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Supplement of

Do modelled or satellite-based estimates of surface solar irradiance accurately describe its temporal variability?

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List of Figures

S1	2Dhist KIV WRDC-ERA IMF1	3
S2	2Dhist KIV WRDC-ERA IMF2	4
S3	2Dhist KIV WRDC-ERA IMF3	5
S4	2Dhist KIV WRDC-ERA IMF4	6
S5	2Dhist KIV WRDC-ERA IMF5	7
S6	2Dhist KIV WRDC-ERA IMF7	8
S7	2Dhist KIV WRDC-ERA time-series	9
S8	2Dhist KIV WRDC-HC3v5 IMF1	10
S9	2Dhist KIV WRDC-HC3v5 IMF2	11
S10	2Dhist KIV WRDC-HC3v5 IMF3	12
S11	2Dhist KIV WRDC-HC3v5 IMF4	13
S12	2Dhist KIV WRDC-HC3v5 IMF5	14
S13	2Dhist KIV WRDC-HC3v5 IMF7	15
S14	2Dhist KIV WRDC-HC3v5 time-series	16
S15	2Dhist KIV WRDC-MERRA2 IMF1	17
S16	2Dhist KIV WRDC-MERRA2 IMF2	18
S17	2Dhist KIV WRDC-MERRA2 IMF3	19
S18	2Dhist KIV WRDC-MERRA2 IMF4	20
S19	2Dhist KIV WRDC-MERRA2 IMF5	21
S20	2Dhist KIV WRDC-MERRA2 IMF7	22
S21	2Dhist KIV WRDC-MERRA2 time-series	23
S22	2Dhist VIE WRDC-ERA IMF1	24
S23	2Dhist VIE WRDC-ERA IMF2	25
S24	2Dhist VIE WRDC-ERA IMF3	26
S25	2Dhist VIE WRDC-ERA IMF4	27
S26	2Dhist VIE WRDC-ERA IMF5	28
S27	2Dhist VIE WRDC-ERA IMF7	29
S28	2Dhist VIE WRDC-ERA time-series	30
S29	2Dhist VIE WRDC-HC3v5 IMF1	31
S30	2Dhist VIE WRDC-HC3v5 IMF2	32
S31	2Dhist VIE WRDC-HC3v5 IMF3	33
S32	2Dhist VIE WRDC-HC3v5 IMF4	34
S33	2Dhist VIE WRDC-HC3v5 IMF5	35
S34	2Dhist VIE WRDC-HC3v5 IMF7	36
S35	2Dhist VIE WRDC-HC3v5 time-series	37
S36	2Dhist VIE WRDC-MERRA2 IMF1	38
S37	2Dhist VIE WRDC-MERRA2 IMF2	39
S38	2Dhist VIE WRDC-MERRA2 IMF3	40
S39	2Dhist VIE WRDC-MERRA2 IMF4	41
S40	2Dhist VIE WRDC-MERRA2 IMF5	42
S41	2Dhist VIE WRDC-MERRA2 IMF7	43
S42	2Dhist VIE WRDC-MERRA2 time-series	44
S43	HMS KIV WRDC TOA McClear MERRA2 HC3v5 ERA	45
S44	HMS VIE WRDC TOA McClear MERRA2 HC3v5 ERA	46
S45	HSA KIV ERA	47
S46	HSA KIV HC3v5	48
S47	HSA KIV McClear	49

S48	HSA KIV MERRA2	50
S49	HSA KIV TOA	51
S50	HSA KIV WRDC	52
S51	HSA VIE ERA	53
S52	HSA VIE HC3v5	54
S53	HSA VIE McClear	55
S54	HSA VIE MERRA2	56
S55	HSA VIE TOA	57
S56	HSA VIE WRDC	58
S57	IMFs KIV ERA	59
S58	IMFs KIV HC3v5	60
S59	IMFs KIV McClear	61
S60	IMFs KIV MERRA2	62
S61	IMFs KIV TOA	63
S62	IMFs KIV WRDC	64
S63	IMFs VIE ERA	65
S64	IMFs VIE HC3v5	66
S65	IMFs VIE McClear	67
S66	IMFs VIE MERRA2	68
S67	IMFs VIE TOA	69
S68	IMFs VIE WRDC	70
S69	KIV raw data	71
S70	VIE raw data	72

