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Supplement of

Local stratopause temperature variabilities and their embedding in the global context

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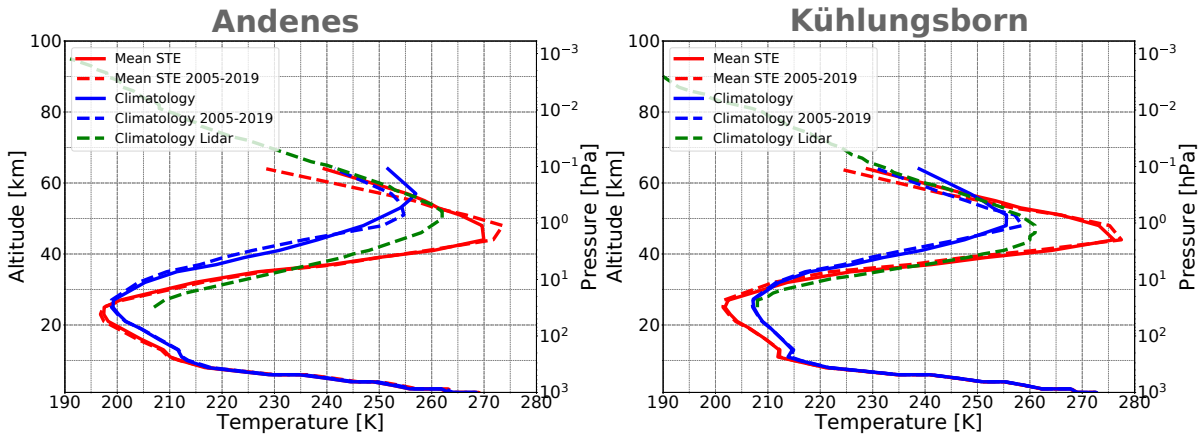
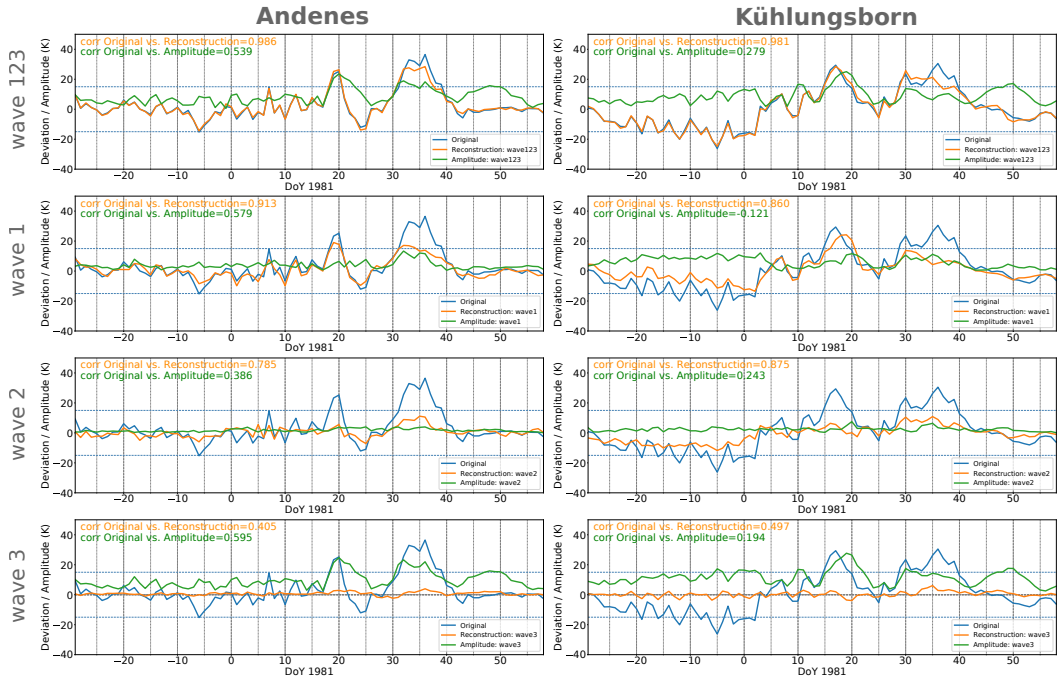


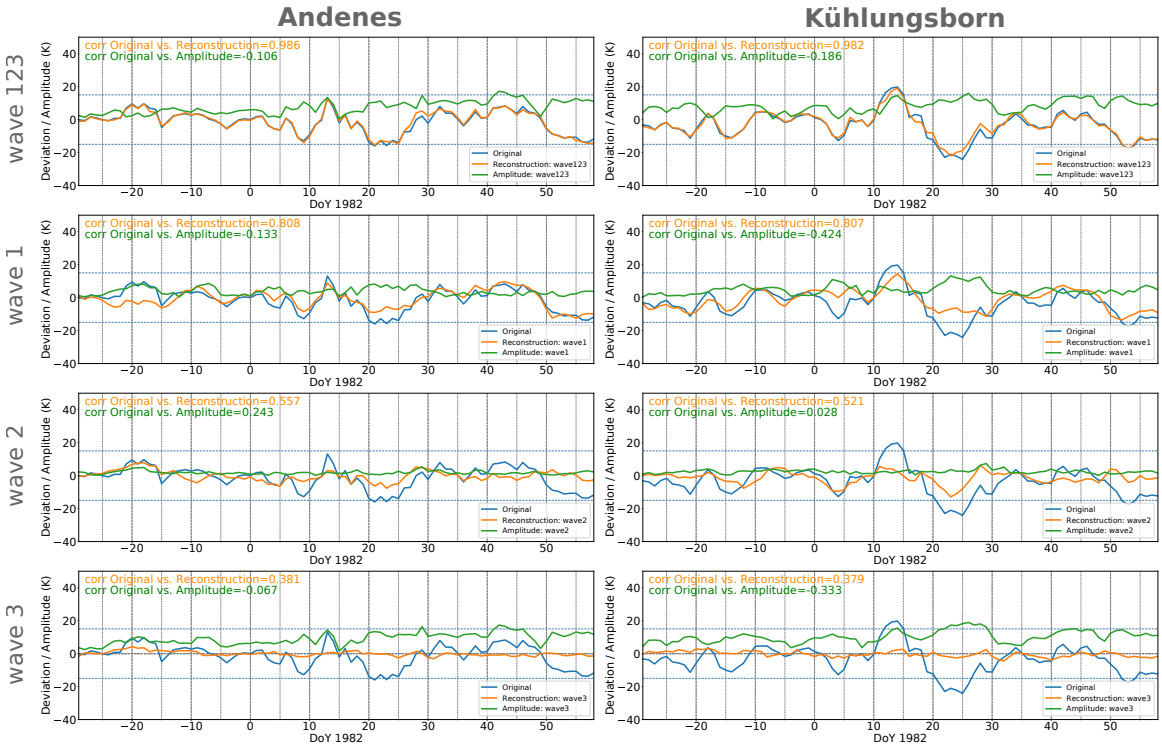
Figure S 1: Vertical profiles of the climatologies (blue) based on the whole MERRA-2 data set (solid) and on the period starting with winter 2004/05 (dashed) as well as the mean STE profiles (red) again based on the whole MERRA-2 data set (solid) and on the period starting with winter 2004/05 (dashed). The green dashed line represents the lidar climatology.

