

# 近年の日本海沿岸域の初冬期における降水量の増加傾向に関して

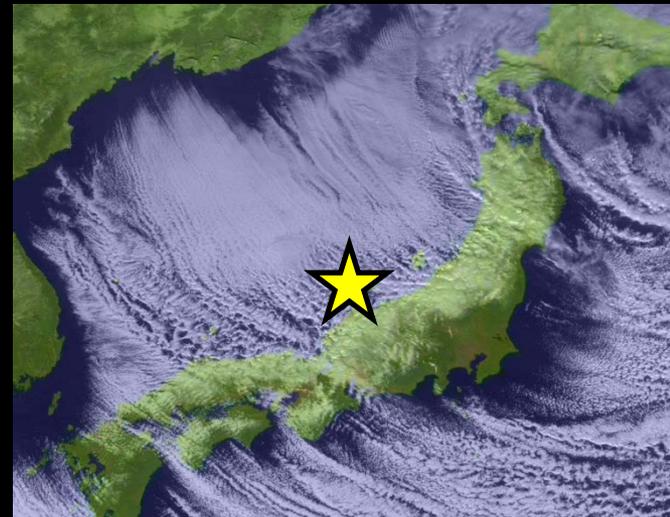
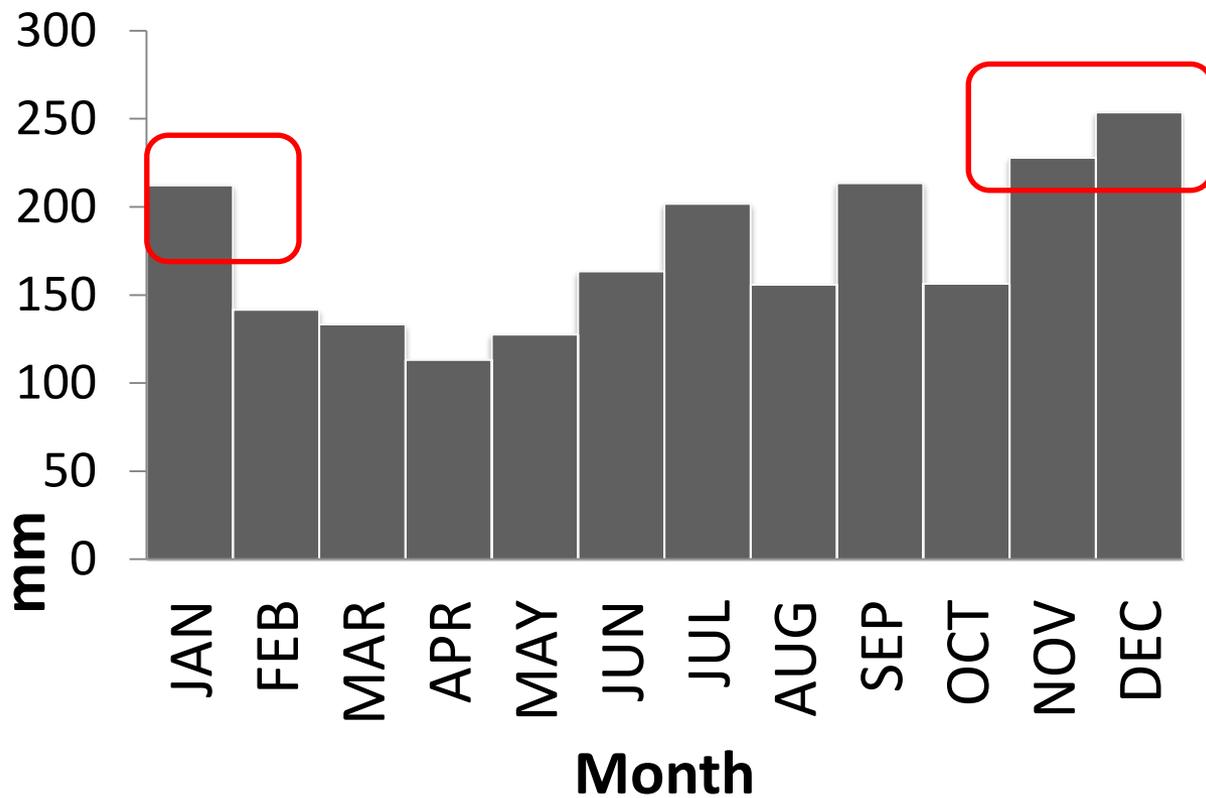
安永 数明(富山大学理工学研究部)

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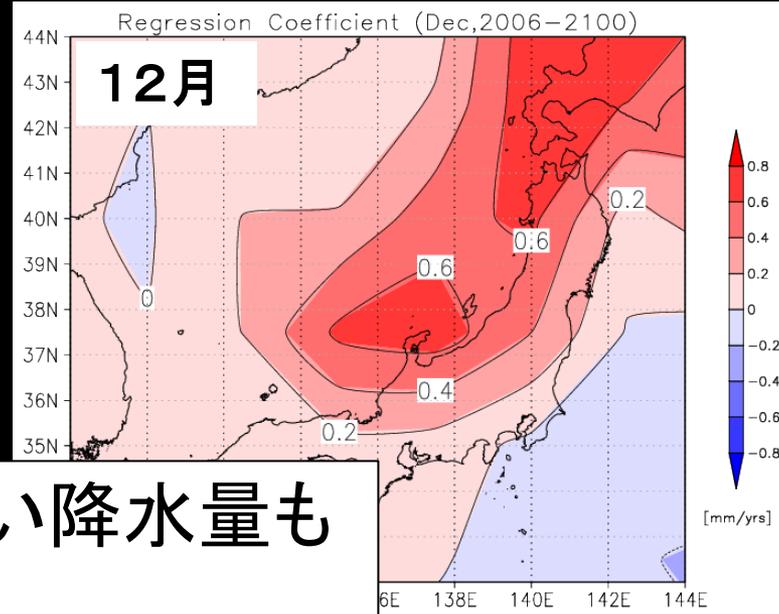
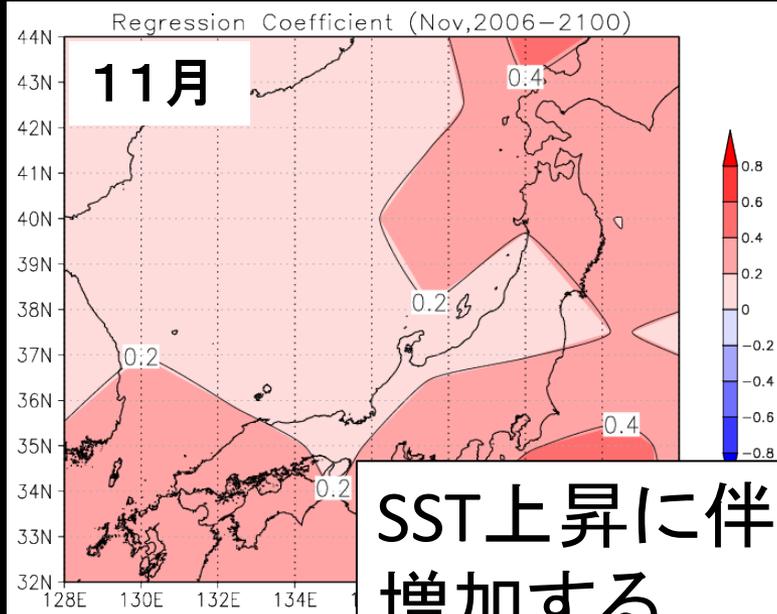
水野 翔太(富山大学理学部→WNI)