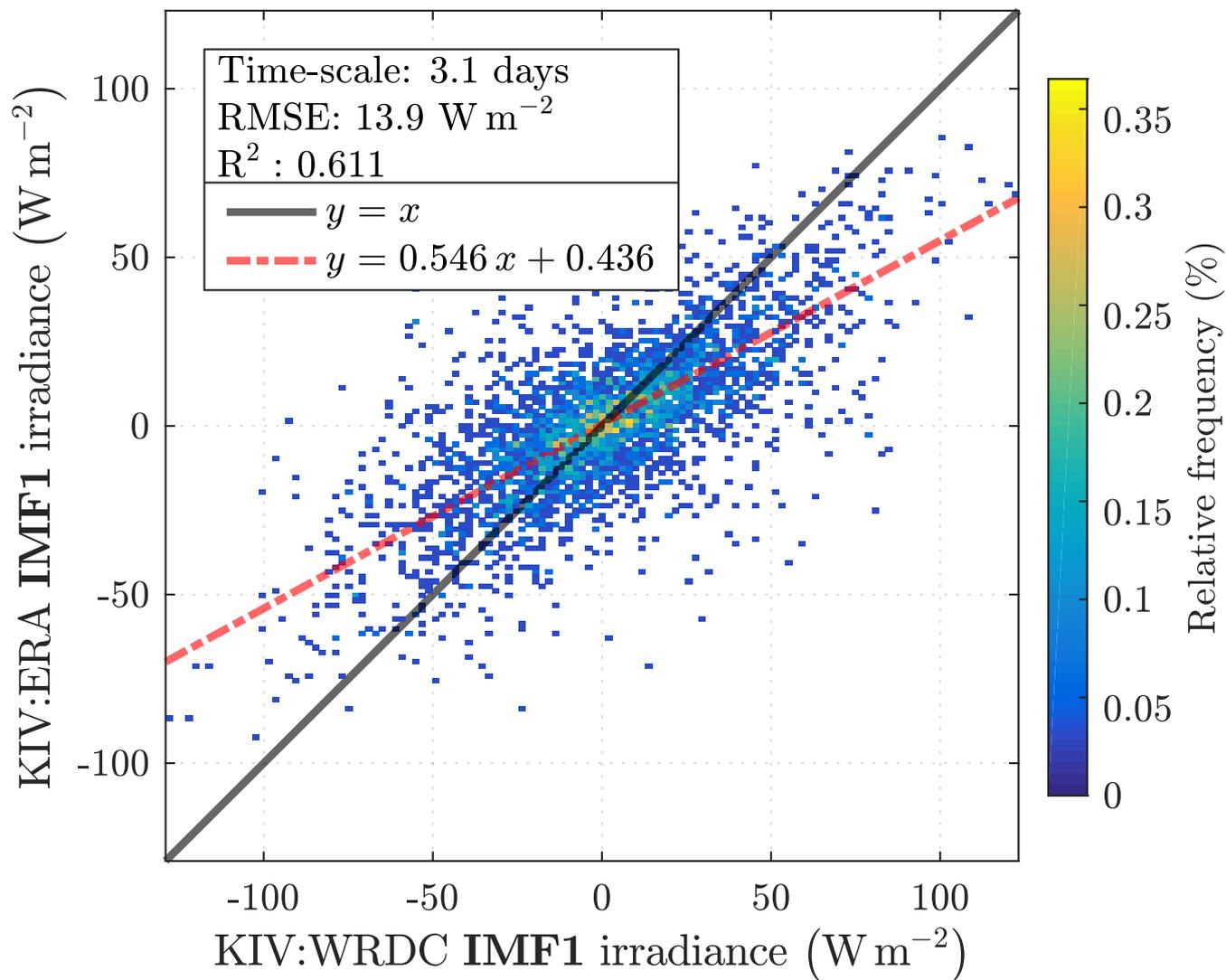


Figure S1. 2Dhist KIV WRDC-ERA IMF1

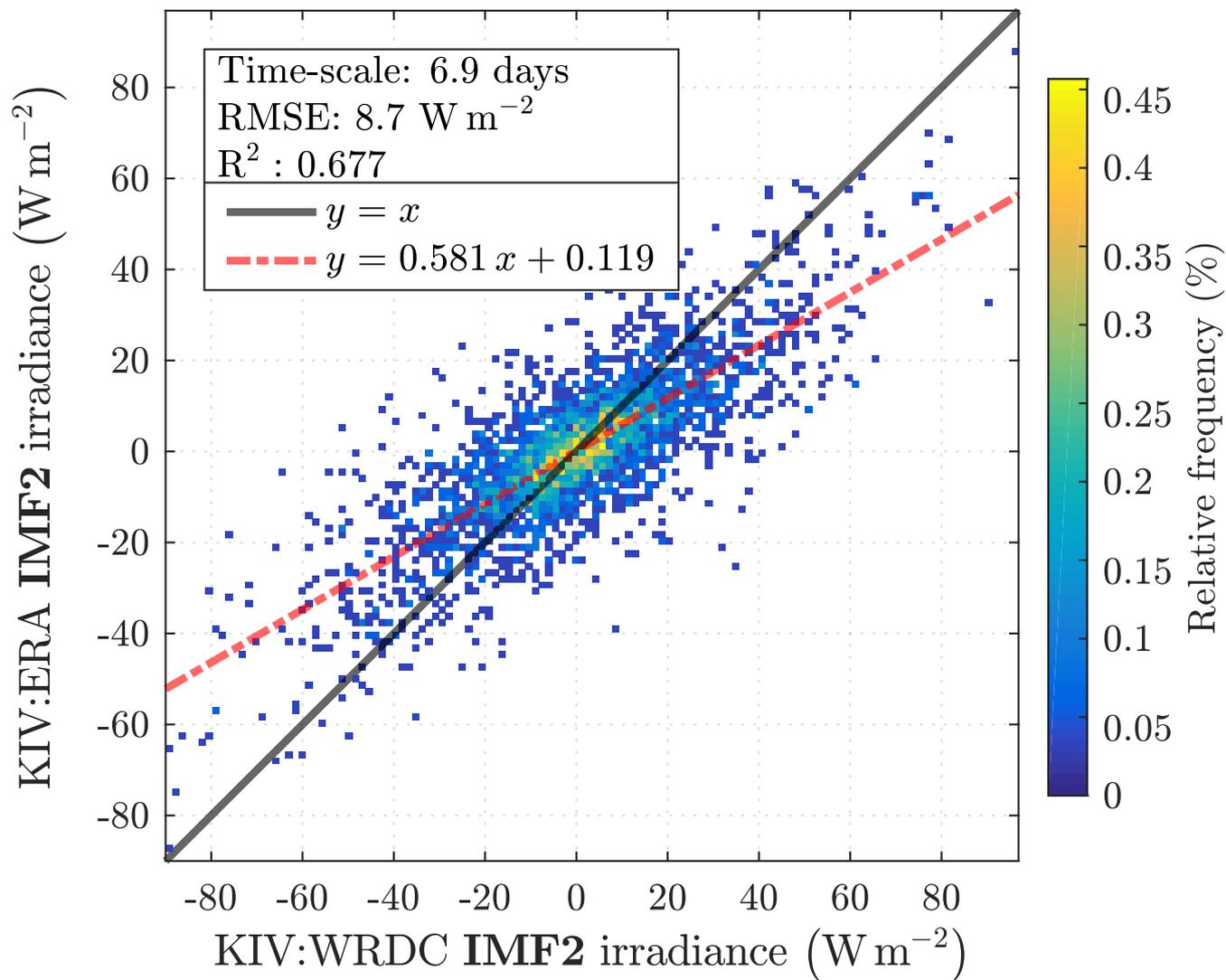


Figure S2. 2Dhist KIV WRDC-ERA IMF2

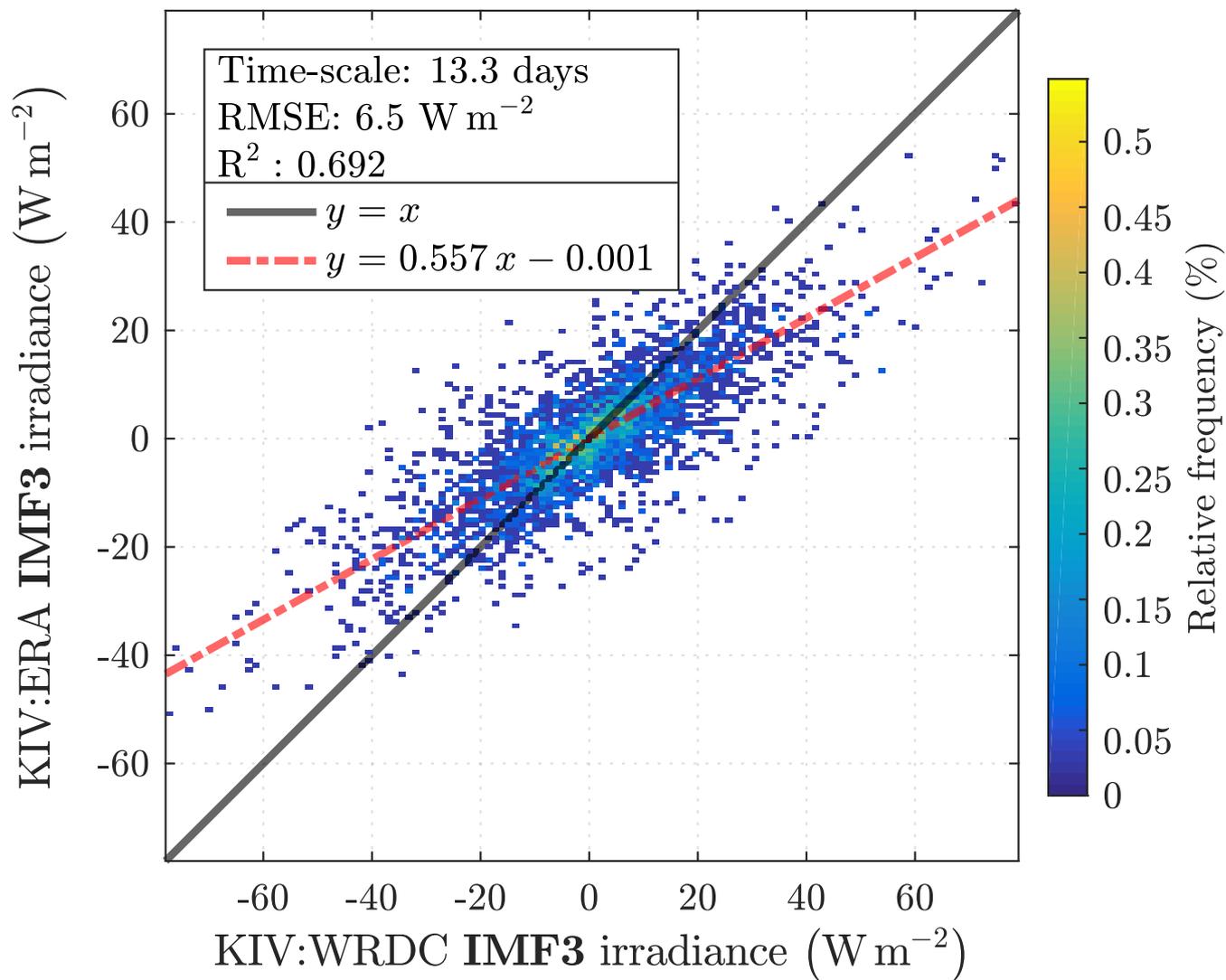


Figure S3. 2Dhist KIV WRDC-ERA IMF3

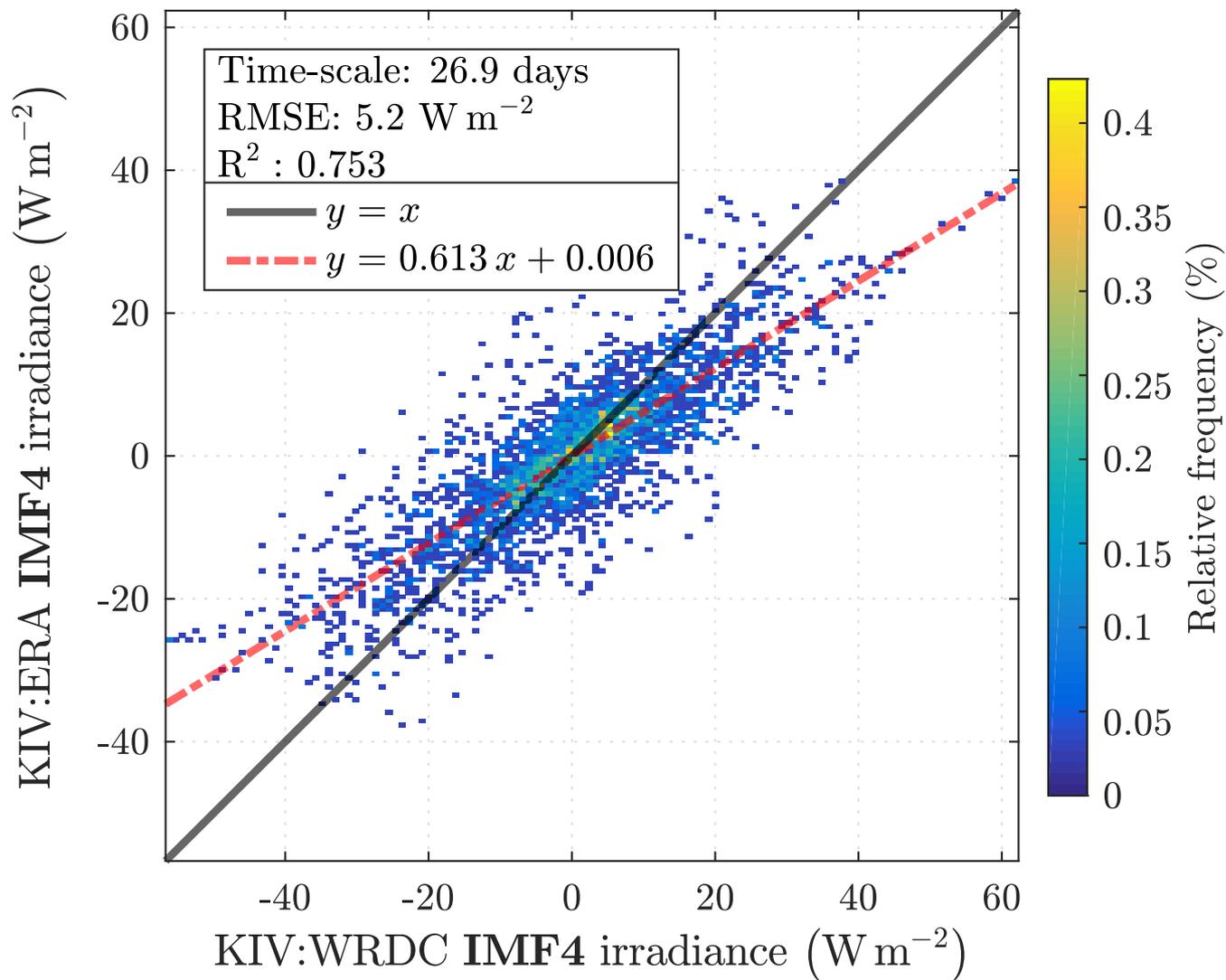


Figure S4. 2Dhist KIV WRDC-ERA IMF4

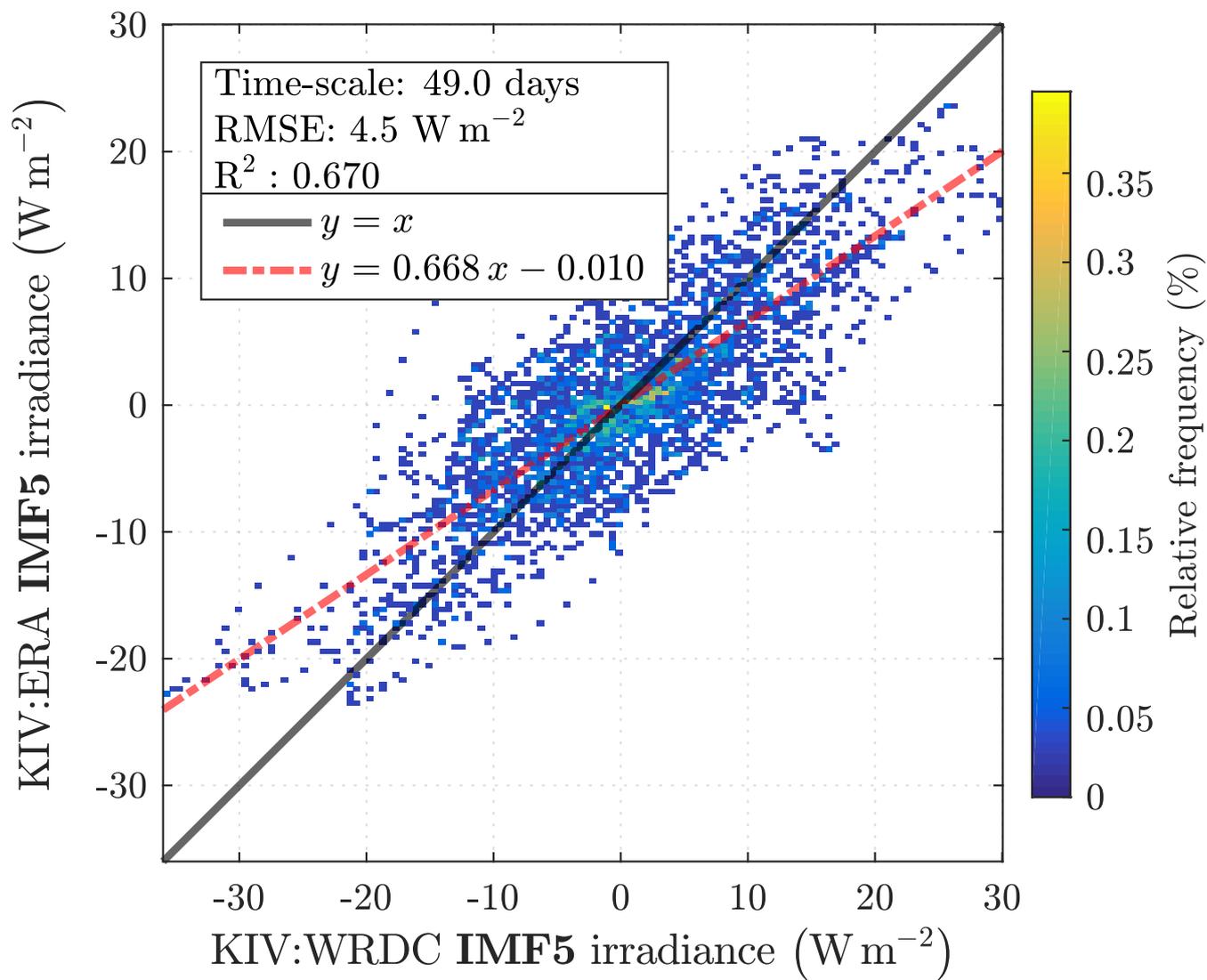


Figure S5. 2Dhist KIV WRDC-ERA IMF5

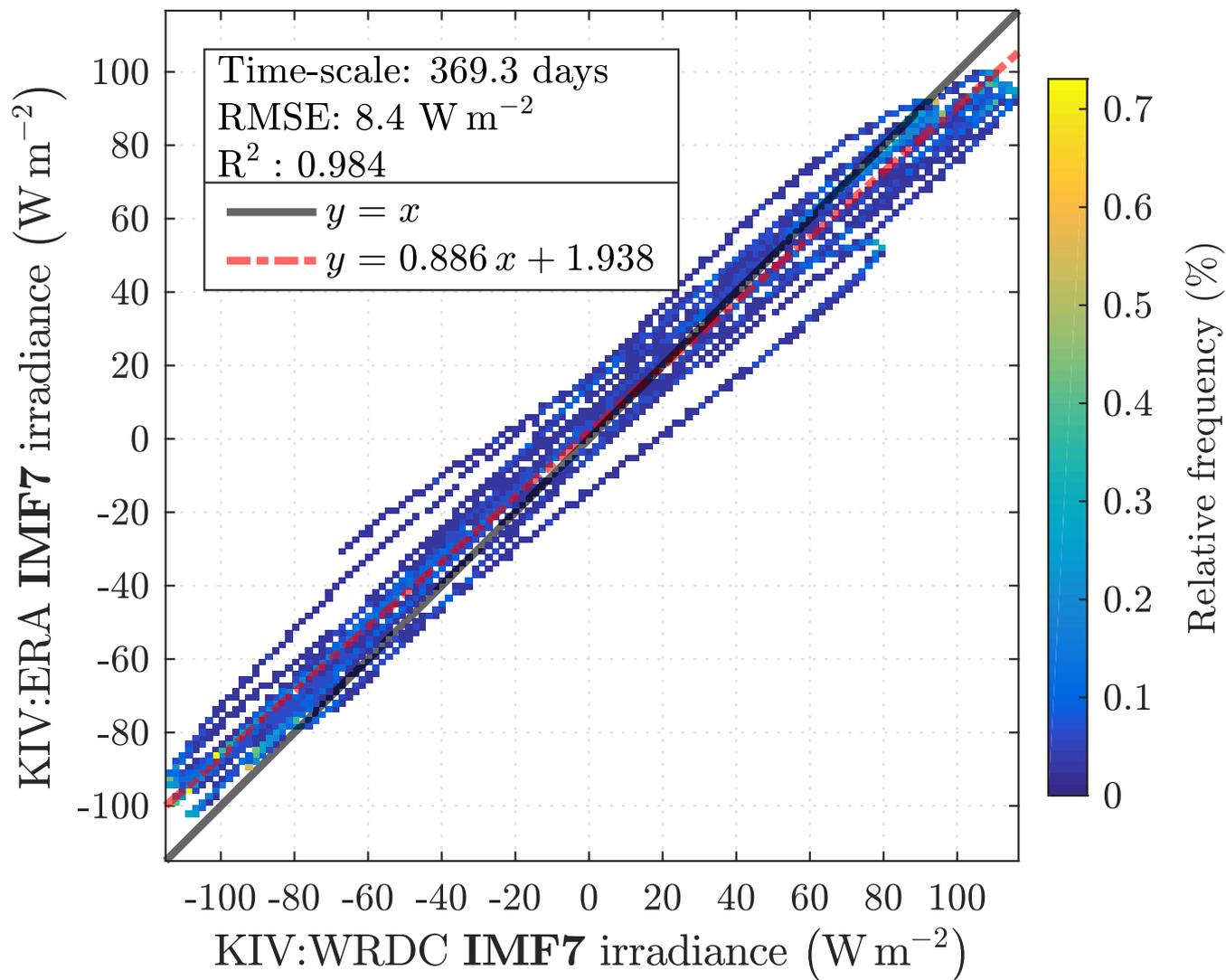


Figure S6. 2Dhist KIV WRDC-ERA IMF7

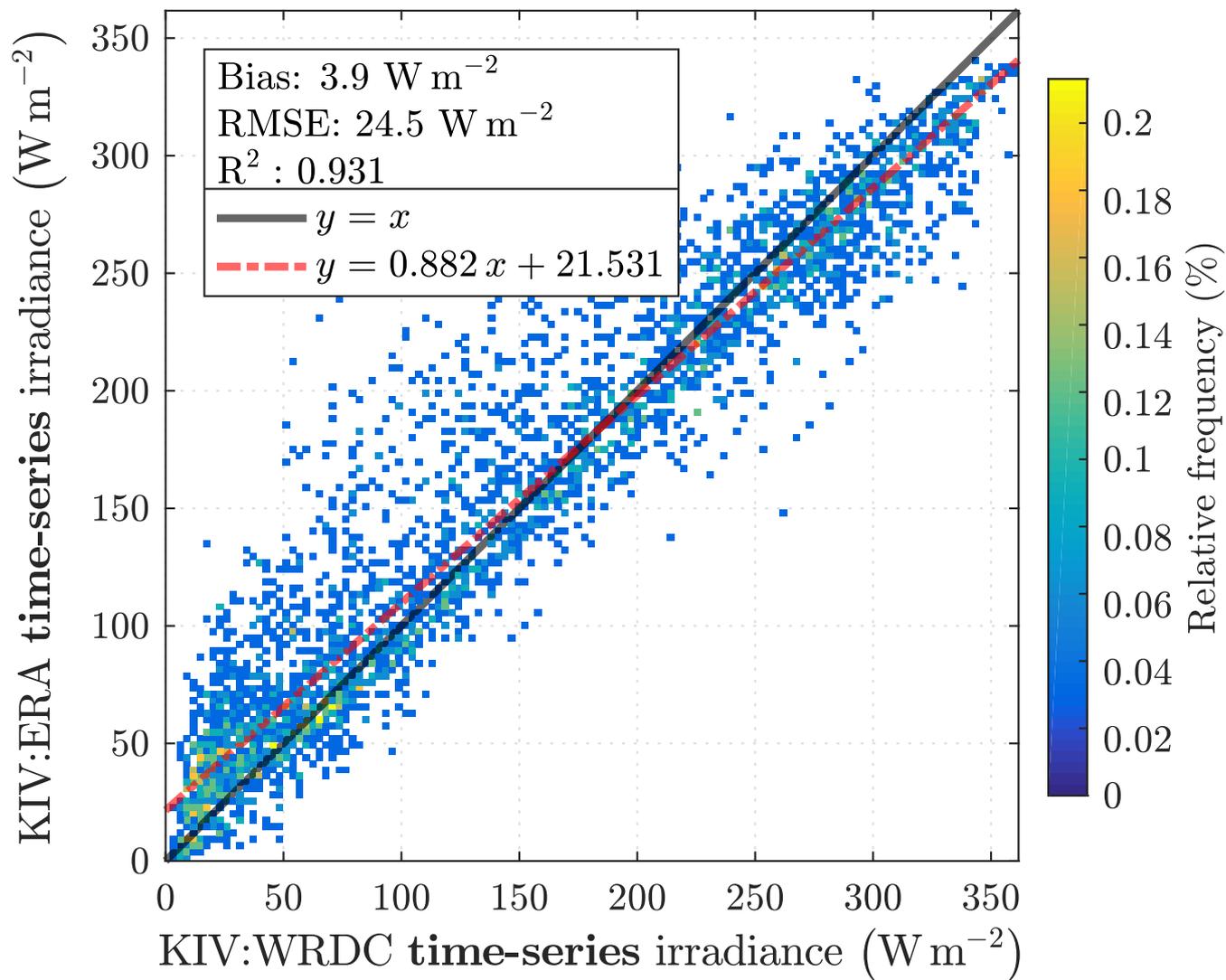


Figure S7. 2Dhist KIV WRDC-ERA time-series

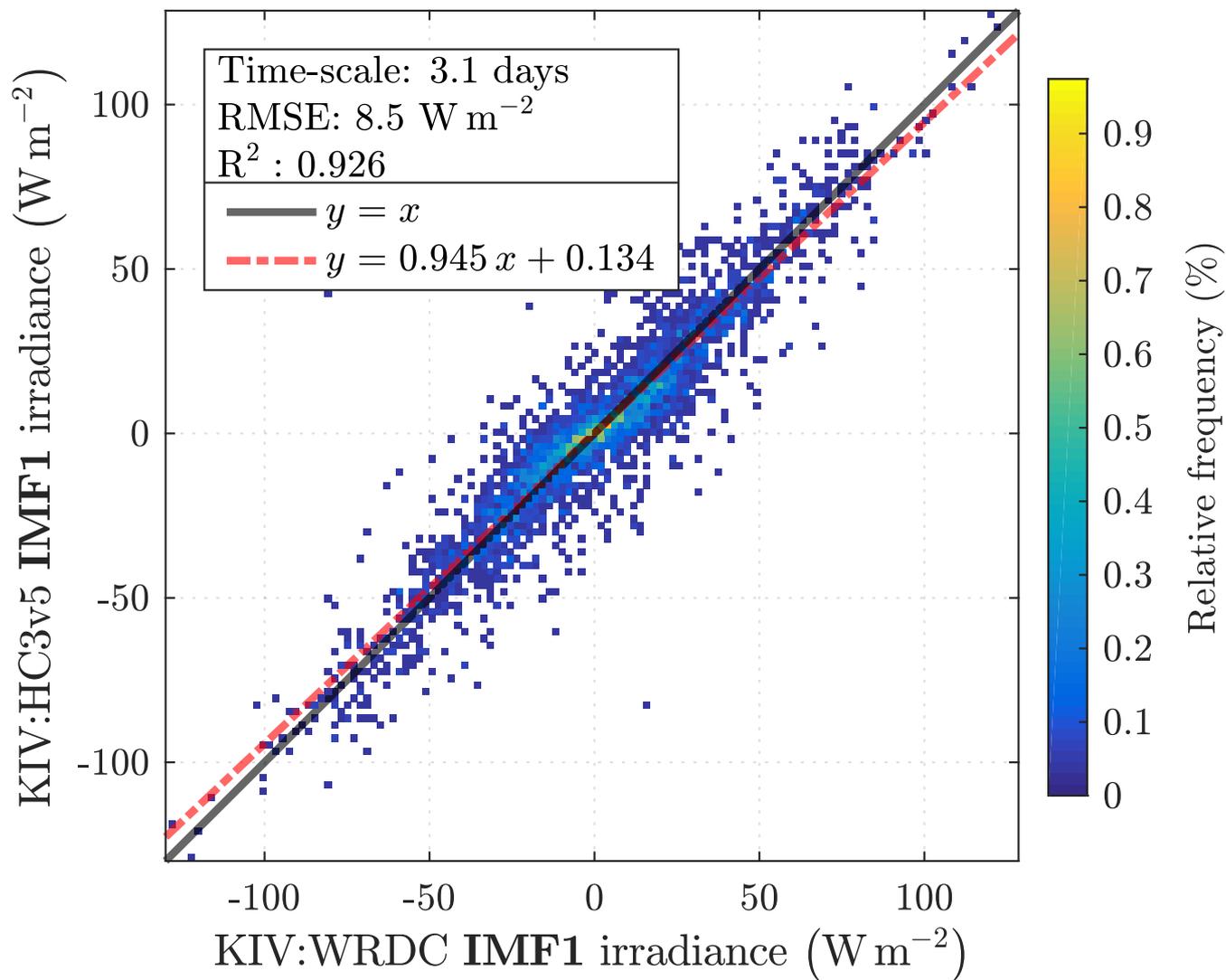


Figure S8. 2Dhist KIV WRDC-HC3v5 IMF1

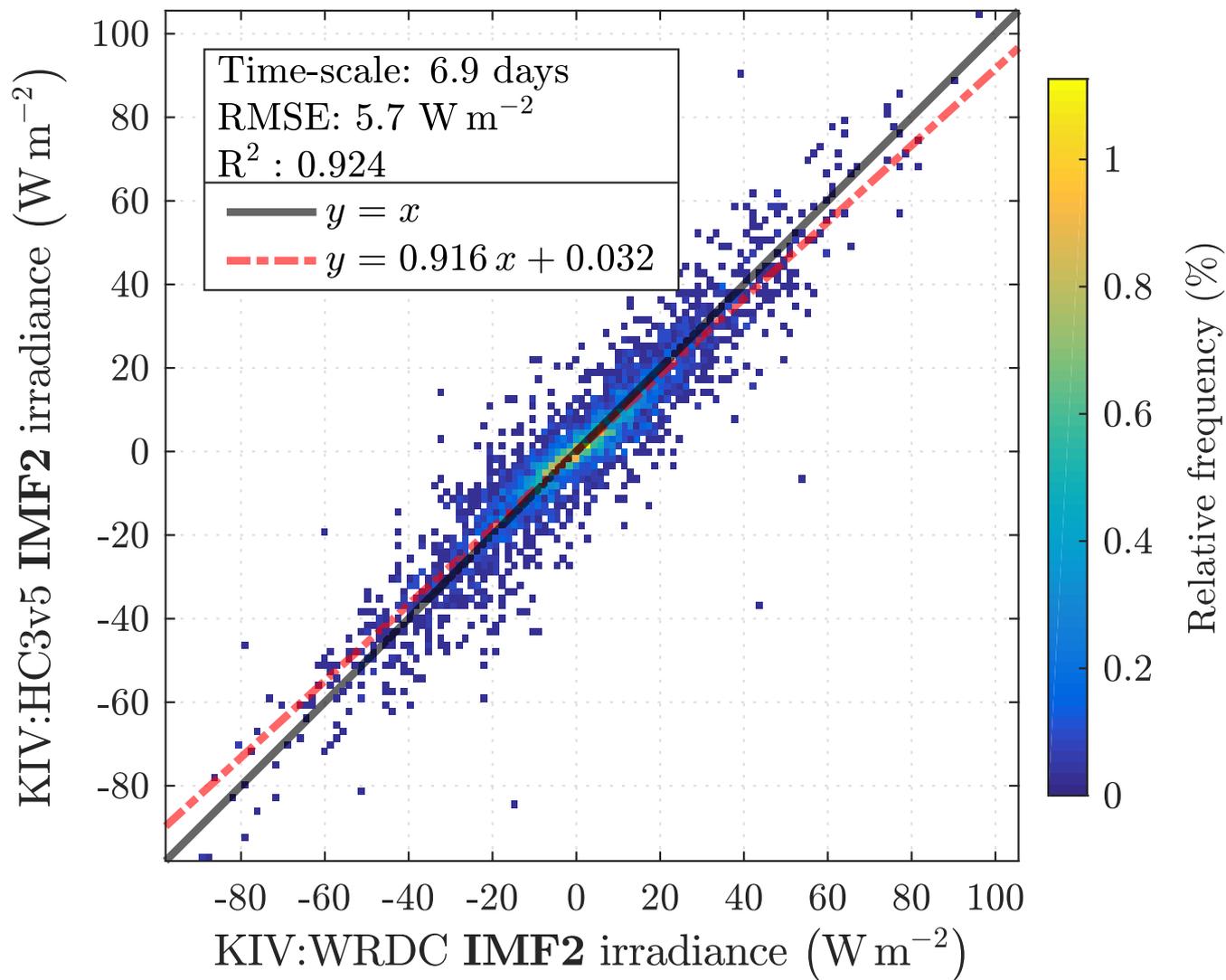


Figure S9. 2Dhist KIV WRDC-HC3v5 IMF2

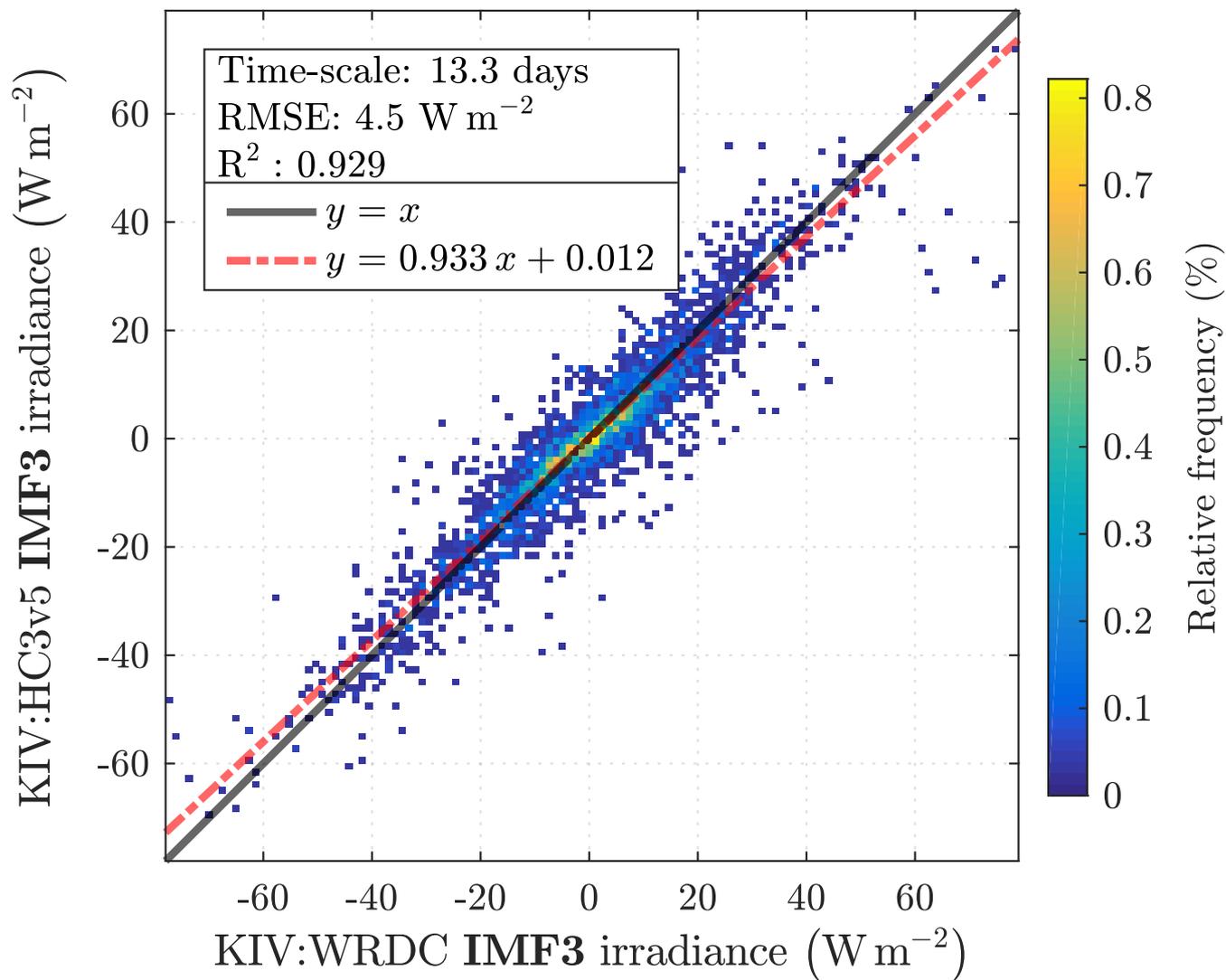