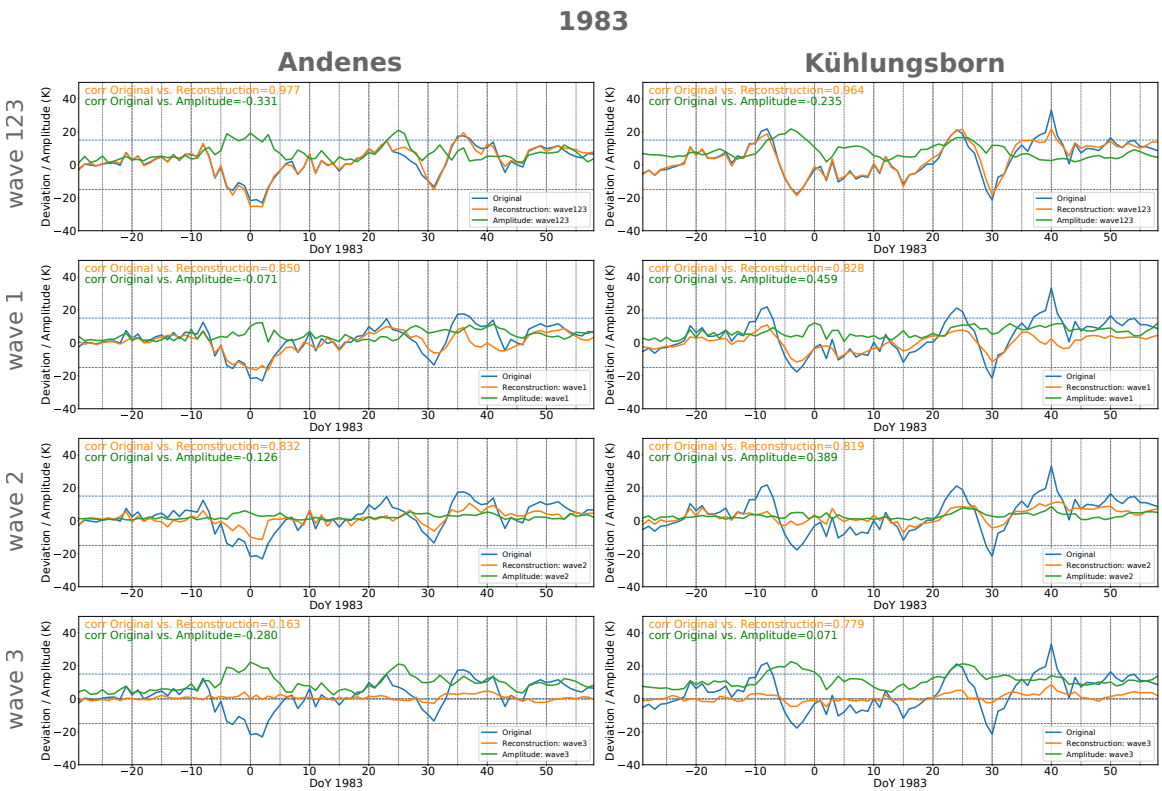
The following figures are similar to Figure 4 in the paper but for all available winter between 1981 and 2019.

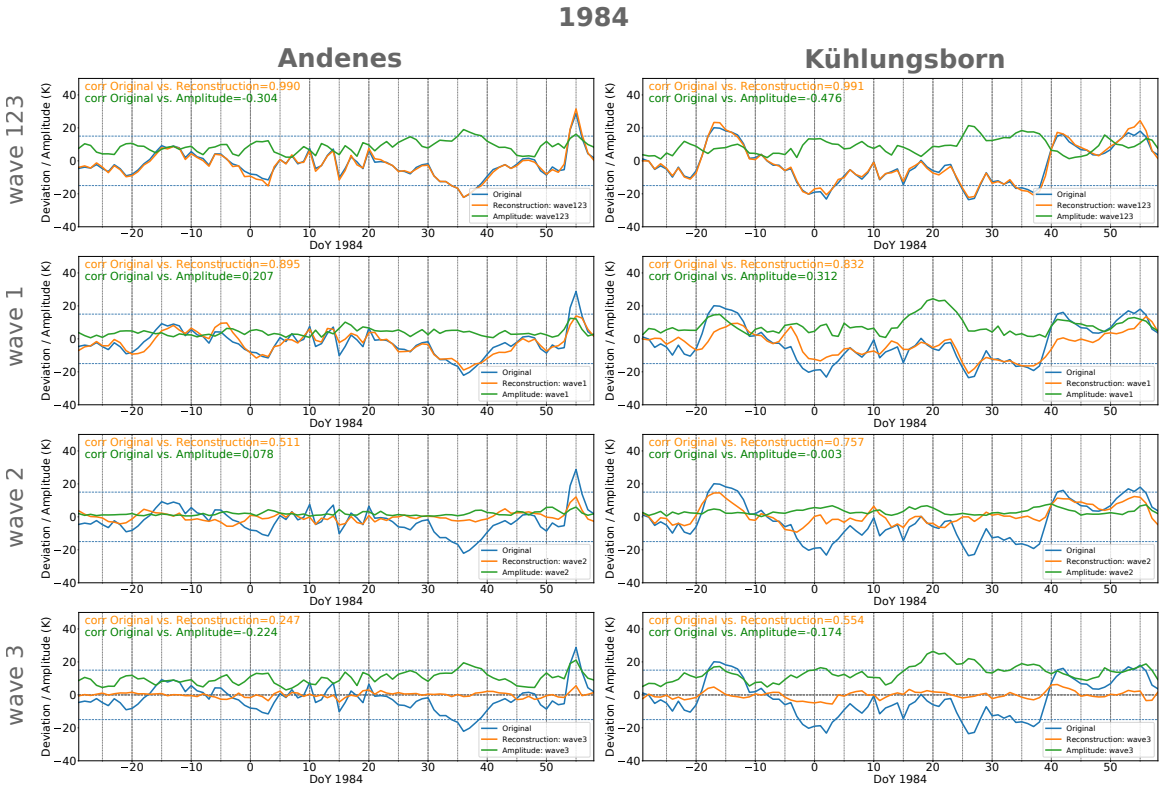
1981

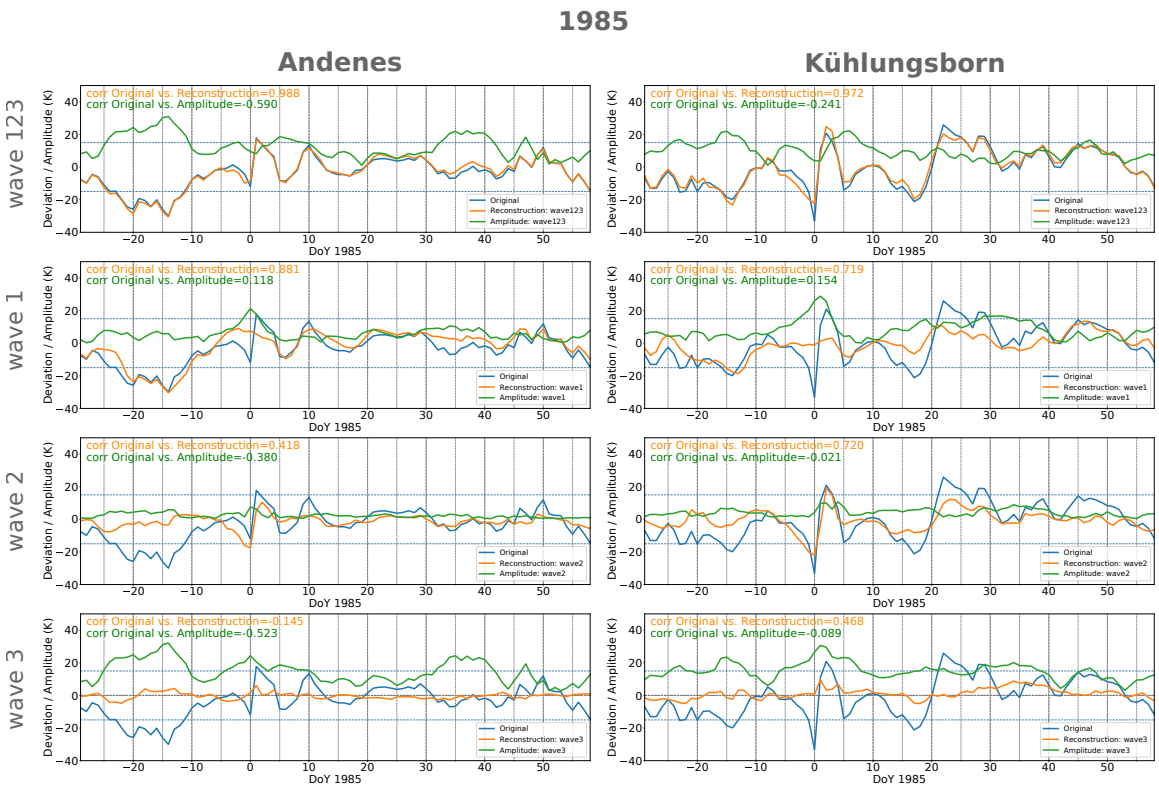

Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.986
corr Original vs. Amplitude=0.539
corr Original vs. Reconstruction=0.981
corr Original vs. Amplitude=0.279
corr Original vs. Reconstruction=0.913
corr Original vs. Amplitude=0.579
corr Original vs. Reconstruction=0.860
corr Original vs. Amplitude=-0.121
corr Original vs. Reconstruction=0.785
corr Original vs. Amplitude=0.386
corr Original vs. Reconstruction=0.875
corr Original vs. Amplitude=0.243
corr Original vs. Reconstruction=0.405
corr Original vs. Amplitude=0.595
corr Original vs. Reconstruction=0.497
corr Original vs. Amplitude=0.194
Deviation / Amplitude (K)
DoY 1981
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

