Global Energy Policy Research | GEPR

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??? ?? · Monday, October 7th, 2013

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??(1)??????????????

??????????????????

??-40?????1.25×10^{9} ???????11 Bq/L?1???????11??????

?????????-238(??? 4.5×10^{9} ?)? ??????0.04 Bq/L??
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??
??????

1963??????????????????2 x 10^{20} Bq??????????????(2)??????2011???????????^{137}Cs?195 x 10^{15} Bq?^{90}Sr?105 x 10^{15} Bq?????(3)?

??2 x10^{18} Bq????????????(2)?????^{137}Cs?85 x 10^{15} Bq????16 x 10^{15} Bq??

??????????????1960??????????????????0.01-0.1 Bq/L????????(3)??????????????????0.001-0.002 Bq/L????????????????????30????????????????????•????????????????????????

????????????????????1984??1???2????????8???????????

??????????????????????????????1??

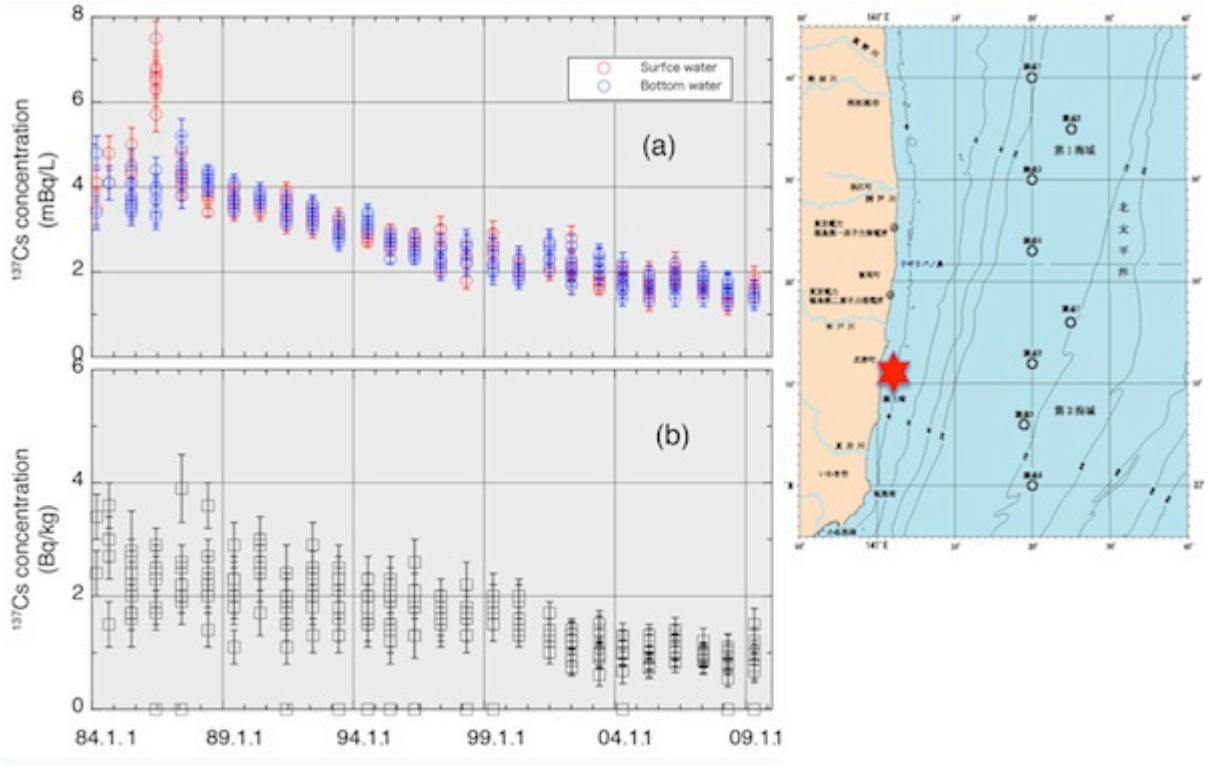


図1. 福島原発沖海域の海水(a)及び堆積物(b)中の^{137}Cs濃度の時系列変化（1984年-2010年）文部科学省によるモニタリングデータを元に作成。赤丸は表面水、青丸は底層水における測定値

1980???????^{137}Cs?????0.004 Bq/L??????????????????0.001-0.002 Bq/L????????1986?????????2??1 Bq/kg???(4)?

??????????????????

2011?3?11????????????????????????????????3?23??32???4????????????2????????????????????????????????30km???????????30km????????????????

1???????????????

??????????????2??????^{137}Cs????????????????????????2011?4???????????30km????190 Bq/L??????????????????????9?????????0.1 Bq/L??10 Bq/L??