Figure S10. 2Dhist KIV WRDC-HC3v5 IMF3

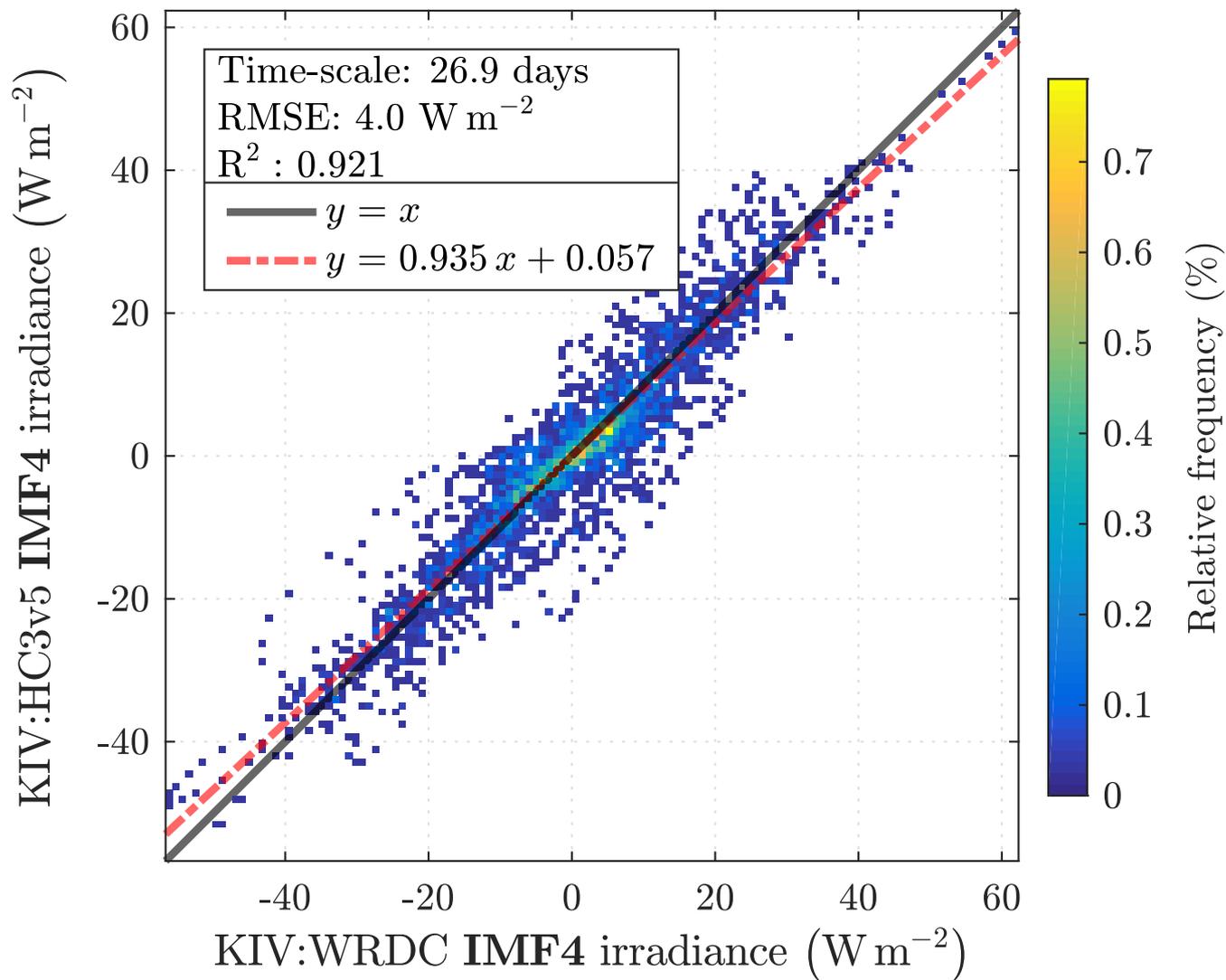


Figure S11. 2Dhist KIV WRDC-HC3v5 IMF4

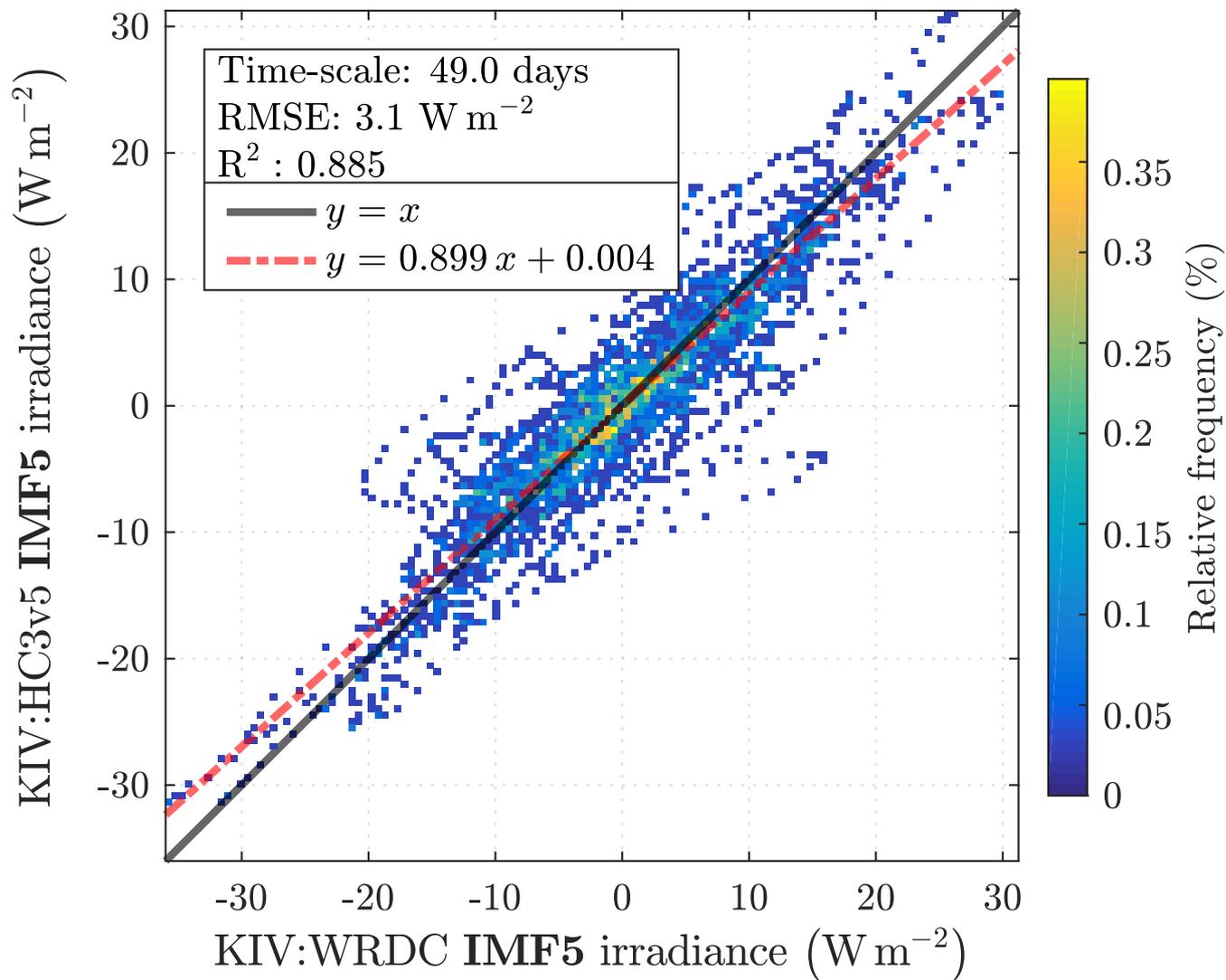


Figure S12. 2Dhist KIV WRDC-HC3v5 IMF5

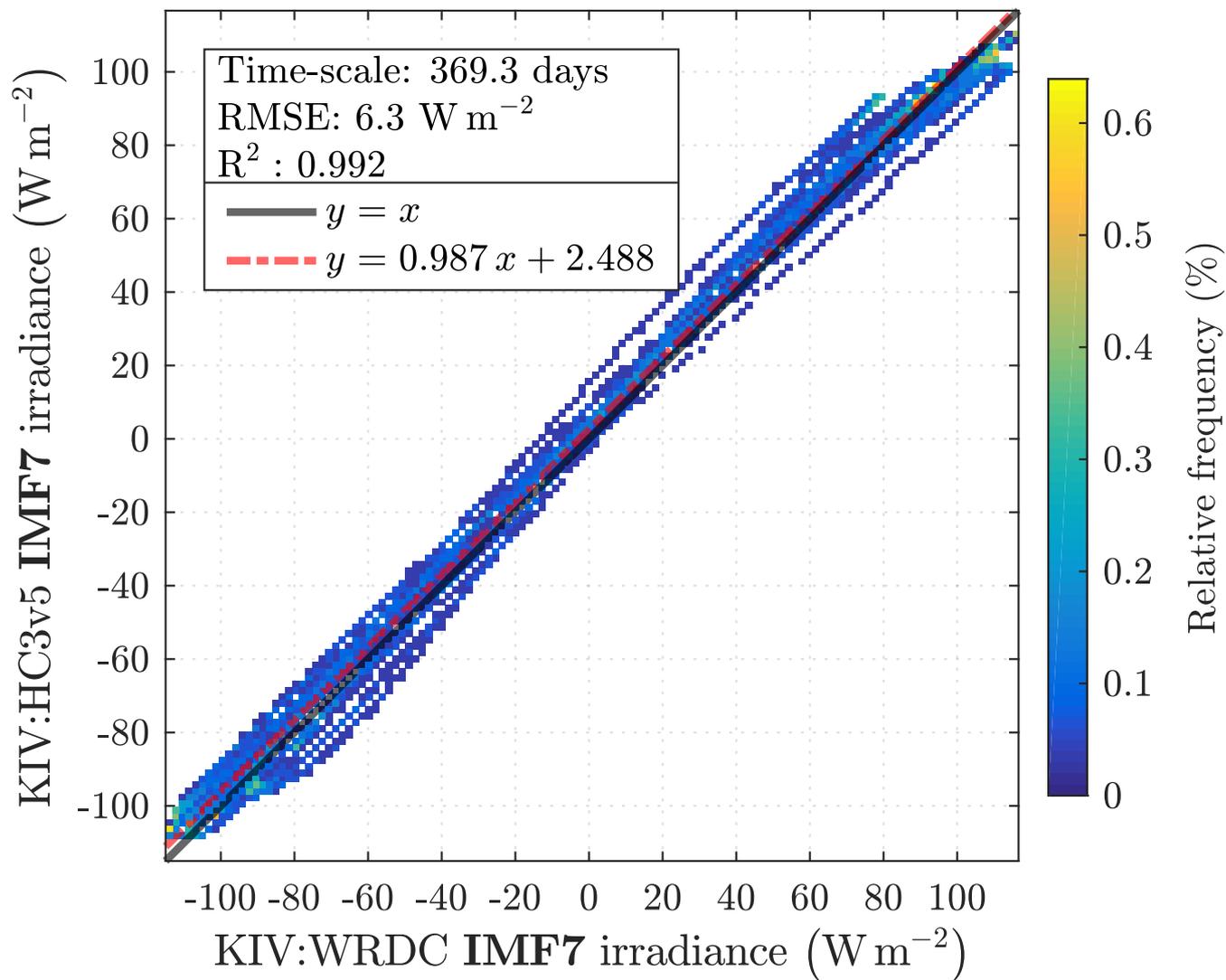


Figure S13. 2Dhist KIV WRDC-HC3v5 IMF7

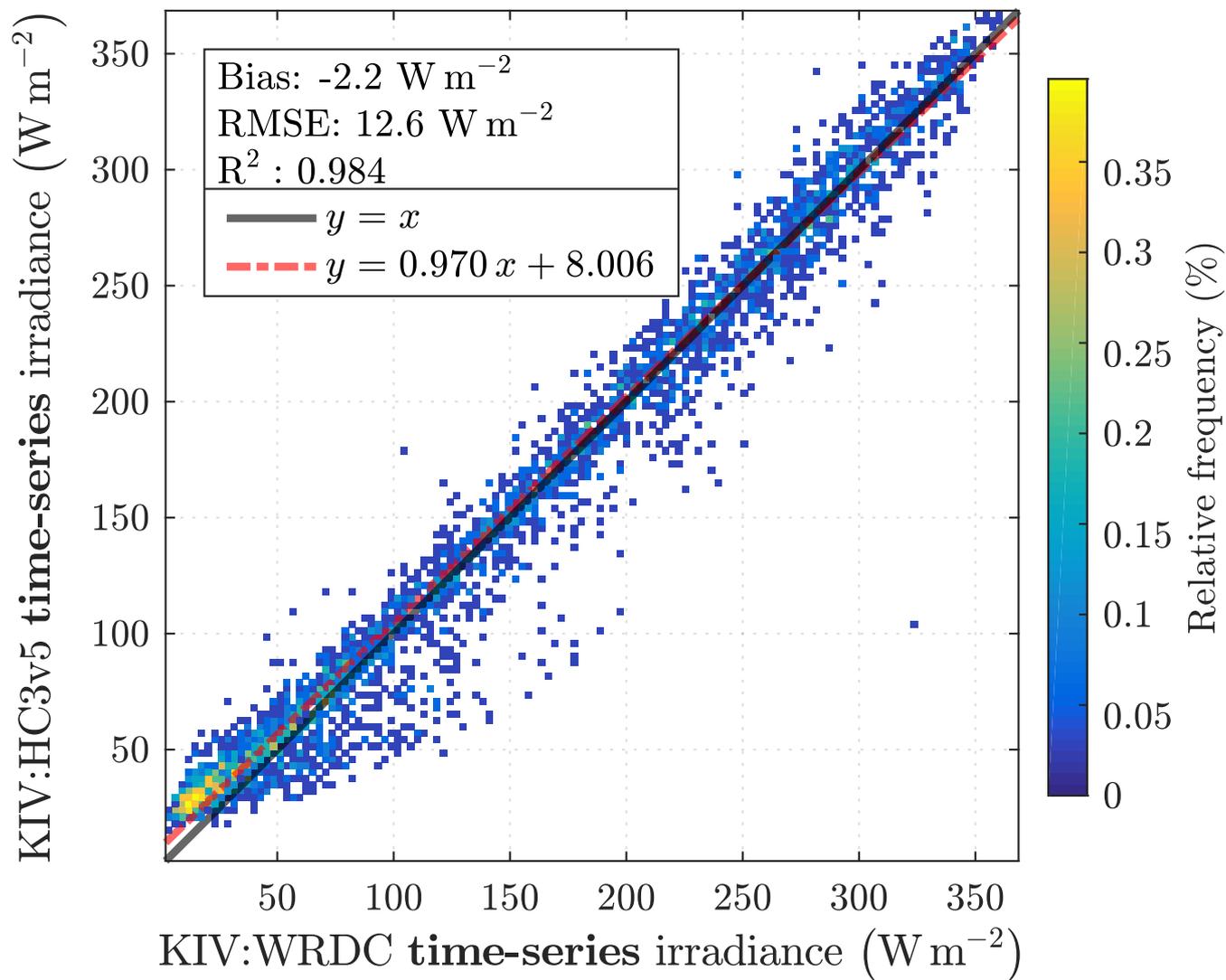


Figure S14. 2Dhist KIV WRDC-HC3v5 time-series

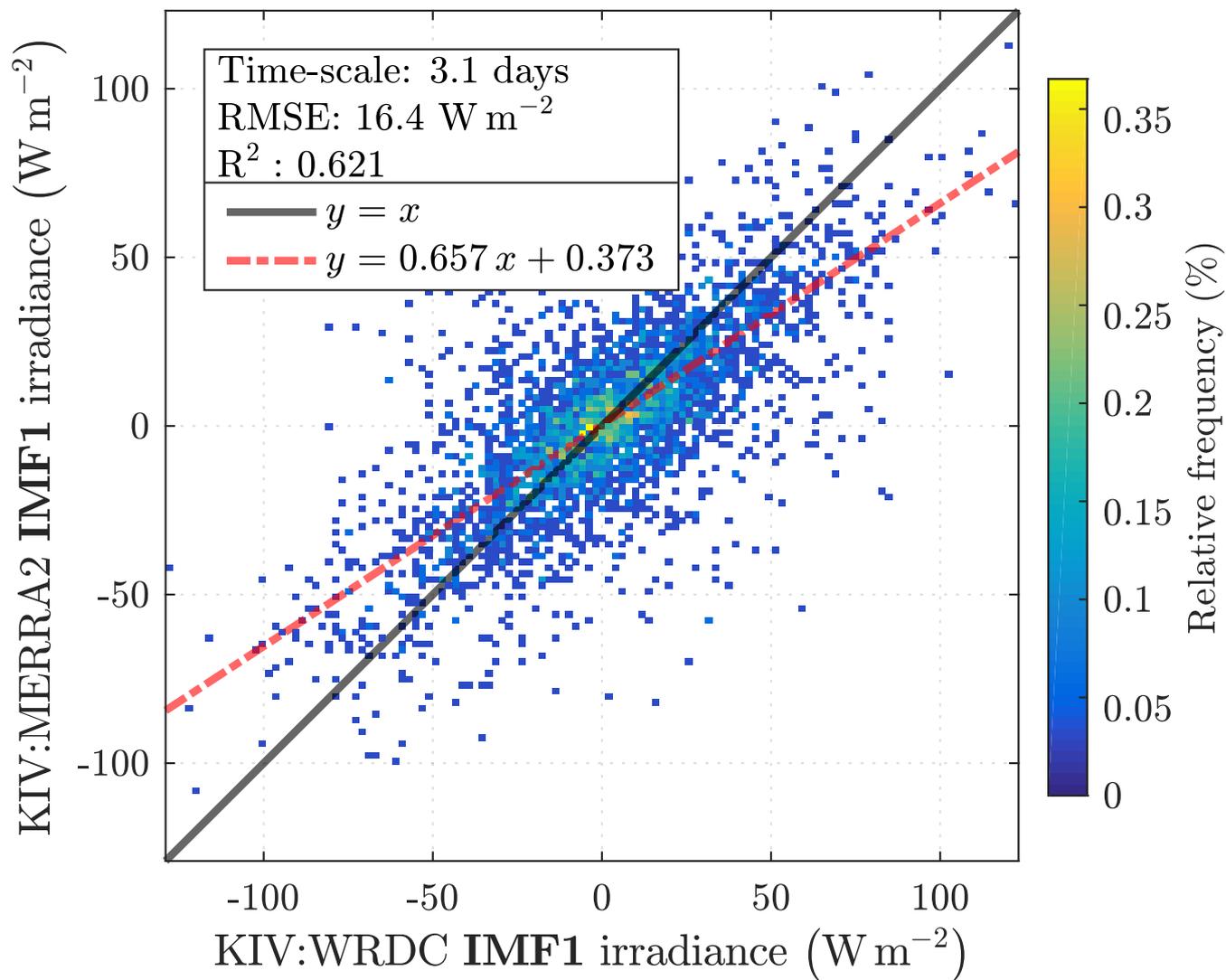


Figure S15. 2Dhist KIV WRDC-MERRA2 IMF1

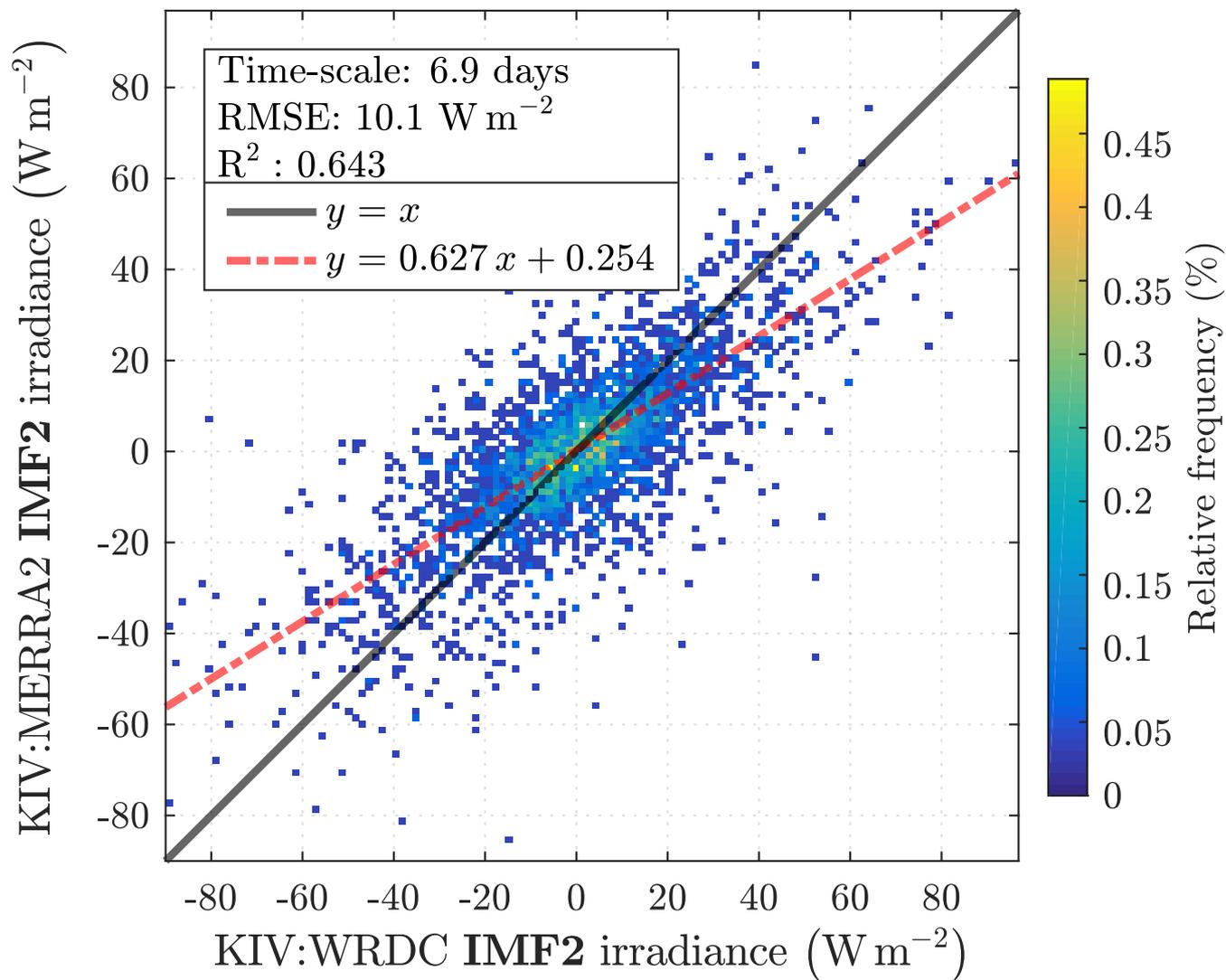


Figure S16. 2Dhist KIV WRDC-MERRA2 IMF2

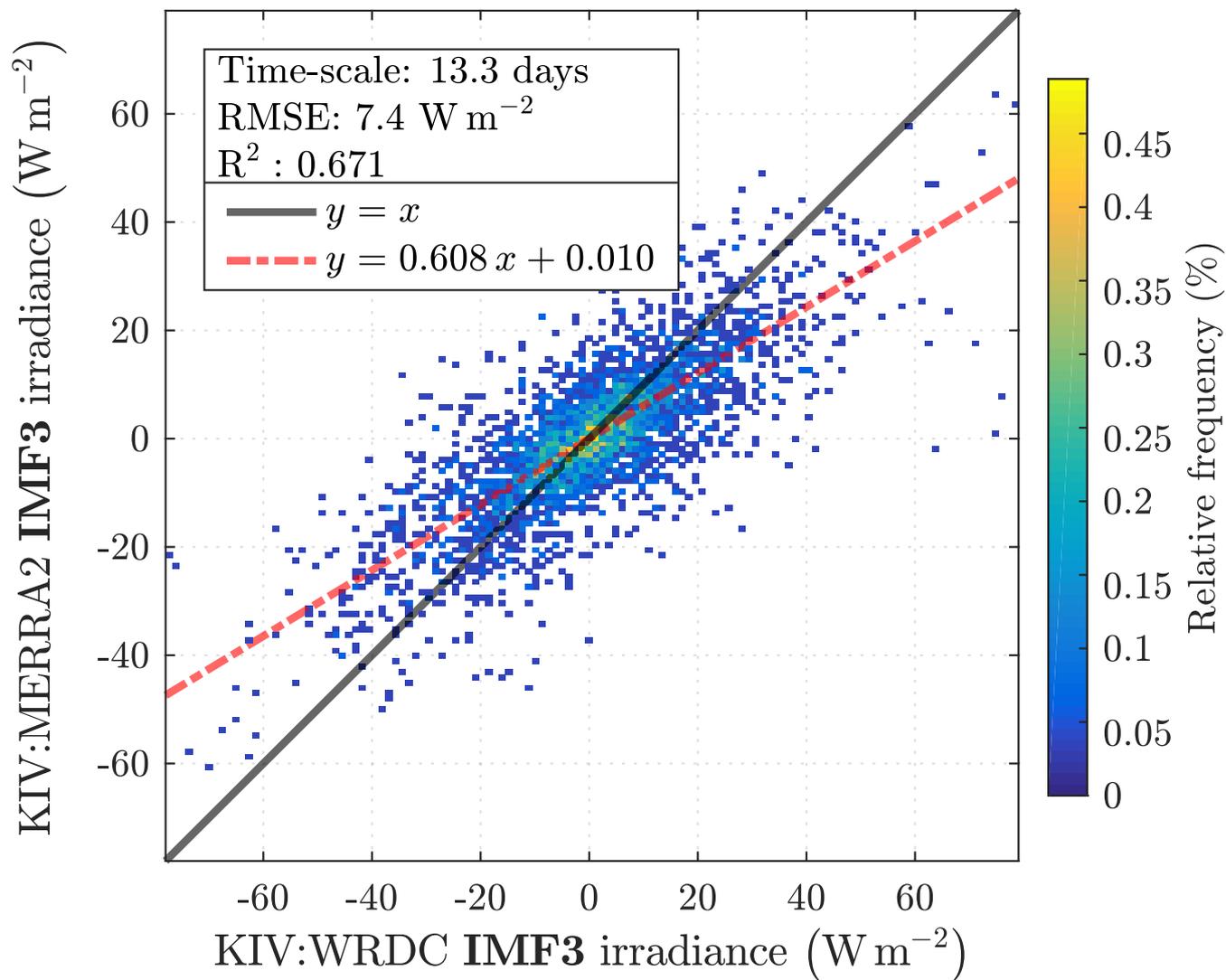


Figure S17. 2Dhist KIV WRDC-MERRA2 IMF3

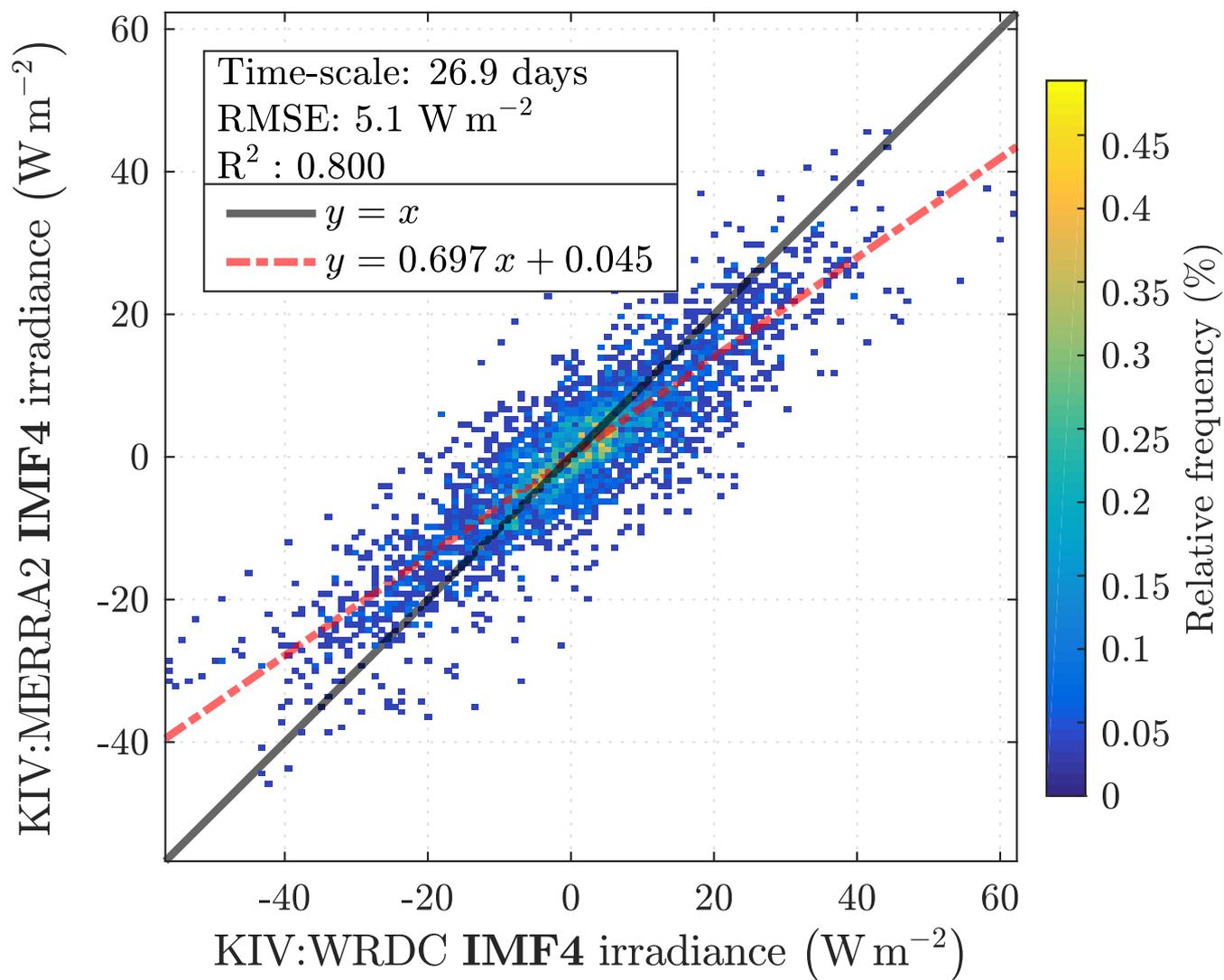


Figure S18. 2Dhist KIV WRDC-MERRA2 IMF4

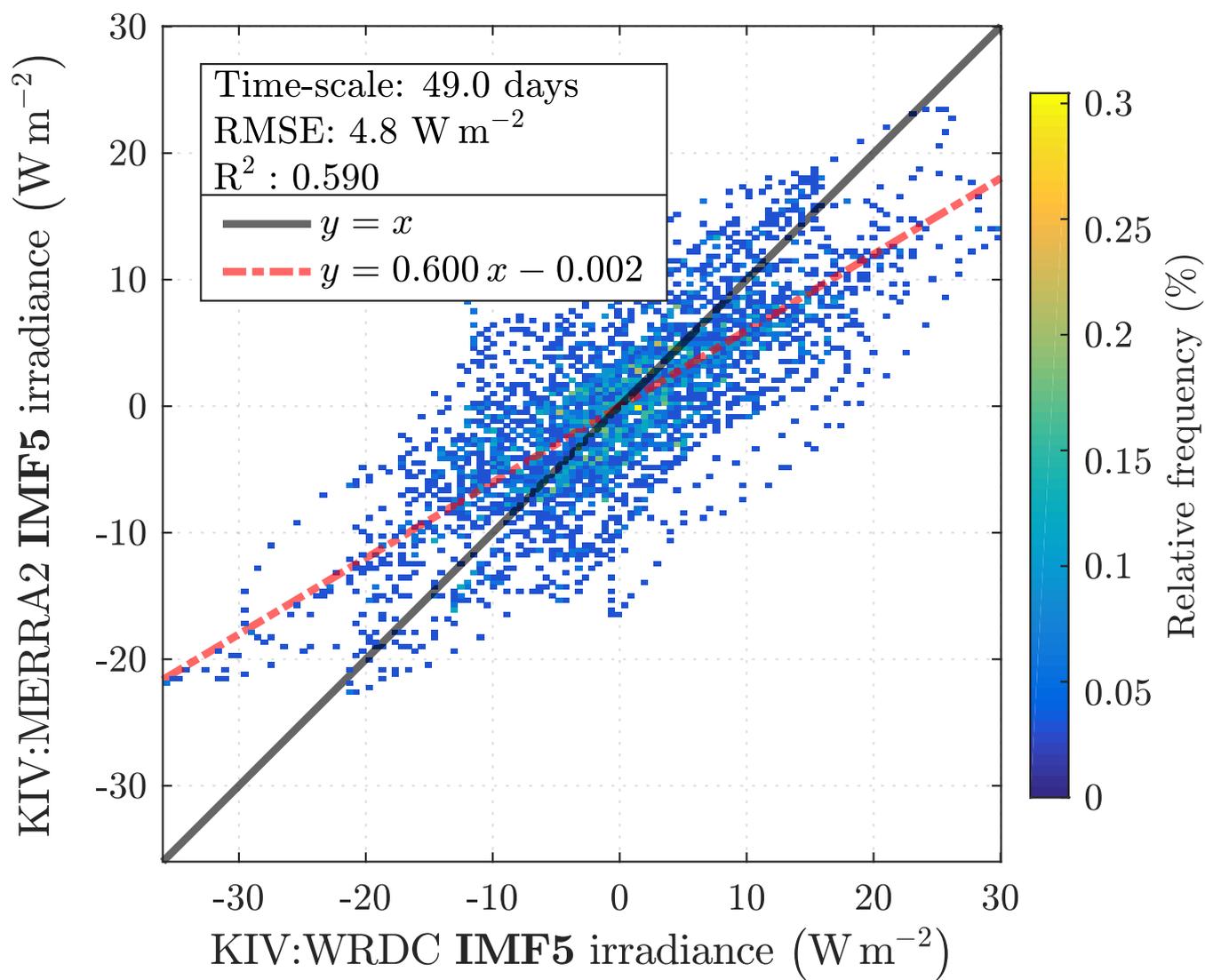


Figure S19. 2Dhist KIV WRDC-MERRA2 IMF5