# 背景

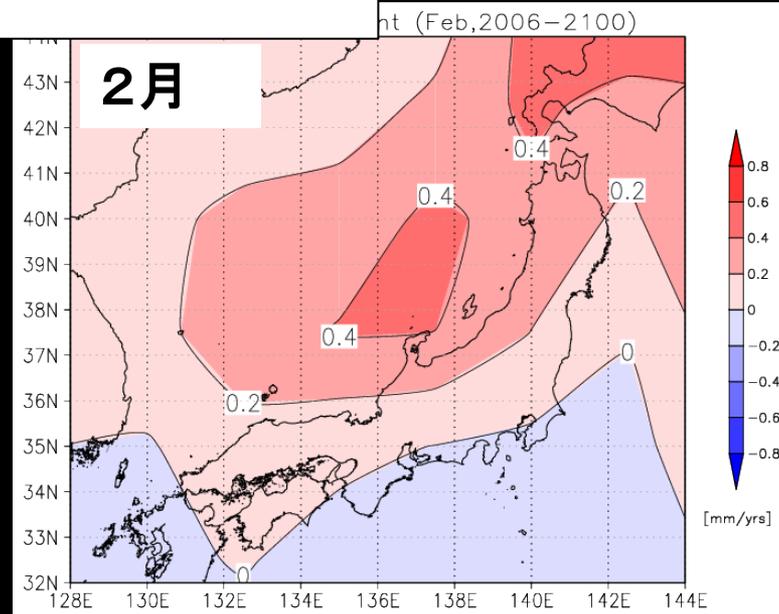
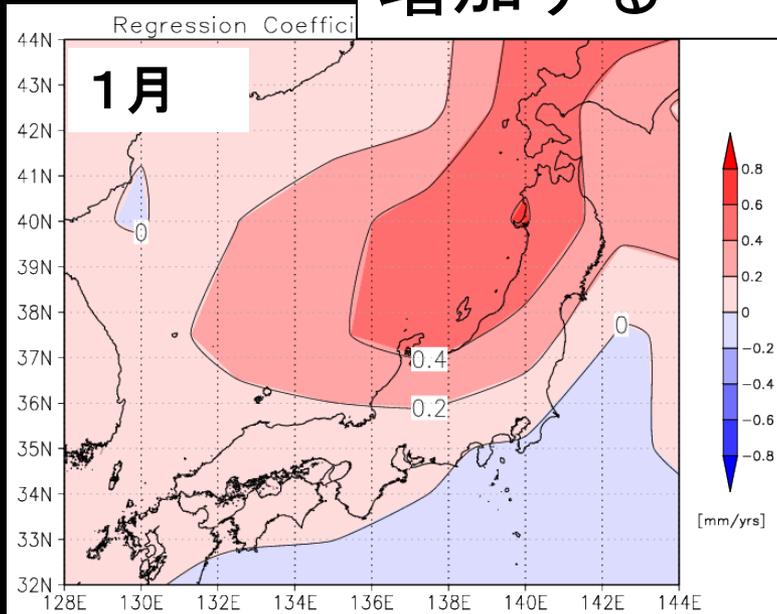
## 輪島の降水量の気候値



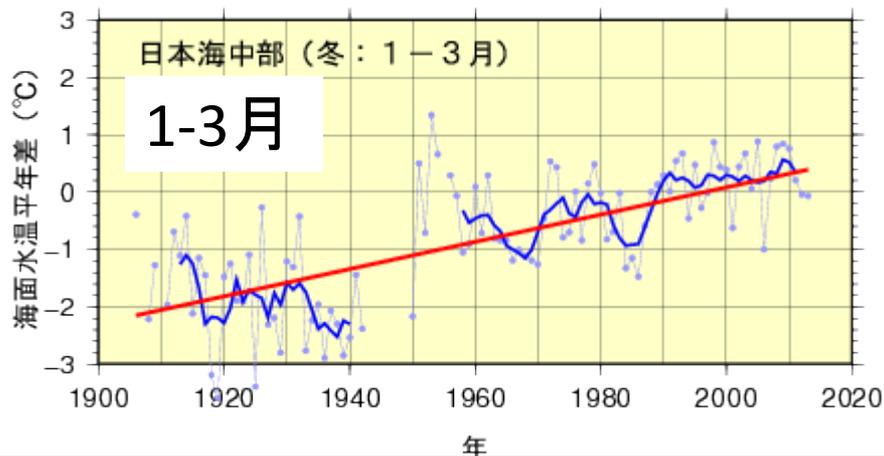
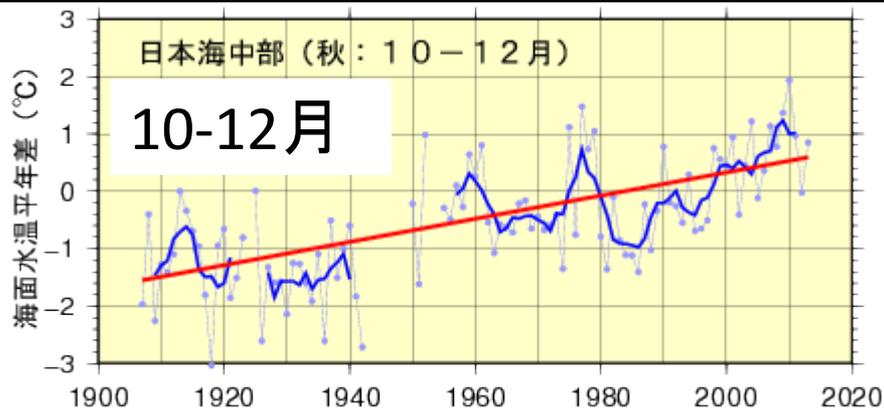
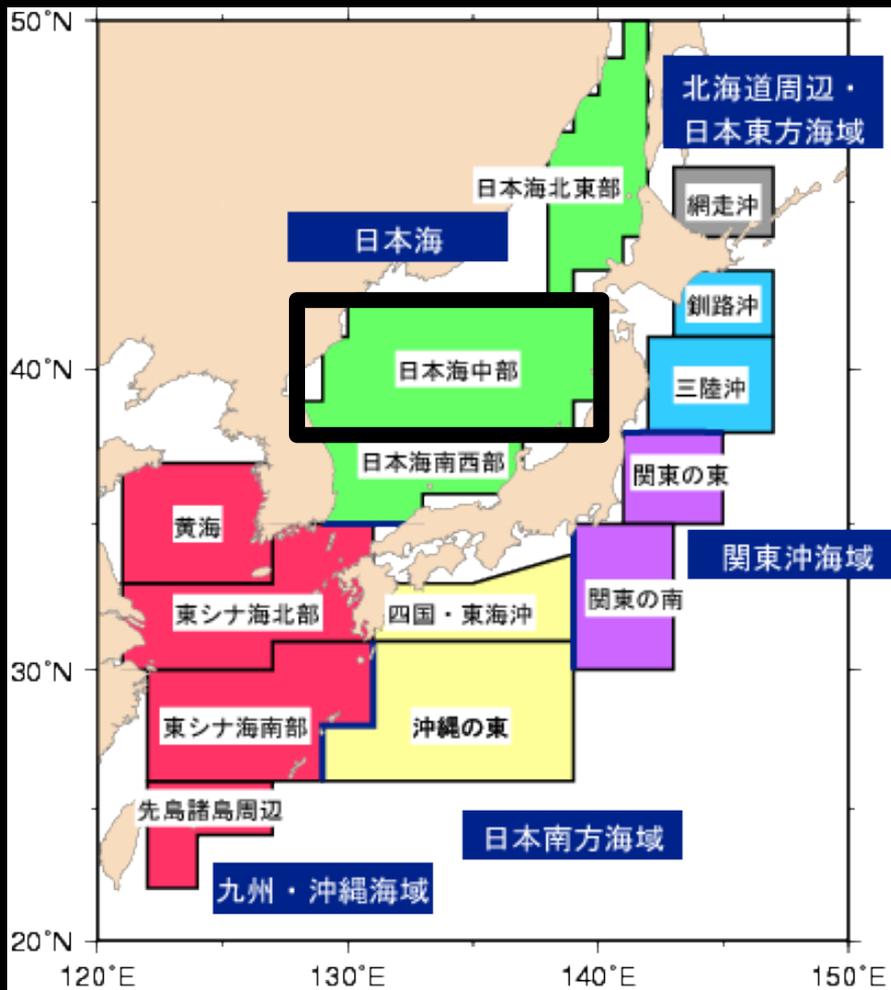
# MIROC5によるRCP8.5シナリオでの冬季降水量傾向