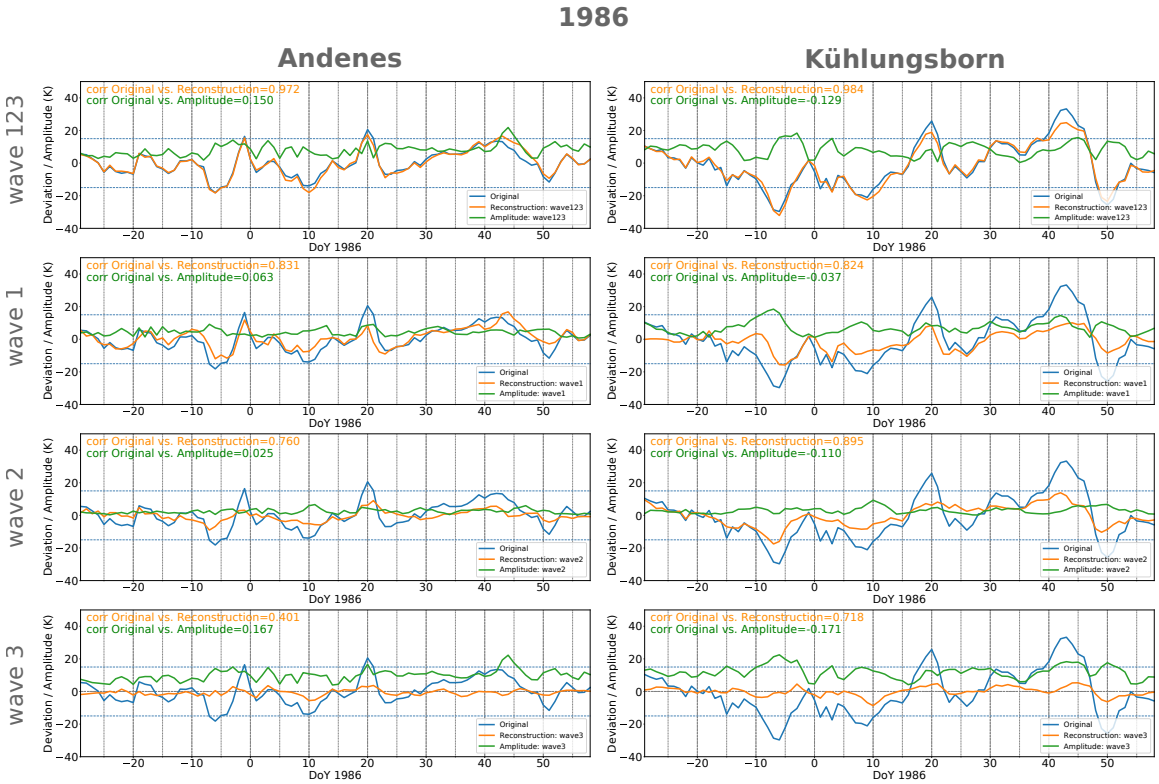
1982

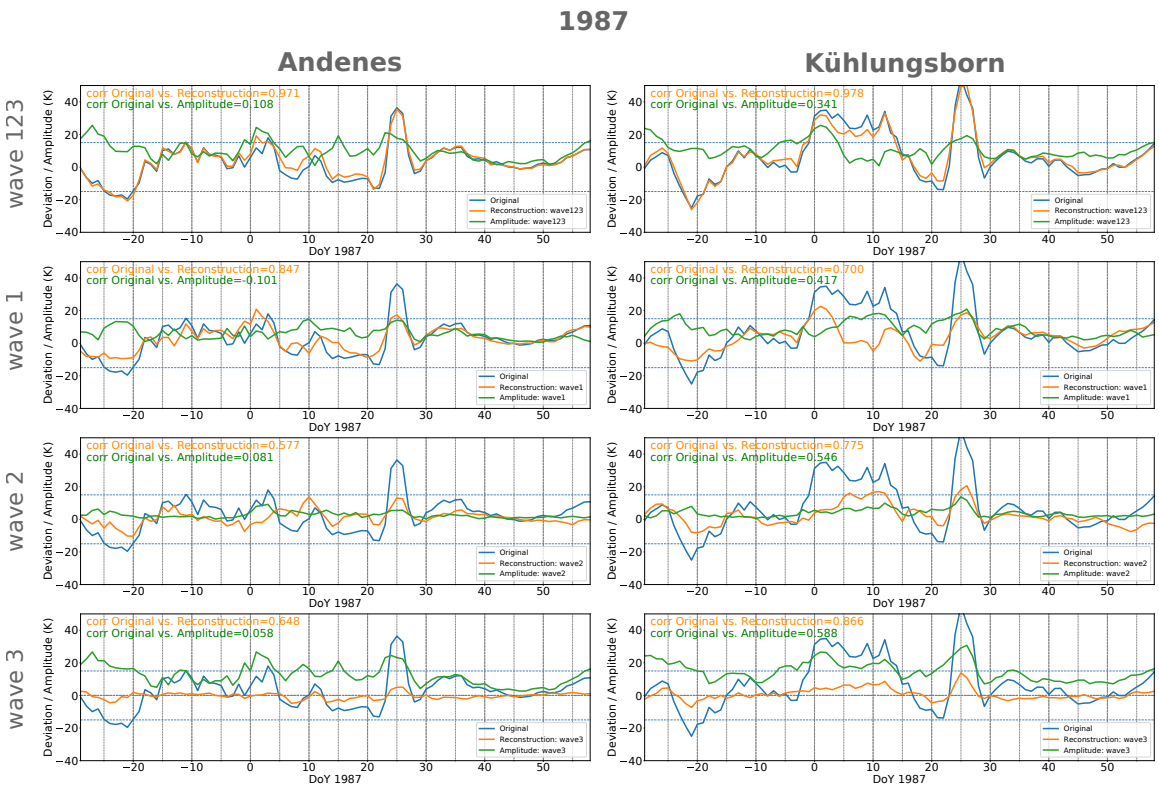

Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.986
corr Original vs. Amplitude=-0.106
corr Original vs. Reconstruction=0.982
corr Original vs. Amplitude=-0.186
corr Original vs. Reconstruction=0.808
corr Original vs. Amplitude=-0.133
corr Original vs. Reconstruction=0.807
corr Original vs. Amplitude=-0.424
corr Original vs. Reconstruction=0.557
corr Original vs. Amplitude=0.243
corr Original vs. Reconstruction=0.521
corr Original vs. Amplitude=0.028
corr Original vs. Reconstruction=0.381
corr Original vs. Amplitude=-0.067
corr Original vs. Reconstruction=0.379
corr Original vs. Amplitude=-0.333
Deviation / Amplitude (K)
DoY 1982
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