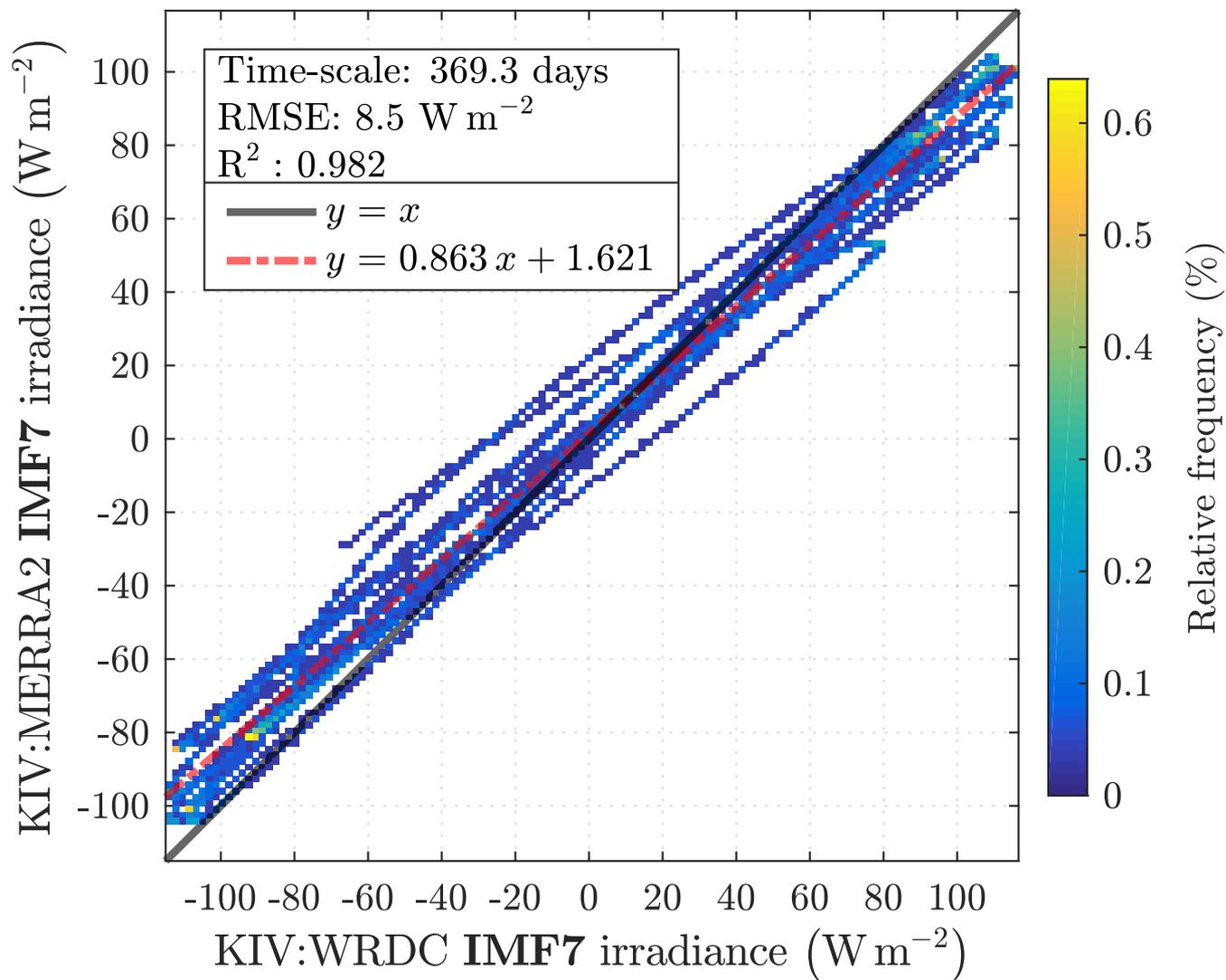


Figure S20. 2Dhist KIV WRDC-MERRA2 IMF7

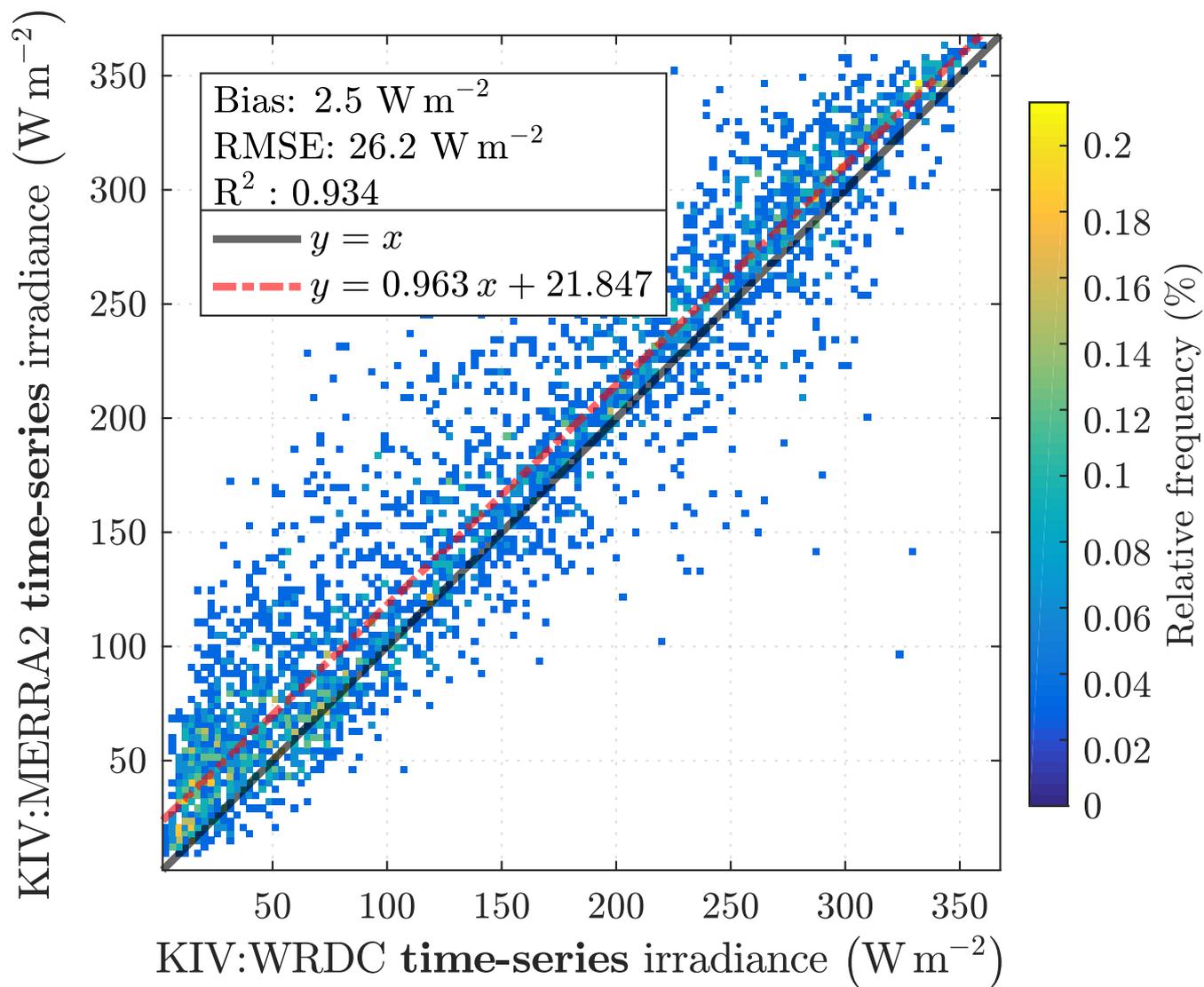


Figure S21. 2Dhist KIV WRDC-MERRA2 time-series

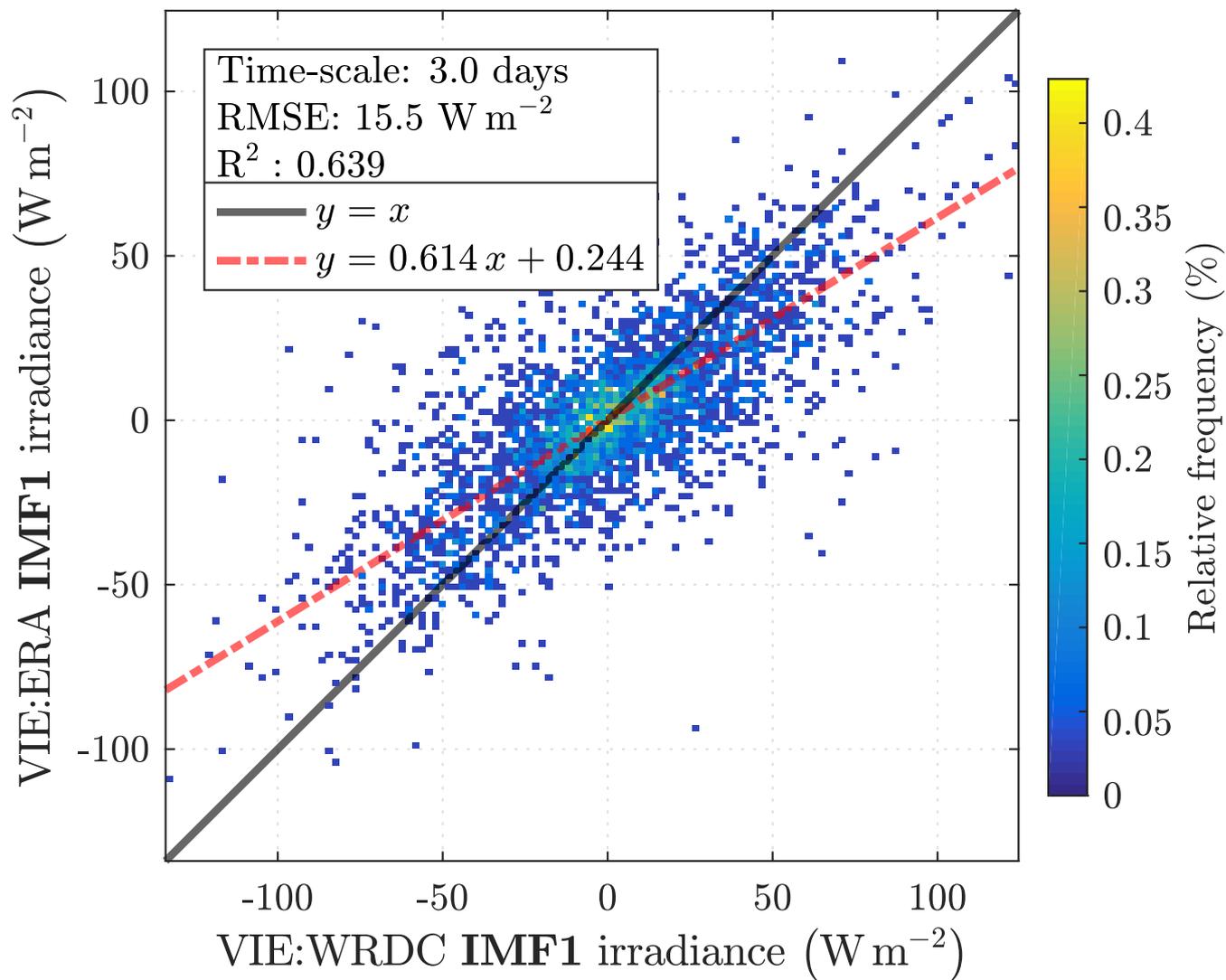


Figure S22. 2Dhist VIE WRDC-ERA IMF1

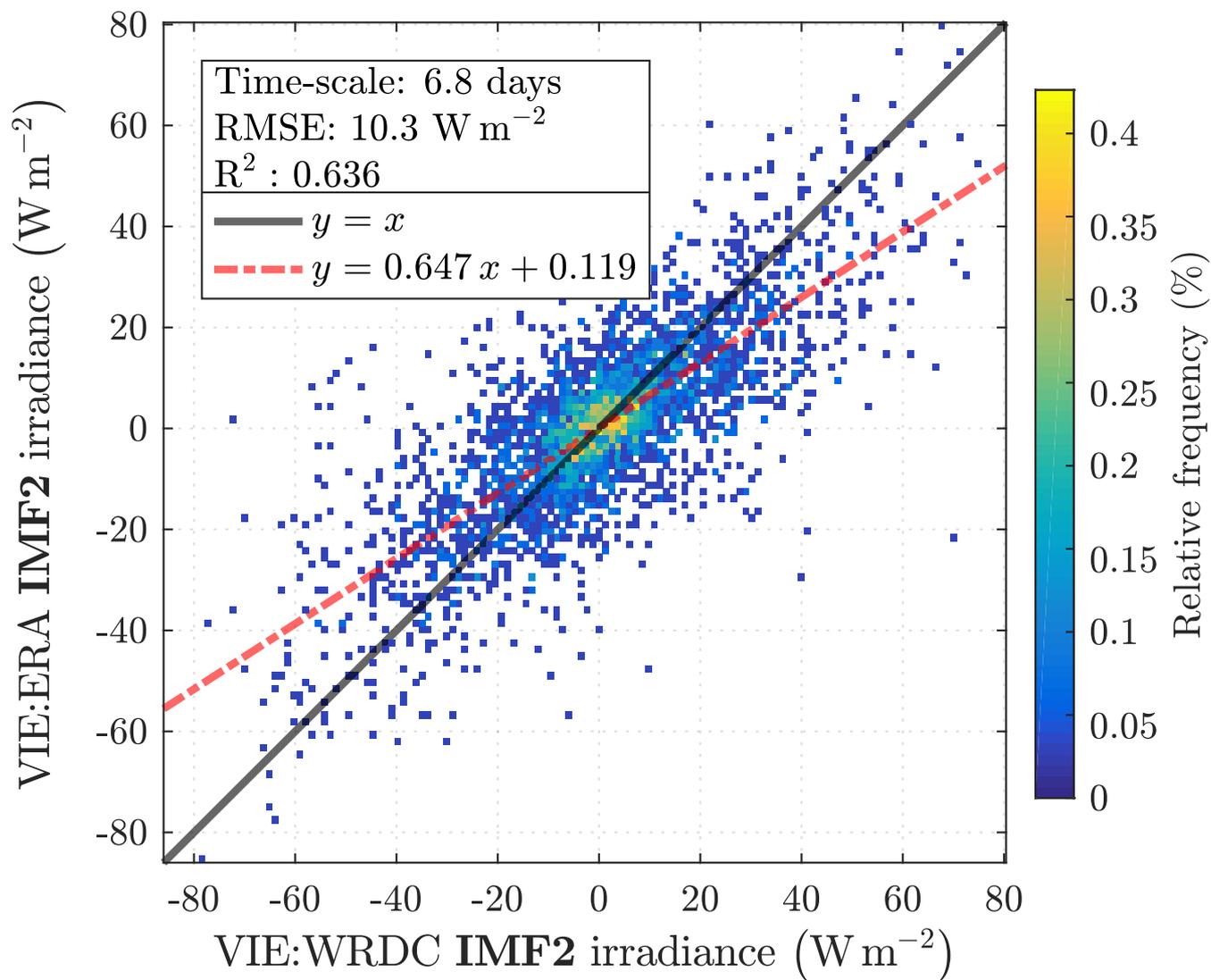


Figure S23. 2Dhist VIE WRDC-ERA IMF2

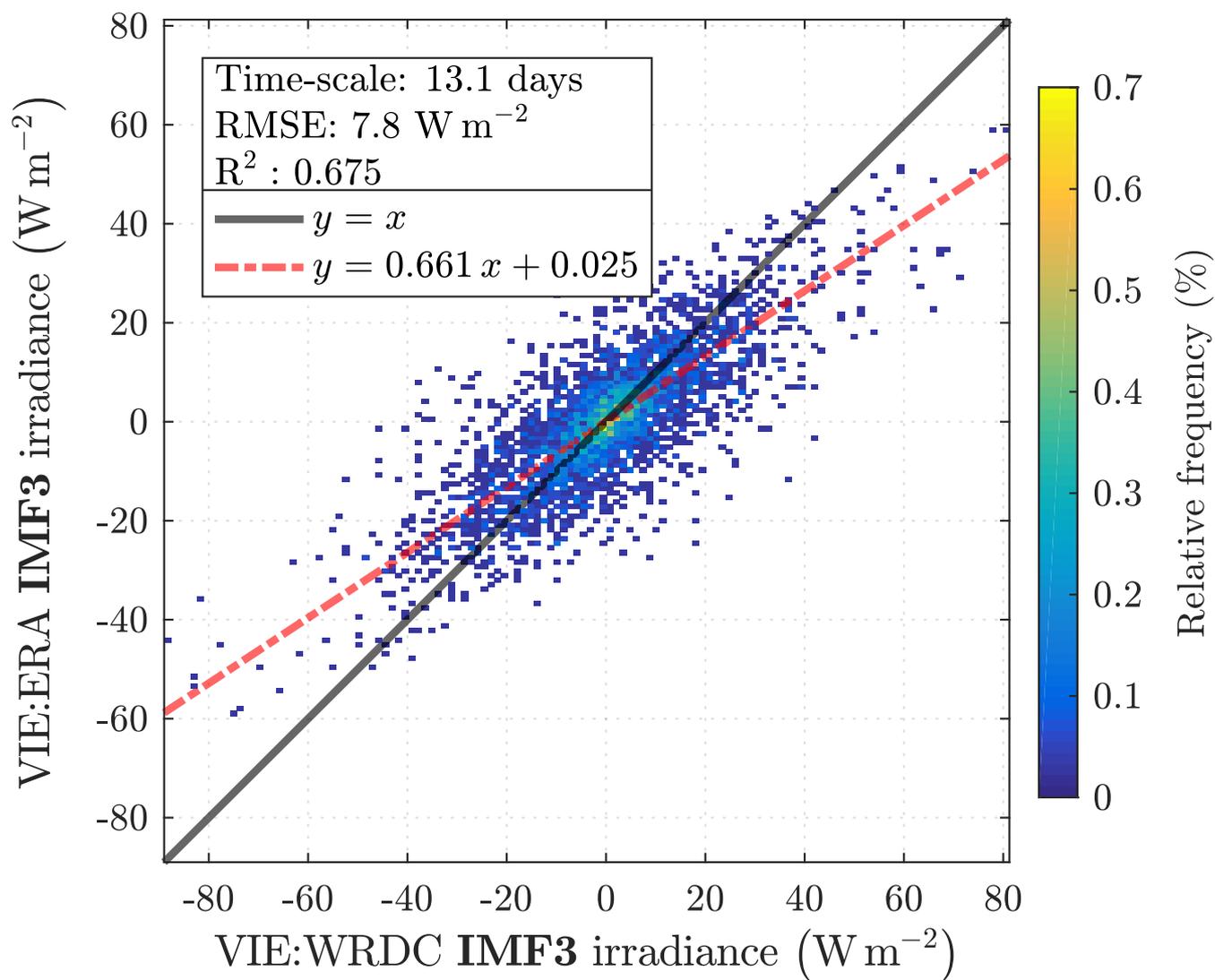


Figure S24. 2Dhist VIE WRDC-ERA IMF3

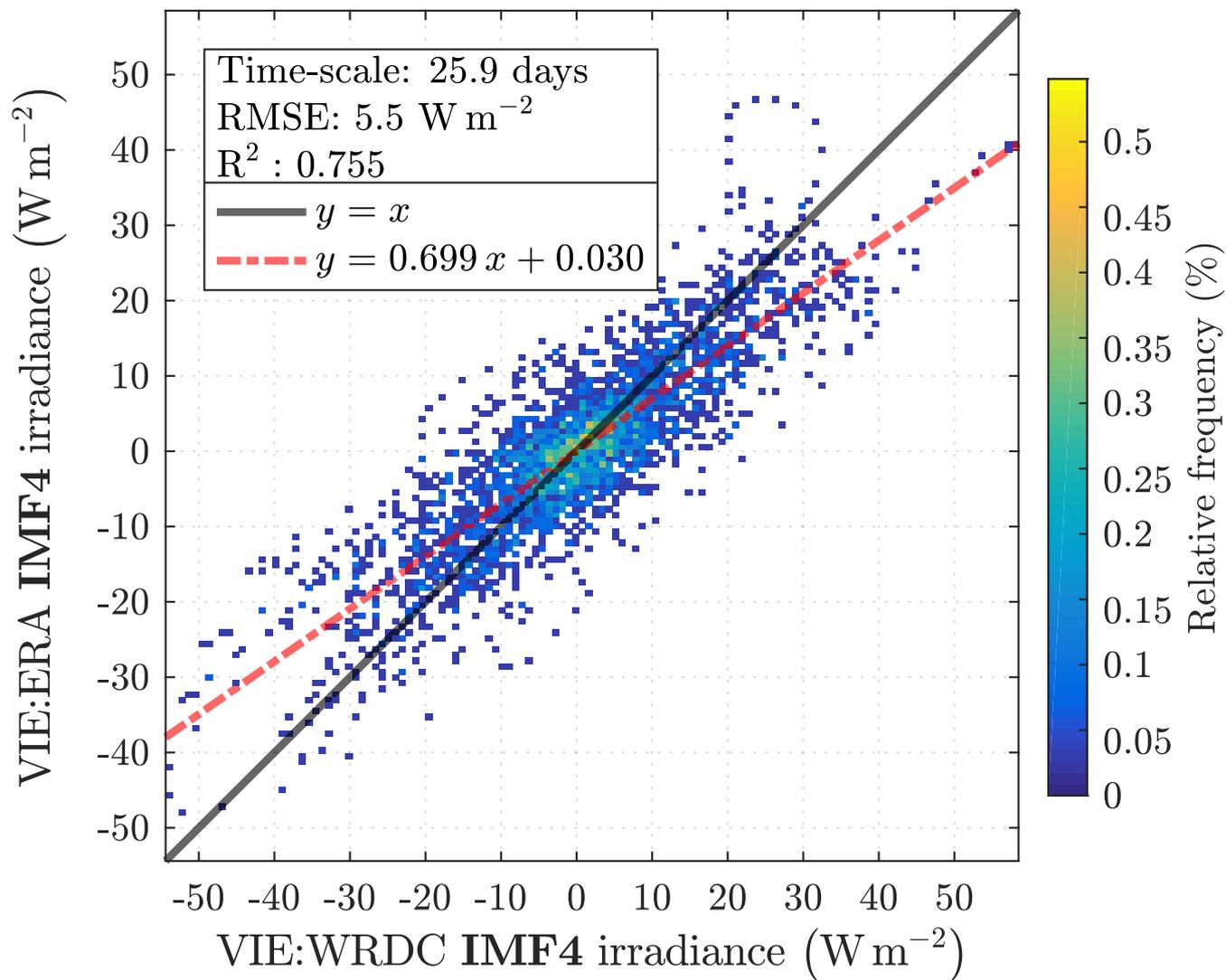


Figure S25. 2Dhist VIE WRDC-ERA IMF4

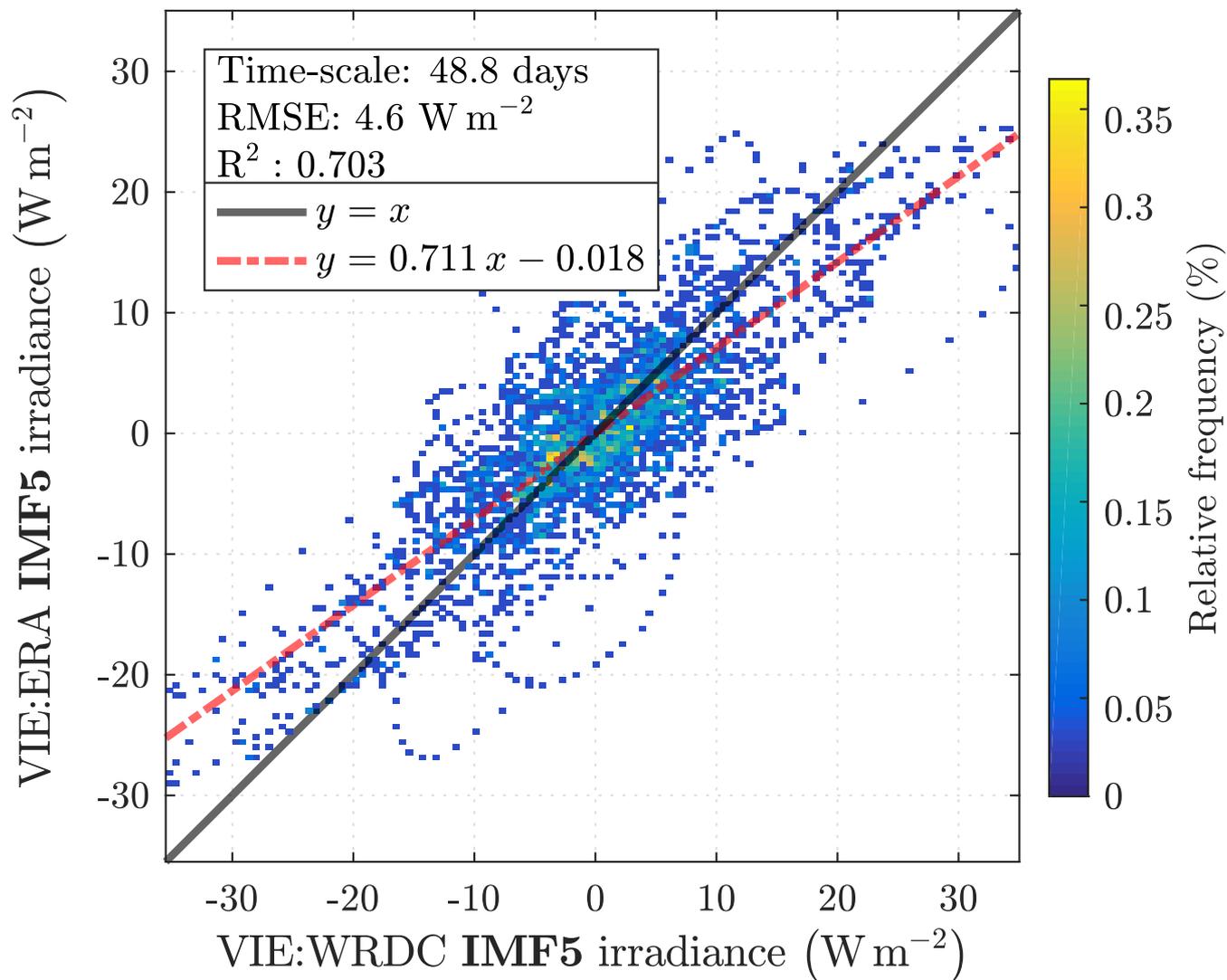


Figure S26. 2Dhist VIE WRDC-ERA IMF5

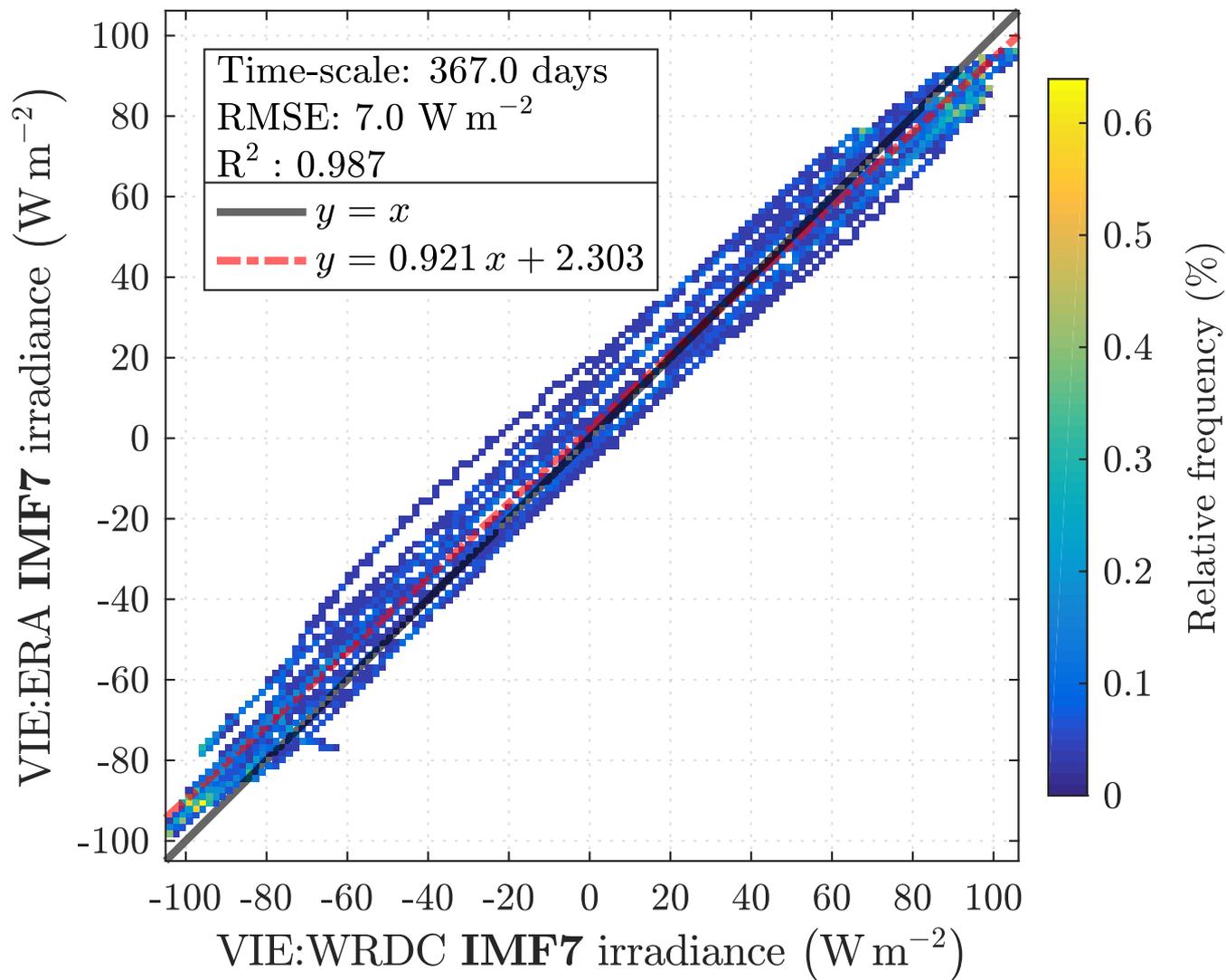


Figure S27. 2Dhist VIE WRDC-ERA IMF7

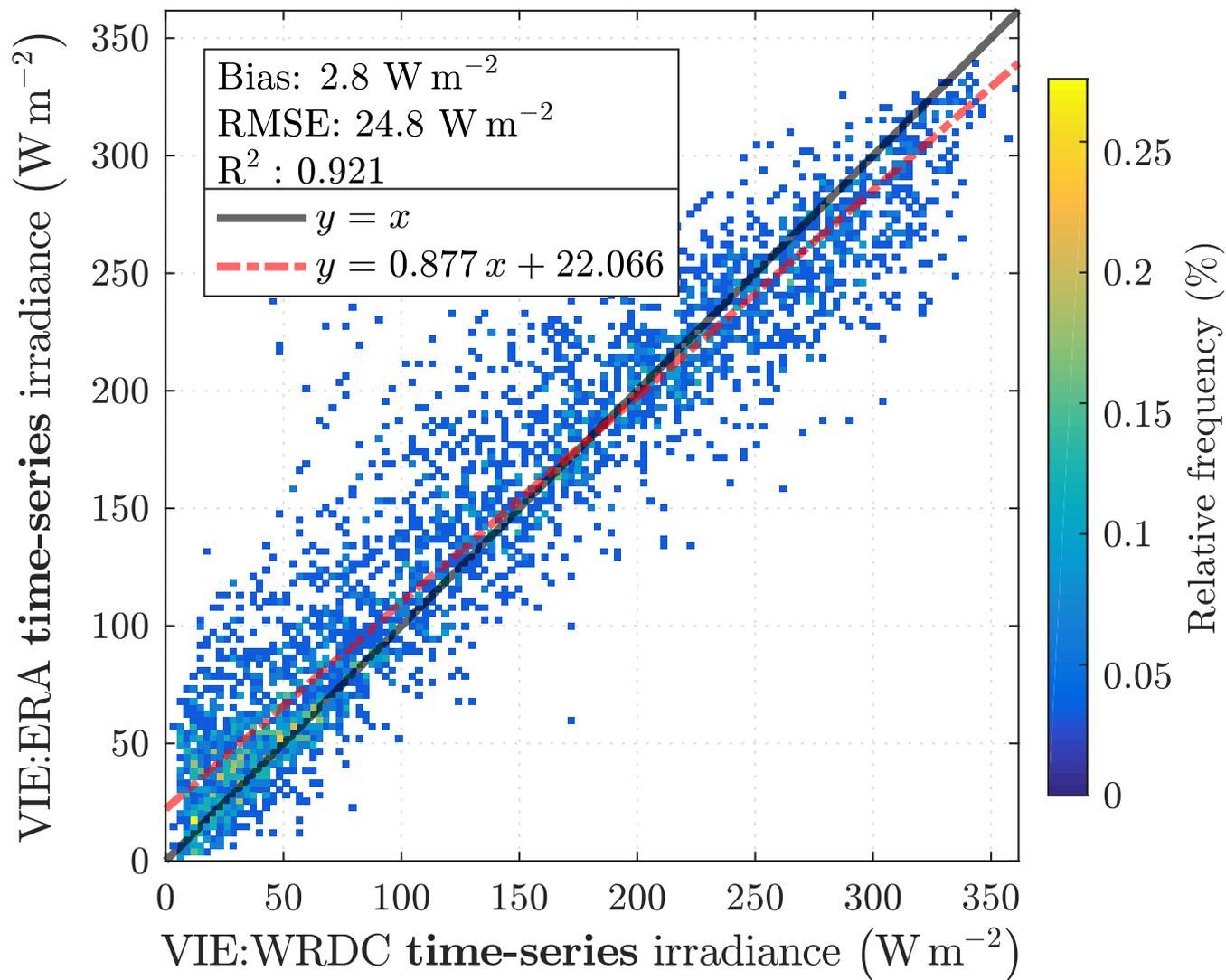


Figure S28. 2Dhist VIE WRDC-ERA time-series

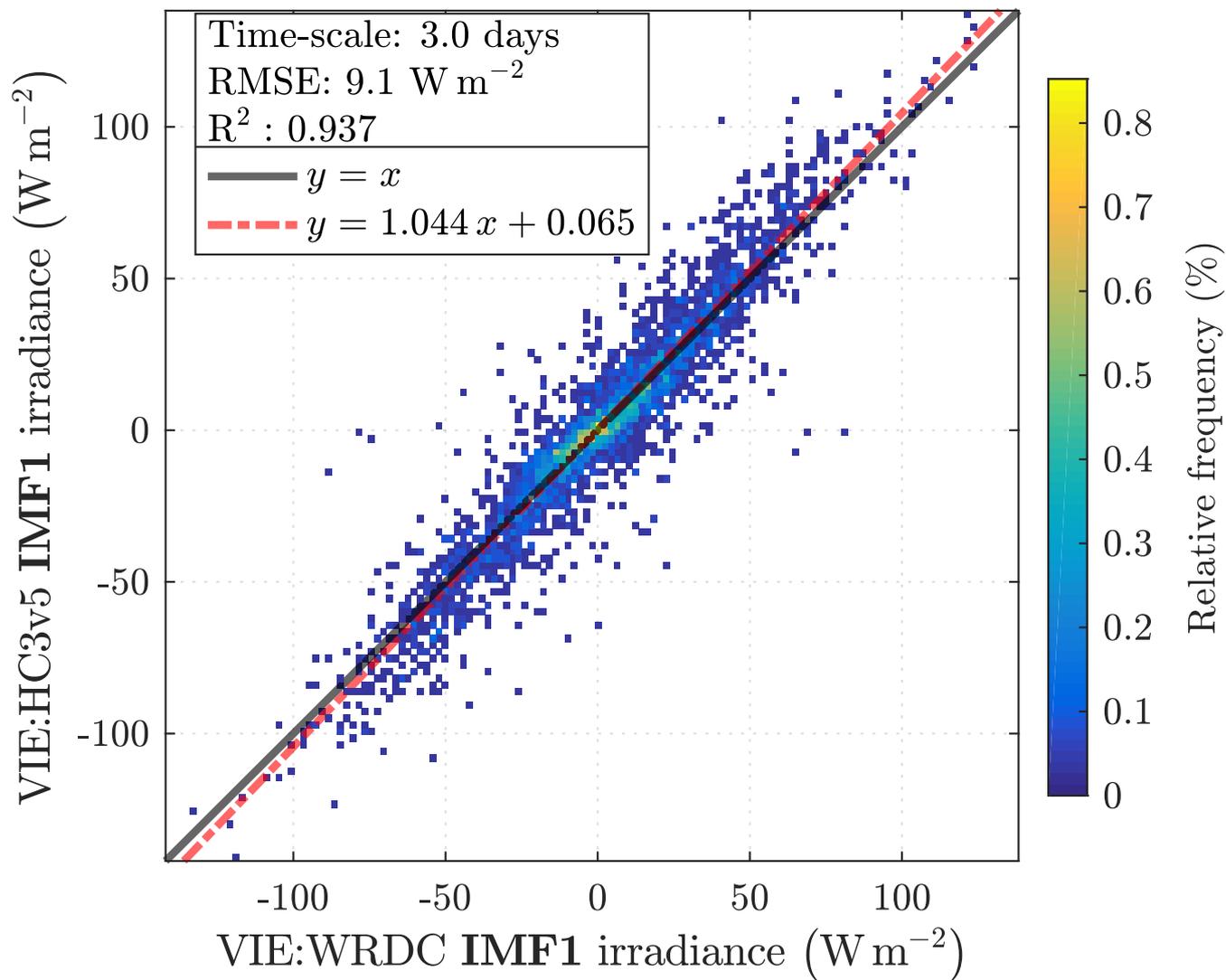


