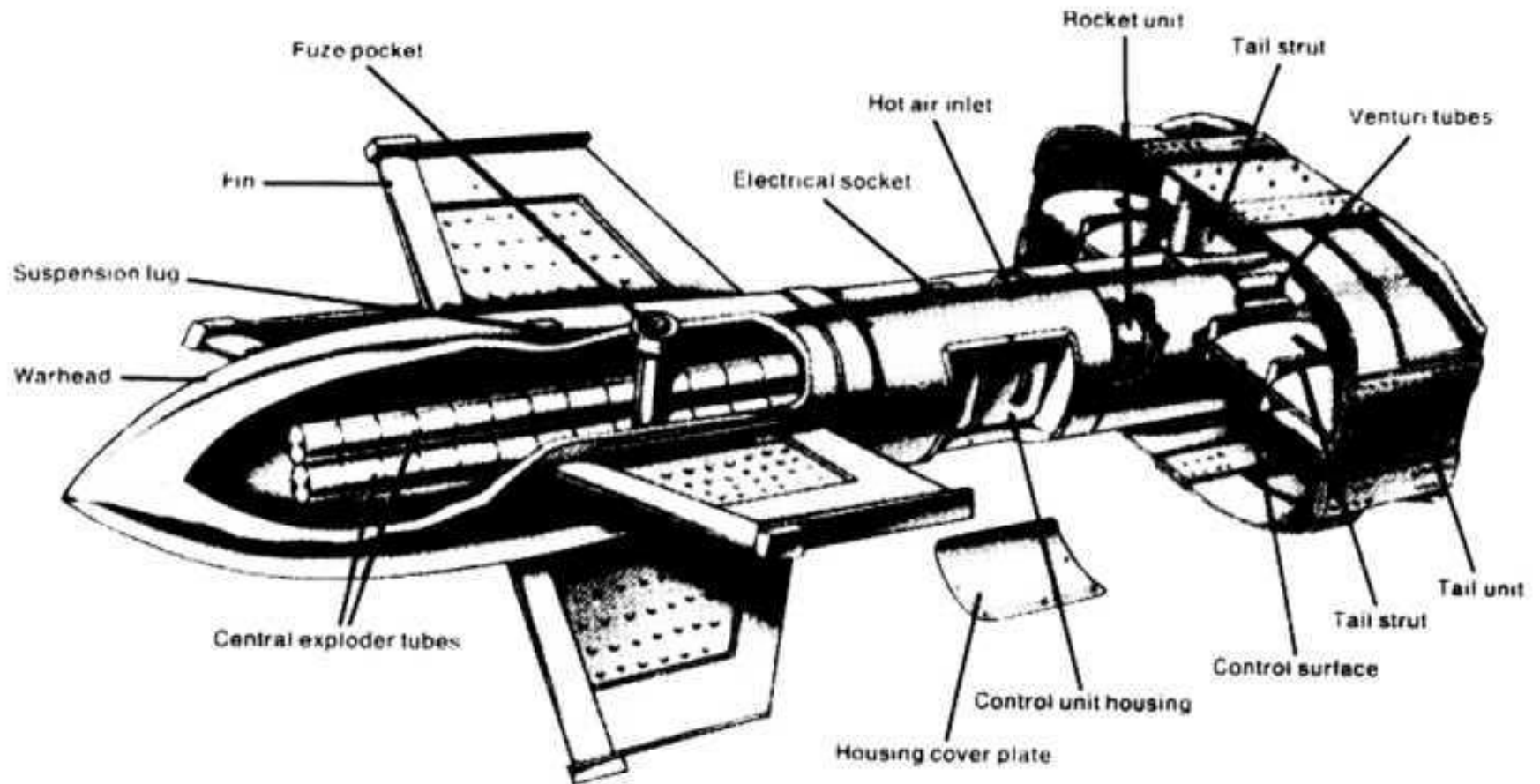




**Kramer X-1
(PC 1400 FX)**



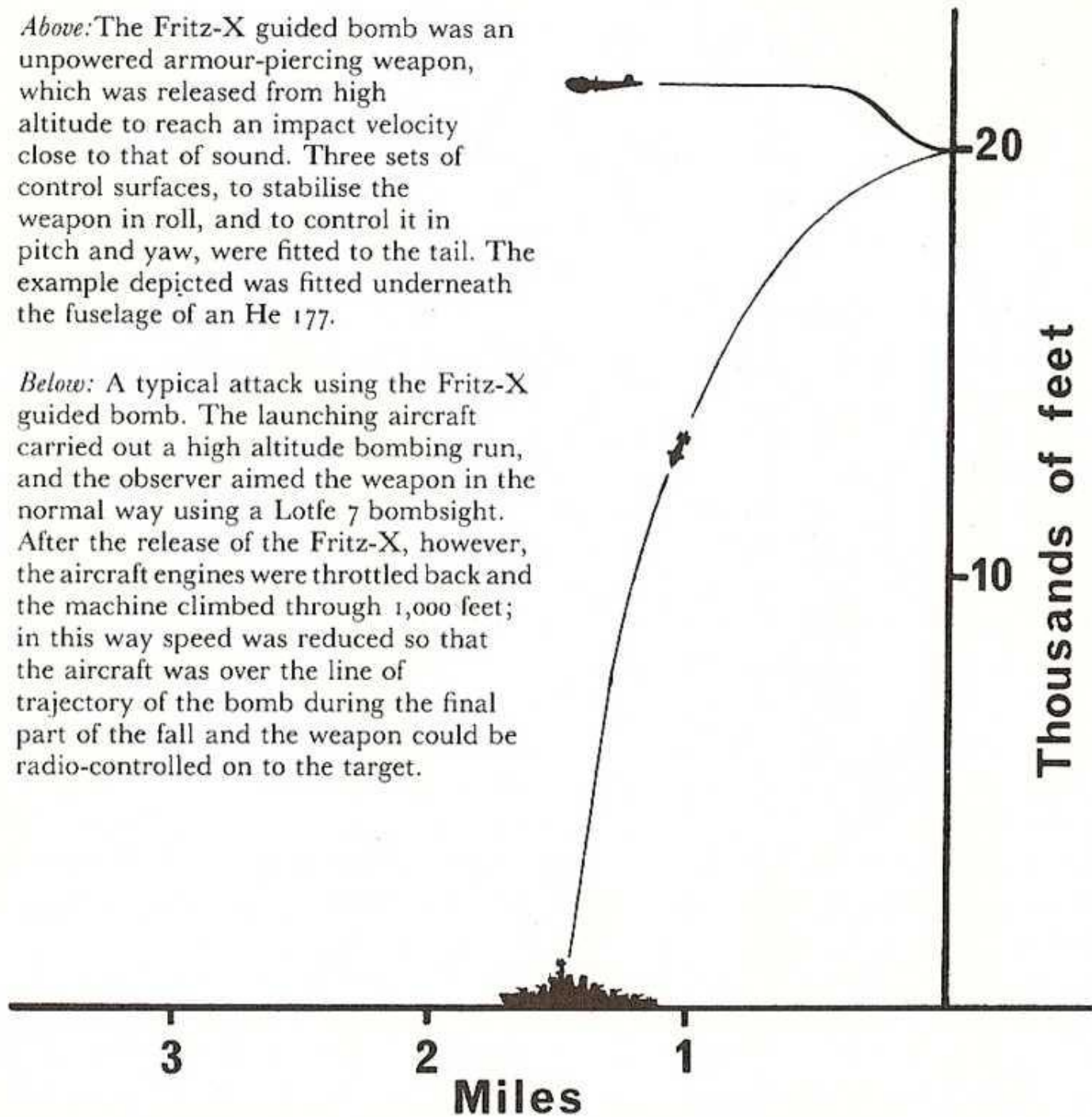
**Henschel
Hs 293**

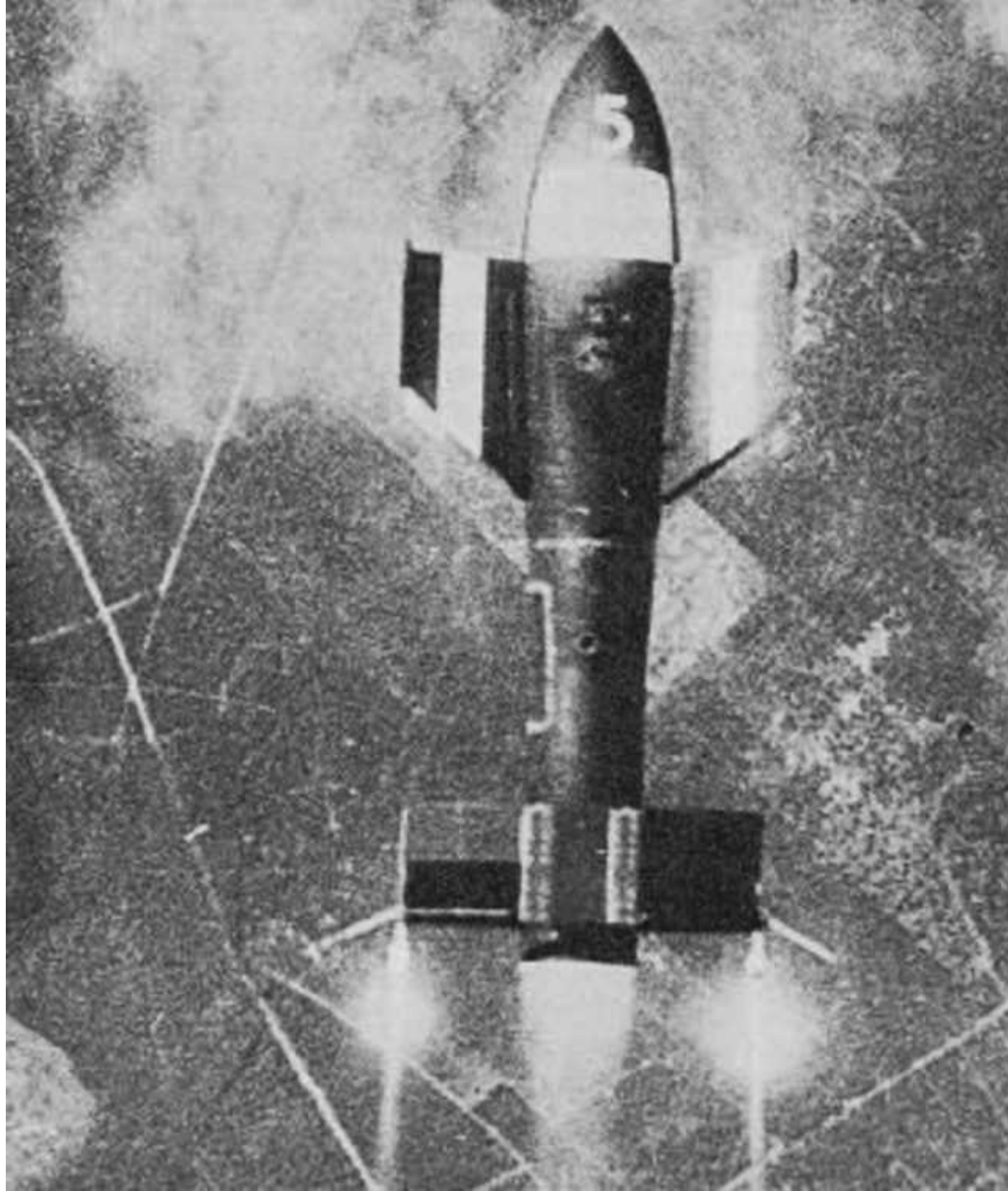


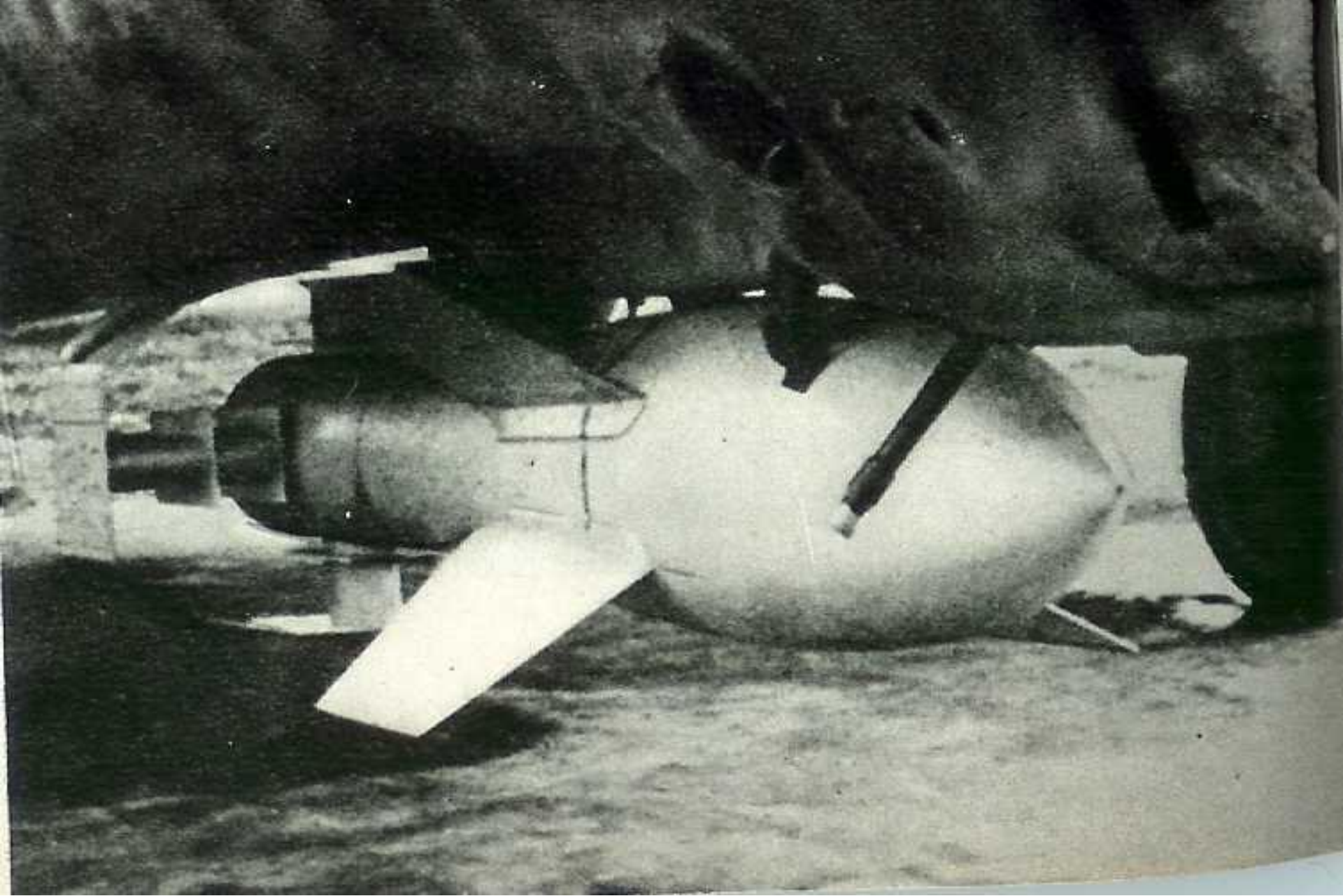
Fritz-X Guided Bomb

Above: The Fritz-X guided bomb was an unpowered armour-piercing weapon, which was released from high altitude to reach an impact velocity close to that of sound. Three sets of control surfaces, to stabilise the weapon in roll, and to control it in pitch and yaw, were fitted to the tail. The example depicted was fitted underneath the fuselage of an He 177.

Below: A typical attack using the Fritz-X guided bomb. The launching aircraft carried out a high altitude bombing run, and the observer aimed the weapon in the normal way using a Lotfe 7 bombsight. After the release of the Fritz-X, however, the aircraft engines were throttled back and the machine climbed through 1,000 feet; in this way speed was reduced so that the aircraft was over the line of trajectory of the bomb during the final part of the fall and the weapon could be radio-controlled on to the target.