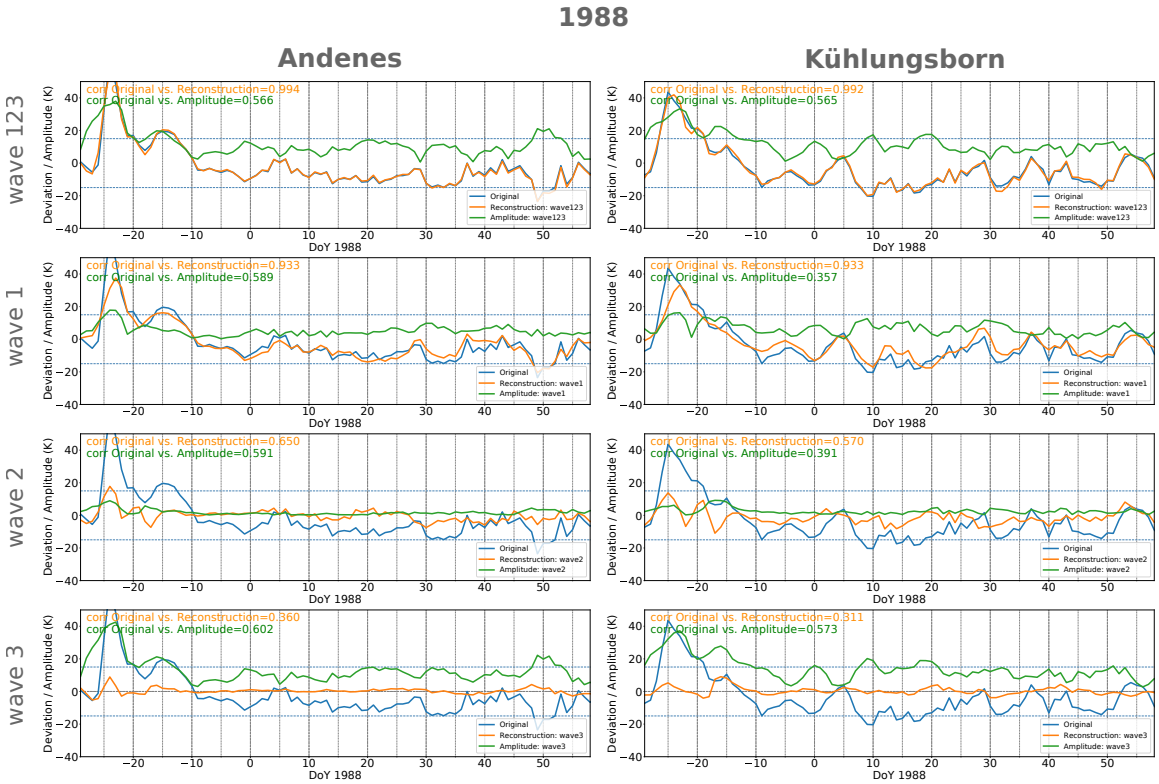

1983
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.977
corr Original vs. Amplitude=-0.331
corr Original vs. Reconstruction=0.964
corr Original vs. Amplitude=-0.235
corr Original vs. Reconstruction=0.850
corr Original vs. Amplitude=-0.071
corr Original vs. Reconstruction=0.828
corr Original vs. Amplitude=0.459
corr Original vs. Reconstruction=0.832
corr Original vs. Amplitude=-0.126
corr Original vs. Reconstruction=0.819
corr Original vs. Amplitude=0.389
corr Original vs. Reconstruction=0.163
corr Original vs. Amplitude=-0.280
corr Original vs. Reconstruction=0.779
corr Original vs. Amplitude=0.071
Deviation / Amplitude (K)
DoY 1983
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

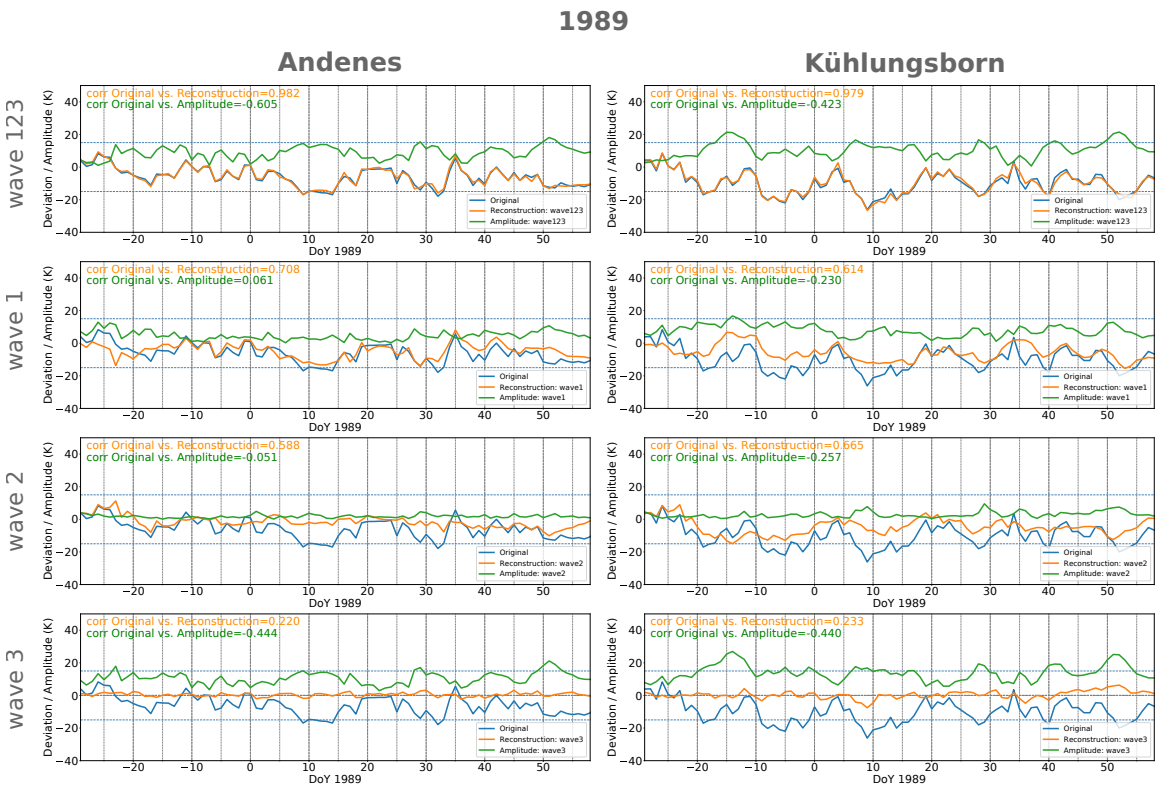

1984
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.990
corr Original vs. Amplitude=-0.304
corr Original vs. Reconstruction=0.991
corr Original vs. Amplitude=-0.476
corr Original vs. Reconstruction=0.895
corr Original vs. Amplitude=0.207
corr Original vs. Reconstruction=0.832
corr Original vs. Amplitude=0.312
corr Original vs. Reconstruction=0.511
corr Original vs. Amplitude=0.078
corr Original vs. Reconstruction=0.757
corr Original vs. Amplitude=-0.003
corr Original vs. Reconstruction=0.247
corr Original vs. Amplitude=-0.224
corr Original vs. Reconstruction=0.554
corr Original vs. Amplitude=-0.174
Deviation / Amplitude (K)
DoY 1984
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