Figure S29. 2Dhist VIE WRDC-HC3v5 IMF1

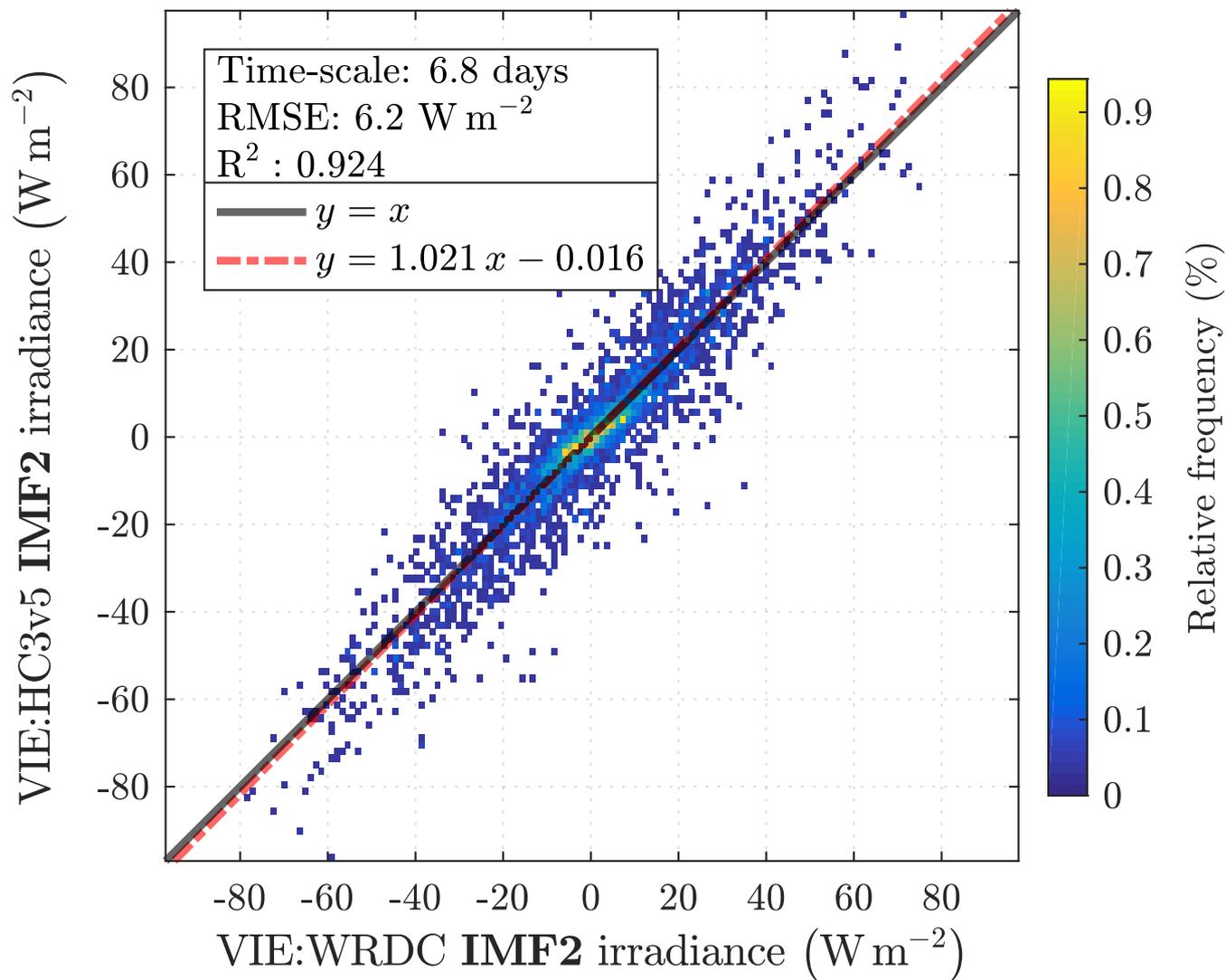


Figure S30. 2Dhist VIE WRDC-HC3v5 IMF2

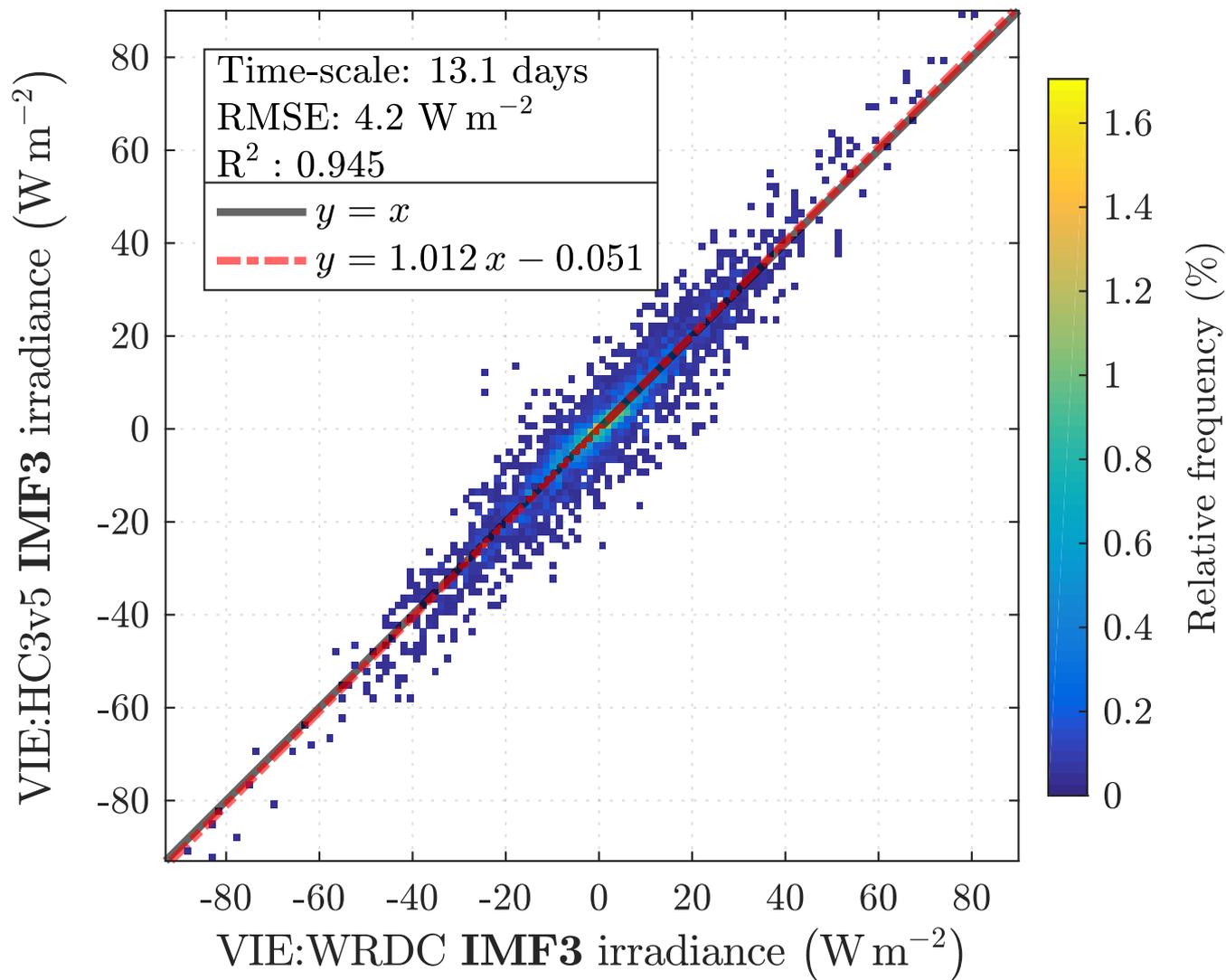


Figure S31. 2Dhist VIE WRDC-HC3v5 IMF3

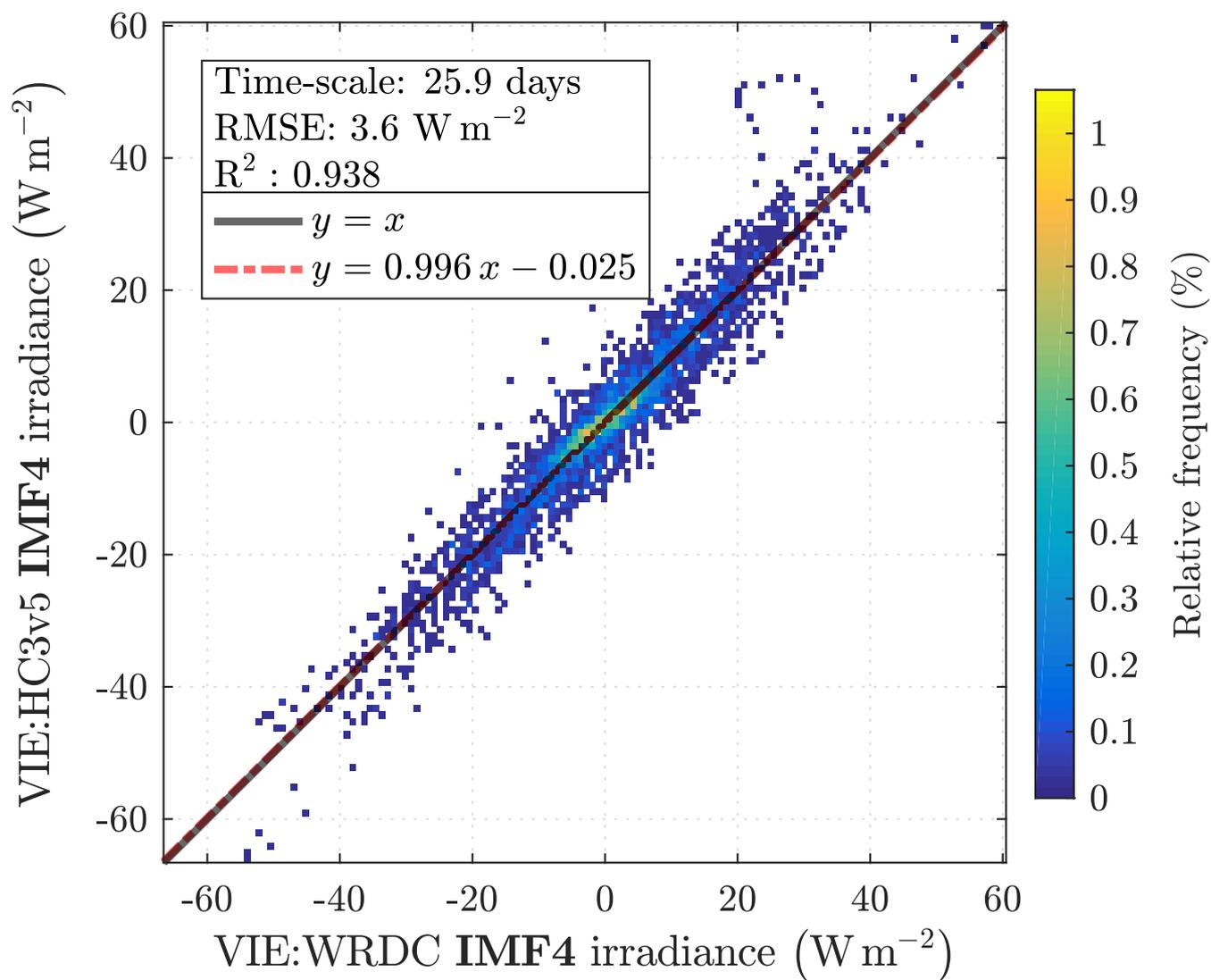


Figure S32. 2Dhist VIE WRDC-HC3v5 IMF4

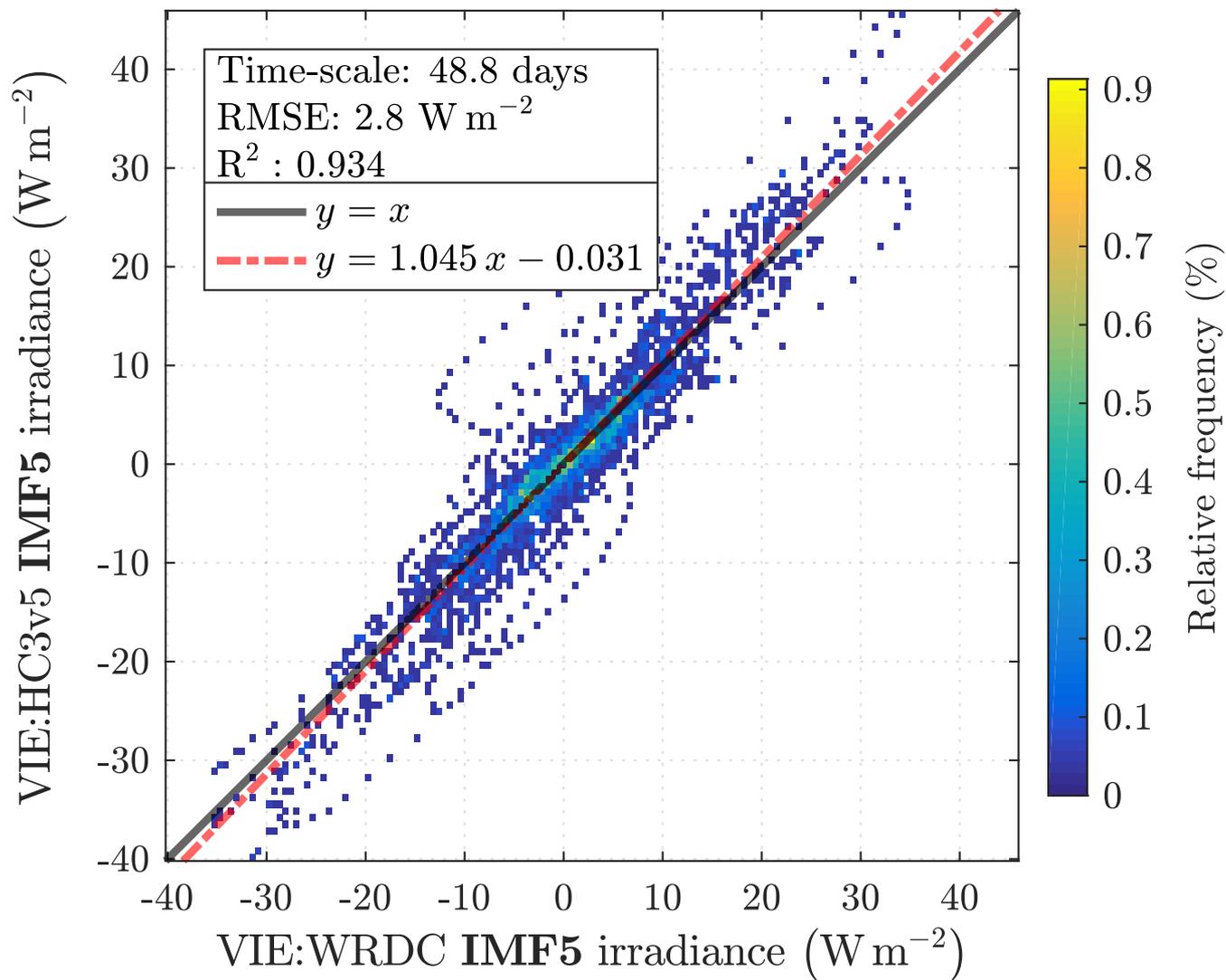


Figure S33. 2Dhist VIE WRDC-HC3v5 IMF5

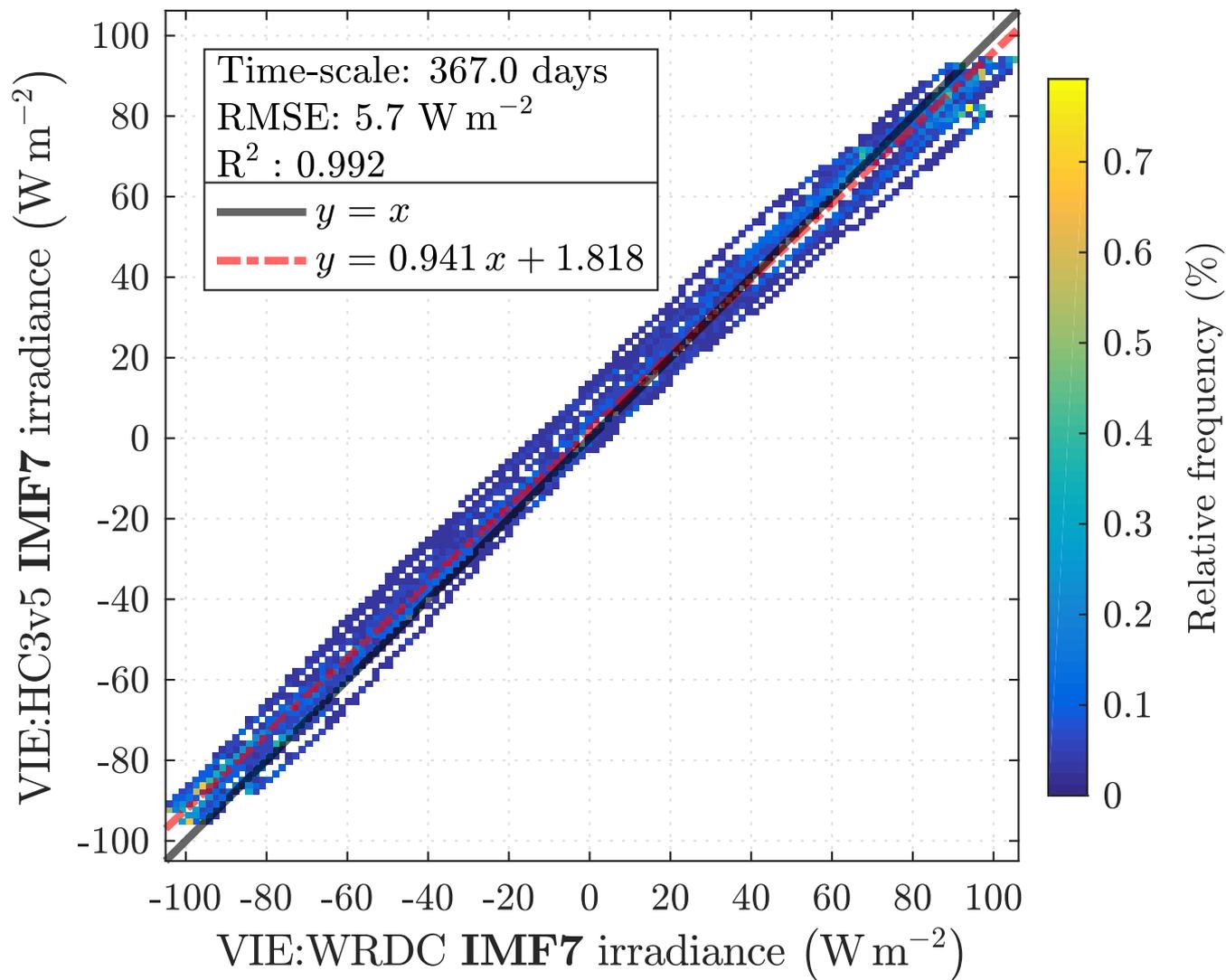


Figure S34. 2Dhist VIE WRDC-HC3v5 IMF7

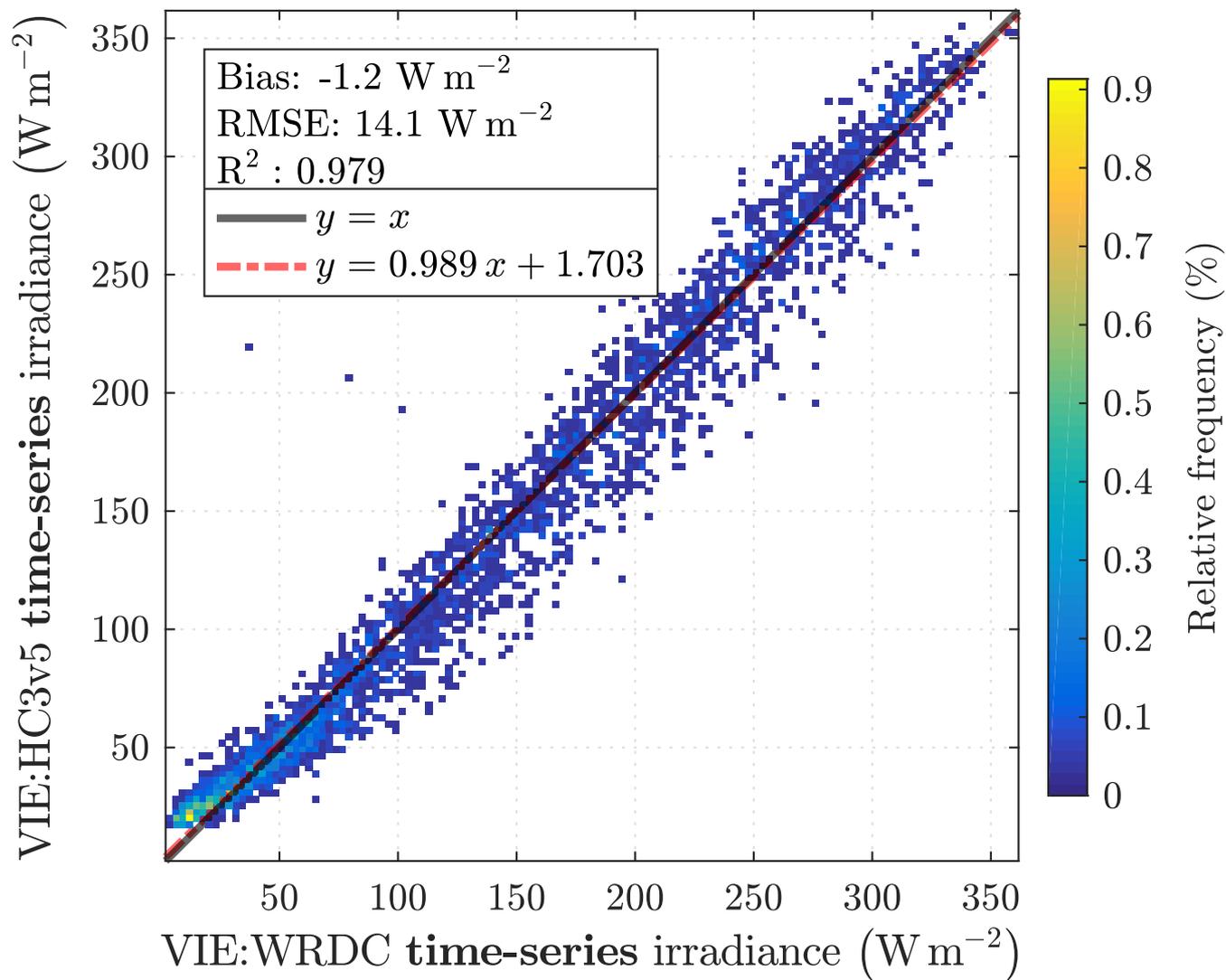


Figure S35. 2Dhist VIE WRDC-HC3v5 time-series

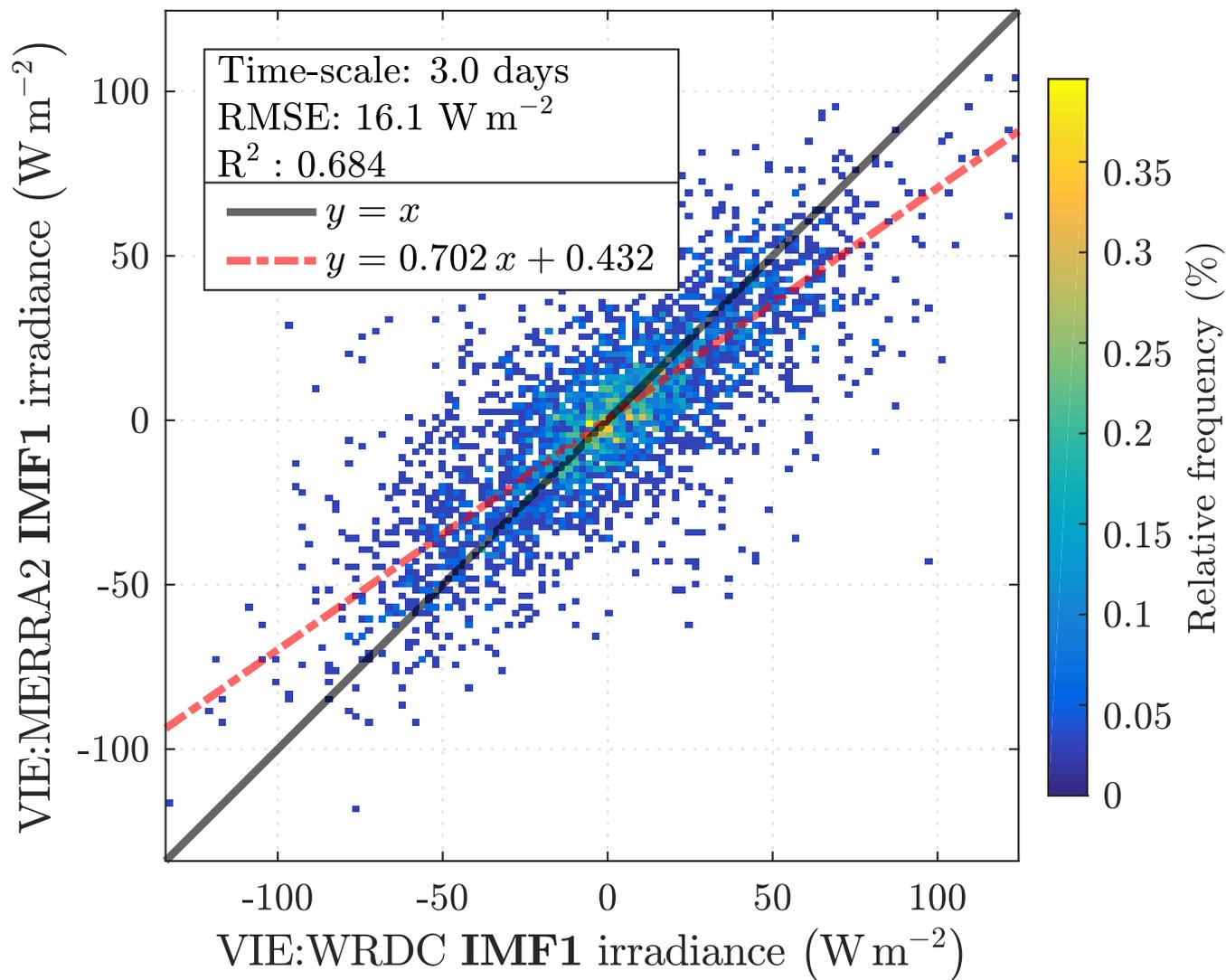


Figure S36. 2Dhist VIE WRDC-MERRA2 IMF1

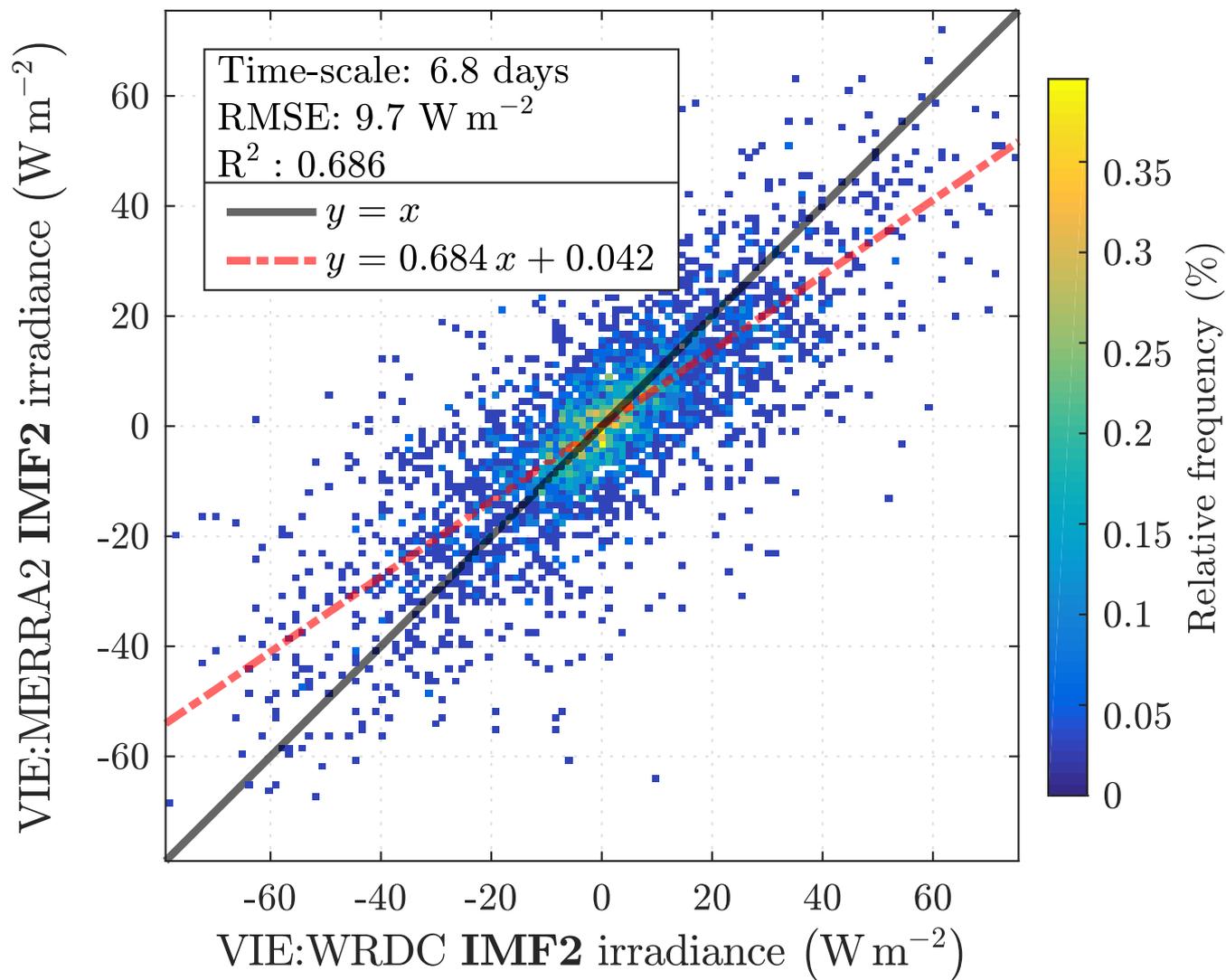


Figure S37. 2Dhist VIE WRDC-MERRA2 IMF2

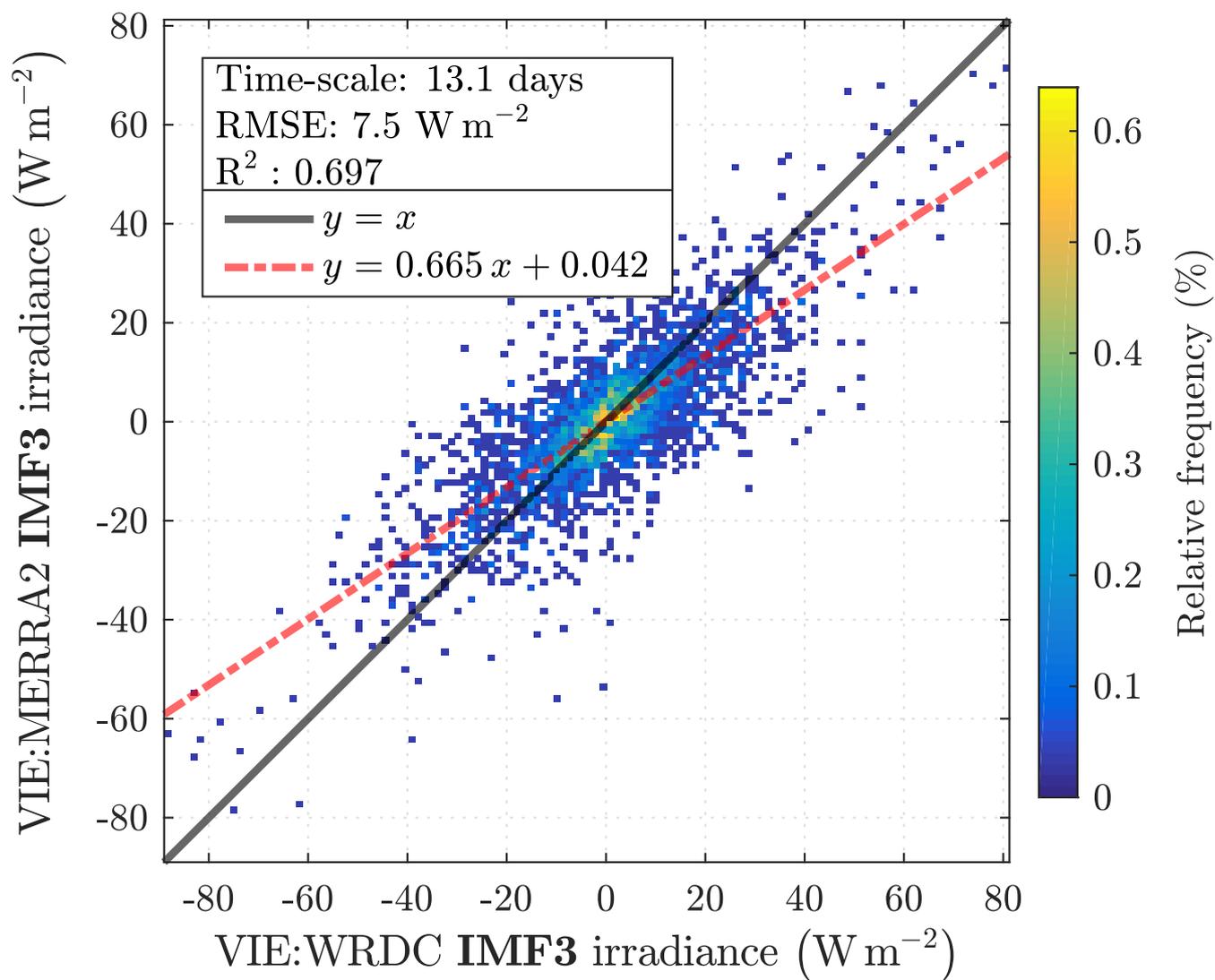


Figure S38. 2Dhist VIE WRDC-MERRA2 IMF3