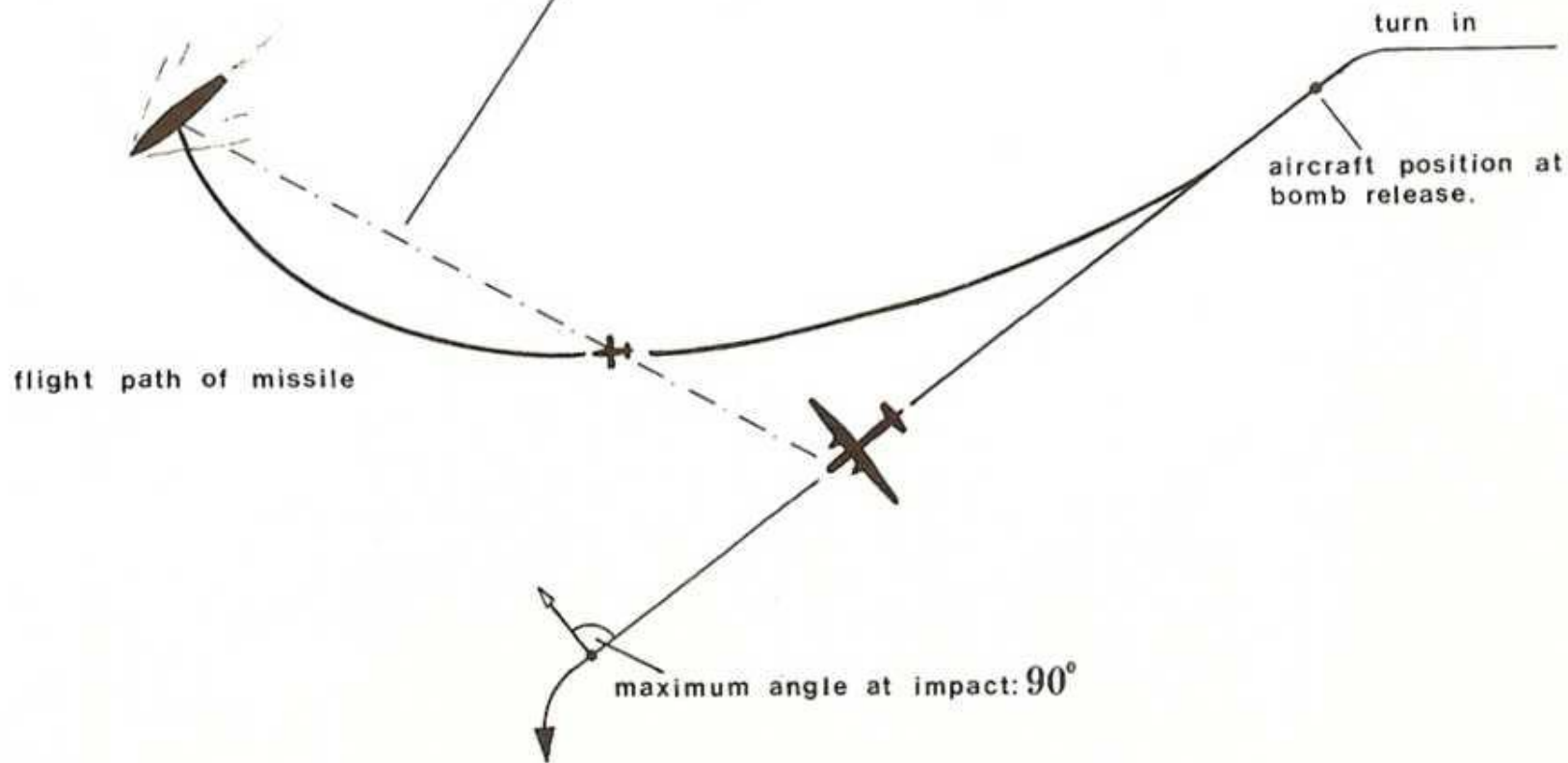
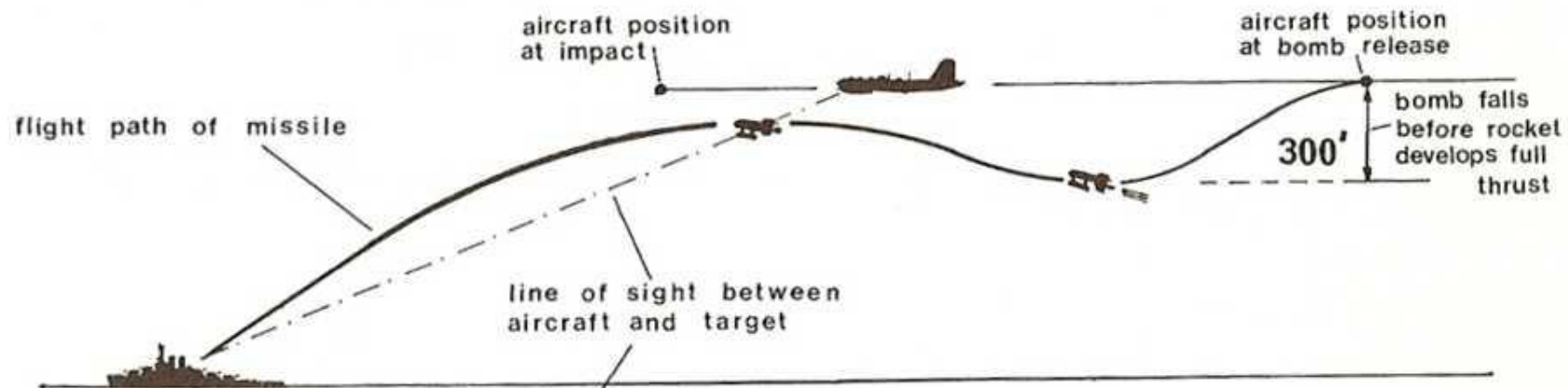