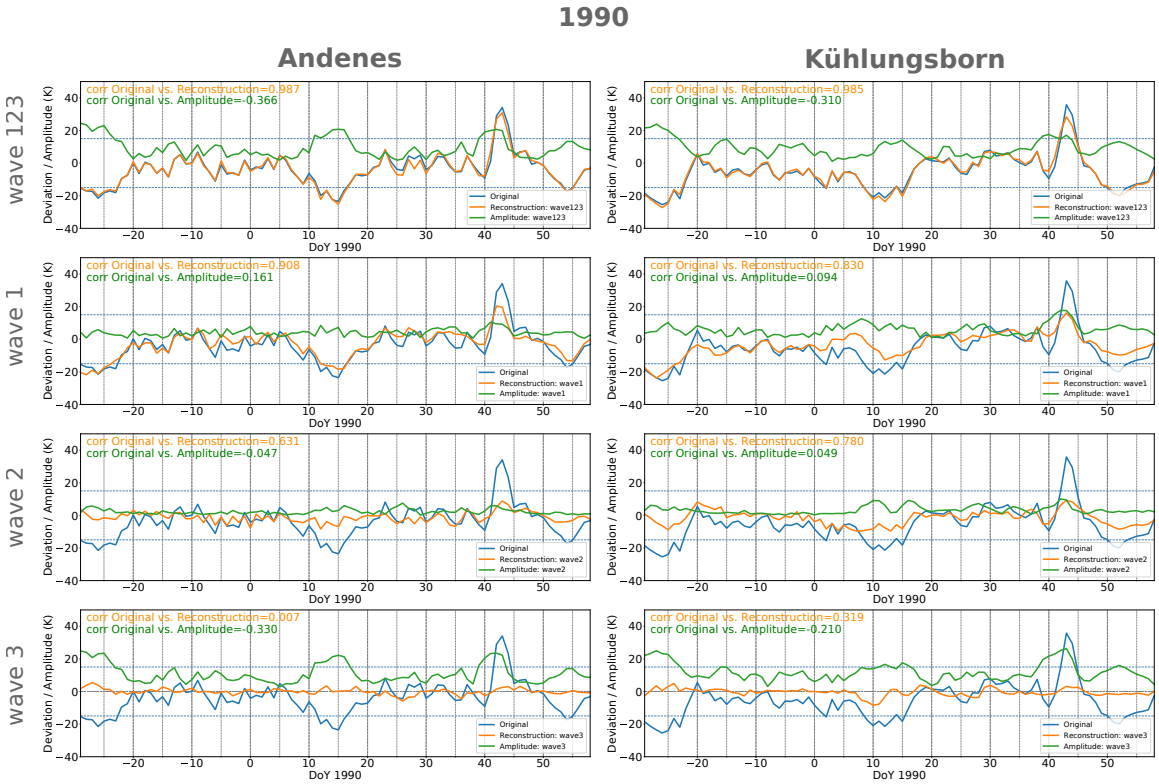

1985
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.988
corr Original vs. Amplitude=-0.590
corr Original vs. Reconstruction=0.972
corr Original vs. Amplitude=-0.241
corr Original vs. Reconstruction=0.881
corr Original vs. Amplitude=0.118
corr Original vs. Reconstruction=0.719
corr Original vs. Amplitude=0.154
corr Original vs. Reconstruction=0.418
corr Original vs. Amplitude=-0.380
corr Original vs. Reconstruction=0.720
corr Original vs. Amplitude=-0.021
corr Original vs. Reconstruction=-0.145
corr Original vs. Amplitude=-0.523
corr Original vs. Reconstruction=0.468
corr Original vs. Amplitude=-0.089
Deviation / Amplitude (K)
DoY 1985
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

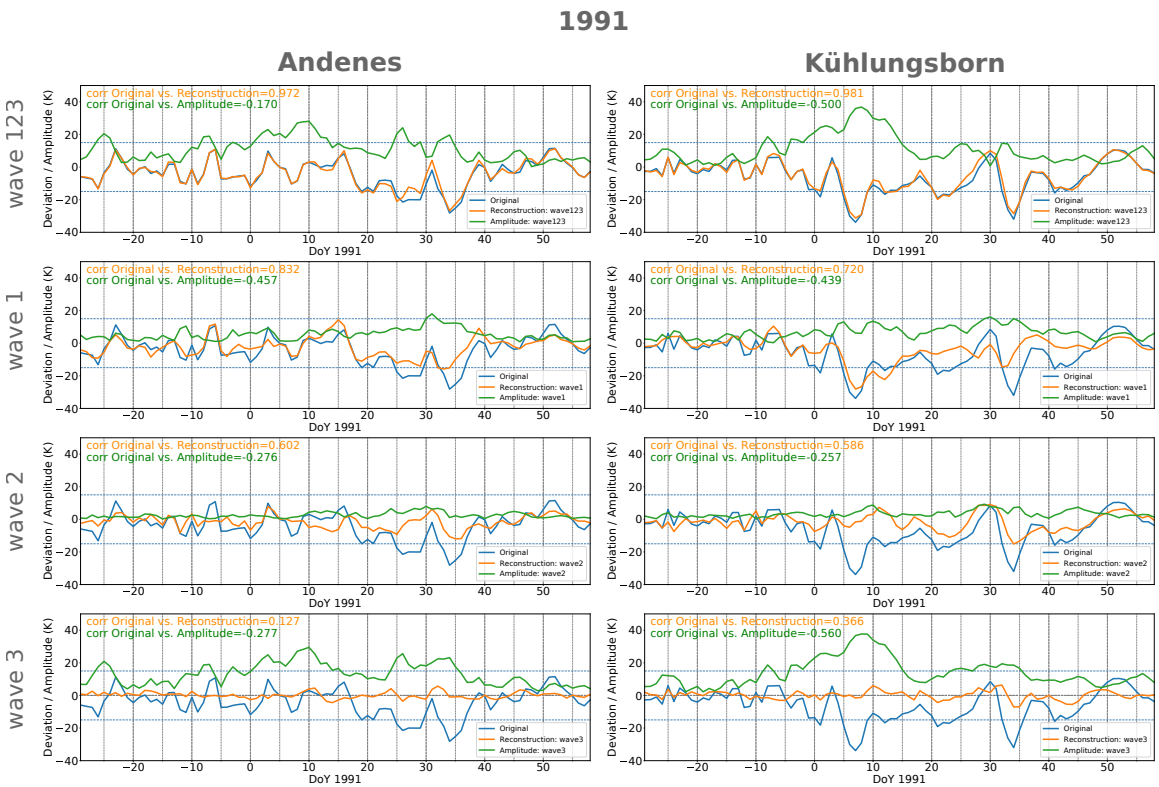

1986
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.972
corr Original vs. Amplitude=0.150
corr Original vs. Reconstruction=0.984
corr Original vs. Amplitude=-0.129
corr Original vs. Reconstruction=0.831
corr Original vs. Amplitude=0.063
corr Original vs. Reconstruction=0.824
corr Original vs. Amplitude=-0.037
corr Original vs. Reconstruction=0.760
corr Original vs. Amplitude=0.025
corr Original vs. Reconstruction=0.895
corr Original vs. Amplitude=-0.110
corr Original vs. Reconstruction=0.401
corr Original vs. Amplitude=0.167
corr Original vs. Reconstruction=0.718
corr Original vs. Amplitude=-0.171
Deviation / Amplitude (K)
DoY 1986
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