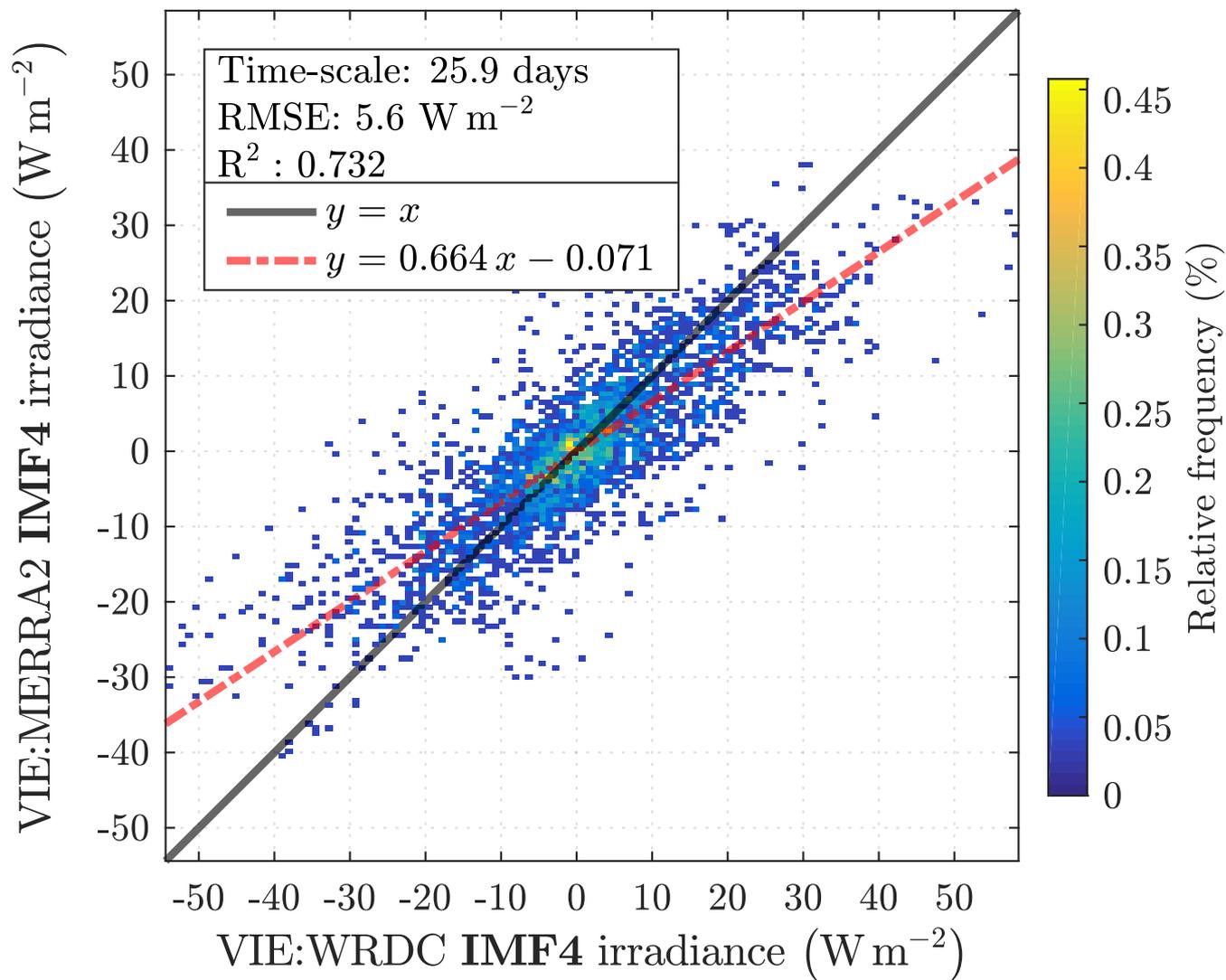


Figure S39. 2Dhist VIE WRDC-MERRA2 IMF4

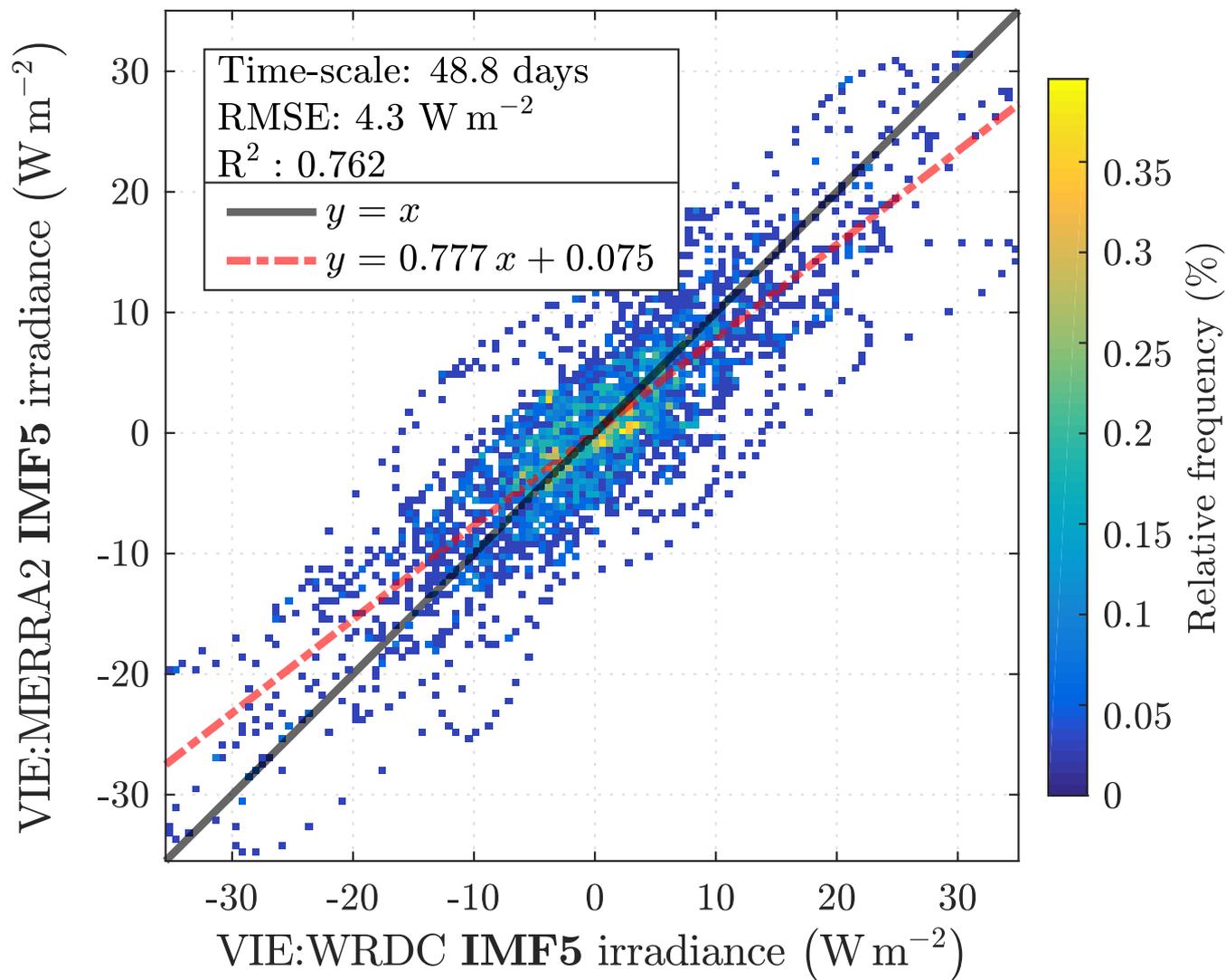


Figure S40. 2Dhist VIE WRDC-MERRA2 IMF5

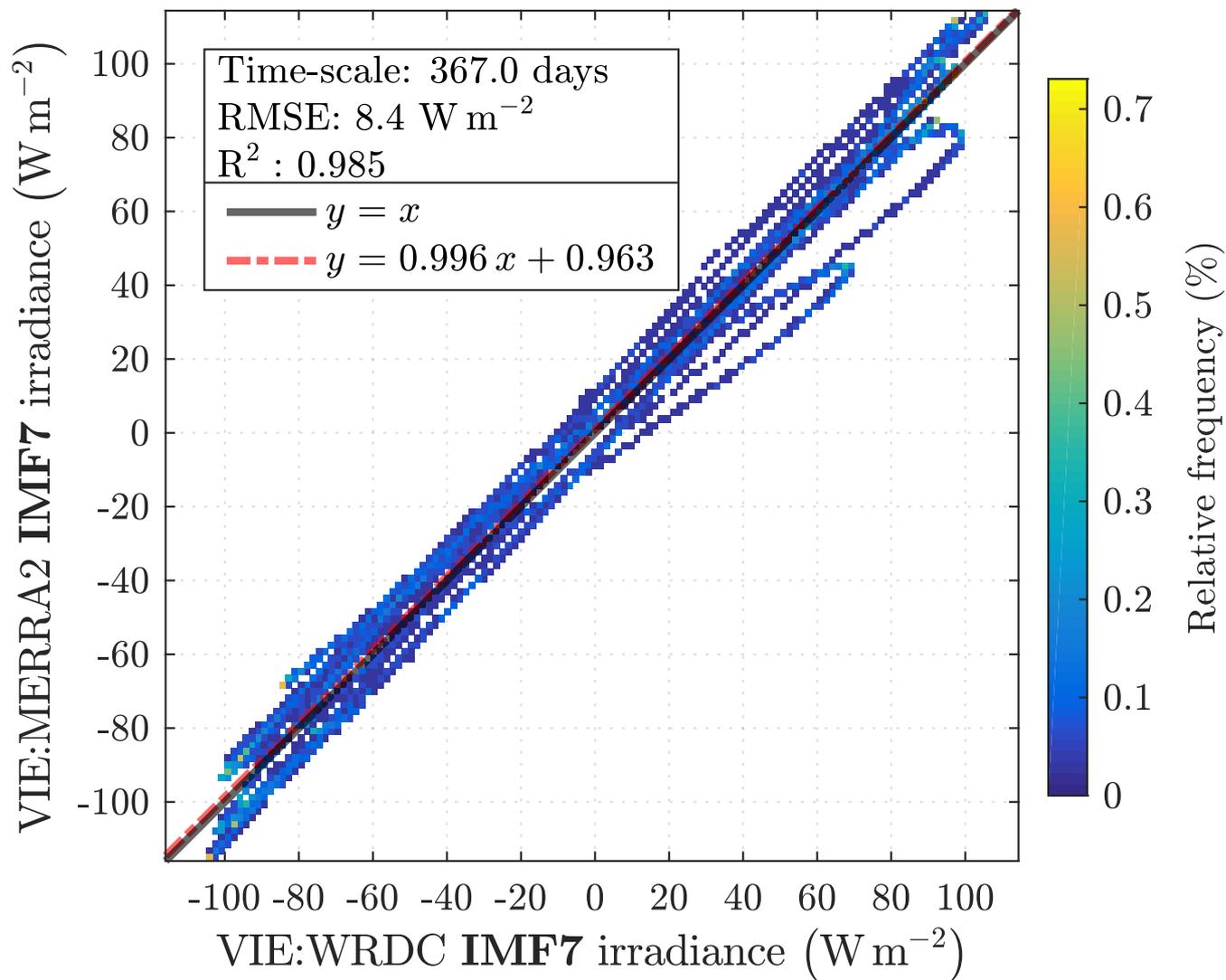


Figure S41. 2Dhist VIE WRDC-MERRA2 IMF7

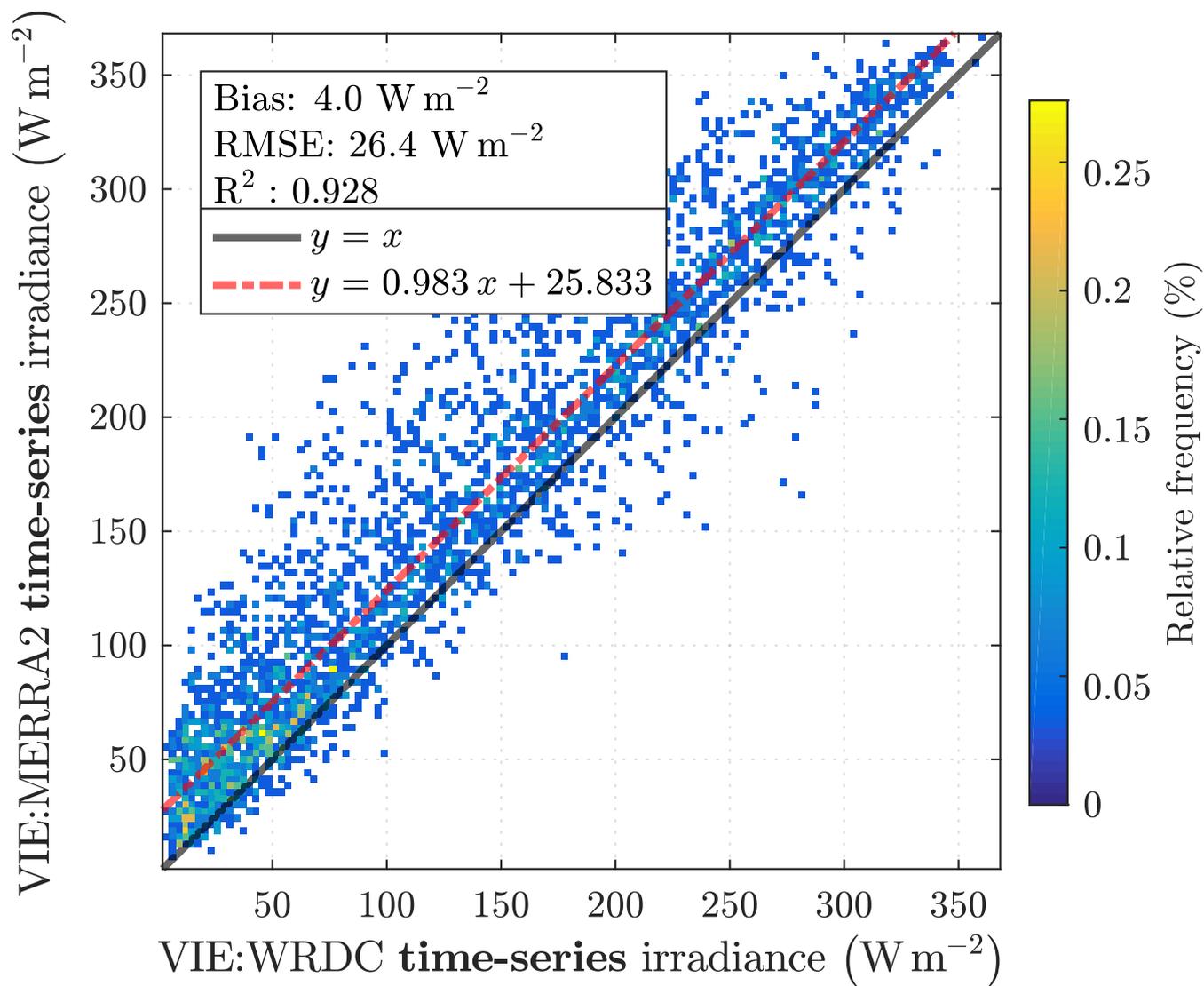


Figure S42. 2Dhist VIE WRDC-MERRA2 time-series

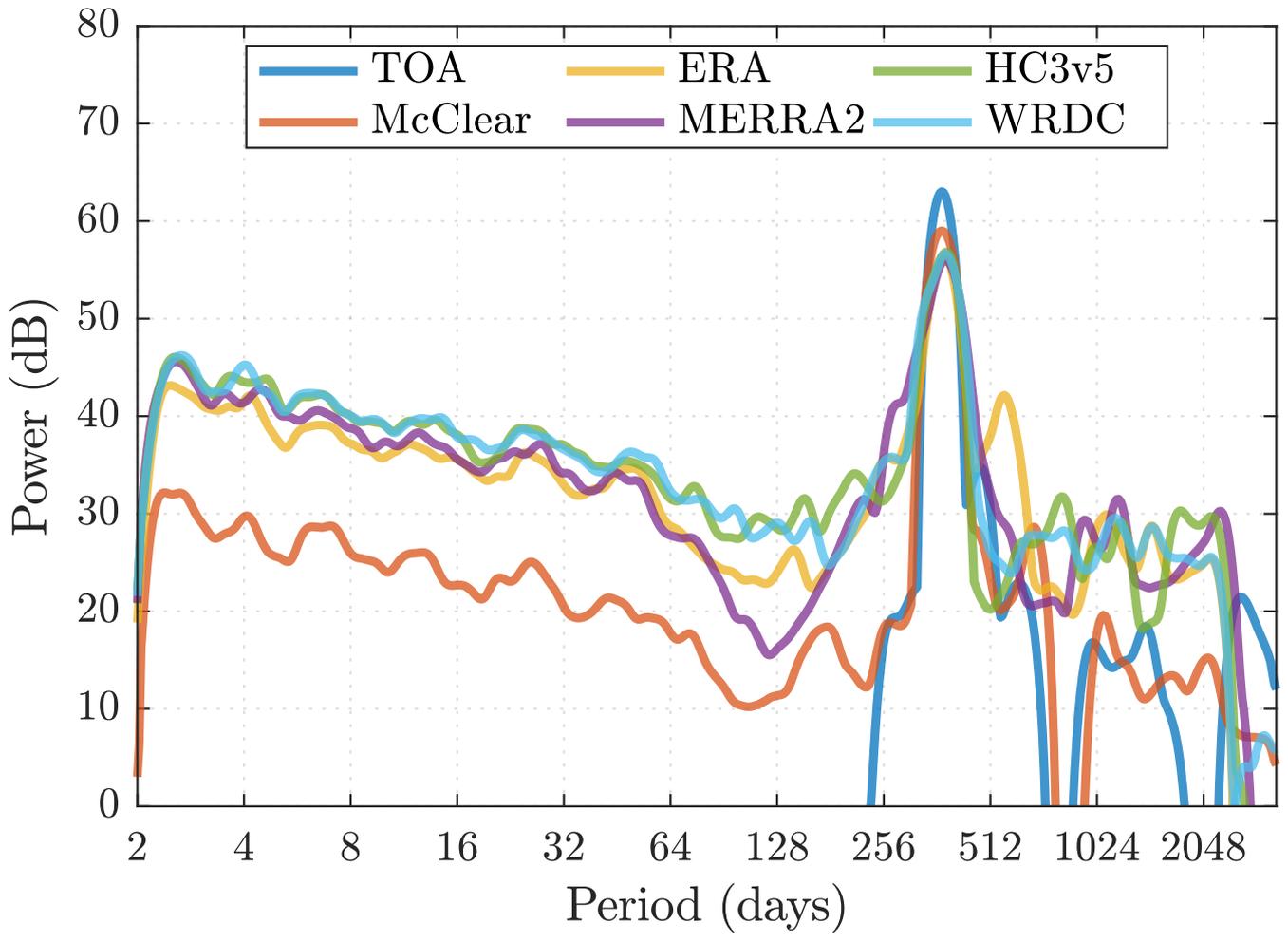


Figure S43. HMS KIV WRDC TOA McClear MERRA2 HC3v5 ERA

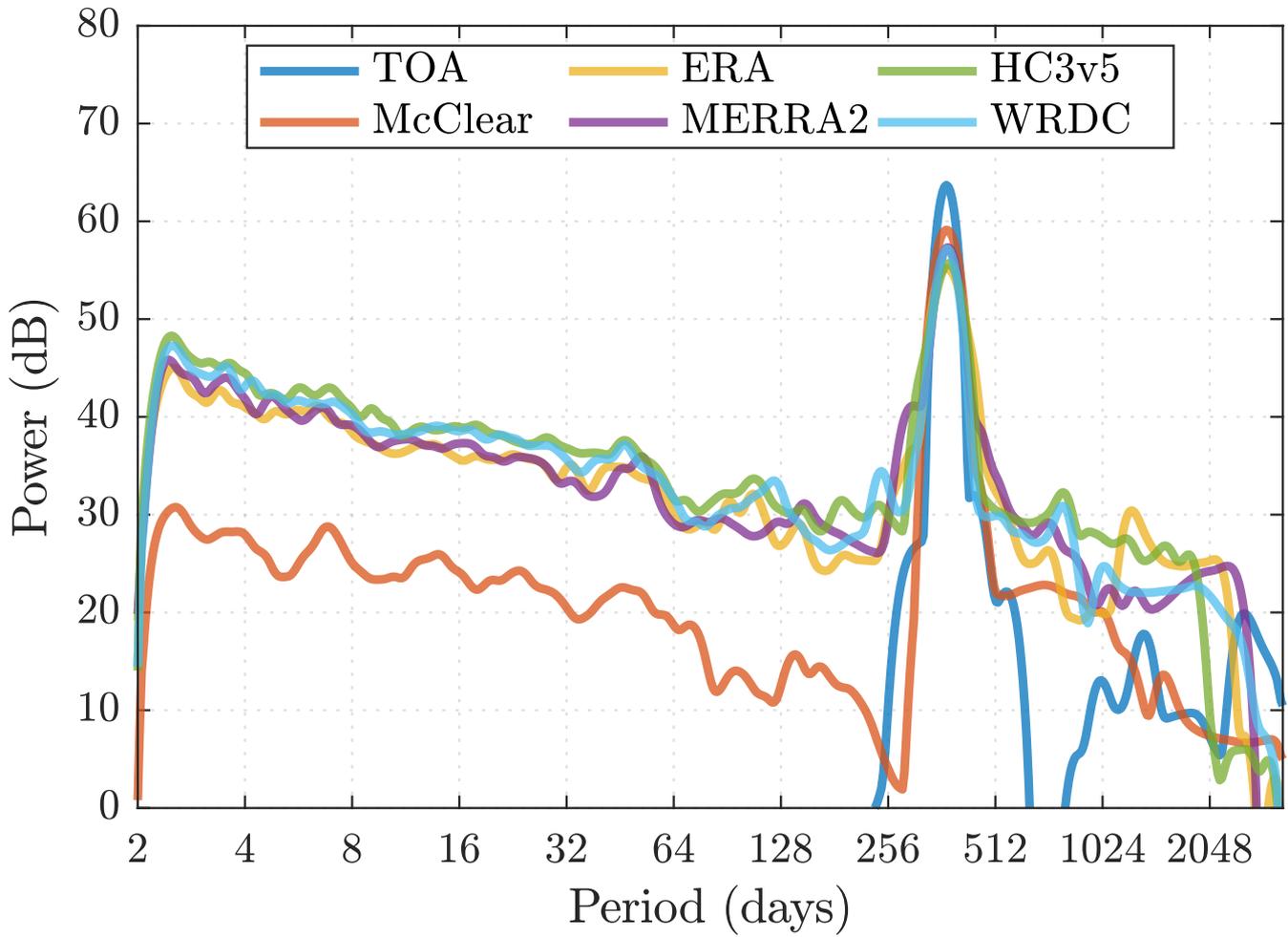


Figure S44. HMS VIE WRDC TOA McClear MERRA2 HC3v5 ERA

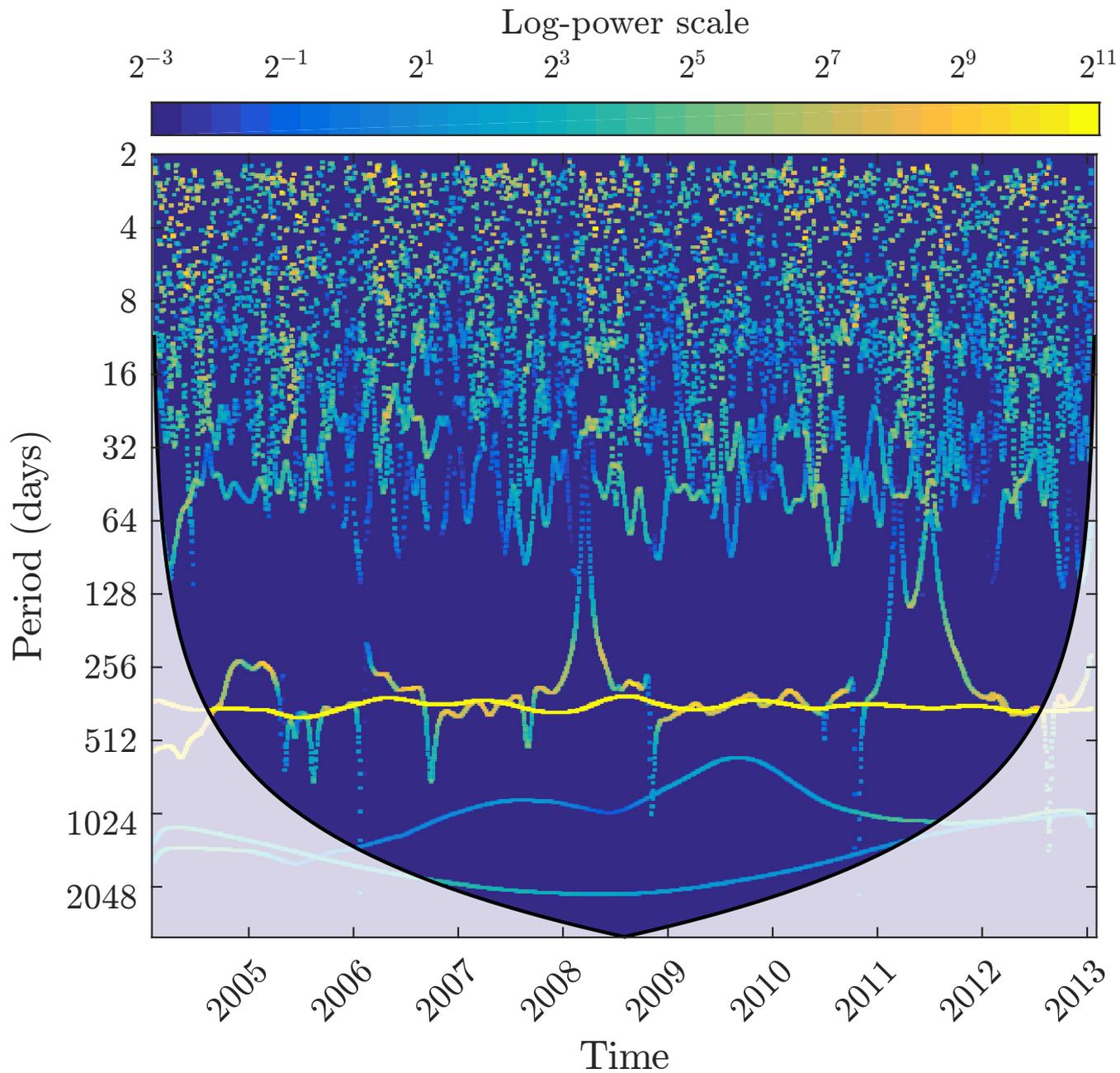


Figure S45. HSA KIV ERA

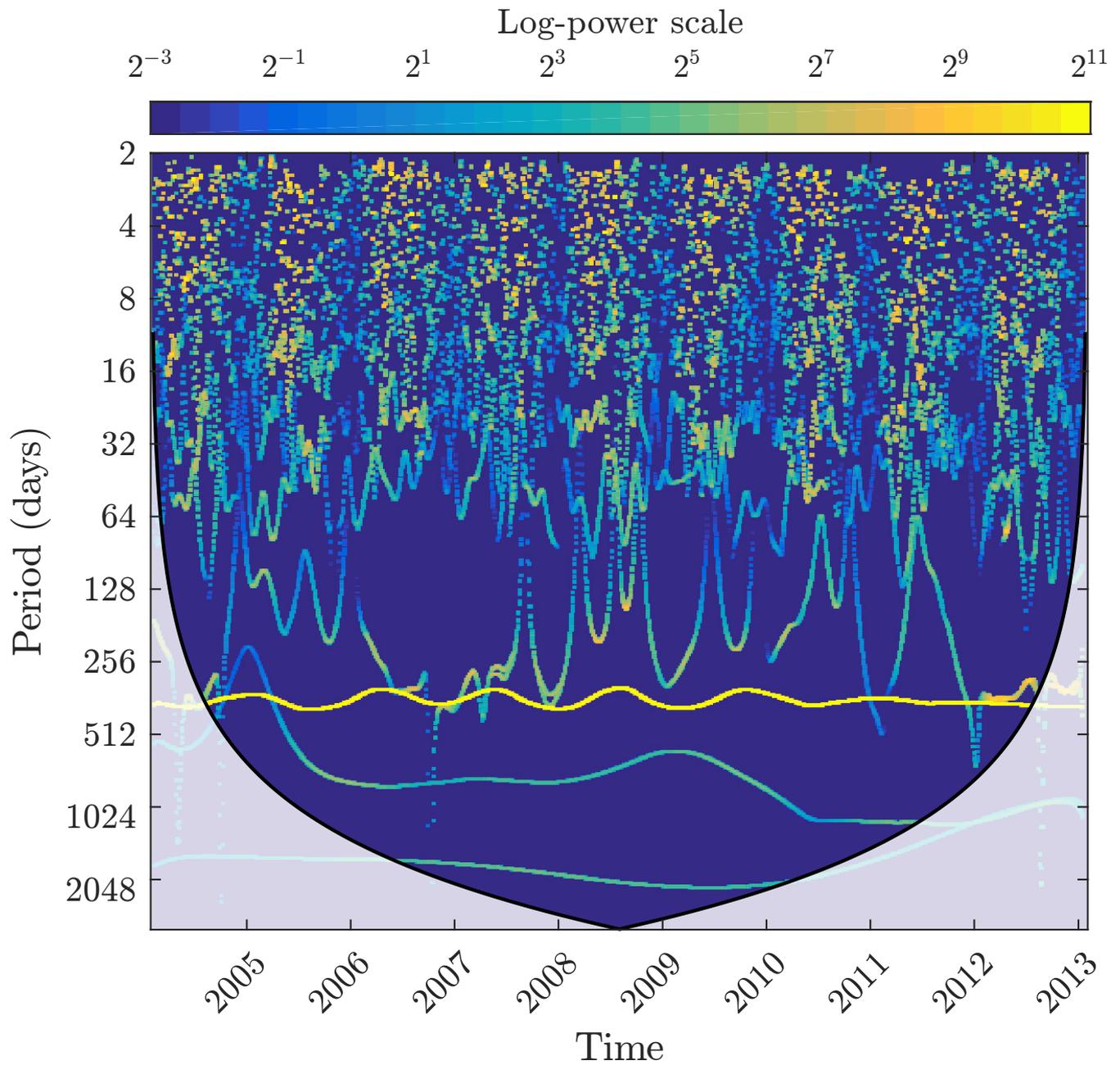


Figure S46. HSA KIV HC3v5

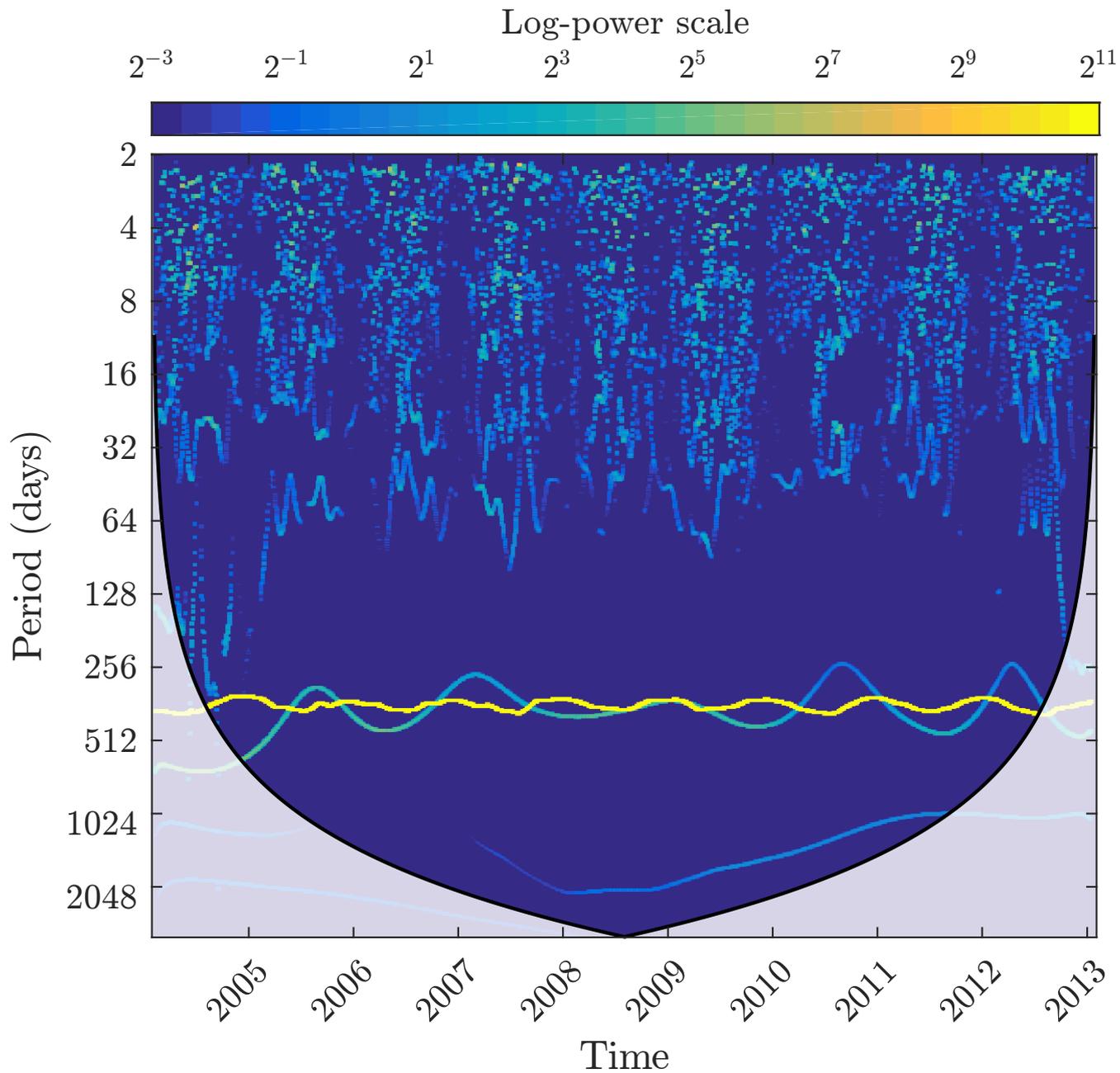


Figure S47. HSA KIV McClear

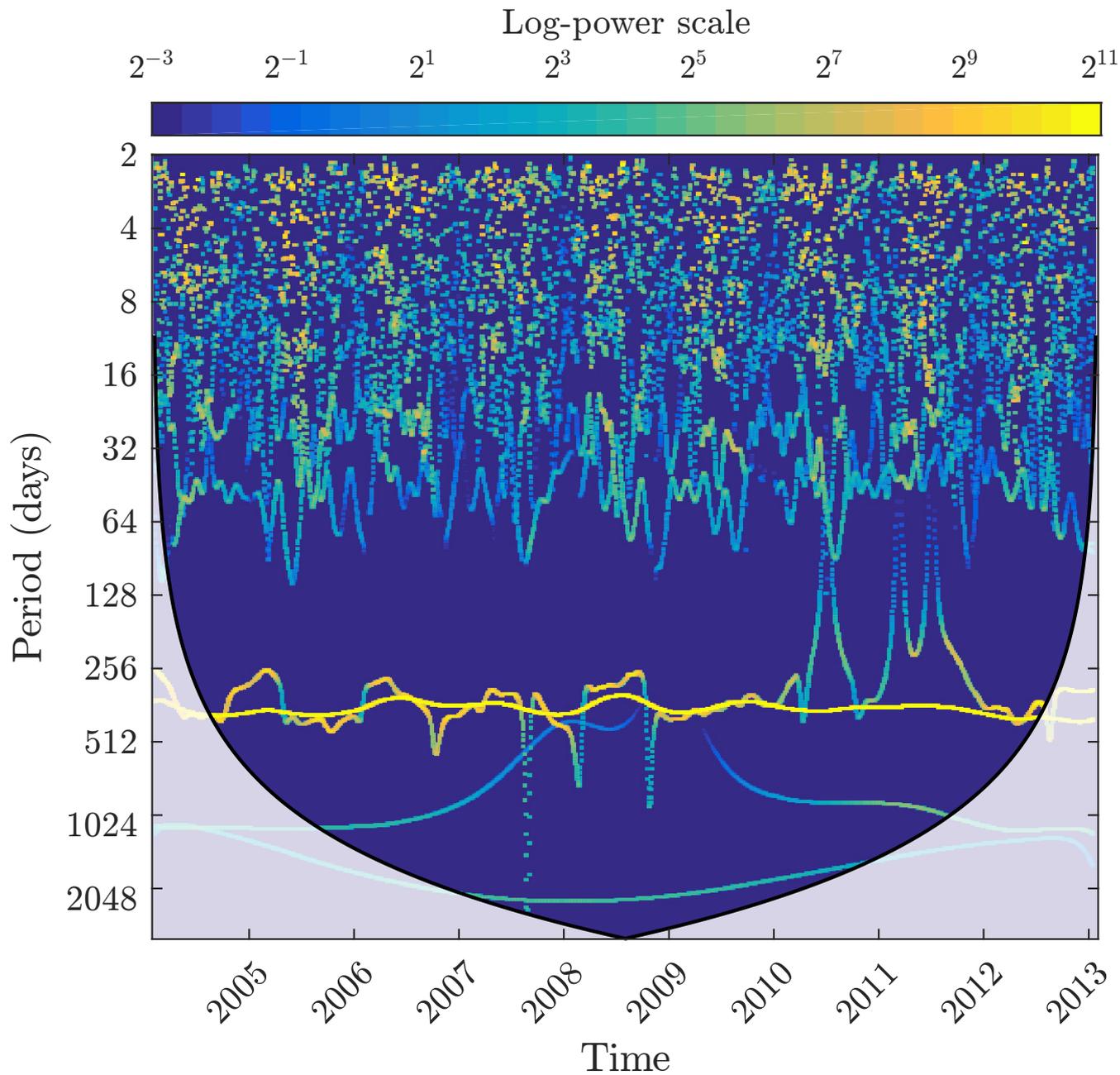