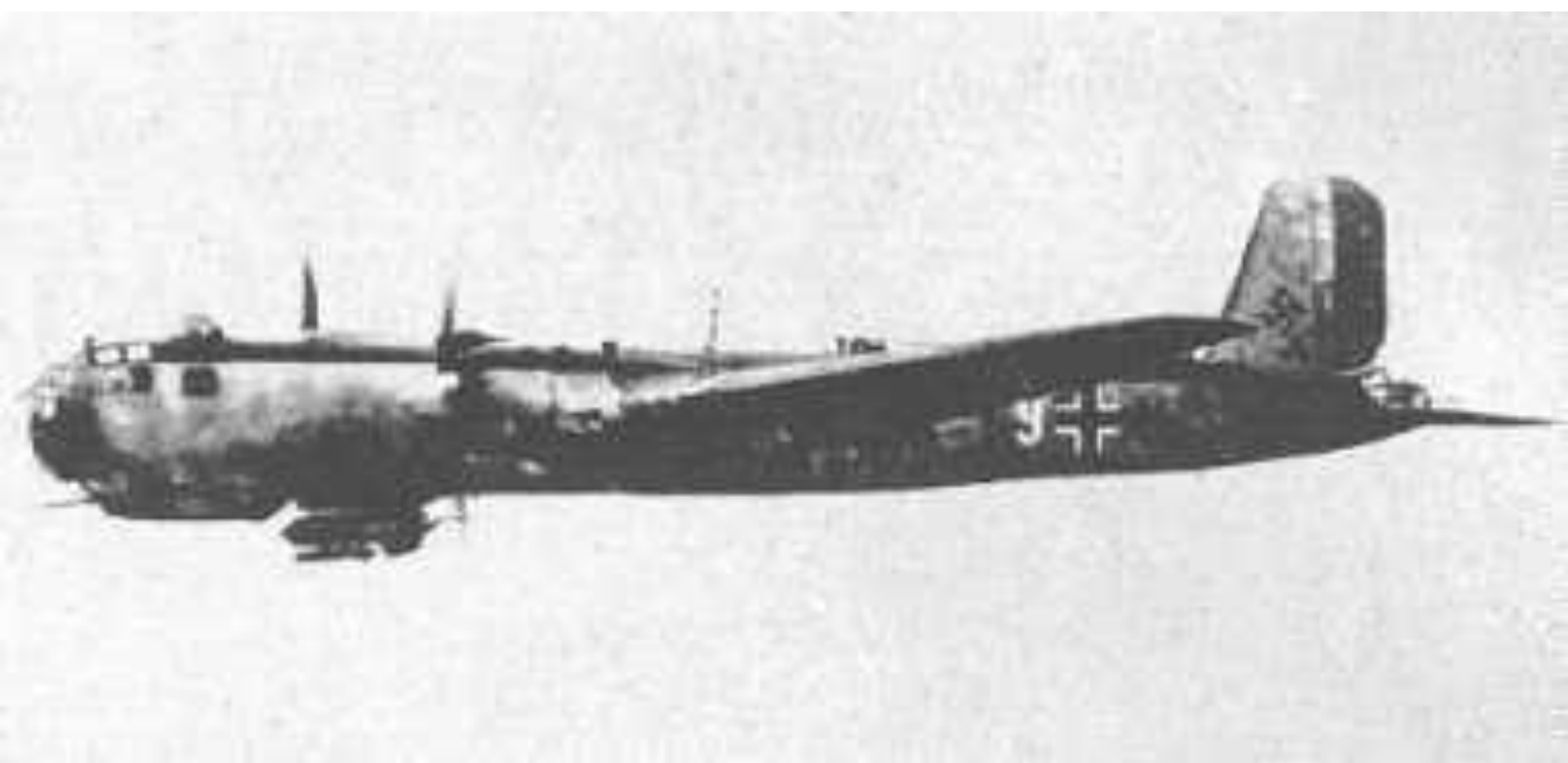


Henschel Hs 293



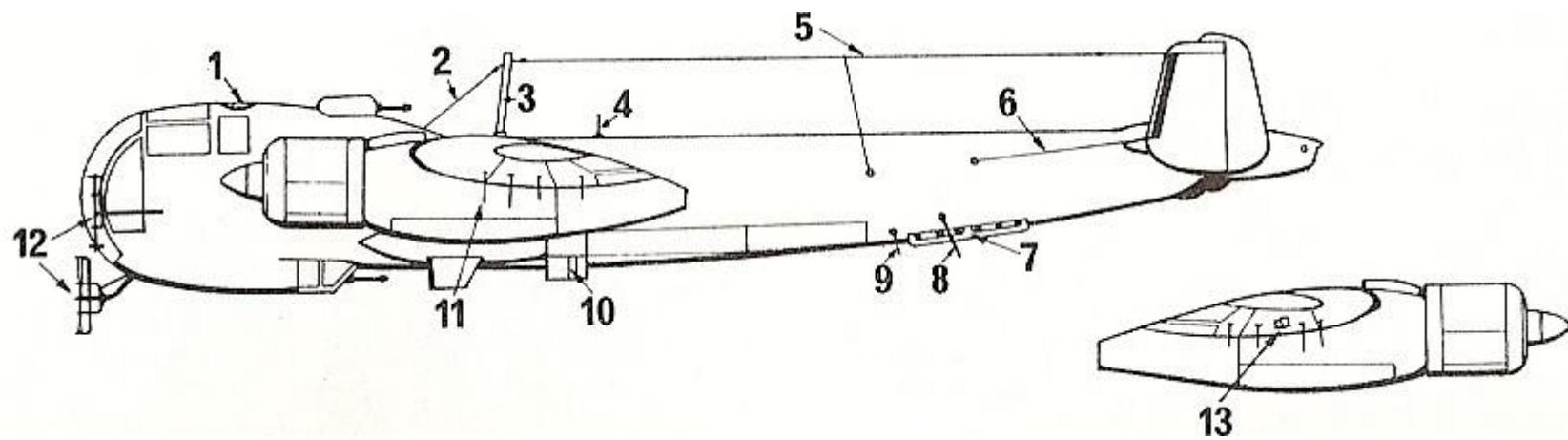














ARQ-8 Spot Jammer

P. GH
F AND



R-61/ARO-5
28VDC 115V 400-2600~
246-CUO 1008-DAY-00



POWER

SENSITIVITY

CALIBRAIL

BAND