SST上昇に伴い降水量も増加する



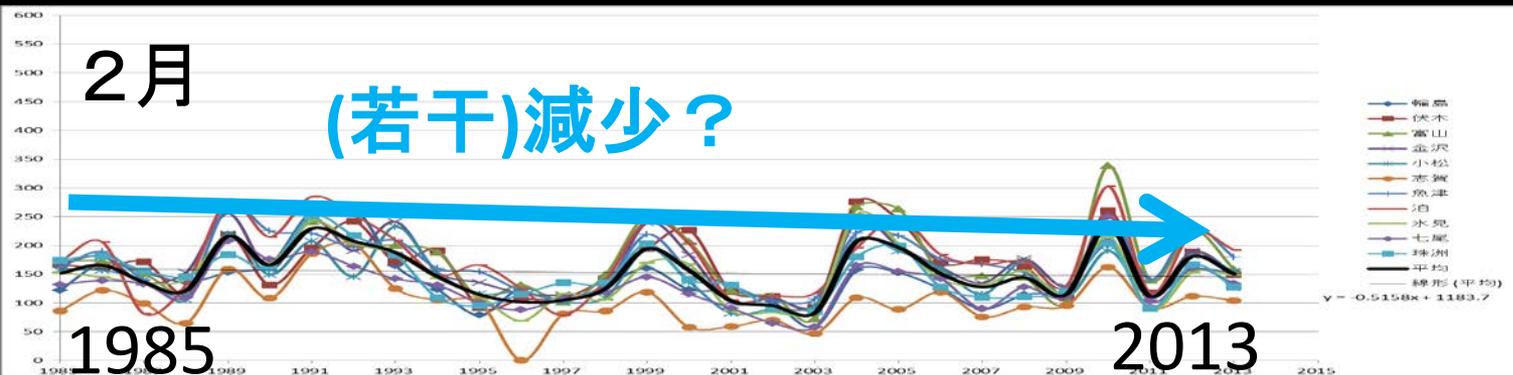
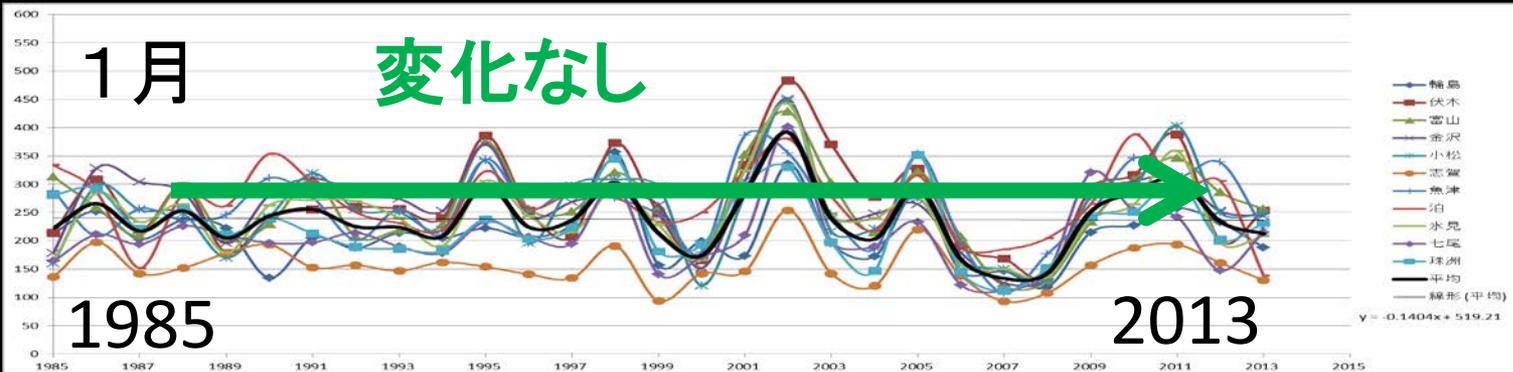
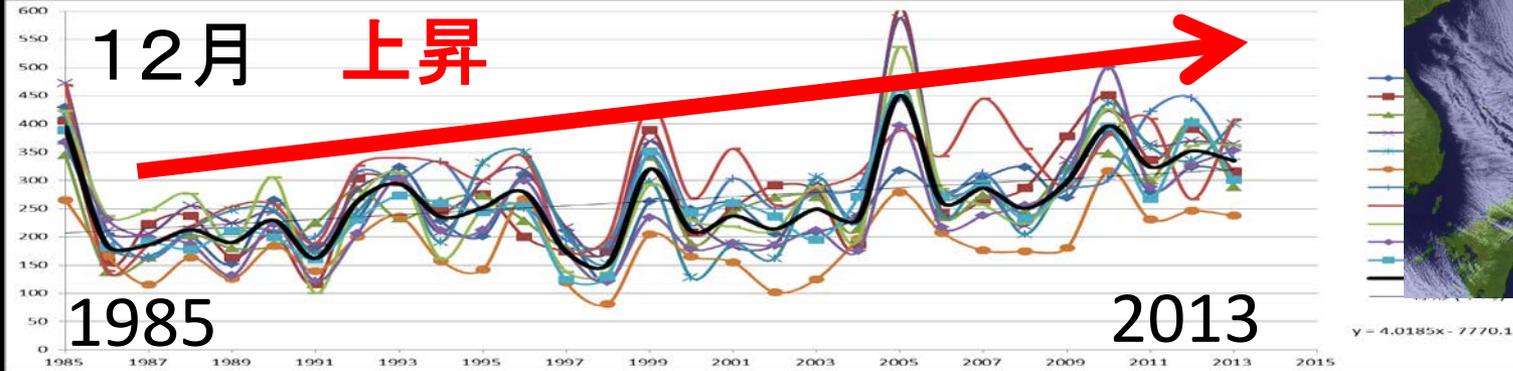
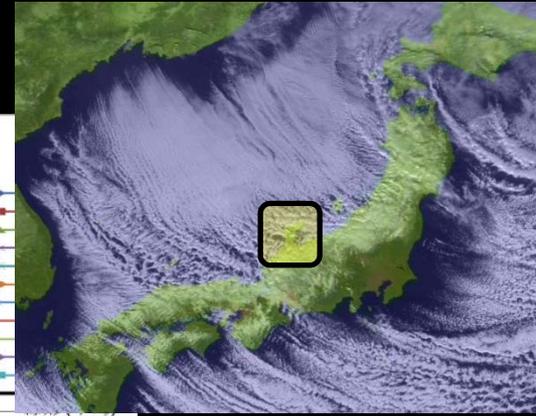
# 最近の北陸地域の冬季降水量の傾向は？



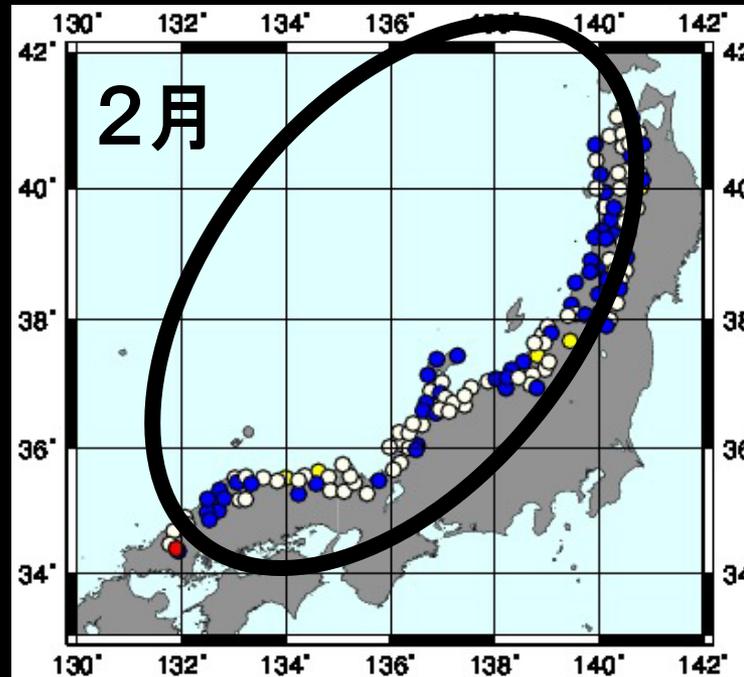
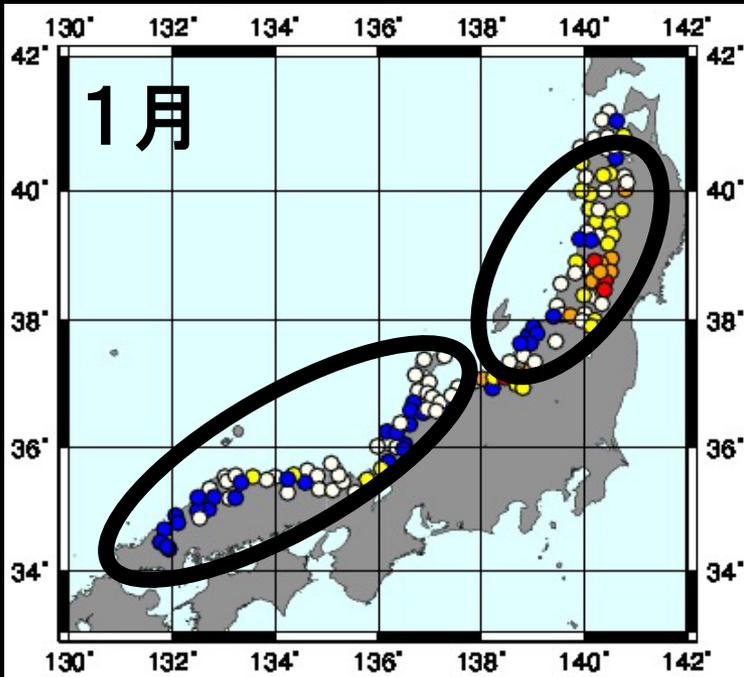
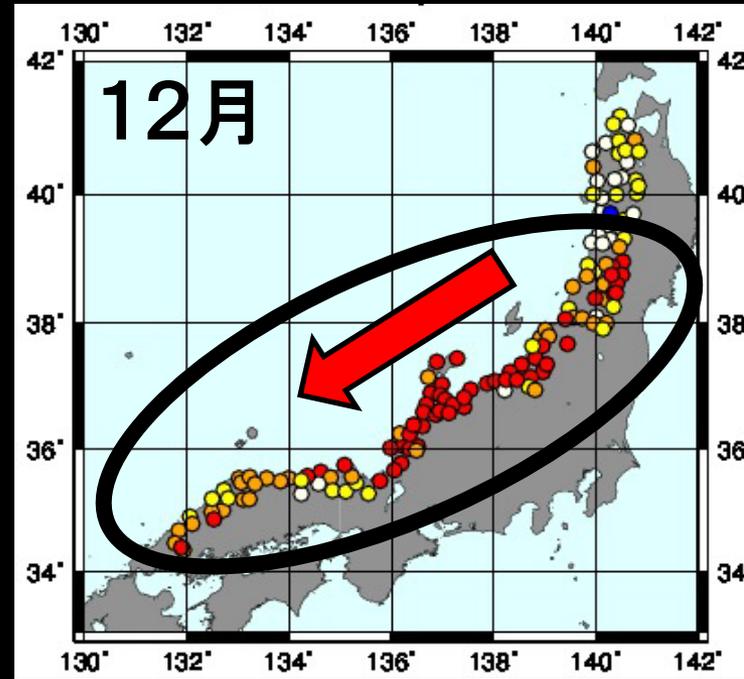
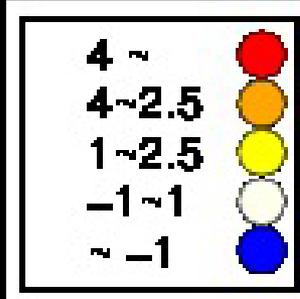
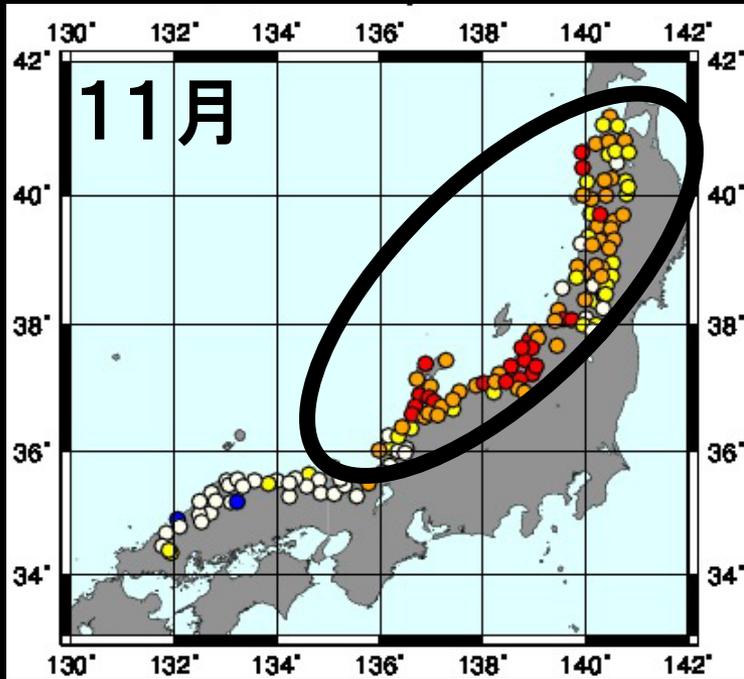
気象庁HPより

