

SUBJECT: Fish Notes

TO : CO, SSA, War Dept.

1. Enclosed is microfilm containing texts of the following 6 May Gurnard messages from Berlin:- 2311, 2312, 2907, 2993, 3003, 4193. In view of your difficulties with the last batch of traffic the red forms were this time returned to Knockholt to be re-checked against the undulator tapes. I don't know whether any errors were found on the re-checking but don't see how anything further can be done to improve the accuracy of the texts.

2. One one more Jellyfish day (25 June) has been solved since my last Fish report. The break was statistical and confirms the conclusion that patterns change daily. χ_{37} had 23 dots.

3. Bream wheels changed again on 1 July and have not yet been broken. The station has been off the air for considerable periods and there has been almost no suitable traffic. Attempts to break via Codfish have just been started but its plain language characteristics are not as favorable.

4. There has been almost no Grilse traffic and nothing has been broken since the single message of 21 June.

5. Gurnard patterns changed 1 July and have not yet been solved despite heavy traffic and suitable messages. It may only be that the number of χ_{37} dots is very low. However, the lack of success on this and other links leads to the possibility that some much more ominous development has taken place. There have been references to a new attachment in operators' chat and a radical change of some kind seems not unlikely. The references may be addressed to the relatively innocuous χ_1 limitation but this hypothesis fails to account for current difficulties.

6. Jung Stickleback has just been solved on a depth. The limitation is now $\chi_1 + \chi_2 \cdot \chi_{37}$ has only 17 dots. No effort has yet been devoted to July.

7. Because of inability to solve other links work has recently been started on Tarpon (Berlin - Bucharest).

8. The fact that nothing current is being read has prevented the application of any cribbing techniques. About a week ago, before the difficulties with July traffic were realized, a 24 hour watch for cribs was instituted and this has not been abandoned. Some more Robinsons have been ordered and the first of these are due to arrive early in September.

9. I neglected to mention in Report #F 55 (IL 3599) that the Bream break referred to in paragraph 4 was by statistical methods.

10. Mr. Newman's section is, of course, working feverishly trying to break in somewhere. Maj. Tester's people are principally working on back traffic.

Encl.
1 microfilm

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Capt. Signal Corps

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