Figure S48. HSA KIV MERRA2

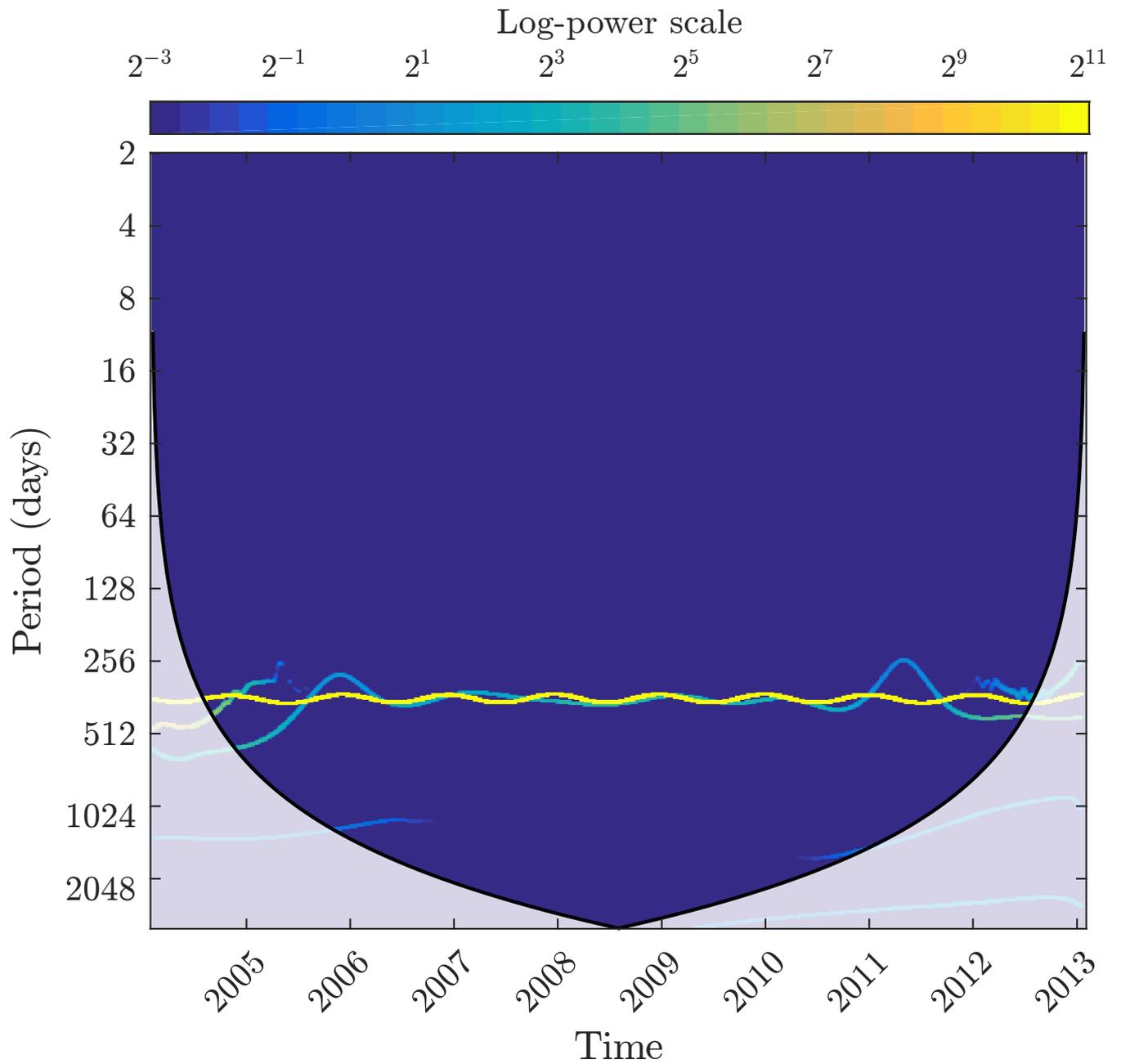


Figure S49. HSA KIV TOA

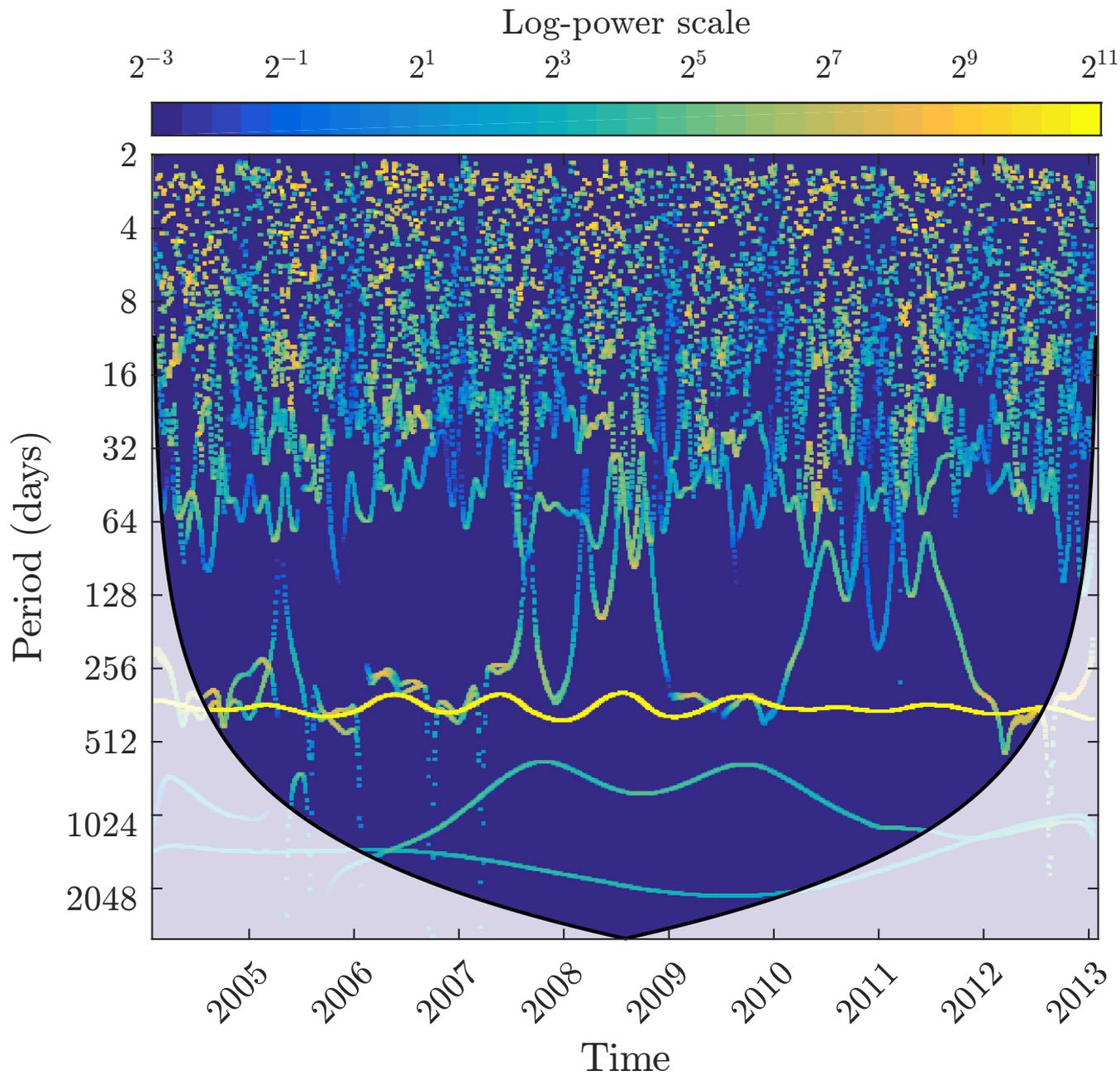


Figure S50. HSA KIV WRDC

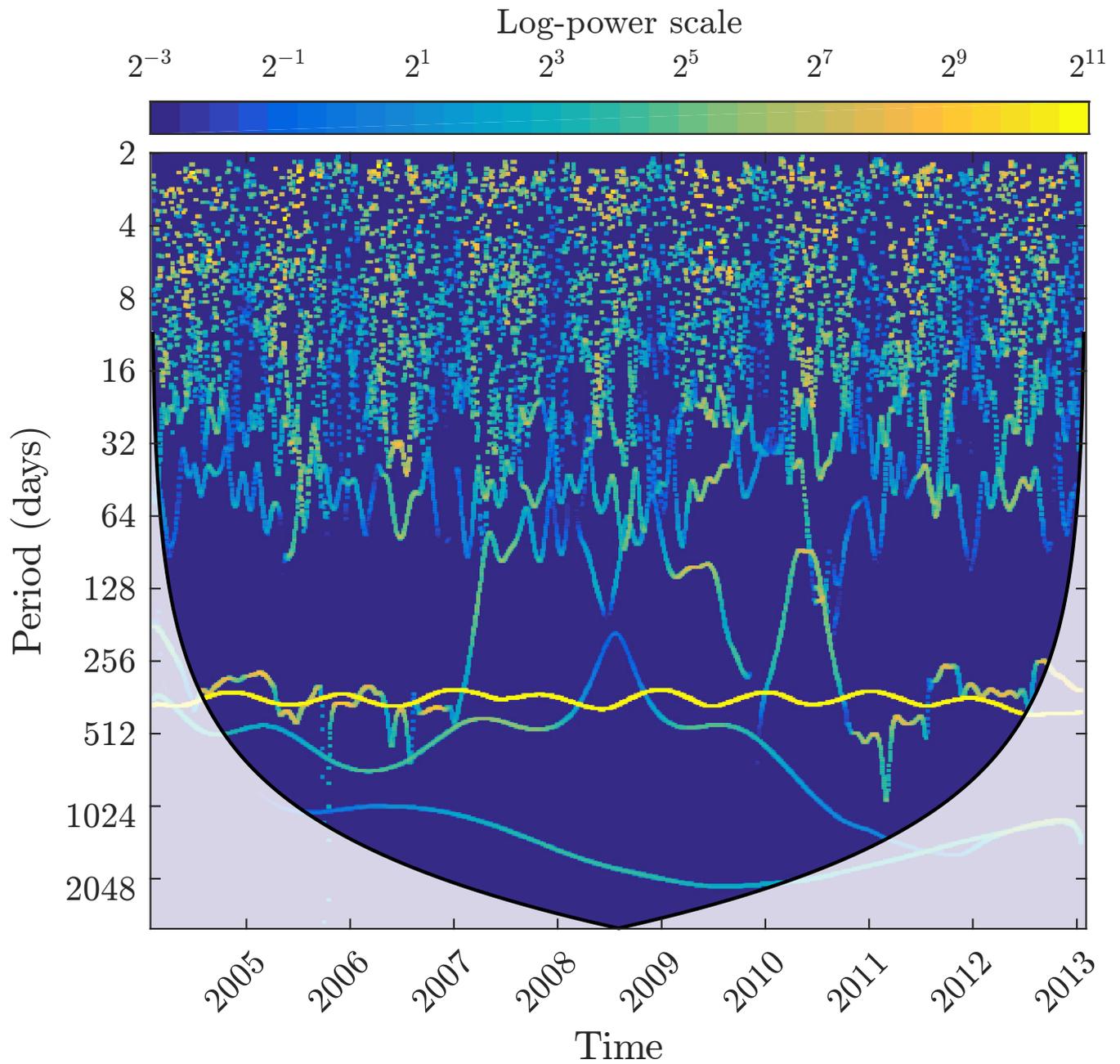


Figure S51. HSA VIE ERA

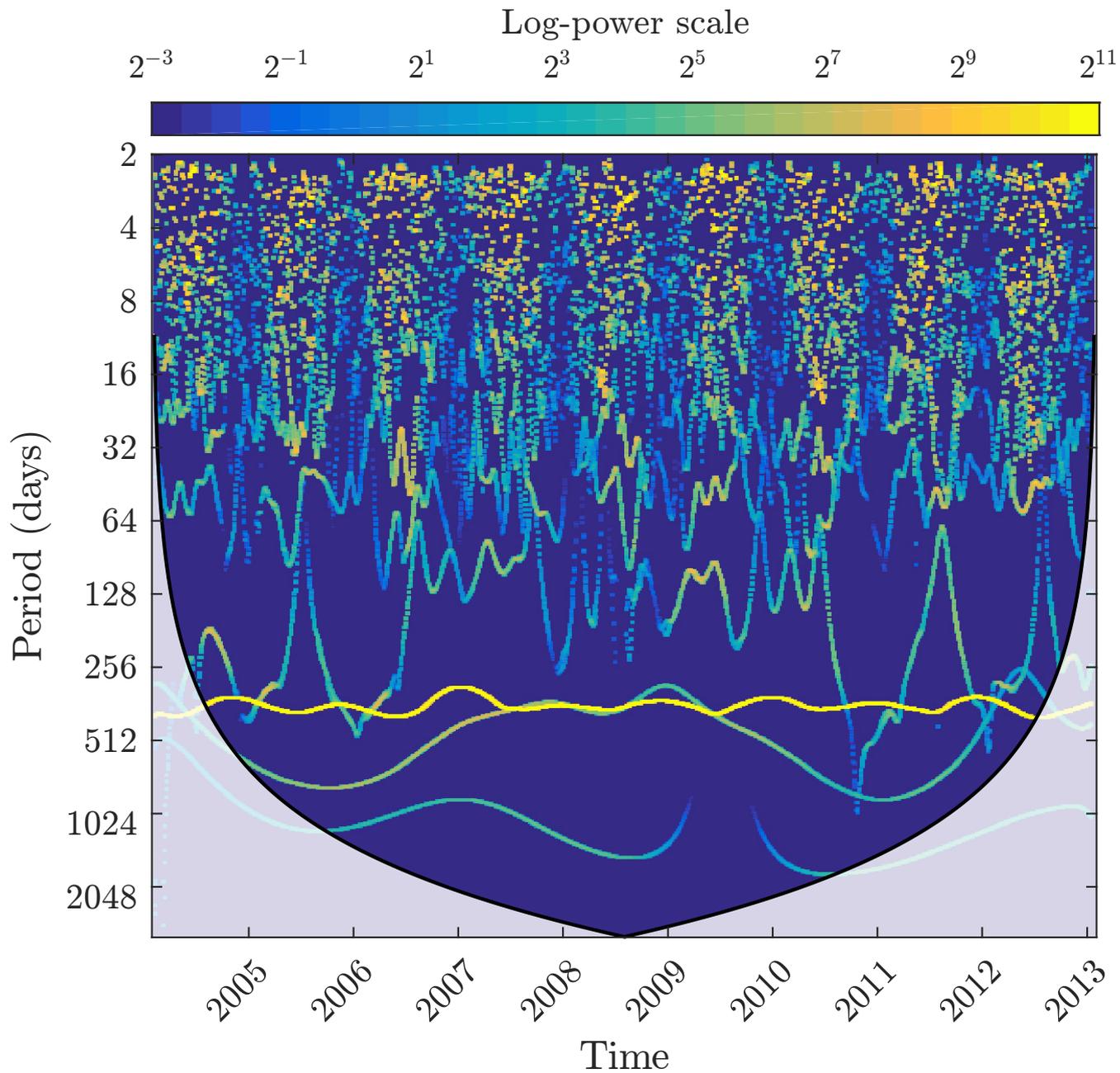


Figure S52. HSA VIE HC3v5

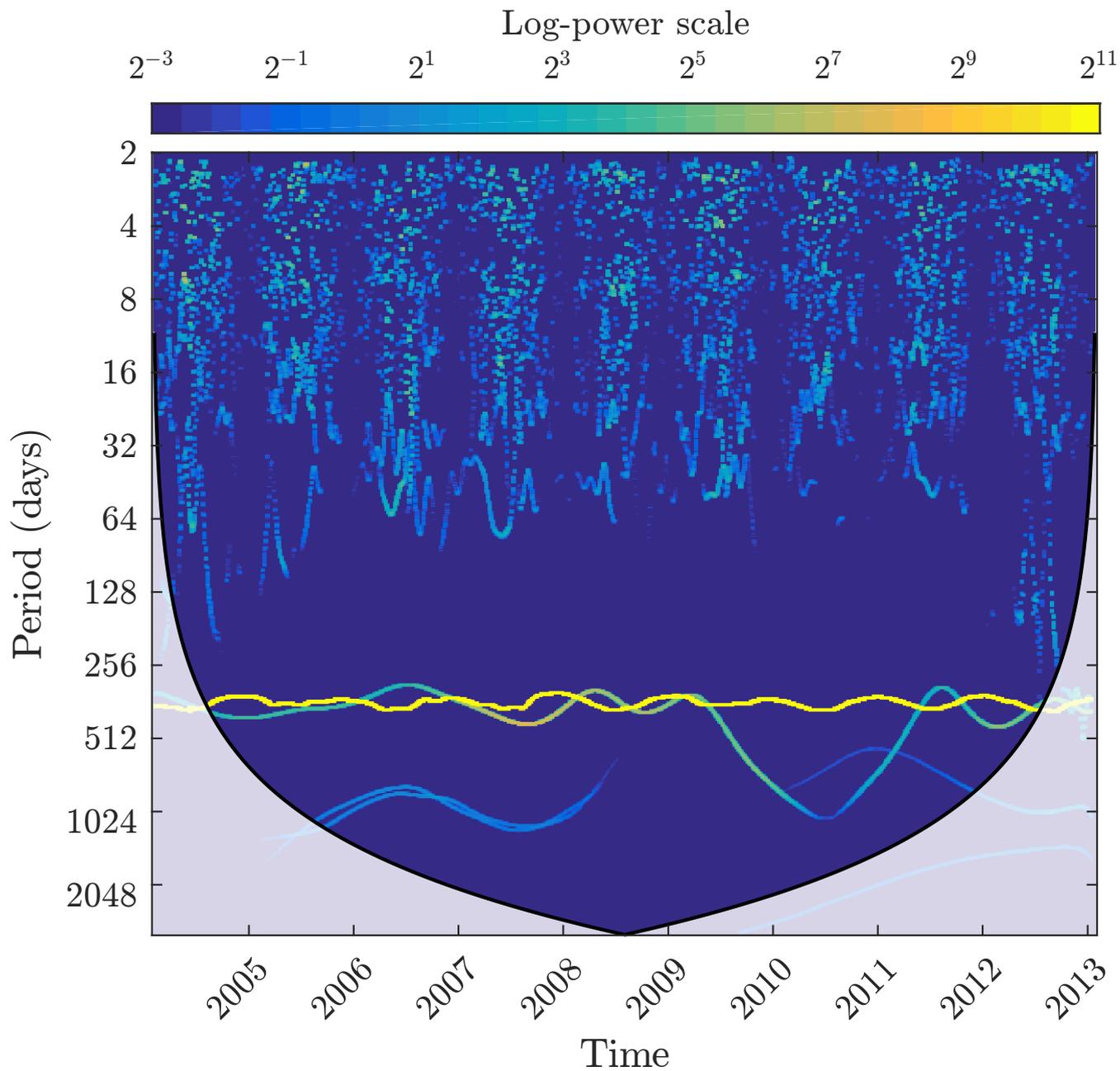


Figure S53. HSA VIE McClear

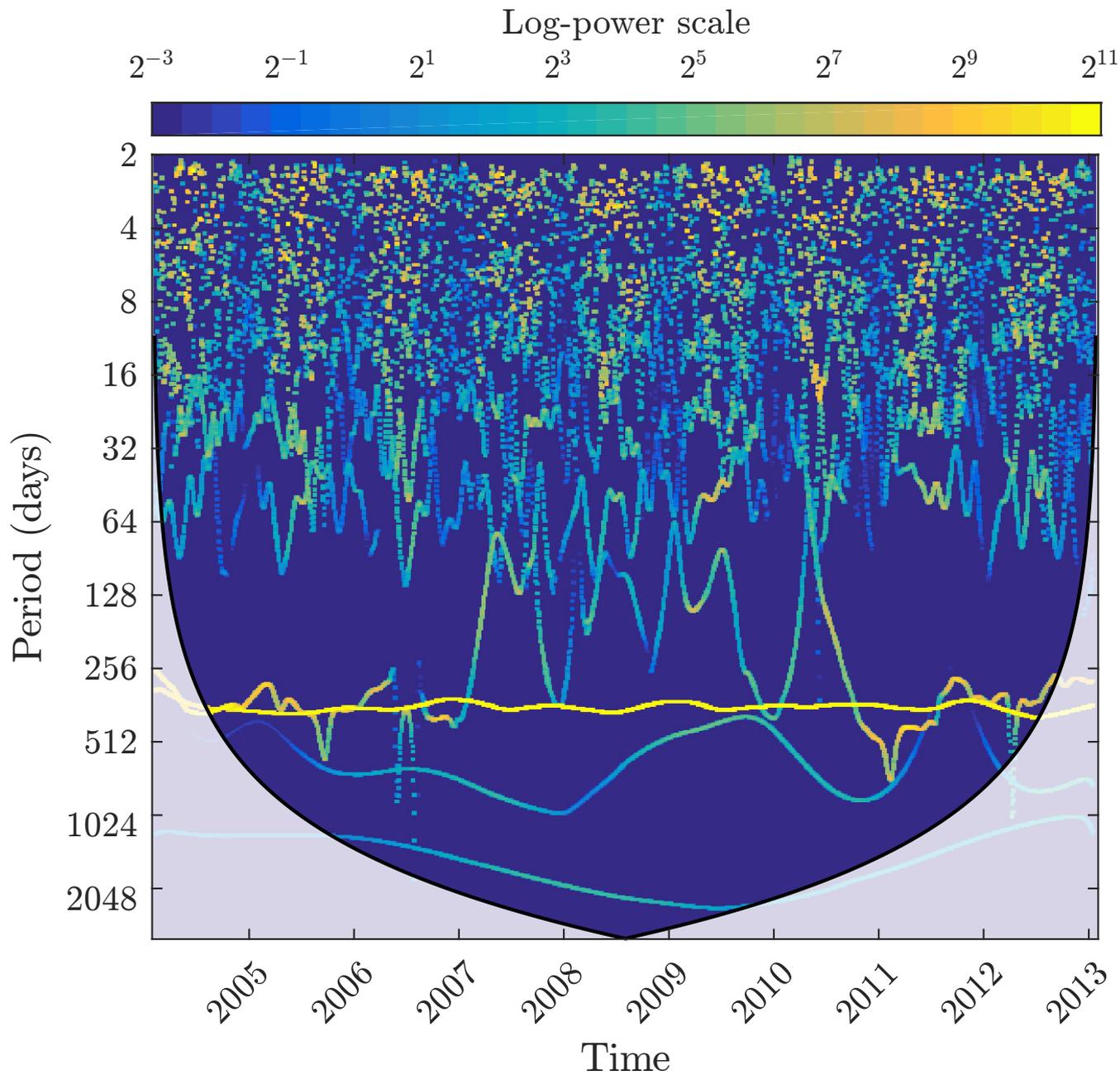


Figure S54. HSA VIE MERRA2

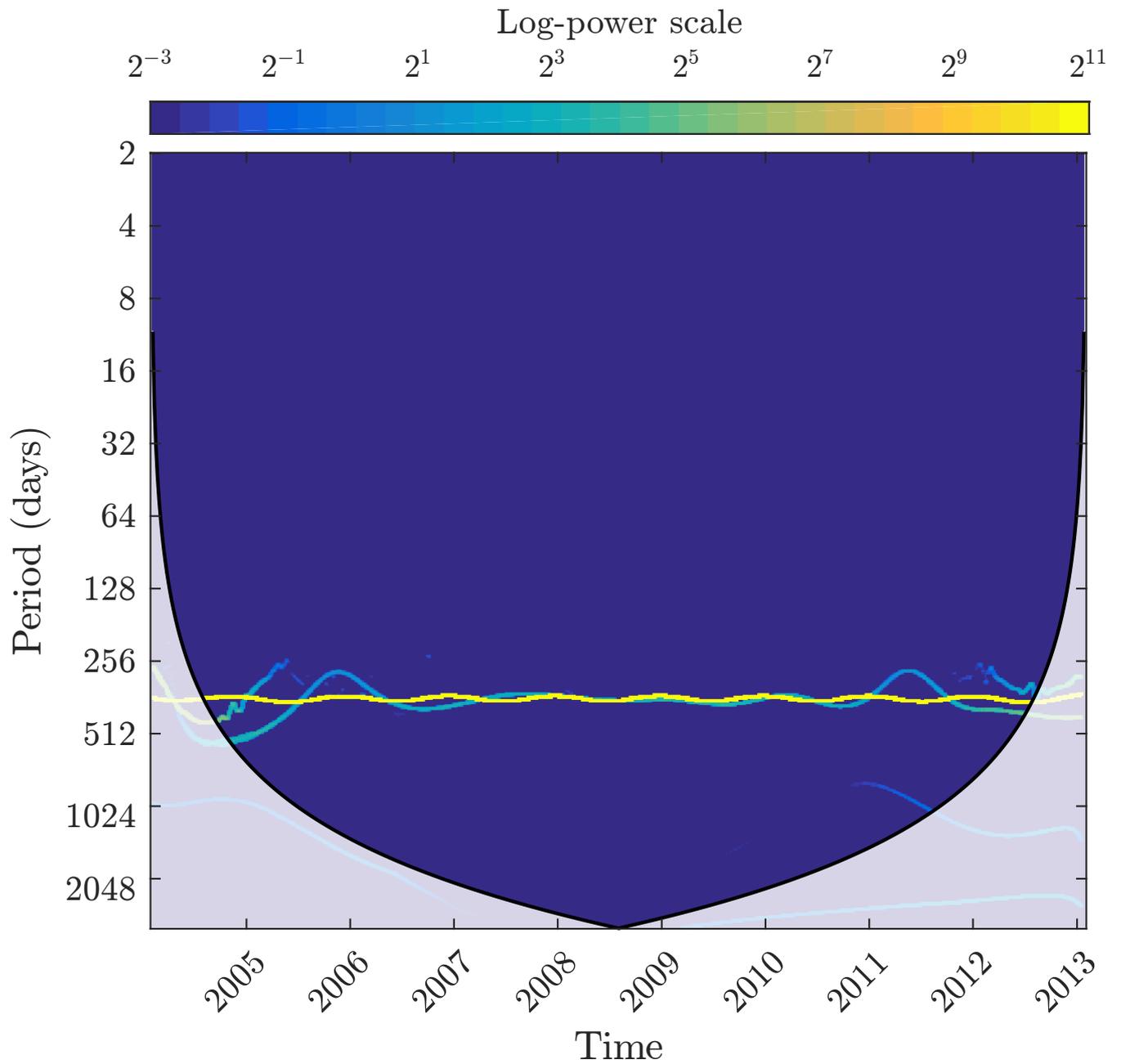


Figure S55. HSA VIE TOA

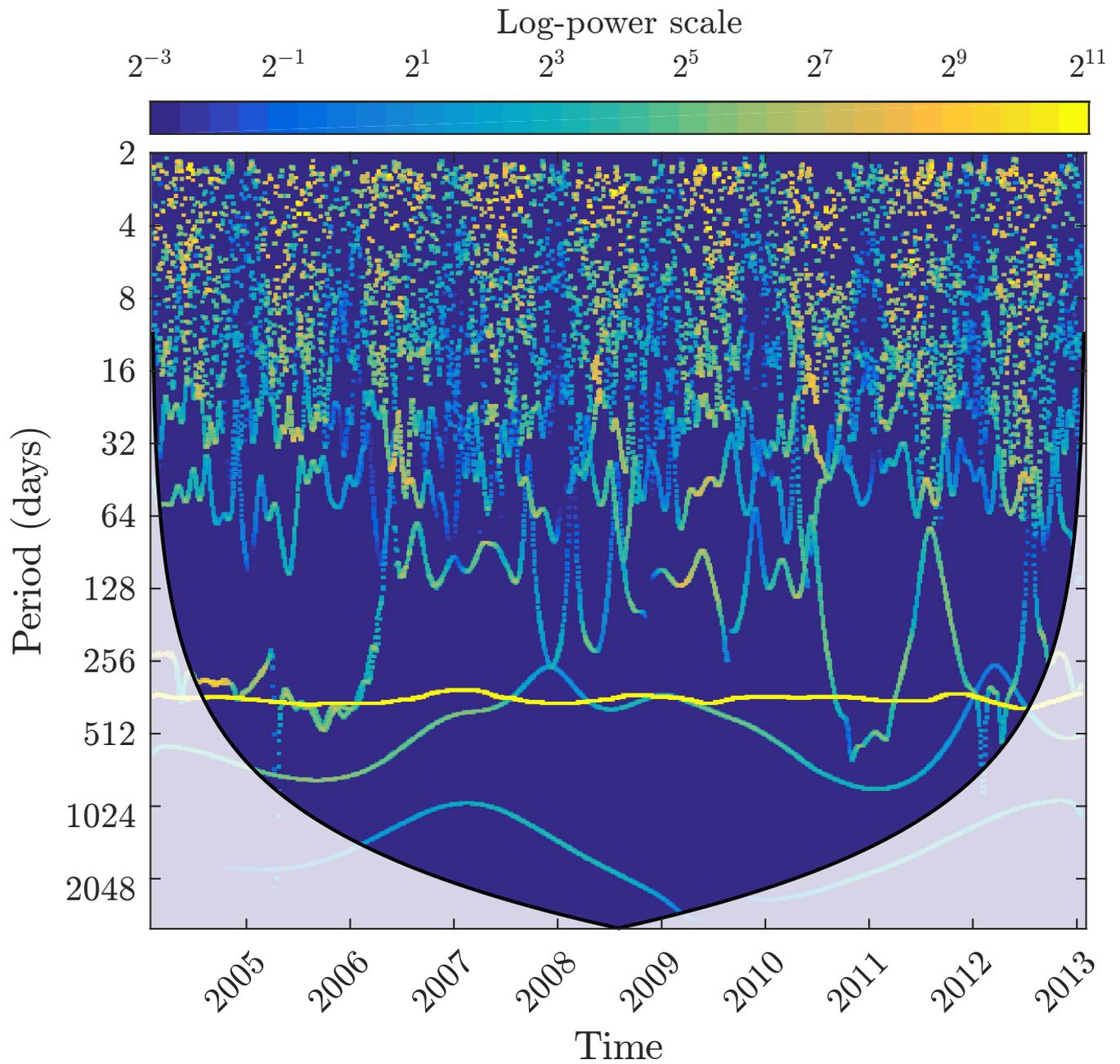


Figure S56. HSA VIE WRDC

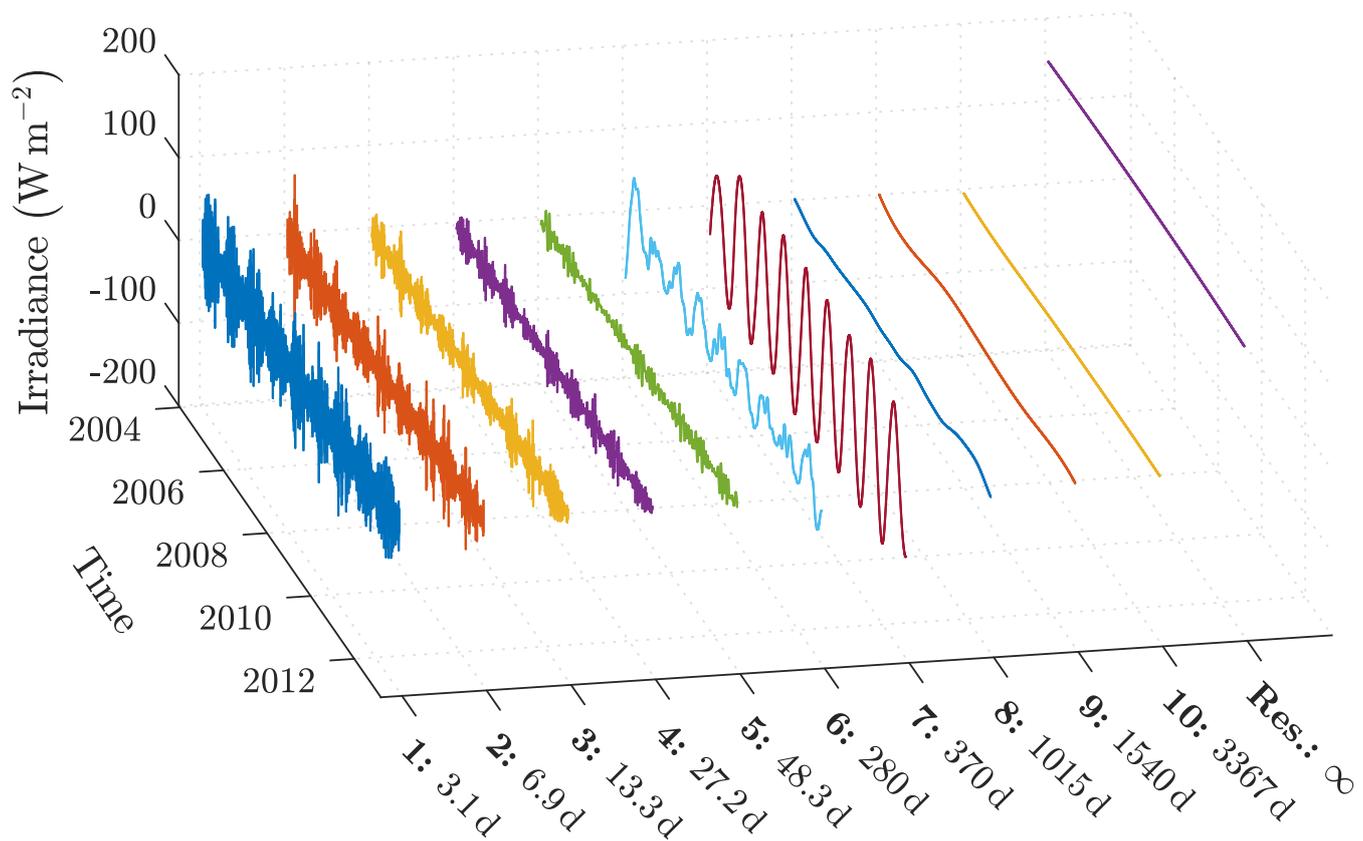


Figure S57. IMFs KIV ERA

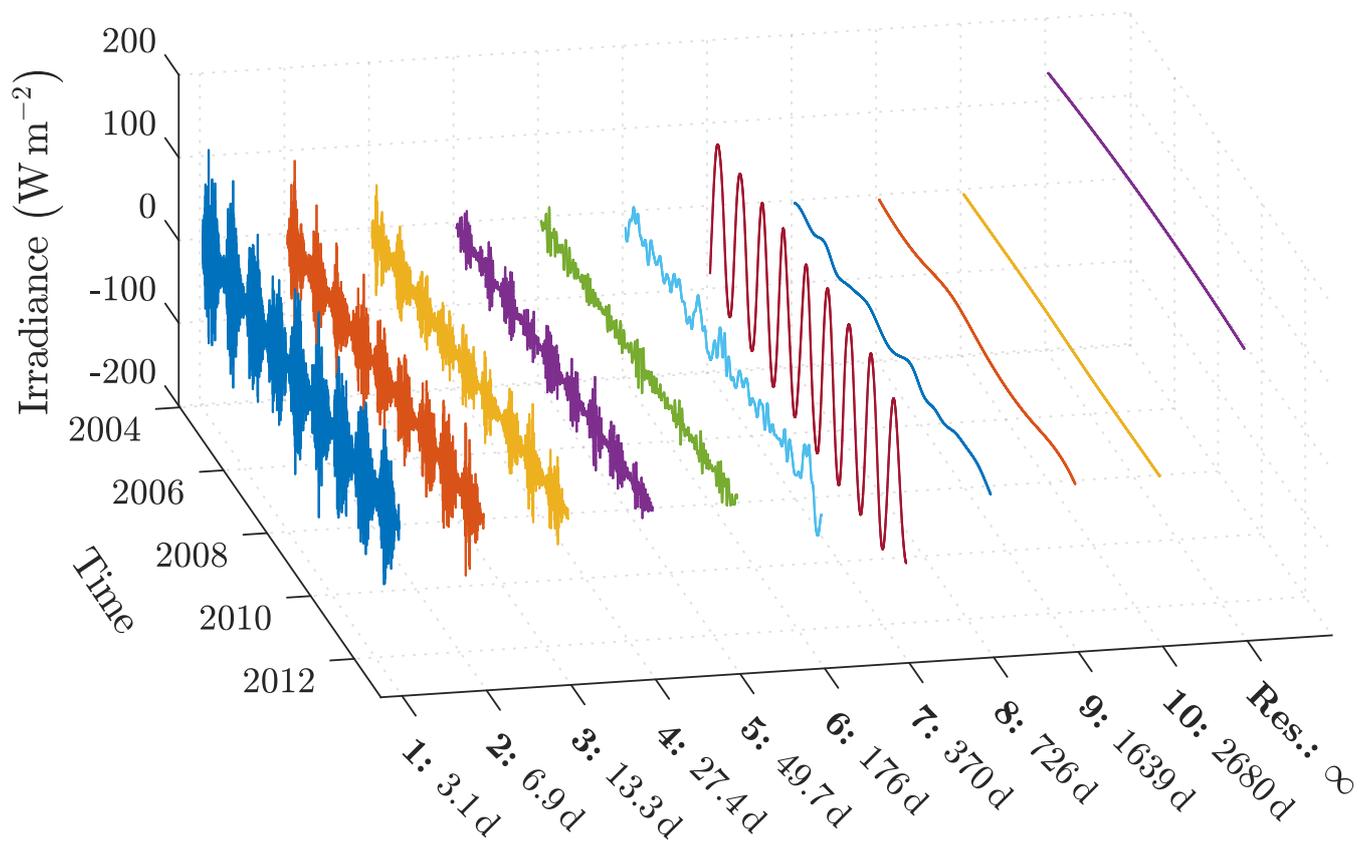


Figure S58. IMFs KIV HC3v5

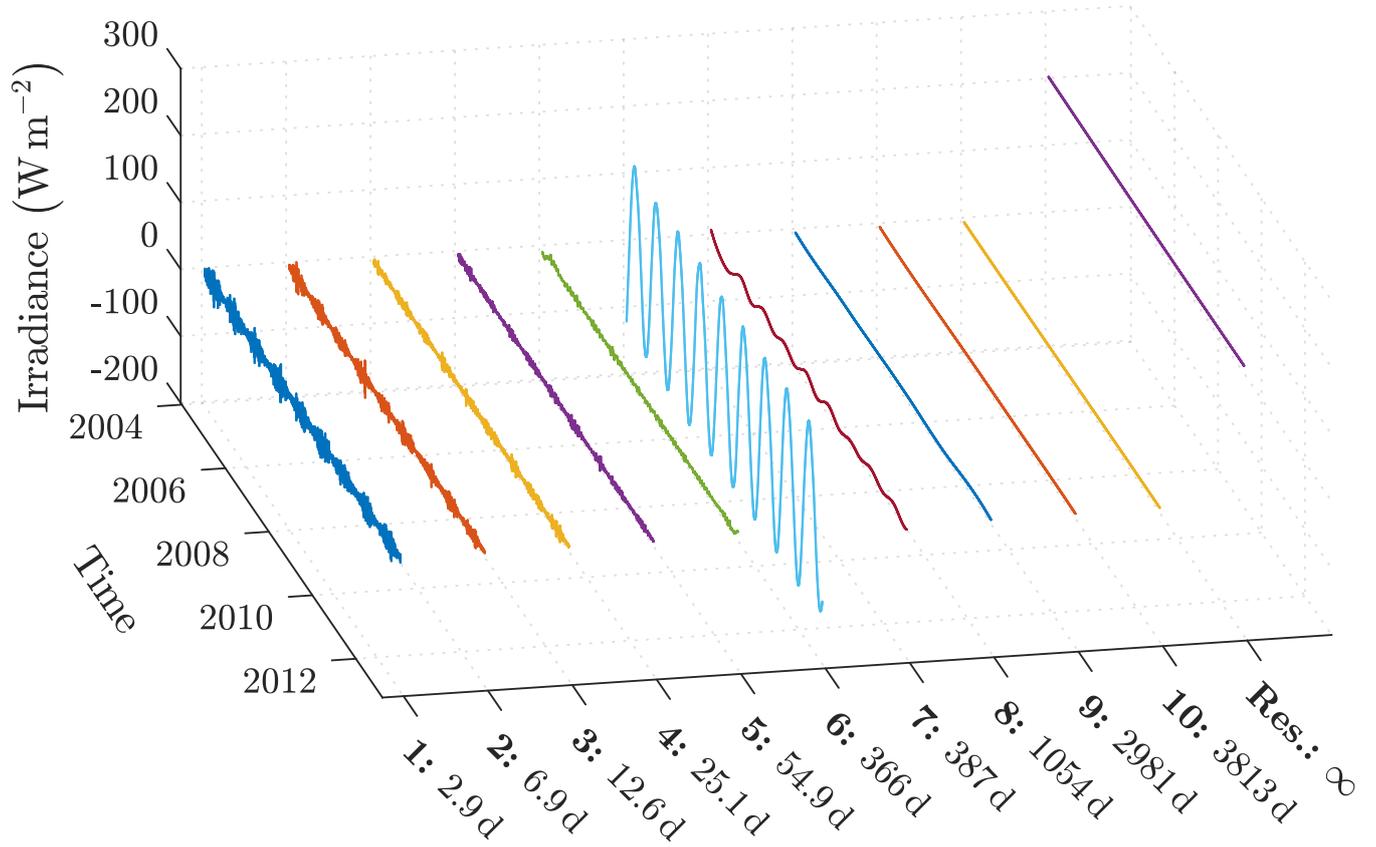