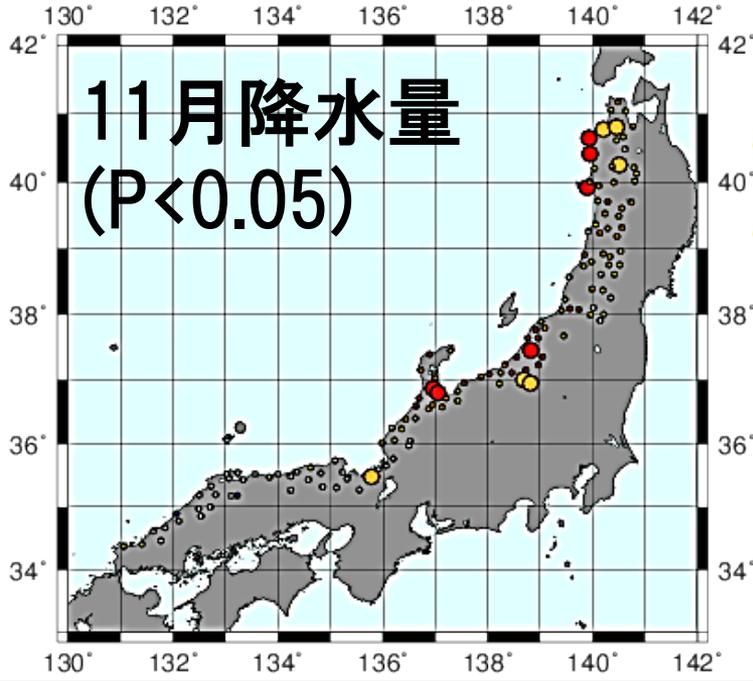
# 北陸地域の初冬期における降水量増加

データ: 気象庁アメダス

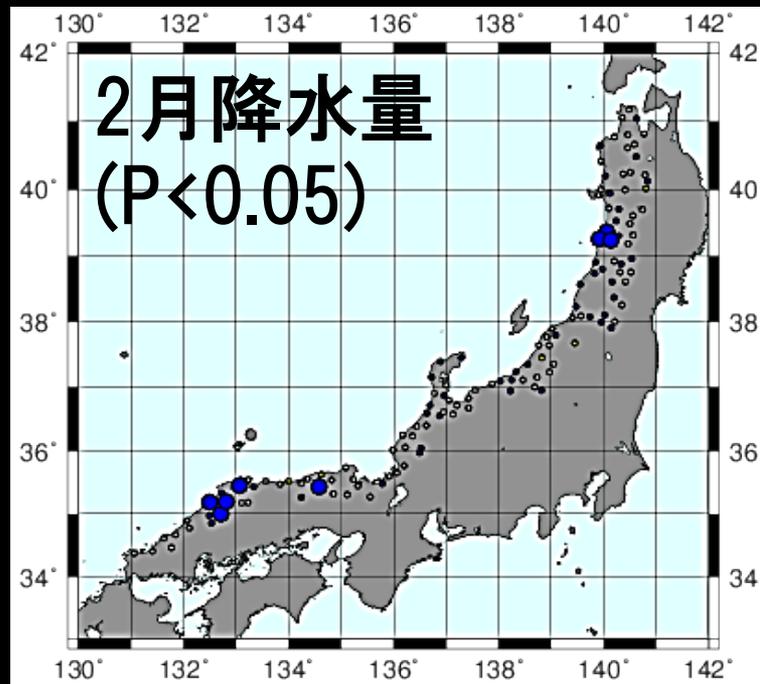
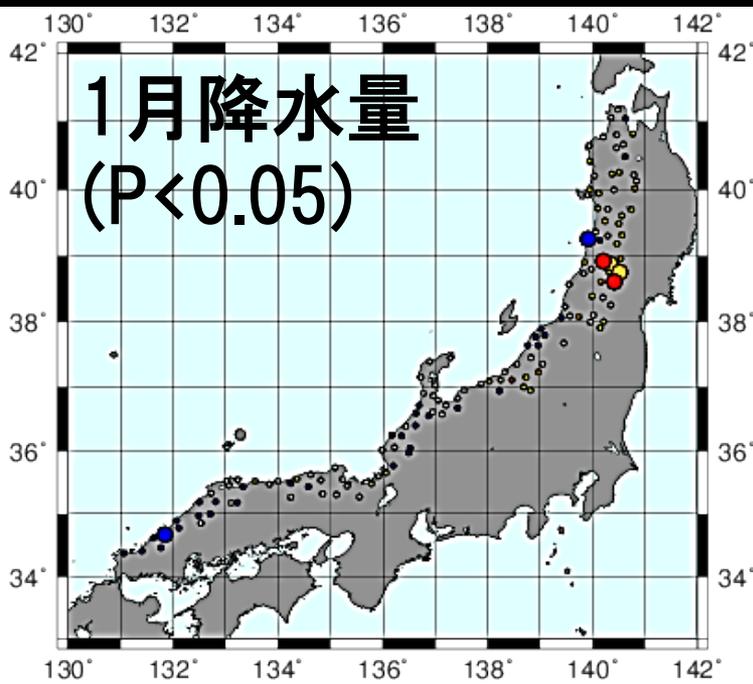
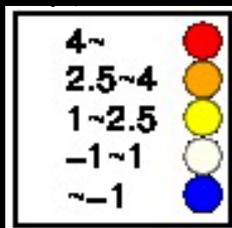
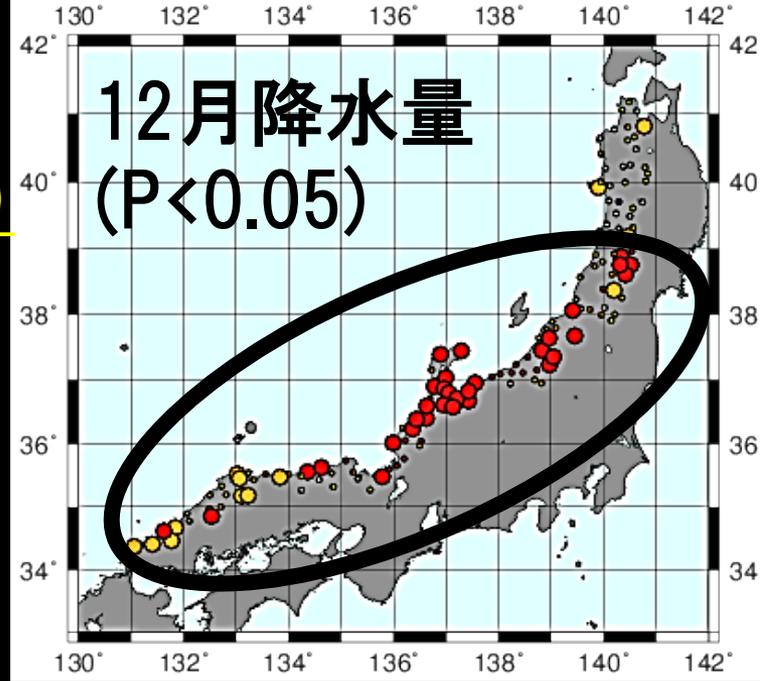


