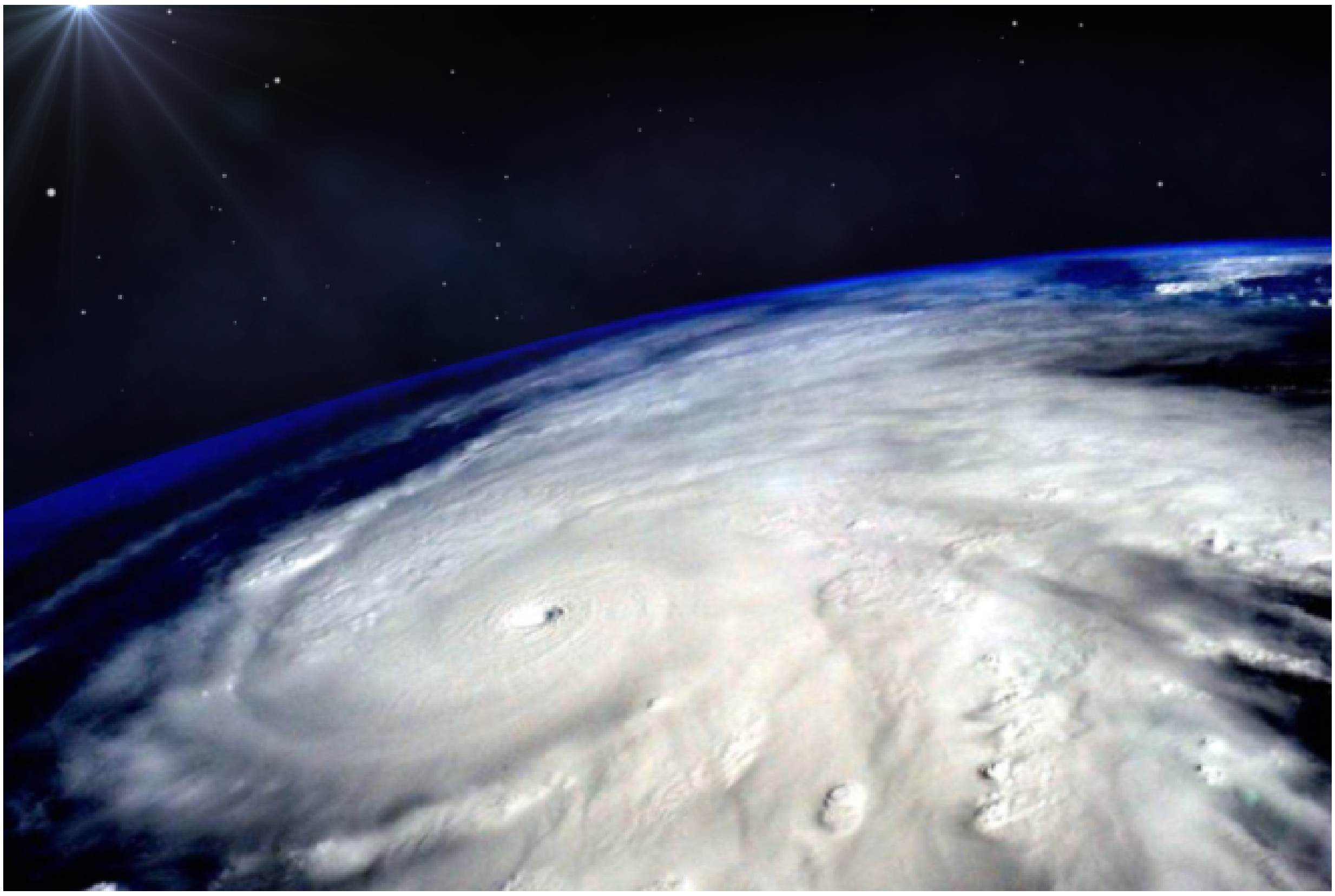
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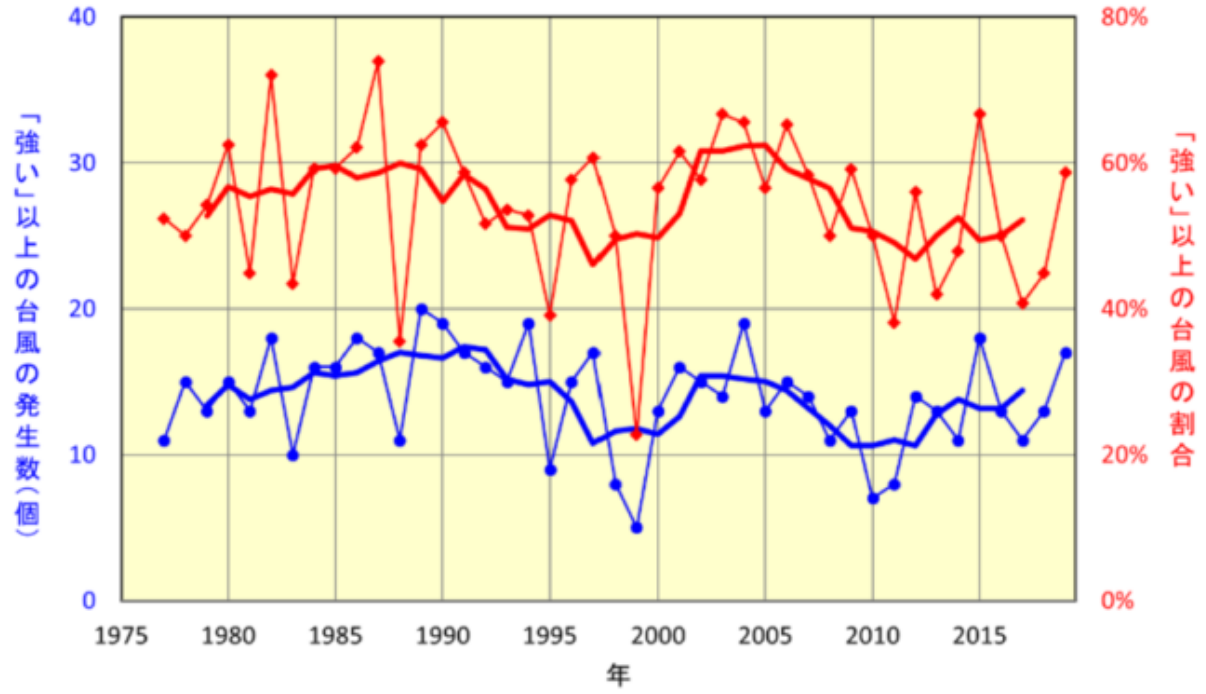
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A.3.4　強い熱帯低気圧（カテゴリー3～5[訳注3]）の発生の割合は過去40年間で増加しており、北西太平洋の熱帯低気圧がその強度のピークに達する緯度が北に遷移している*可能性が高い*。これらの変化は内部変動だけでは説明できない（*確信度が中程度*）。全てのカテゴリーの熱帯低気圧の頻度に長期（数十年から百年）変化傾向があることの*確信度は低い*。イベント・アトリビューション研究と物理的な理解は、人為起源の気候変動は熱帯低気圧に伴う