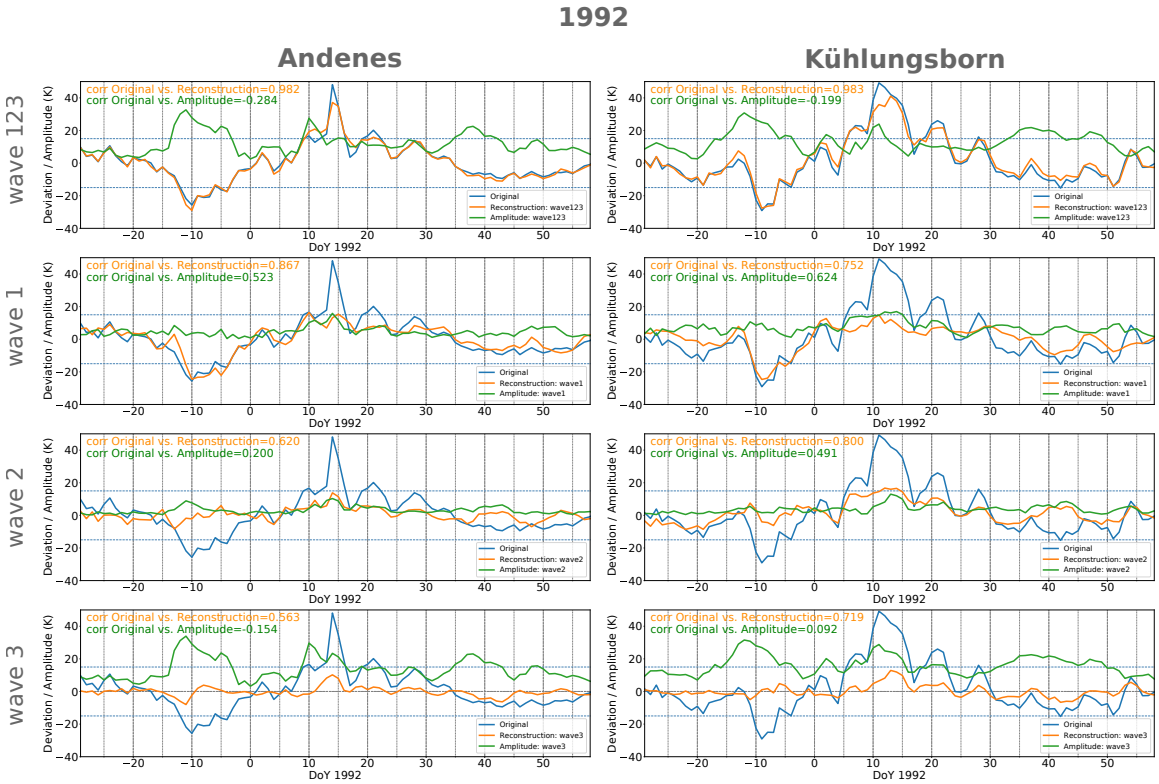

1987
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.971
corr Original vs. Amplitude=0.108
corr Original vs. Reconstruction=0.978
corr Original vs. Amplitude=0.341
corr Original vs. Reconstruction=0.847
corr Original vs. Amplitude=-0.101
corr Original vs. Reconstruction=0.700
corr Original vs. Amplitude=0.417
corr Original vs. Reconstruction=0.577
corr Original vs. Amplitude=0.081
corr Original vs. Reconstruction=0.775
corr Original vs. Amplitude=0.546
corr Original vs. Reconstruction=0.648
corr Original vs. Amplitude=0.058
corr Original vs. Reconstruction=0.866
corr Original vs. Amplitude=0.588
Deviation / Amplitude (K)
DoY 1987
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

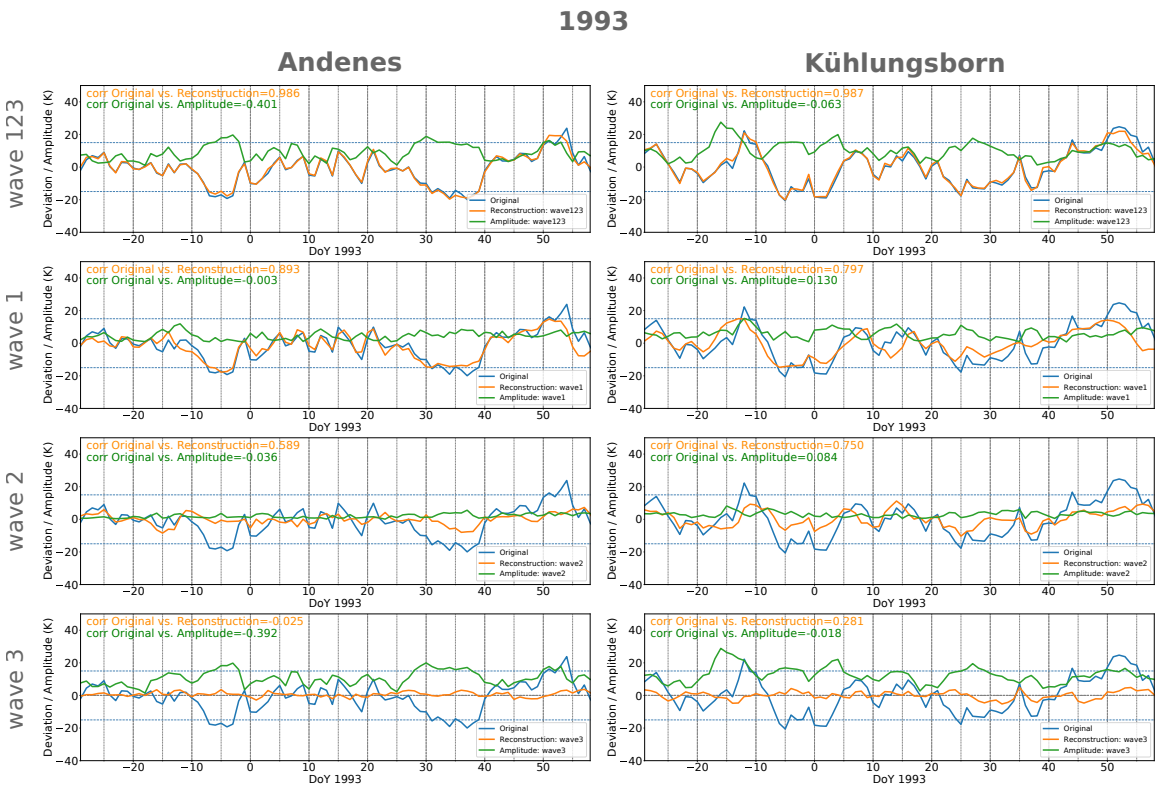

1988
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.994
corr Original vs. Amplitude=0.566
corr Original vs. Reconstruction=0.992
corr Original vs. Amplitude=0.565
corr Original vs. Reconstruction=0.933
corr Original vs. Amplitude=0.589
corr Original vs. Reconstruction=0.933
corr Original vs. Amplitude=0.357
corr Original vs. Reconstruction=0.650
corr Original vs. Amplitude=0.591
corr Original vs. Reconstruction=0.570
corr Original vs. Amplitude=0.391
corr Original vs. Reconstruction=0.360
corr Original vs. Amplitude=0.602
corr Original vs. Reconstruction=0.311
corr Original vs. Amplitude=0.573
Deviation / Amplitude (K)
DoY 1988
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