# 冬季降水量

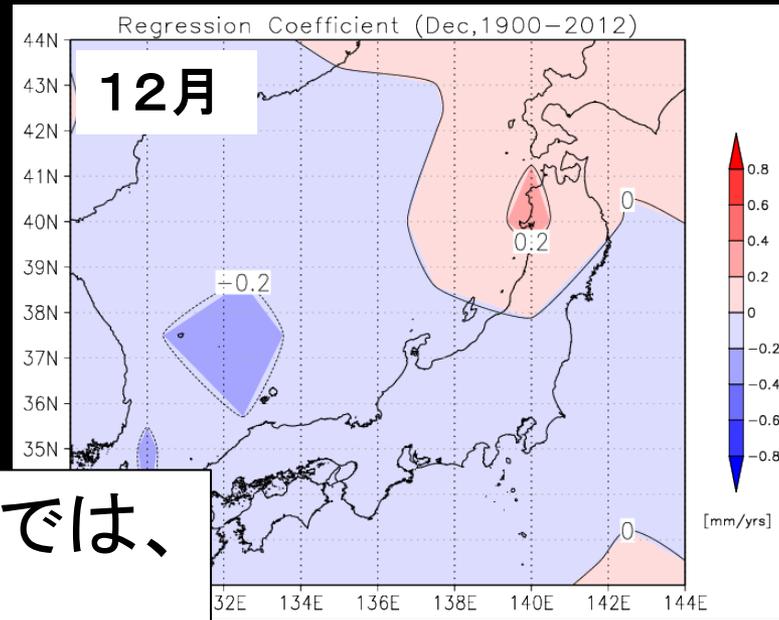
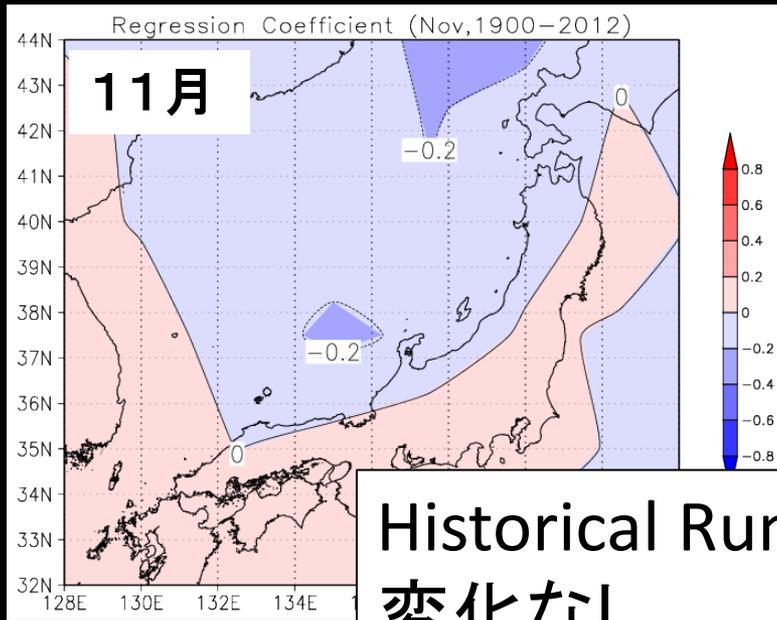




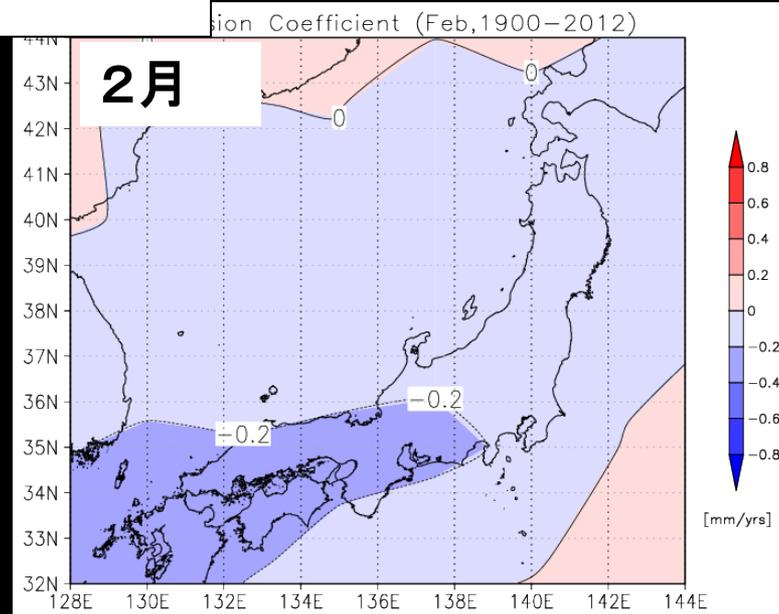
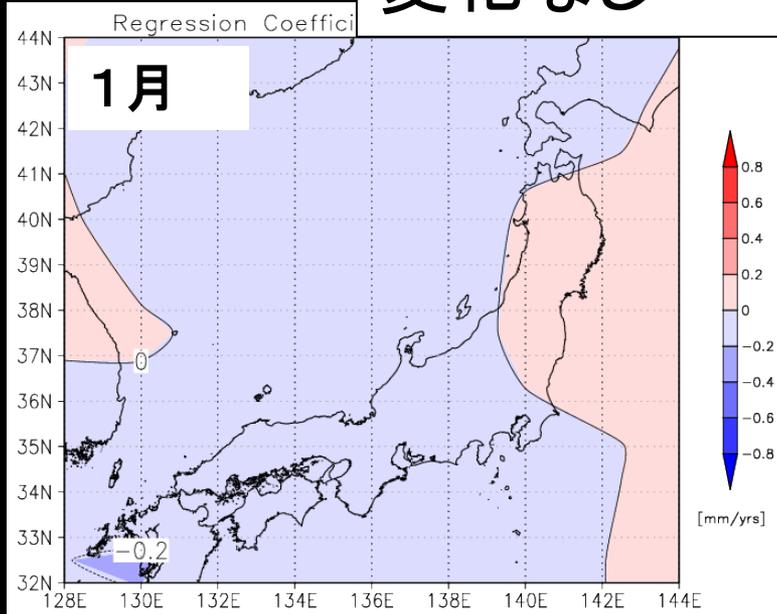
冬季降水量  
(有意なもの)