Figure S59. IMFs KIV McClear

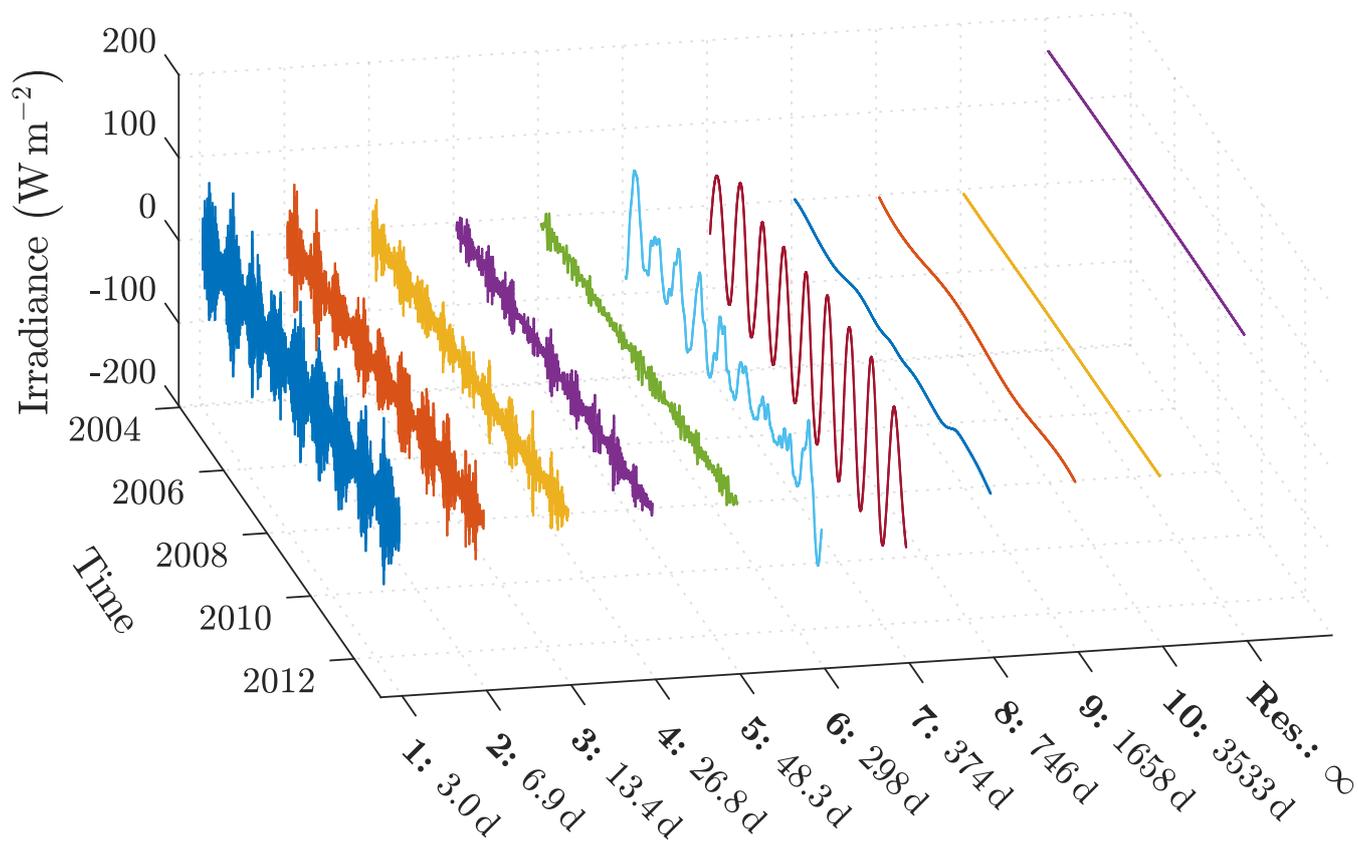


Figure S60. IMFs KIV MERRA2

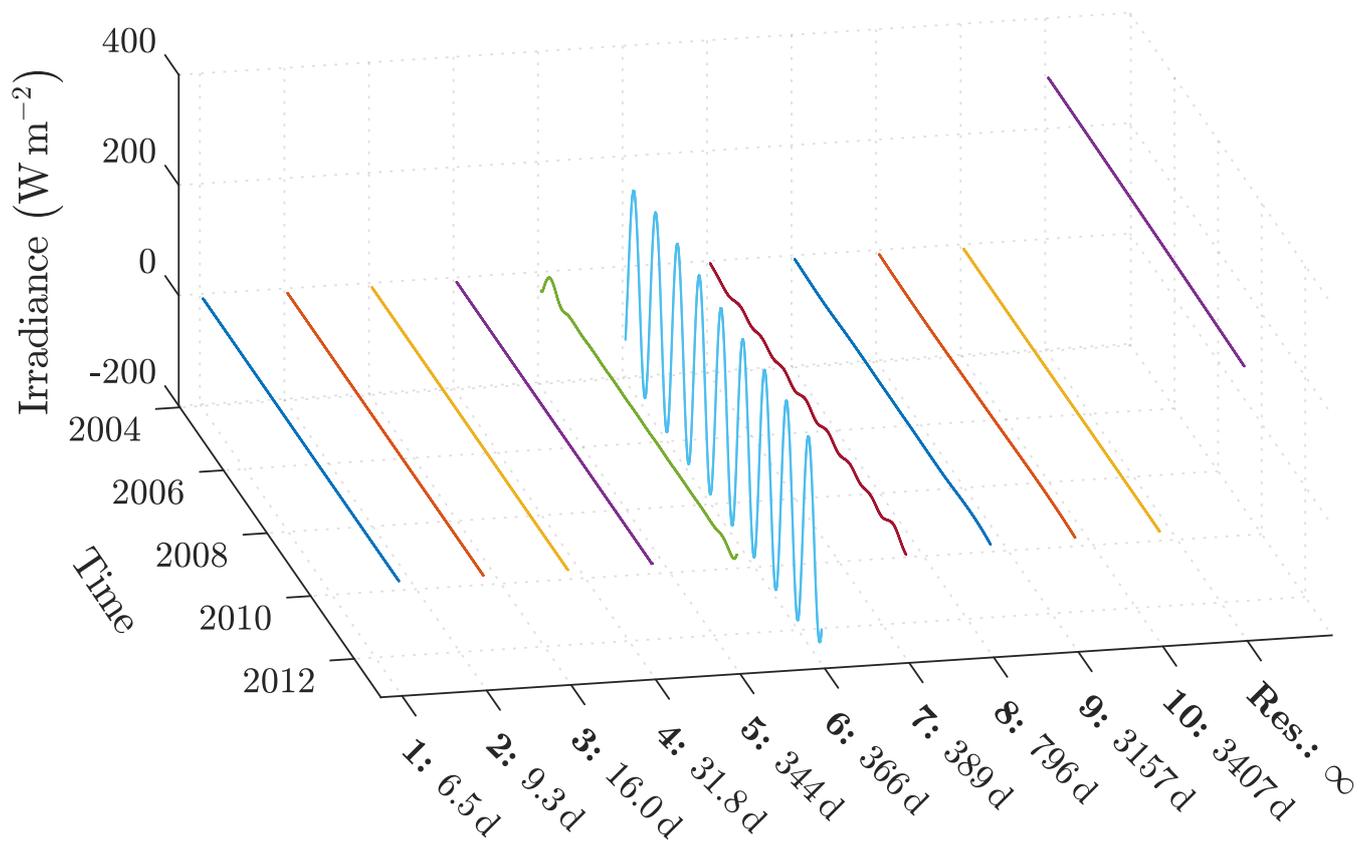


Figure S61. IMFs KIV TOA

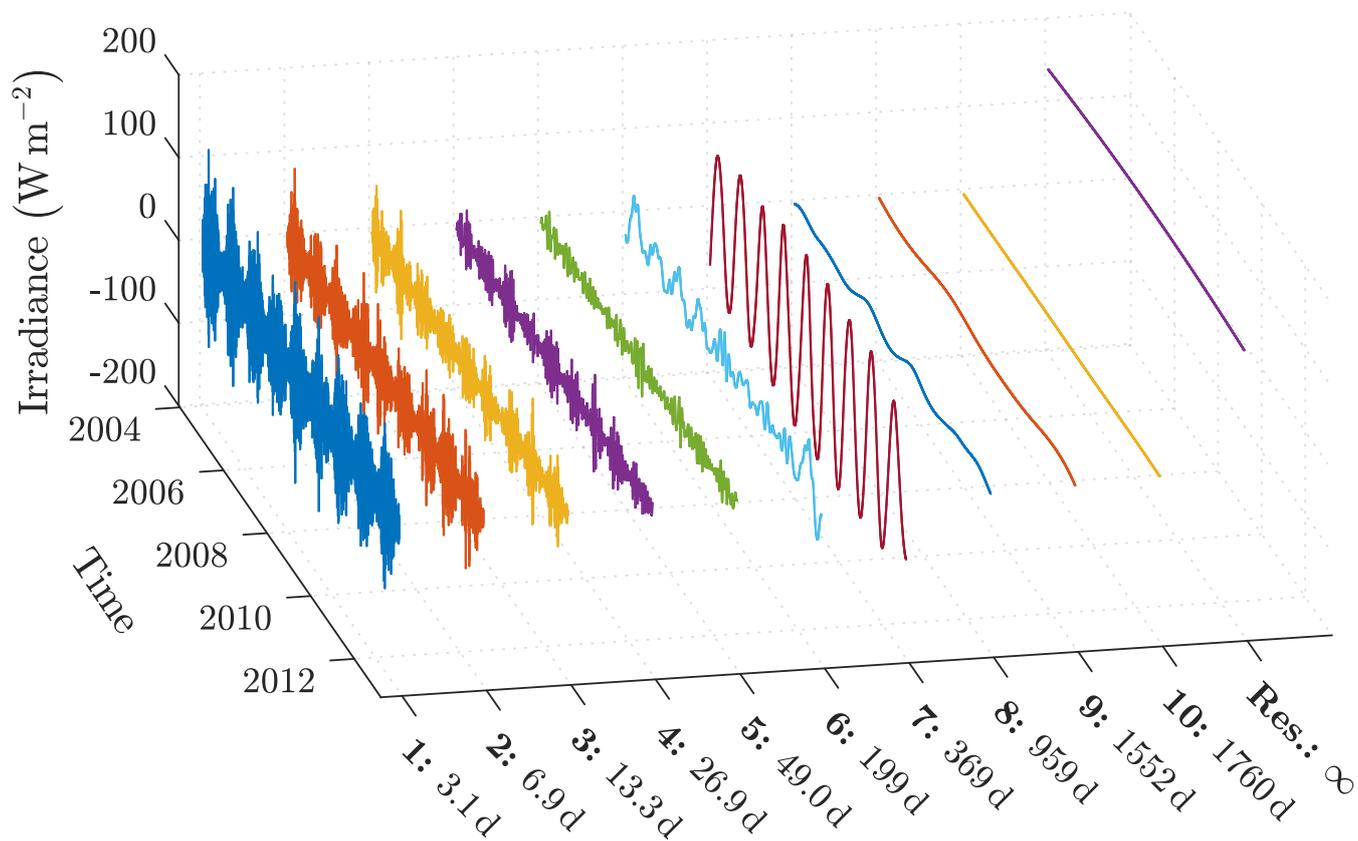


Figure S62. IMFs KIV WRDC

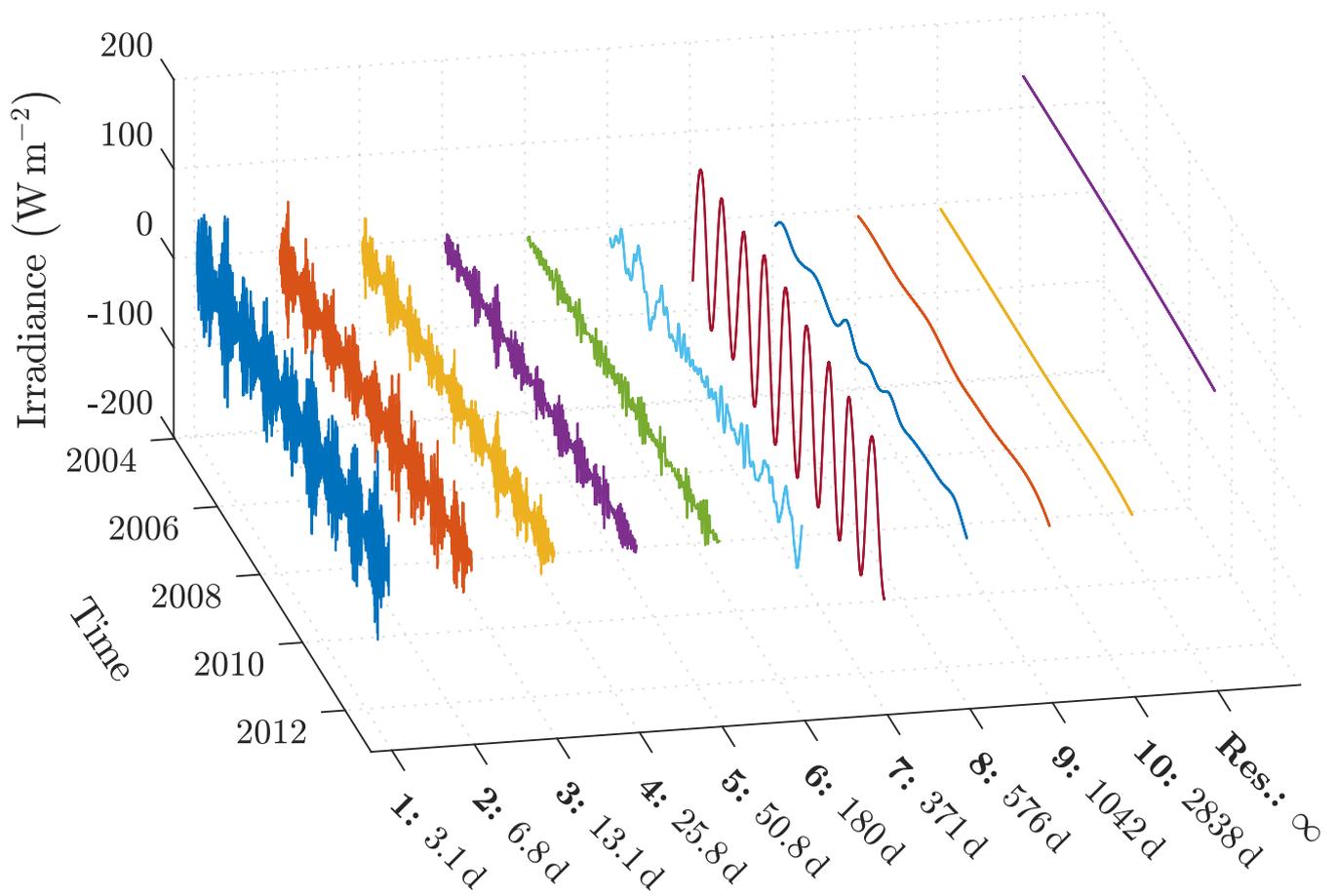


Figure S63. IMFs VIE ERA

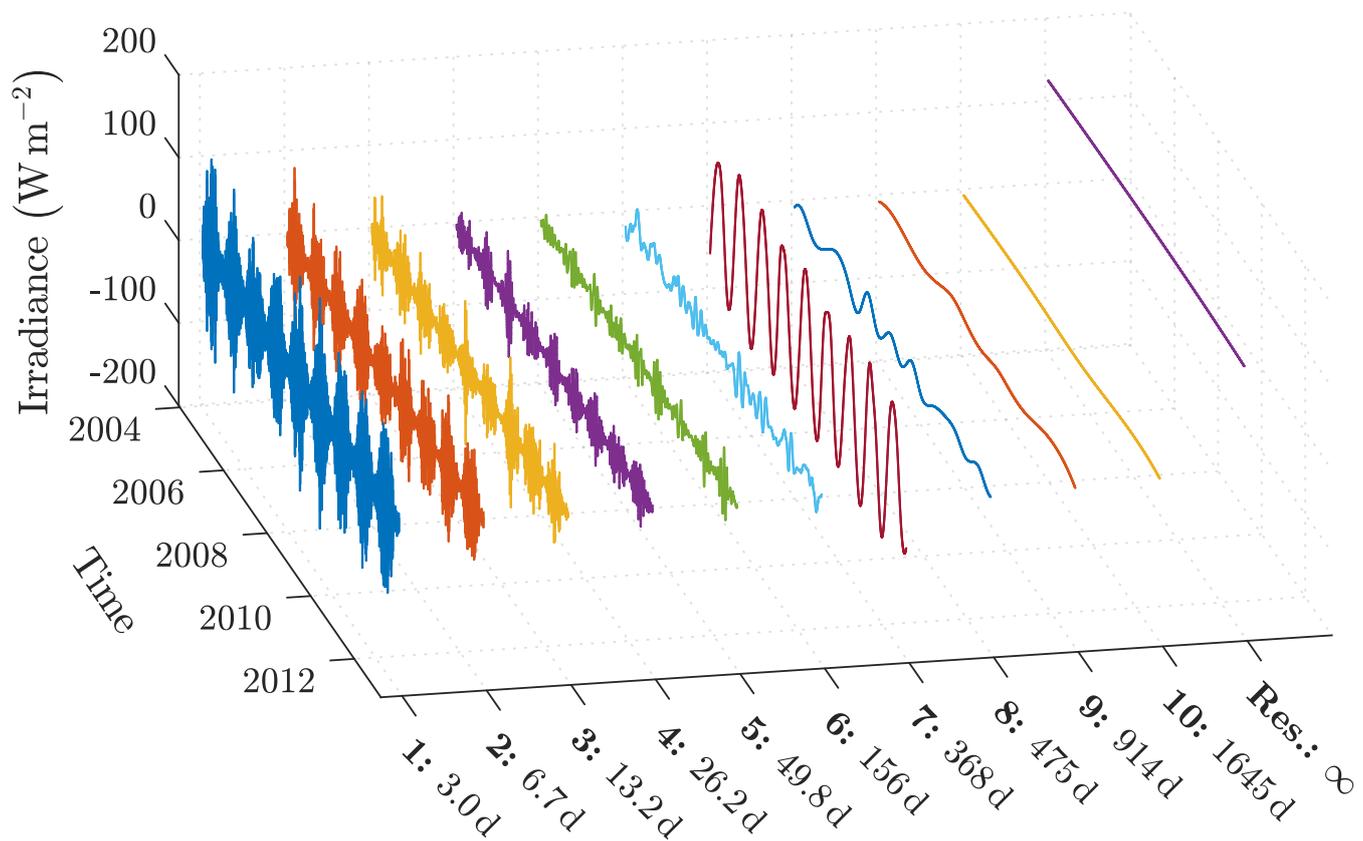


Figure S64. IMFs VIE HC3v5

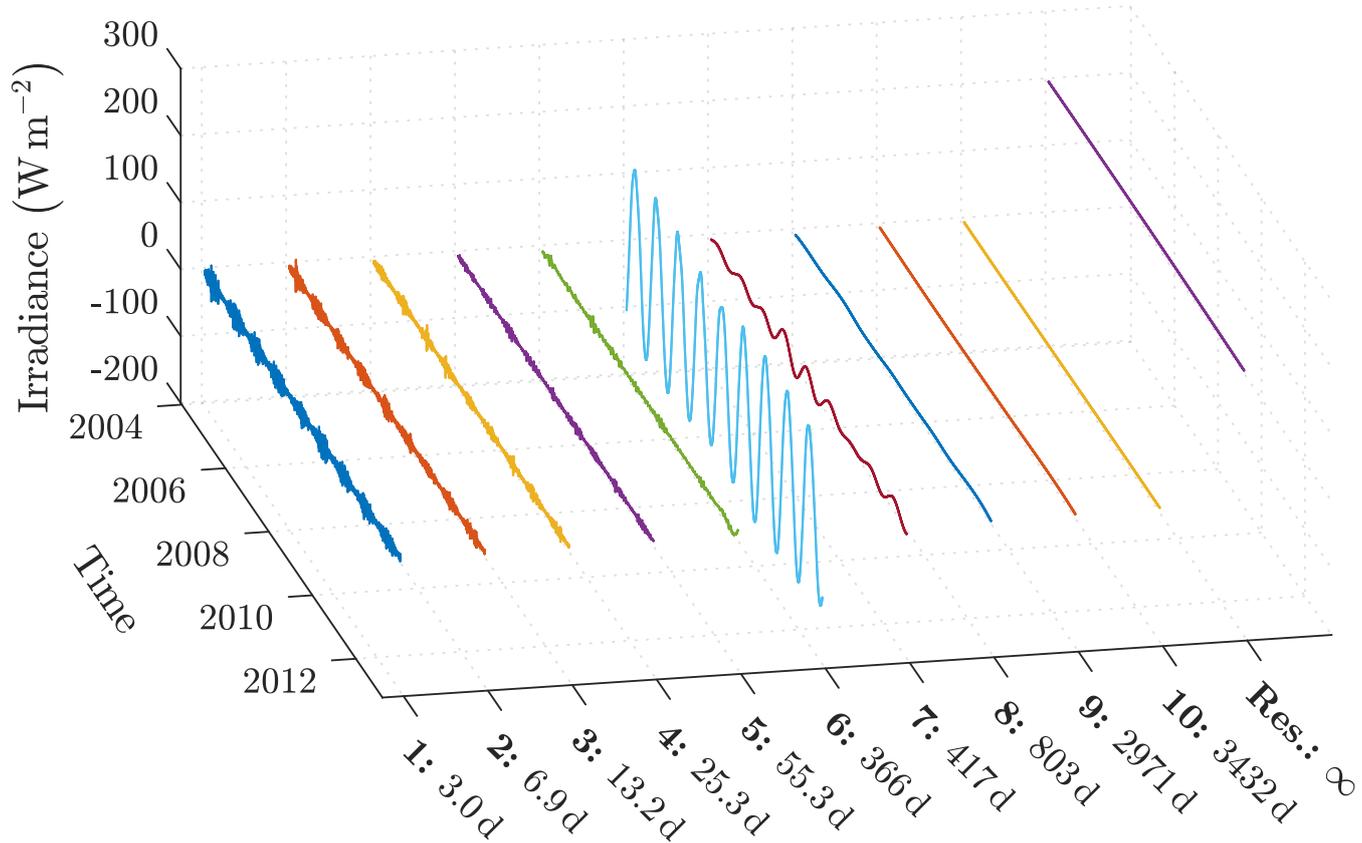


Figure S65. IMFs VIE McClear

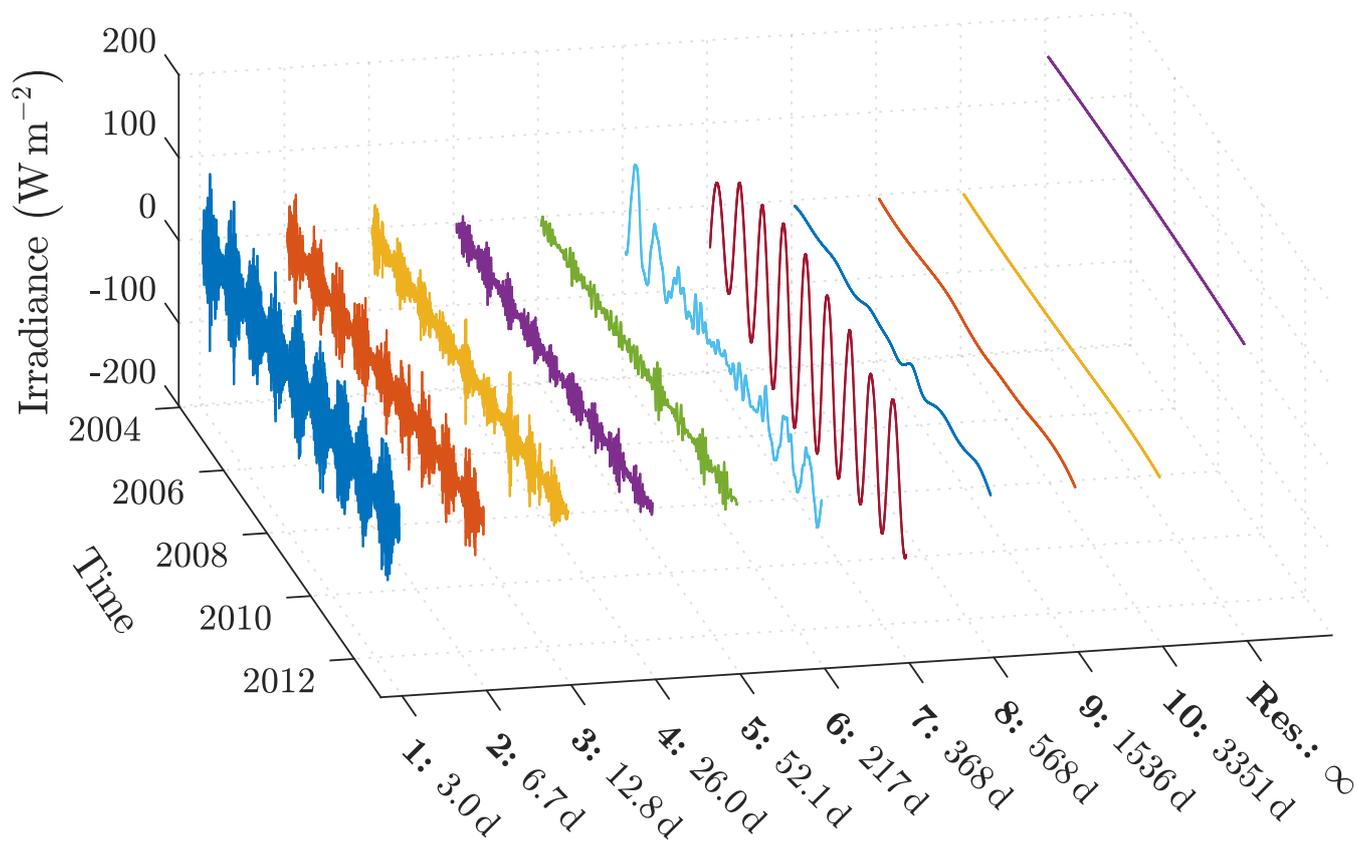


Figure S66. IMFs VIE MERRA2

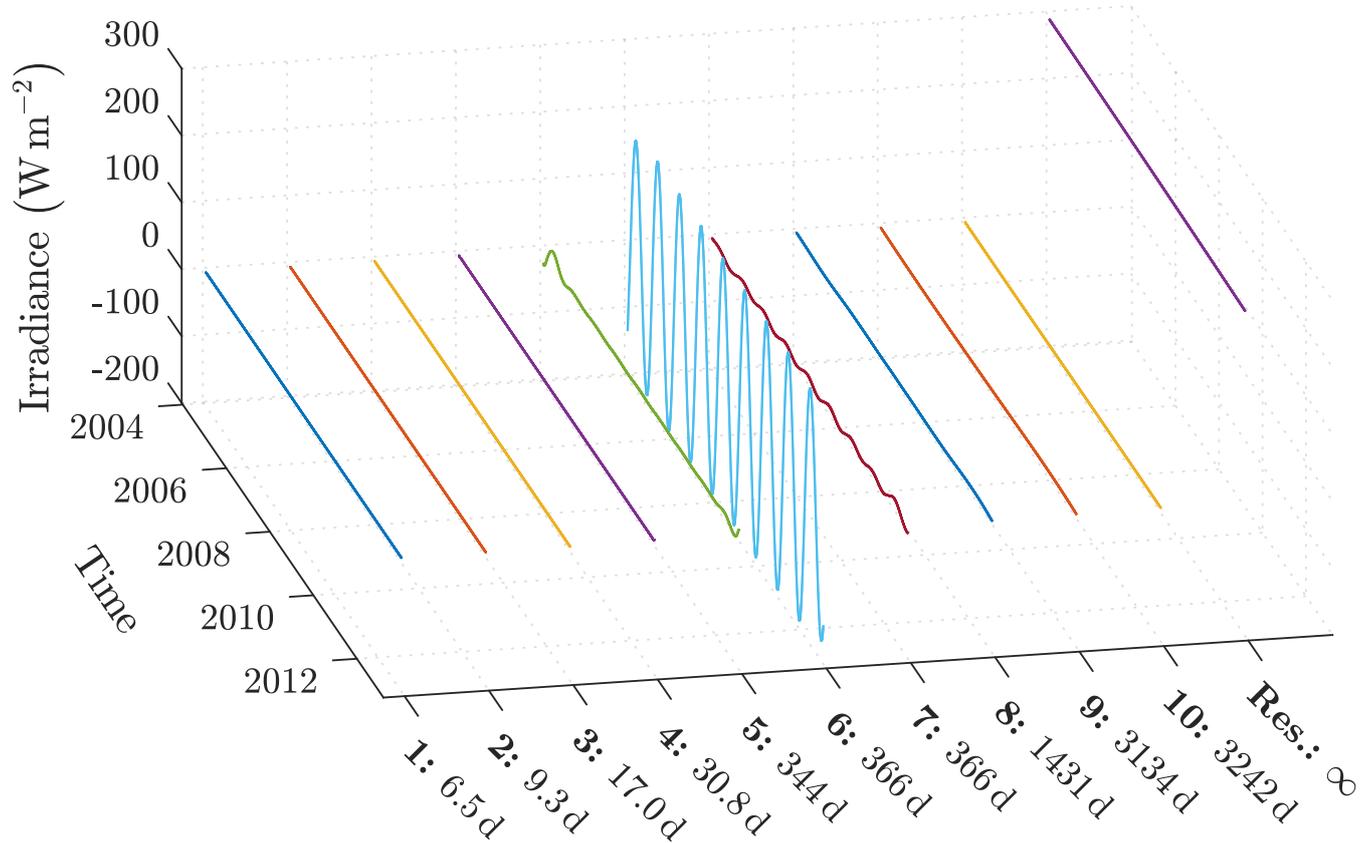


Figure S67. IMFs VIE TOA

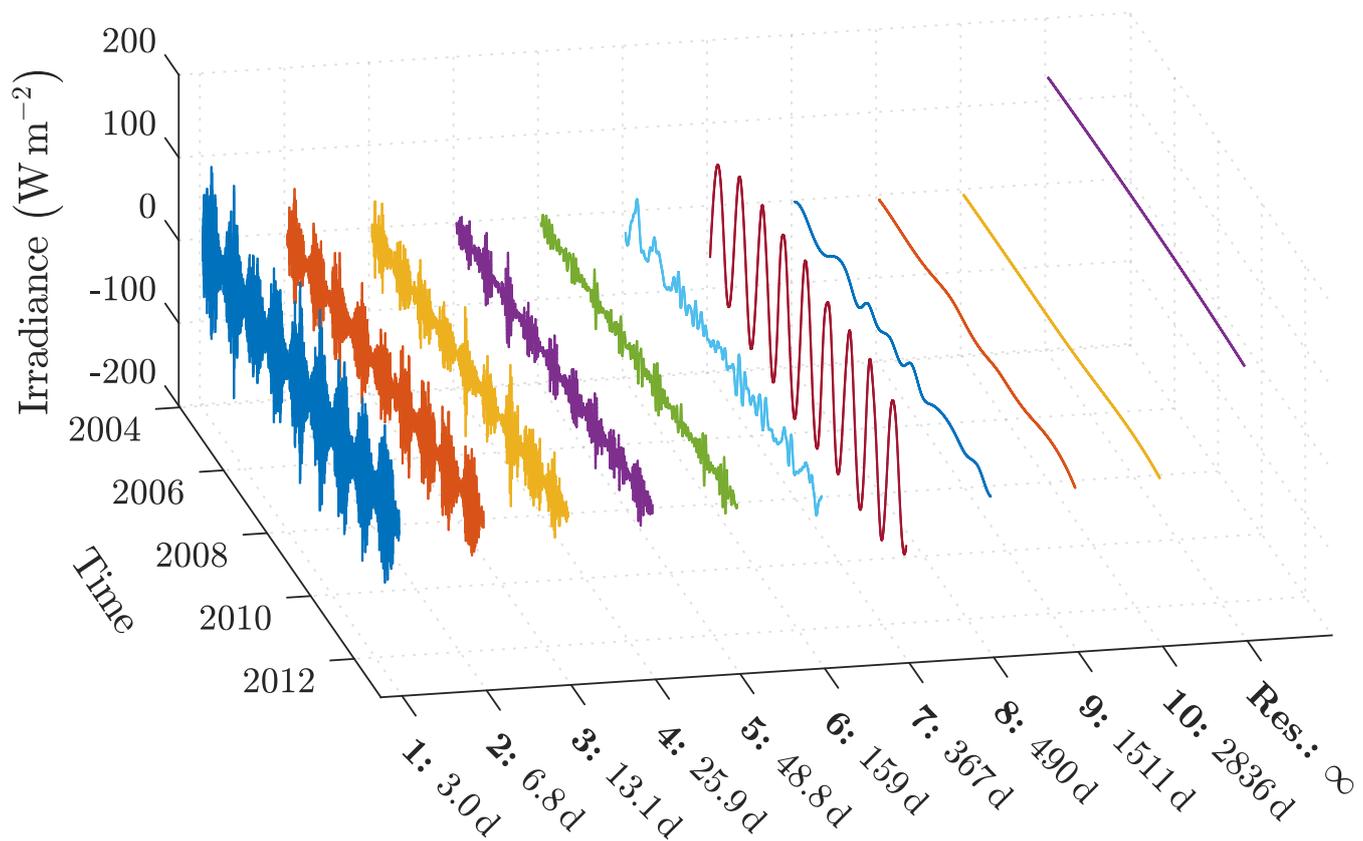


Figure S68. IMFs VIE WRDC

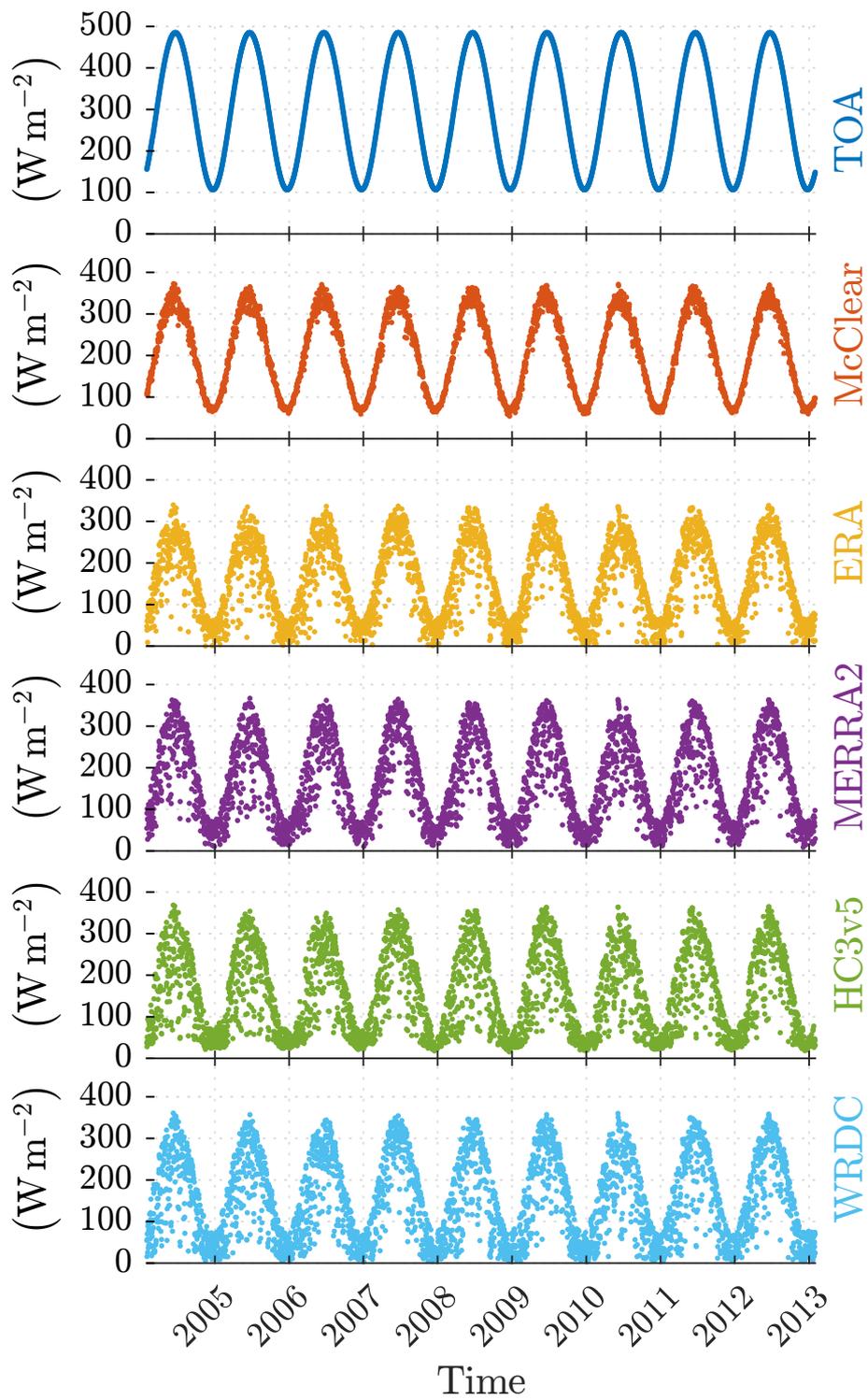


Figure S69. KIV raw data

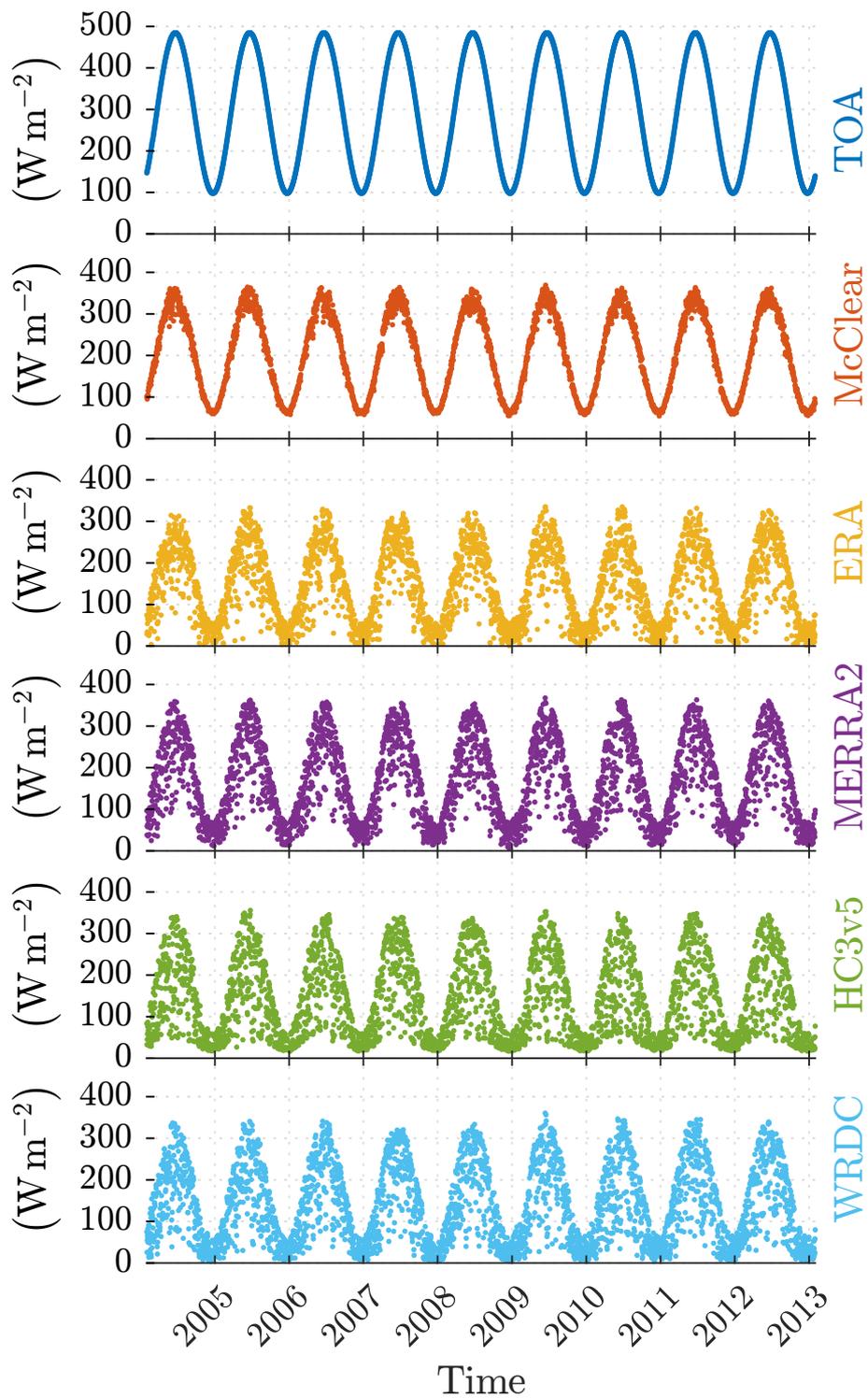


Figure S70. VIE raw data