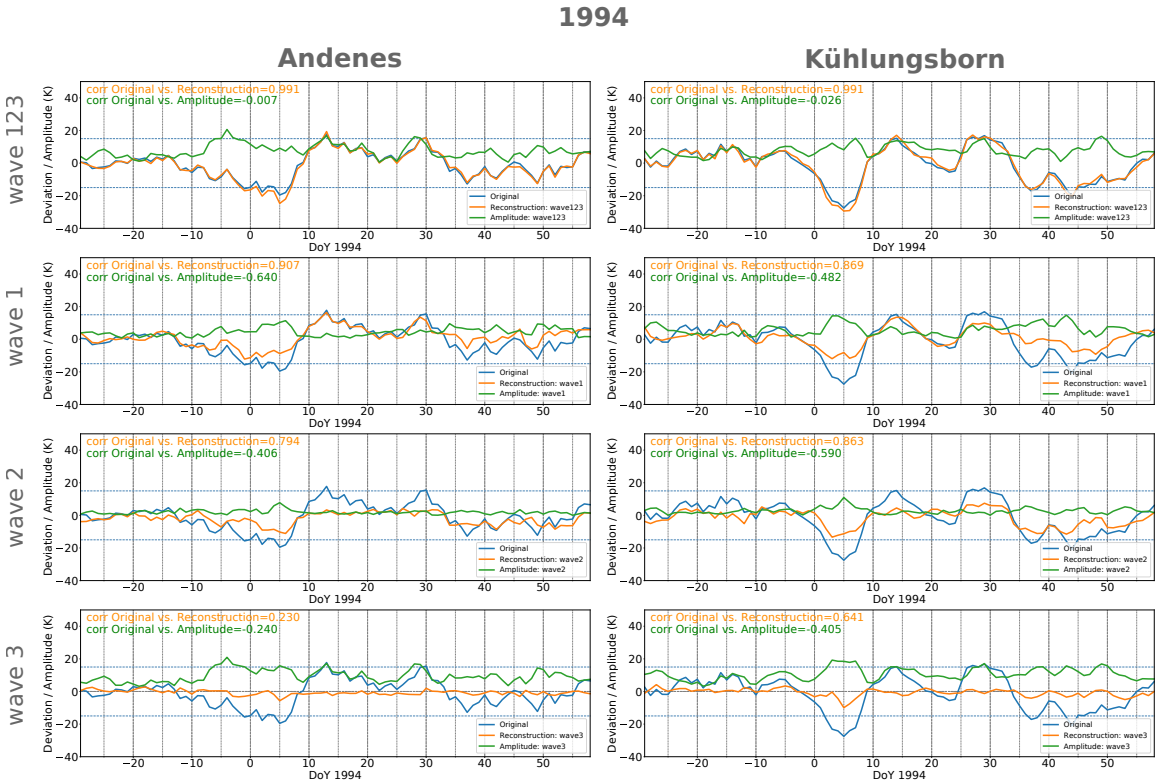

1989
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.982
corr Original vs. Amplitude=-0.605
corr Original vs. Reconstruction=0.979
corr Original vs. Amplitude=-0.423
corr Original vs. Reconstruction=0.708
corr Original vs. Amplitude=0.061
corr Original vs. Reconstruction=0.614
corr Original vs. Amplitude=-0.230
corr Original vs. Reconstruction=0.588
corr Original vs. Amplitude=-0.051
corr Original vs. Reconstruction=0.665
corr Original vs. Amplitude=-0.257
corr Original vs. Reconstruction=0.220
corr Original vs. Amplitude=-0.444
corr Original vs. Reconstruction=0.233
corr Original vs. Amplitude=-0.440
Deviation / Amplitude (K)
DoY 1989
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

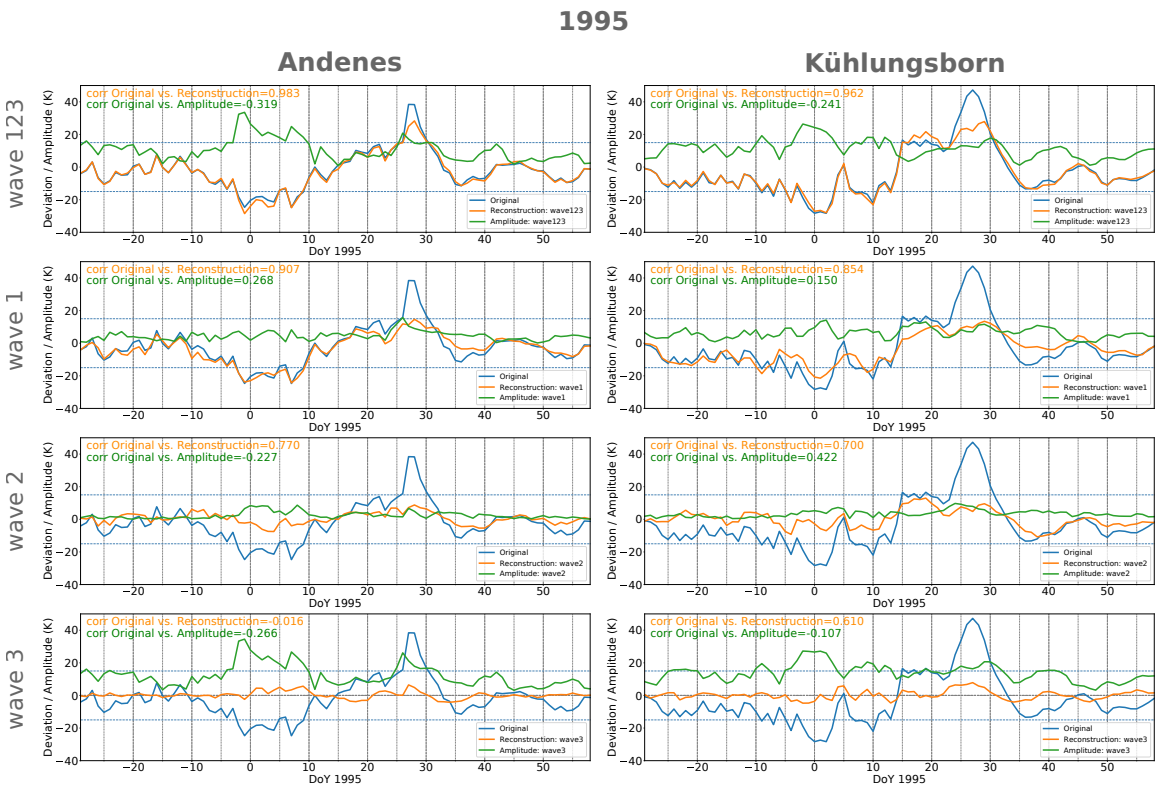

1990
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.987
corr Original vs. Amplitude=-0.366
corr Original vs. Reconstruction=0.985
corr Original vs. Amplitude=-0.310
corr Original vs. Reconstruction=0.908
corr Original vs. Amplitude=0.161
corr Original vs. Reconstruction=0.830
corr Original vs. Amplitude=0.094
corr Original vs. Reconstruction=0.631
corr Original vs. Amplitude=-0.047
corr Original vs. Reconstruction=0.780
corr Original vs. Amplitude=0.049
corr Original vs. Reconstruction=0.007
corr Original vs. Amplitude=-0.330
corr Original vs. Reconstruction=0.319
corr Original vs. Amplitude=-0.210
Deviation / Amplitude (K)
DoY 1990
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

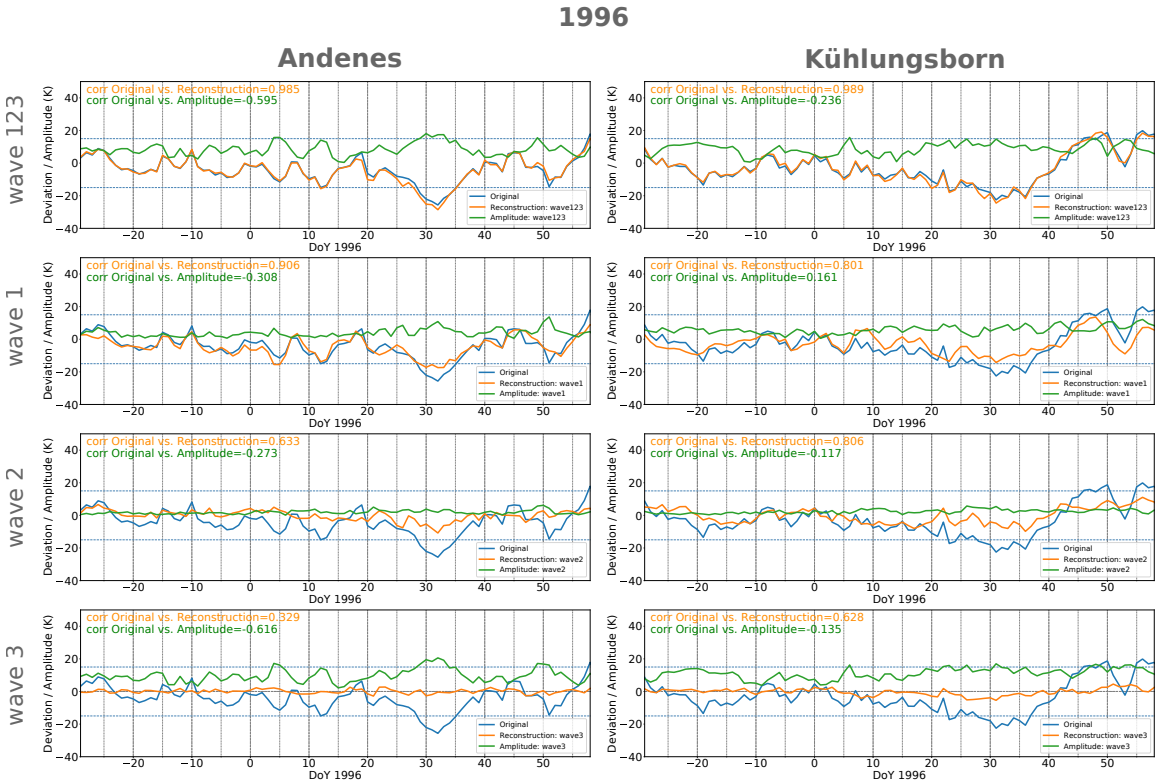

1991
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.972
corr Original vs. Amplitude=-0.170
corr Original vs. Reconstruction=0.981
corr Original vs. Amplitude=-0.500
corr Original vs. Reconstruction=0.832
corr Original vs. Amplitude=-0.457
corr Original vs. Reconstruction=0.720
corr Original vs. Amplitude=-0.439
corr Original vs. Reconstruction=0.602
corr Original vs. Amplitude=-0.276
corr Original vs. Reconstruction=0.586
corr Original vs. Amplitude=-0.257
corr Original vs. Reconstruction=0.127
corr Original vs. Amplitude=-0.277
corr Original vs. Reconstruction=0.366
corr Original vs. Amplitude=-0.560
Deviation / Amplitude (K)
DoY 1991
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