# MIROC5によるHistorical Runでの冬季降水量傾向



Historical Runでは、  
変化なし



# 疑問

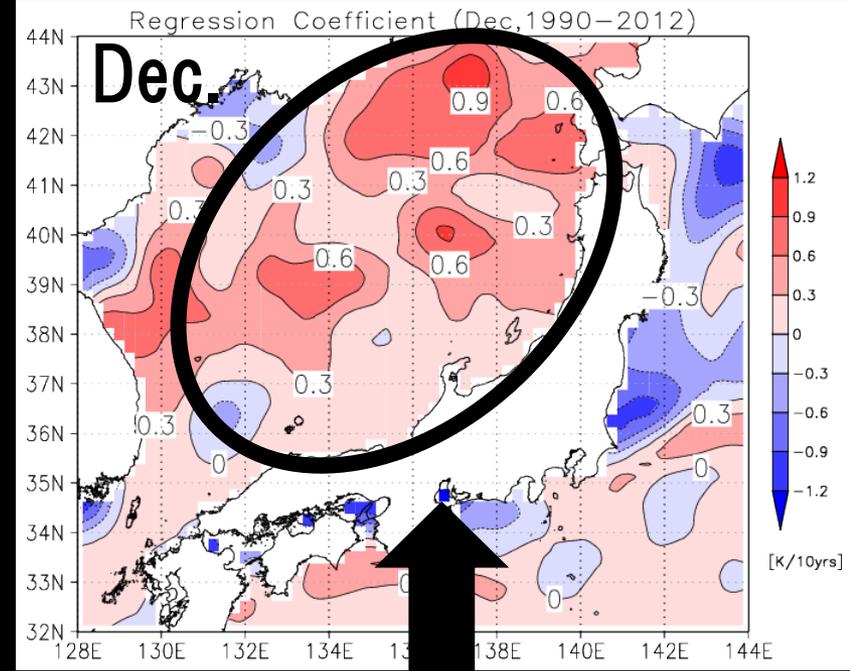
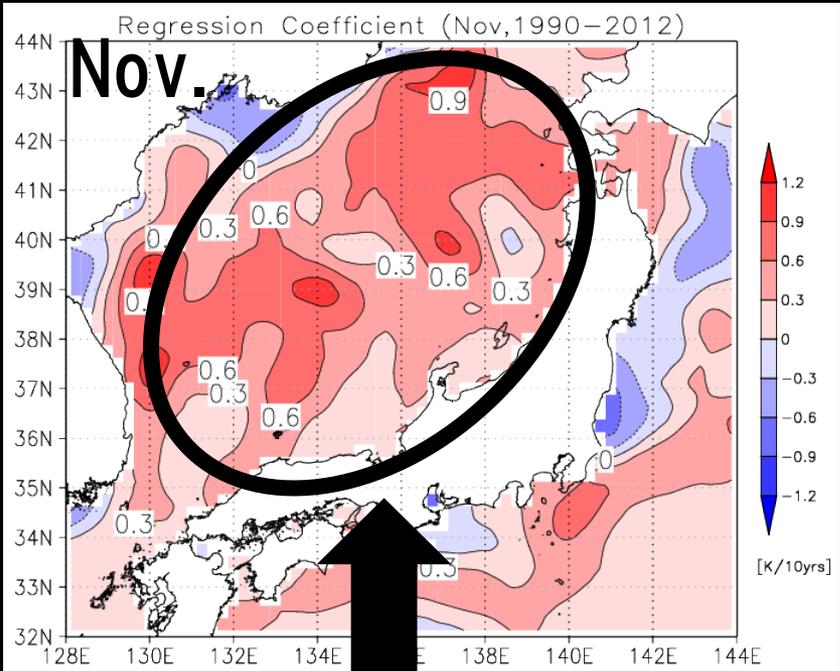
- SST上昇の空間パターンは？
- 「SST → 降水量増加」であるとしても、直接的な原因は？

(1) 大気中の水蒸気量 (TPW) ？

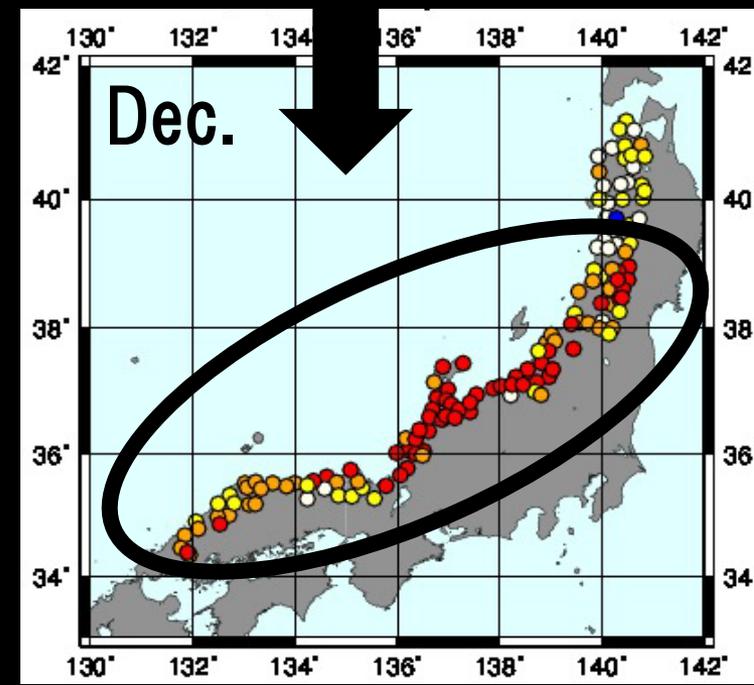
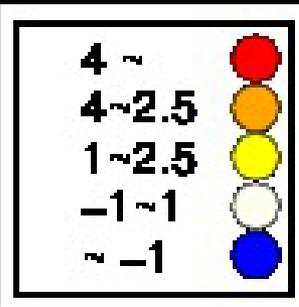
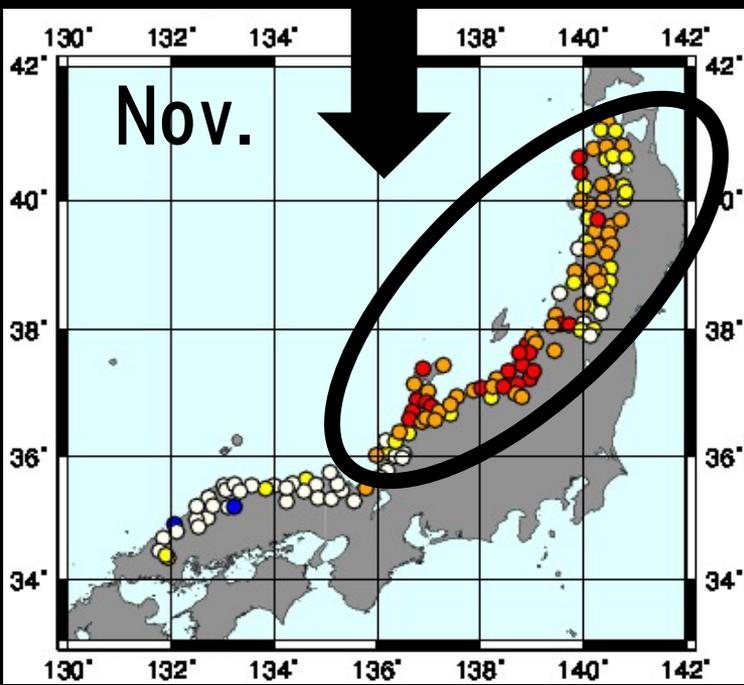
(2) 下層の風速は (Surface Wind) ？

(3) 大気の成層状態？

# SST

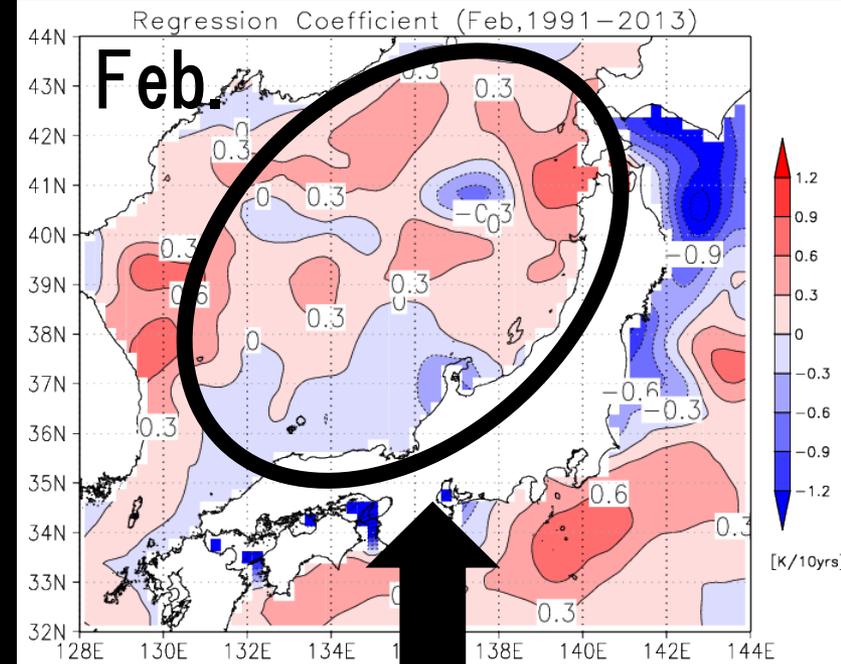
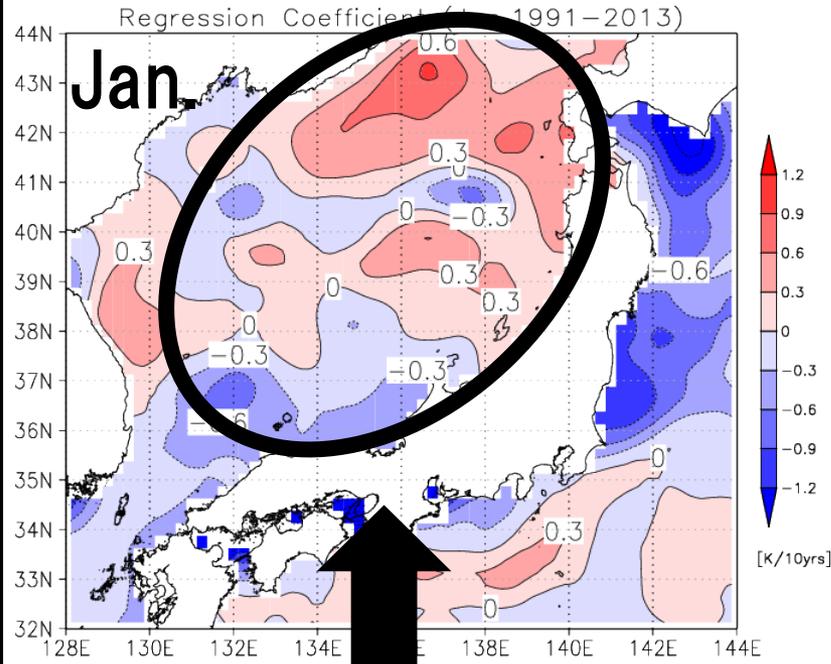