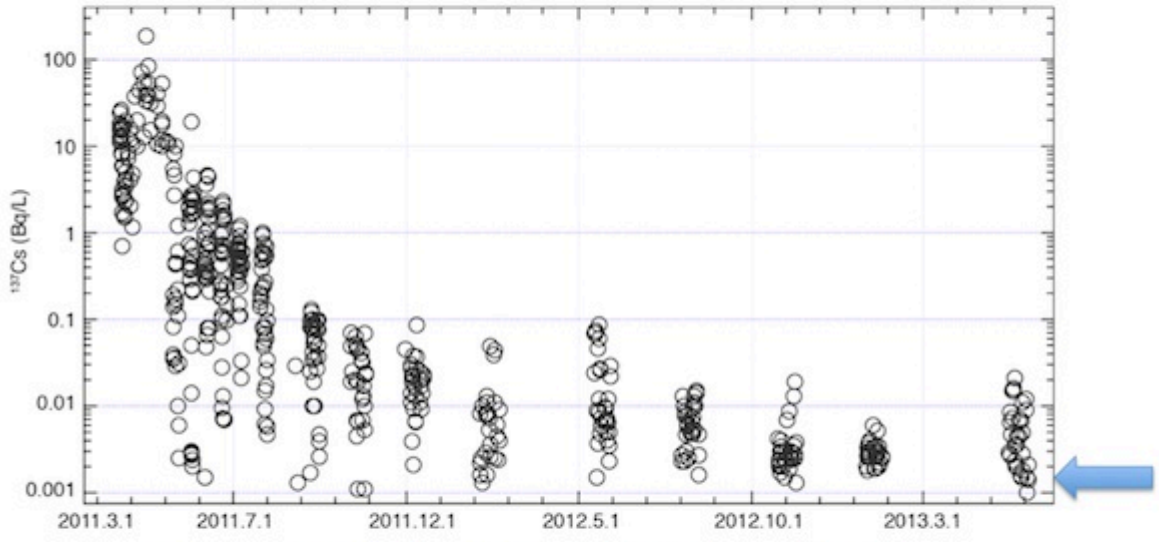


図2. 福島県沖及び近隣海域の表面水中の^{137}Cs濃度の変遷
文科省及び原子力規制庁のモニタリングデータを元に作成。
矢印は事故前の濃度レベル

2011????????????????????????????2013?5???????0.01-0.03 Bq/L???????????0.01Bq/L??????????????????????????????????????2011????????????????????? ???(5) (6)??

2??????????????

?3?2011?5???2013?1?????????????137Cs?? ??????????????????????????????????????

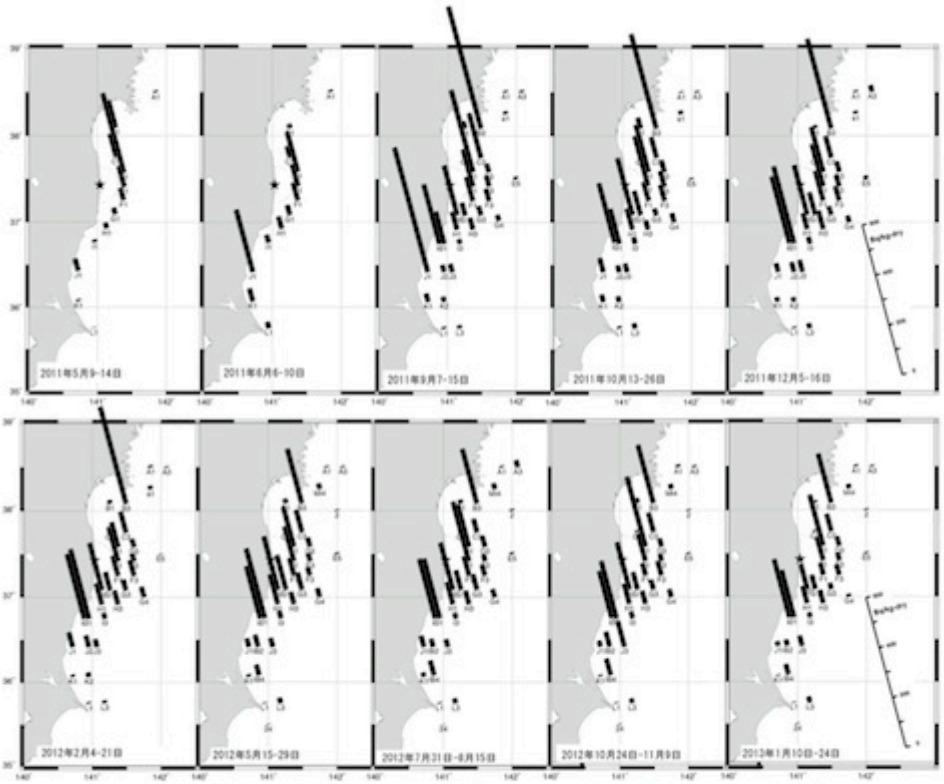


図3. 福島県沖及び近隣海域の海底土表層の^{137}Cs濃度の変遷
文科省及び原子力規制庁のモニタリングデータを元に作成。

??Bq/kg????Bq/kg??

???????????????????100Bq/kg??(7)??(7)?

????

??30km??

(8) Oikawa S., et al., Biogeosciences, 10, 5031–5047, 2013

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?2013?10?7????

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