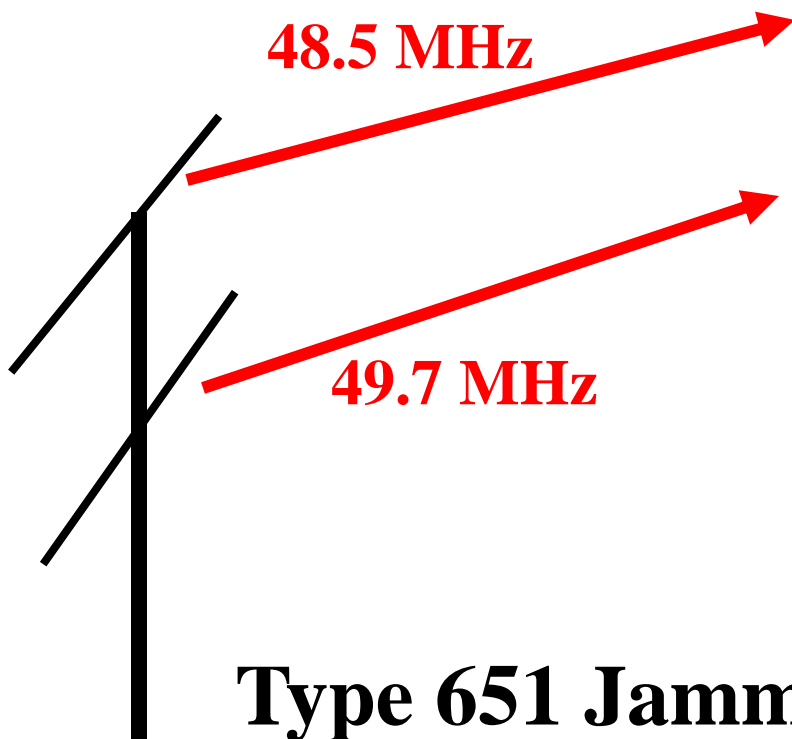
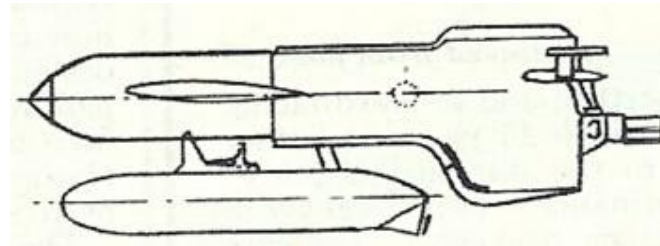
ON

FUSE

FUSE

OF

Let's assume that the IF of the missile receiver is 1.2 MHz...



**Mix 48.5 MHz + 49.7 MHz
in the receiver, and get 1.2 MHz...**

Which equals the IF...