# Precipitation

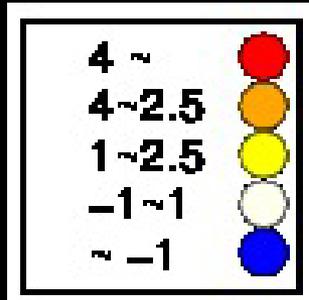
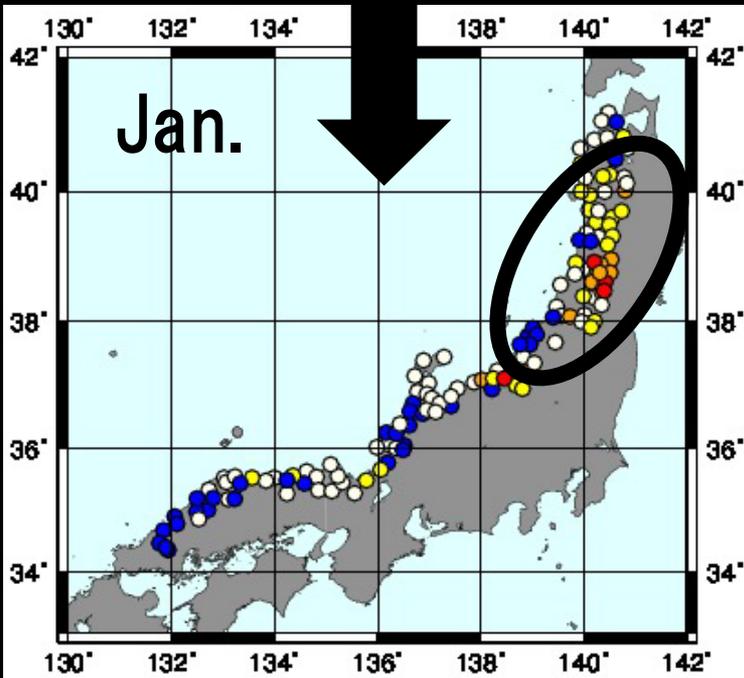


Southward shift is not seen in SST.

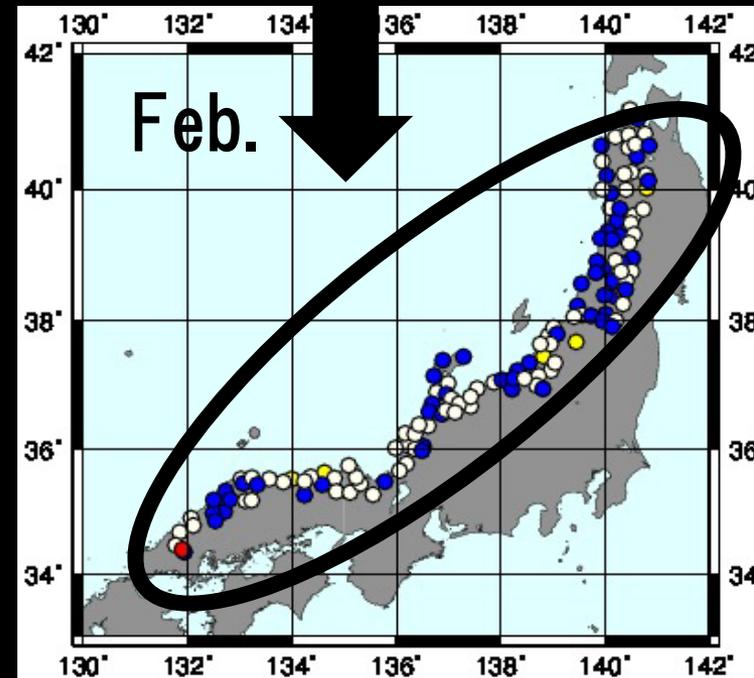
# SST



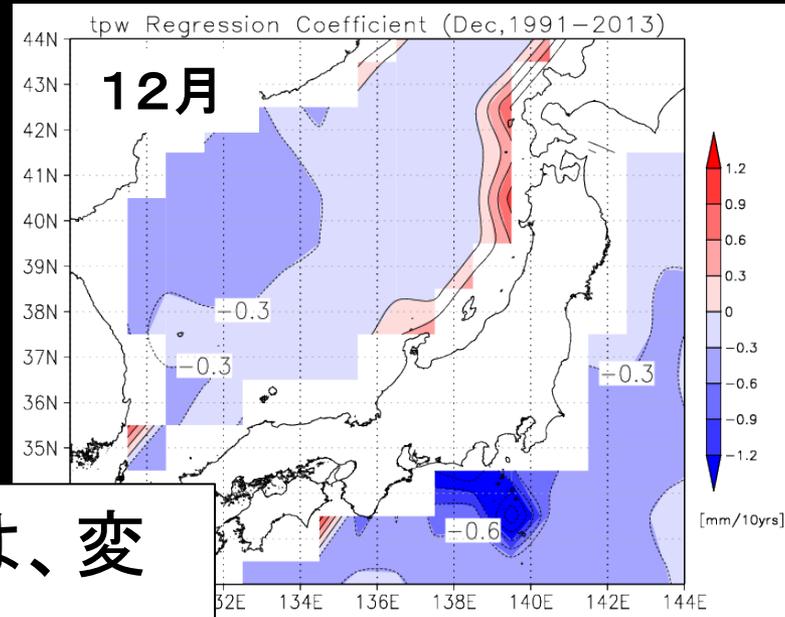
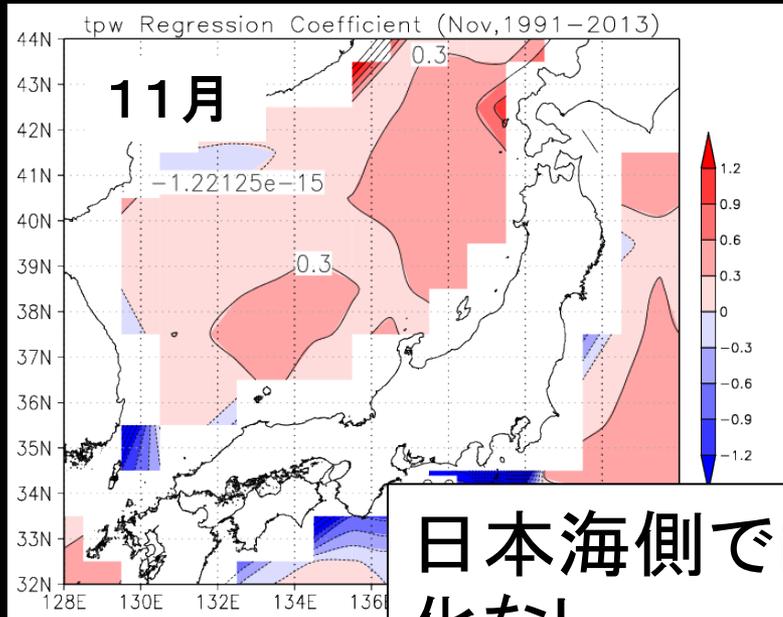
# Precipitation