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Table 1. Differences in major hurricane intensity exceedance probability (P_{maj}) between the early and later halves of the period of analysis

	ADT-HURSAT							
	Global	NA	EP	WP	NI	SI	SP	Best-track global
Early (1979–1997)	P_{maj} = 0.3399 CI=[0.3243,0.3555] N_{tot} = 9420 N_{maj} = 3202	P_{maj} = 0.2306 CI=[0.1829,0.2783] N_{tot} = 798 N_{maj} = 184	P_{maj} = 0.3145 CI=[0.2851,0.3438] N_{tot} = 2560 N_{maj} = 805	P_{maj} = 0.4341 CI=[0.4067,0.4615] N_{tot} = 3345 N_{maj} = 1452	P_{maj} = 0.1841 CI=[0.1039,0.2643] N_{tot} = 239 N_{maj} = 44	P_{maj} = 0.2750 CI=[0.2362,0.3138] N_{tot} = 1360 N_{maj} = 374	P_{maj} = 0.3068 CI=[0.2627,0.3509] N_{tot} = 1118 N_{maj} = 343	P_{maj} = 0.2895 CI=[0.2767,0.3023] N_{tot} = 12855 N_{maj} = 3722
Late (1998–2017)	P_{maj} = 0.3725 CI=[0.3559,0.3891] N_{tot} = 9275 N_{maj} = 2842	P_{maj} = 0.3965 CI=[0.3568,0.4363] N_{tot} = 1551 N_{maj} = 615	P_{maj} = 0.3309 CI=[0.2967,0.3651] N_{tot} = 1940 N_{maj} = 642	P_{maj} = 0.4129 CI=[0.3839,0.4419] N_{tot} = 2962 N_{maj} = 1223	P_{maj} = 0.1911 CI=[0.1072,0.2750] N_{tot} = 225 N_{maj} = 43	P_{maj} = 0.3543 CI=[0.3114,0.3973] N_{tot} = 1270 N_{maj} = 450	P_{maj} = 0.3577 CI=[0.3018,0.4137] N_{tot} = 752 N_{maj} = 269	P_{maj} = 0.3461 CI=[0.3330,0.3591] N_{tot} = 13567 N_{maj} = 4695
Change	+5% decade^{-1}	+38% decade^{-1}	+3% decade^{-1}	−3% decade^{-1}	+2% decade^{-1}	+15% decade^{-1}	+9% decade^{-1}	+10% decade^{-1}
Sig.lev.	95%	99%	n/s	n/s	n/s	90%	n/s	99%
Triad time series	+6% decade^{-1} P = 0.02	+42% decade^{-1} P = 0.02	+7% decade^{-1} P = 0.25	+2% decade^{-1} P = 0.58	−15% decade^{-1} P = 0.71	+31% decade^{-1} P = 0.004	+8% decade^{-1} P = 0.13	