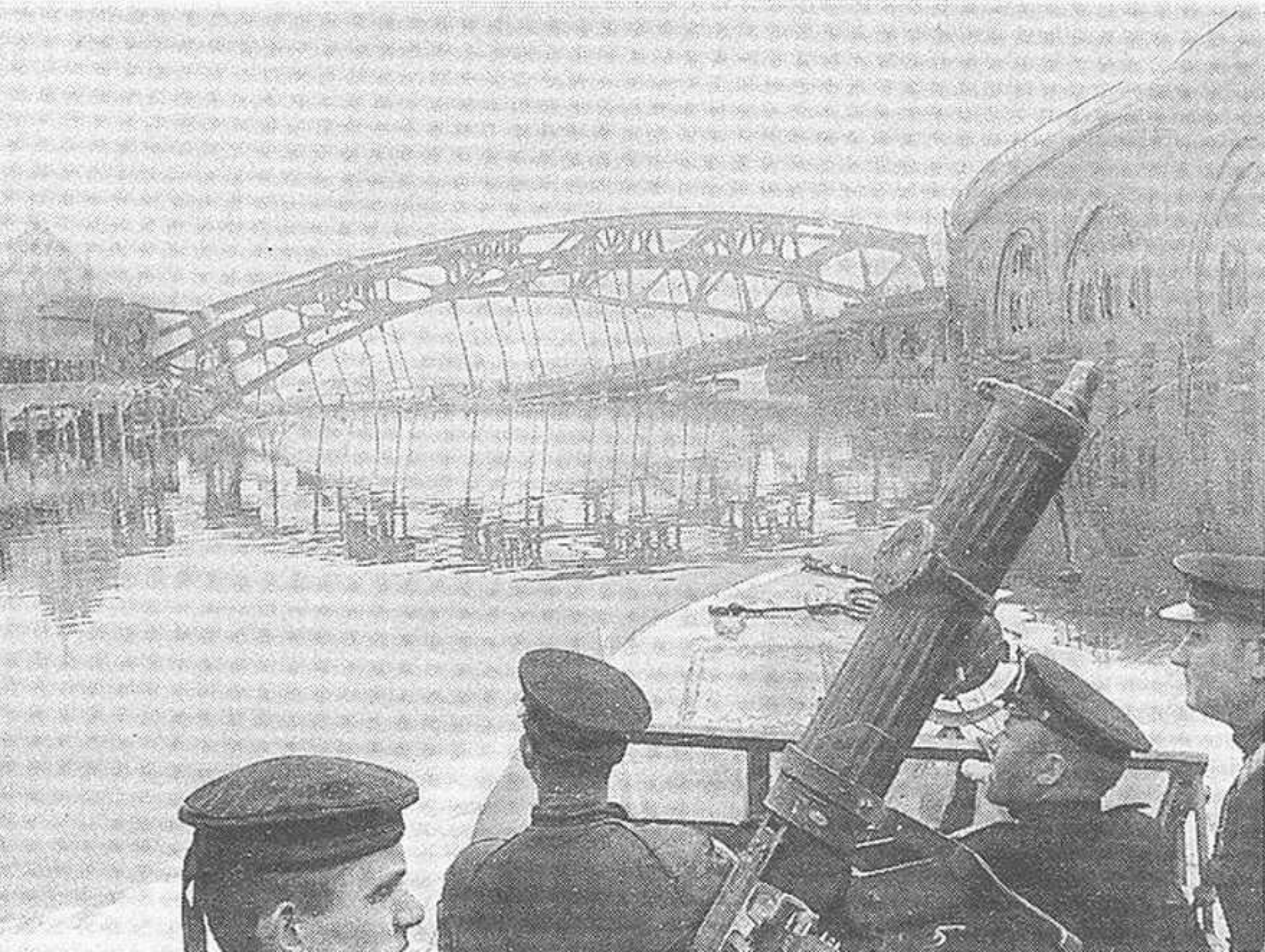
Which results in

**Cross-modulation
in the receiver!**

Type 651 Jammer



**Type 651 transmit antennas
Battleship HMS ANSON**



Conclusion

- A total of 319 guided bombs used in 65 operations
- 215 functioned correctly, achieving a hit rate of 49.3 %
- 40 Allied warships and 39 merchant vessels sunk or put out of action for the loss of 48 aircraft
- Compared to regular bombing, this was a phenomenal success rate!
- Had these weapons been available earlier in the war... one shudders at what could have happened



Lest We Forget