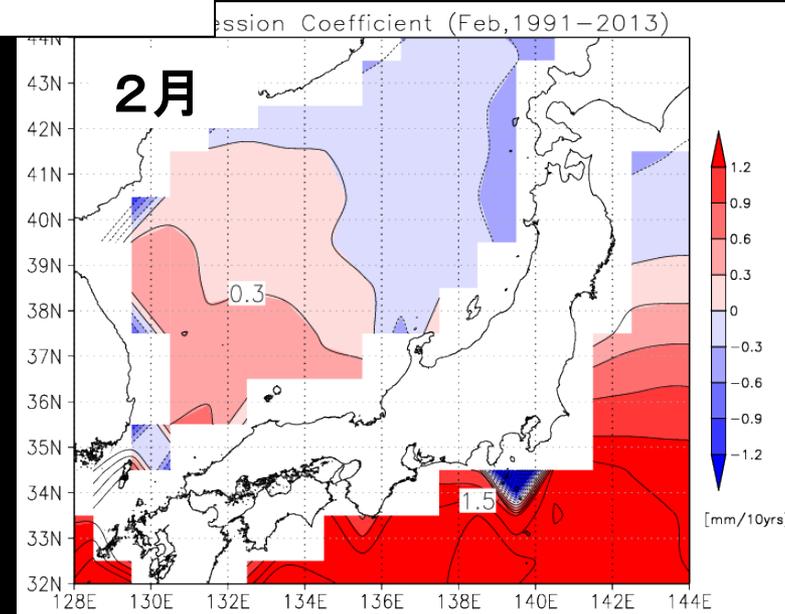
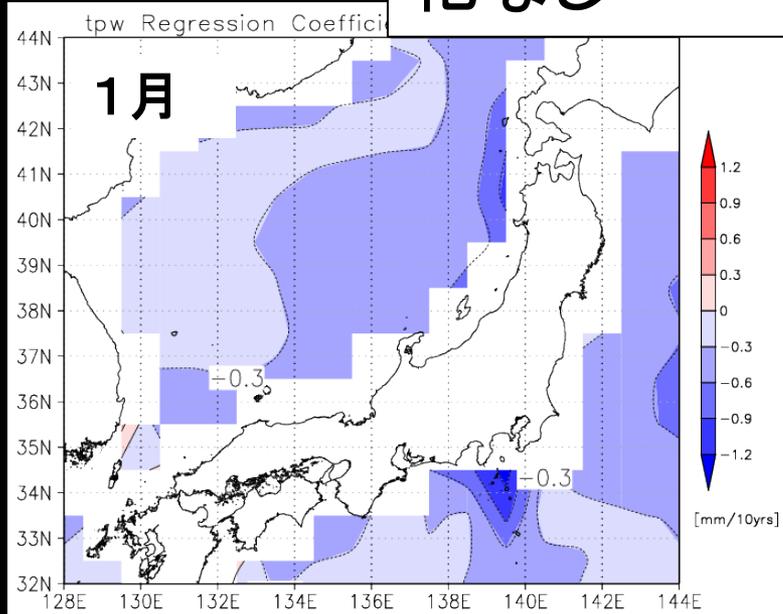
SST trend > 0  
However  
Pr trend < 0



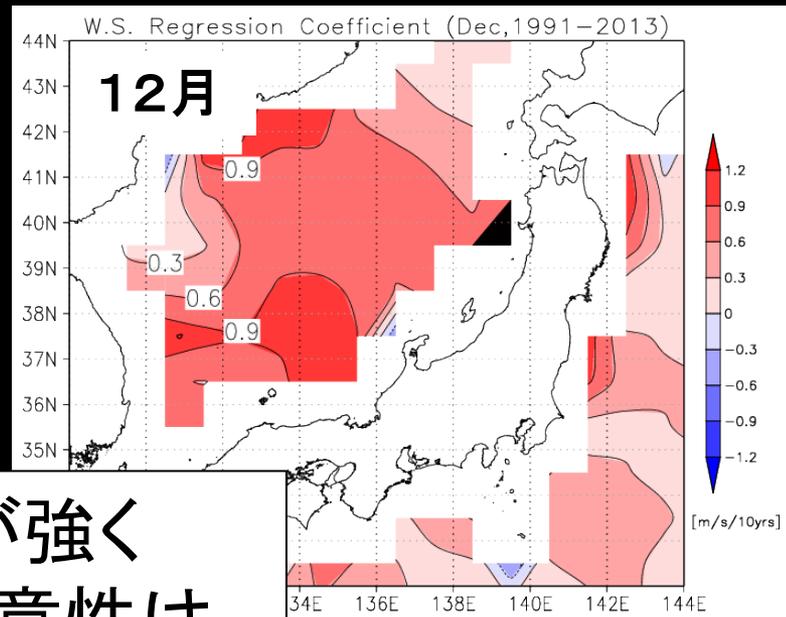
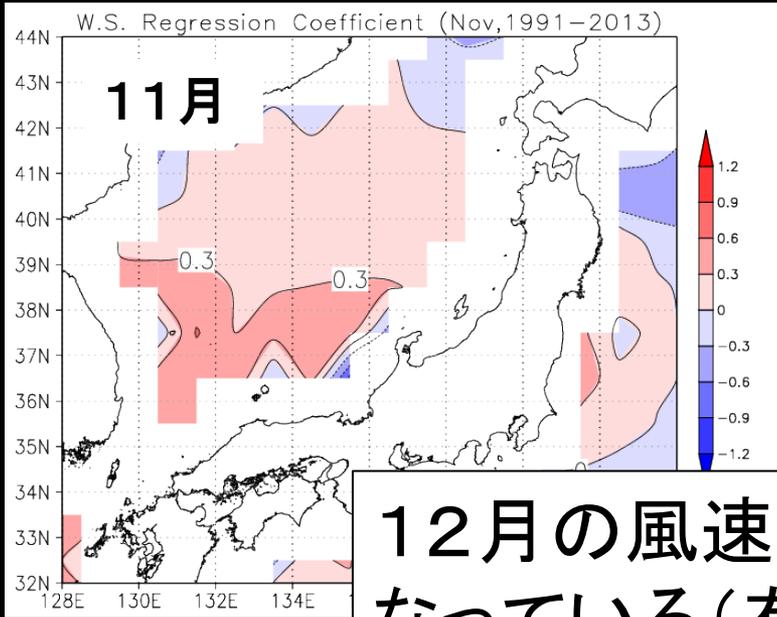
# 可降水量(TPW)のトレンド(衛星観測値)



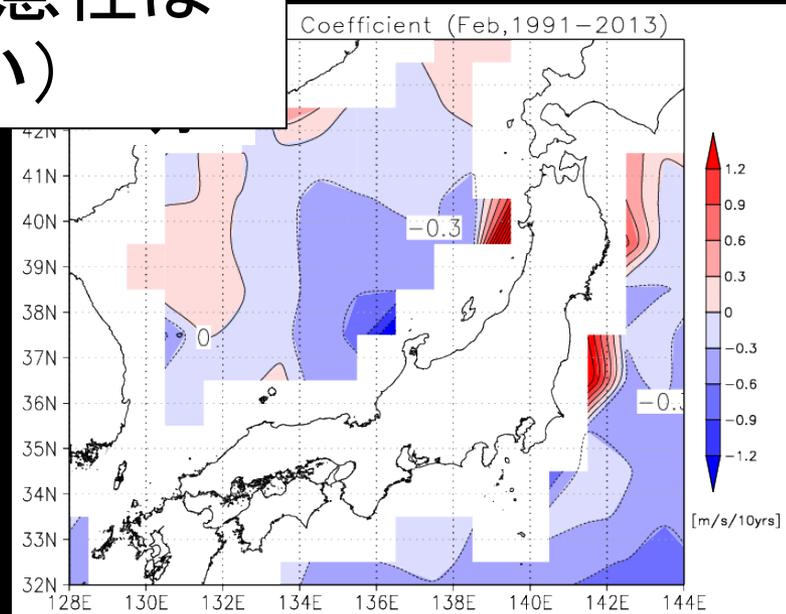
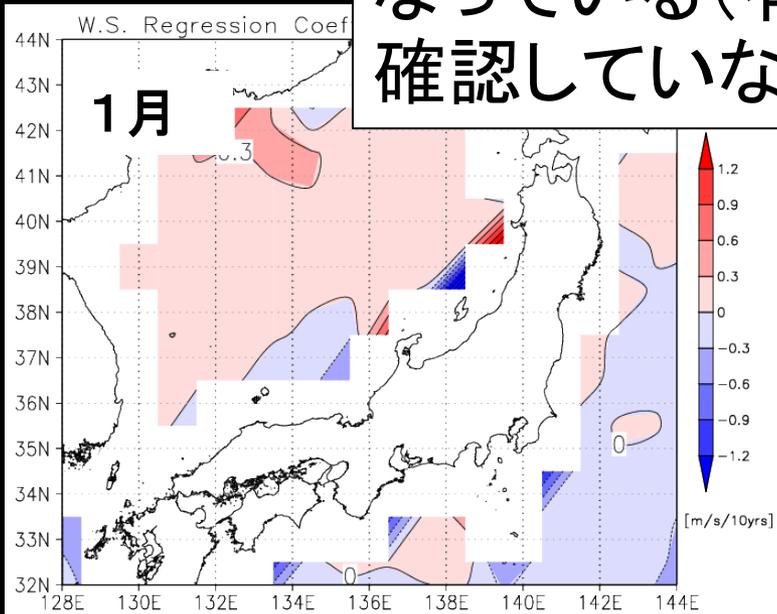
日本海側では、変化なし



# 風速のトレンド(衛星観測値)



12月の風速が強くなっている(有意性は確認していない)



# まとめ

- SST上昇の空間パターンは？

「そのまま」近隣の降水量増加に結びついてはいない

- 「SST → 降水量増加」であるとしても、直接的な原因は？

(1) 大気中の水蒸気量 (TPW) ？

→ 変化なし

(2) 下層の風速は (Surface Wind) ？

→ 低気圧の発達の結果を見ているのかもしれない

(3) 大気の成層状態？

→ 今後の課題