CI is the pointwise 95% confidence interval on P_{maj}. The significance level (Sig. lev.) of the difference is also shown (n/s = not significant at the 90% level or higher). N_{tot} and N_{maj} are the total number of hurricane and major hurricane estimates, respectively, in each period. The bottom row shows the Theil–Sen trend amplitudes and Mann–Kendall significance levels (P values) for the triad time series shown in Figs. 2 and 3 of the manuscript.

????Global????????????Change?+5%/decade??????????????10?????5%????????????

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?0.3725?????????????????????????????1?????????????

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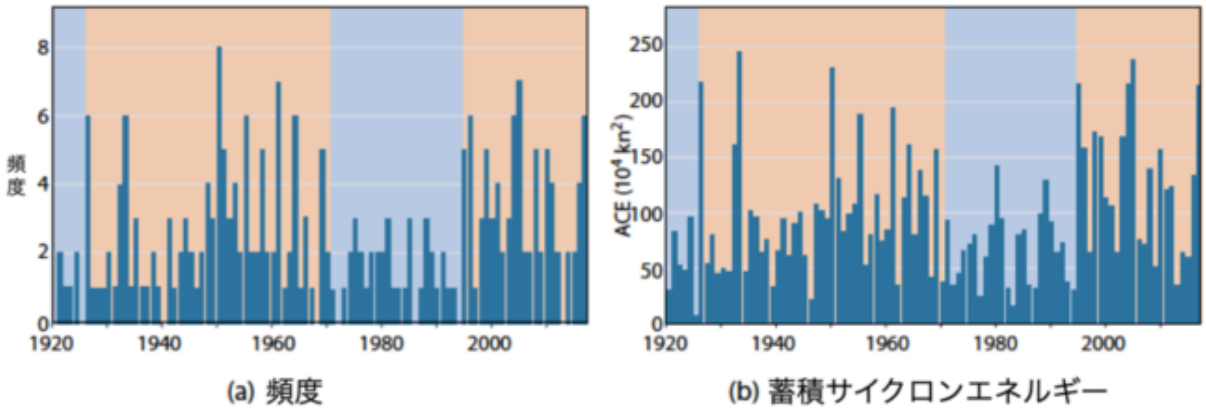


図 3: 1920 年以来の大西洋ハリケーン活動観測値

AMO温暖フェーズはオレンジ背景、寒冷フェーズは青い背景

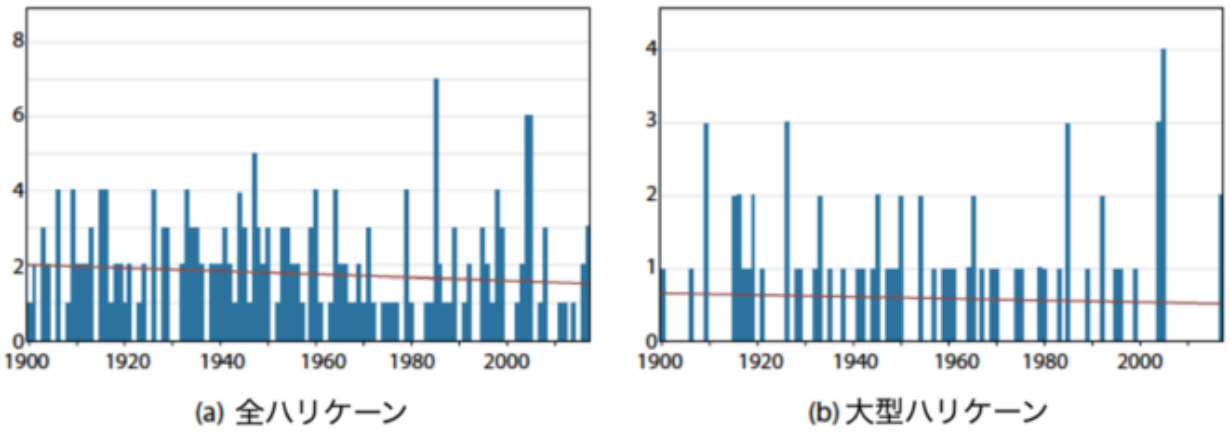


図 4: アメリカ本土上陸ハリケーン、1900-2017

赤線はこの期間のトレンド。ただしどちらも統計的に有意ではない。出所: Klotzbach *et al.* (2018)

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