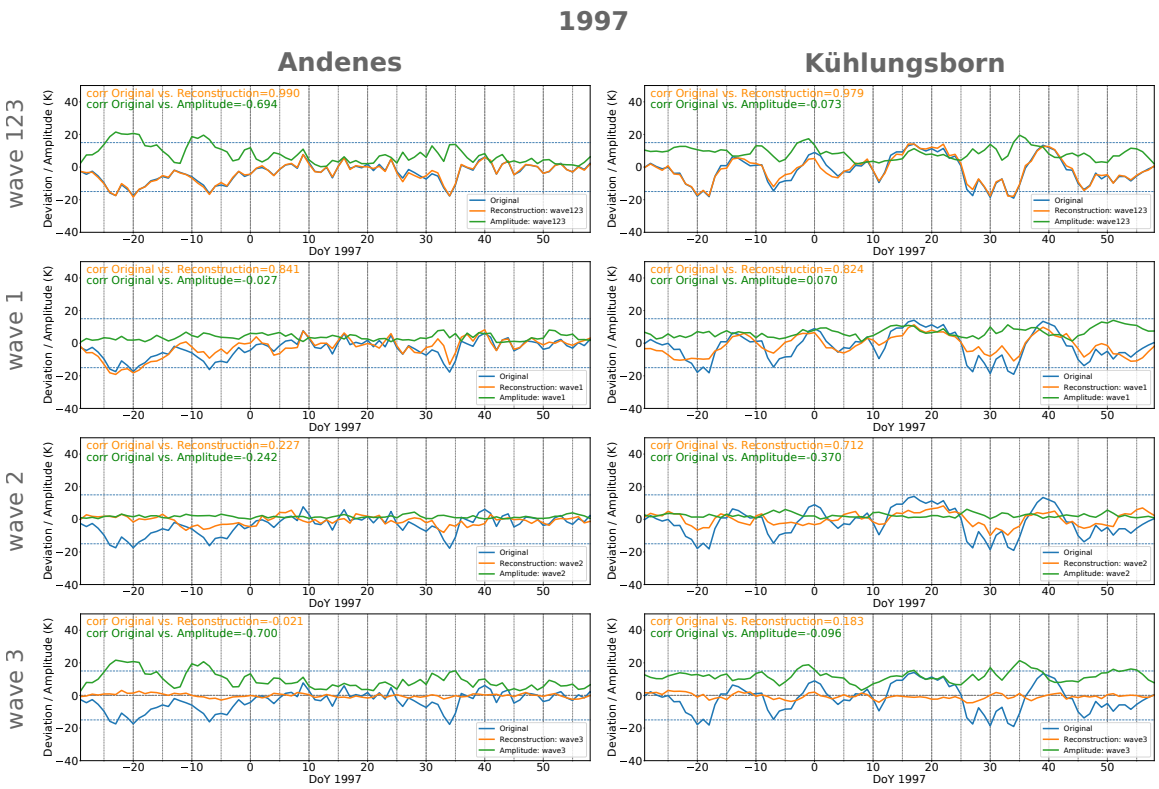

1992
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.982
corr Original vs. Amplitude=-0.284
corr Original vs. Reconstruction=0.983
corr Original vs. Amplitude=-0.199
corr Original vs. Reconstruction=0.867
corr Original vs. Amplitude=0.523
corr Original vs. Reconstruction=0.752
corr Original vs. Amplitude=0.624
corr Original vs. Reconstruction=0.620
corr Original vs. Amplitude=0.200
corr Original vs. Reconstruction=0.800
corr Original vs. Amplitude=0.491
corr Original vs. Reconstruction=0.563
corr Original vs. Amplitude=-0.154
corr Original vs. Reconstruction=0.719
corr Original vs. Amplitude=0.092
Deviation / Amplitude (K)
DoY 1992
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

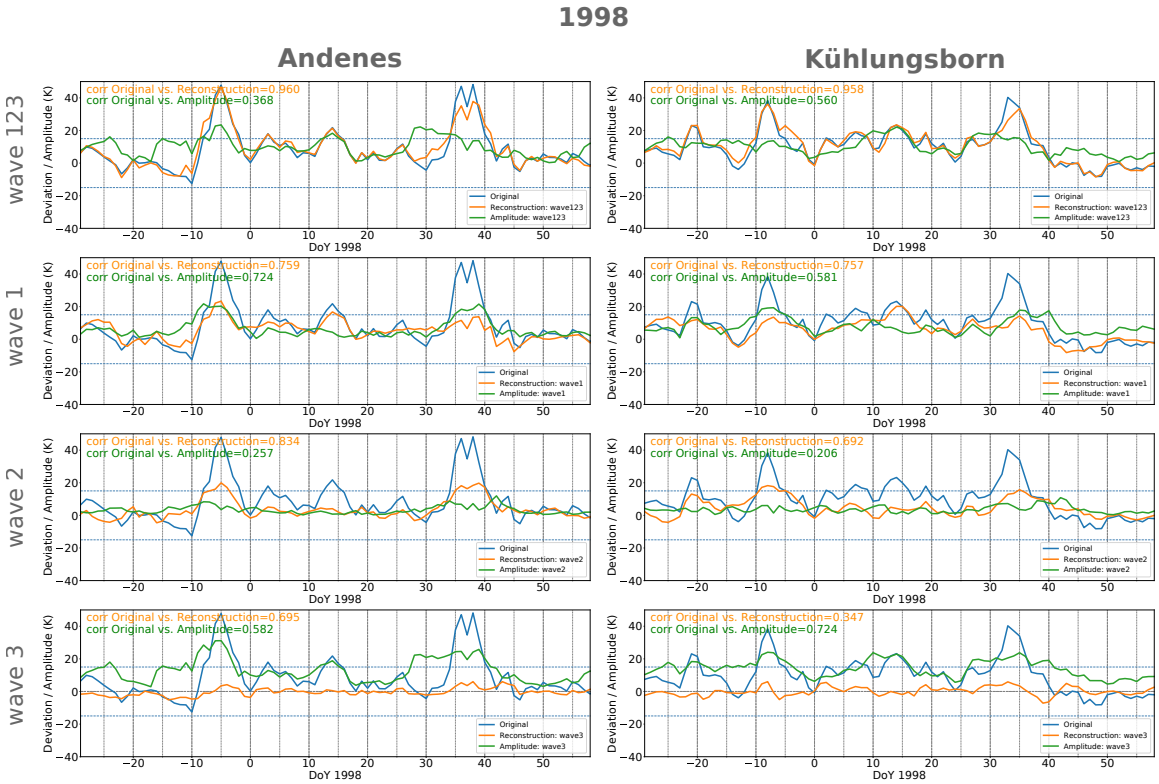

1993
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.986
corr Original vs. Amplitude=-0.401
corr Original vs. Reconstruction=0.987
corr Original vs. Amplitude=-0.063
corr Original vs. Reconstruction=0.893
corr Original vs. Amplitude=-0.003
corr Original vs. Reconstruction=0.797
corr Original vs. Amplitude=0.130
corr Original vs. Reconstruction=0.589
corr Original vs. Amplitude=-0.036
corr Original vs. Reconstruction=0.750
corr Original vs. Amplitude=0.084
corr Original vs. Reconstruction=-0.025
corr Original vs. Amplitude=-0.392
corr Original vs. Reconstruction=0.281
corr Original vs. Amplitude=-0.018
Deviation / Amplitude (K)
DoY 1993
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

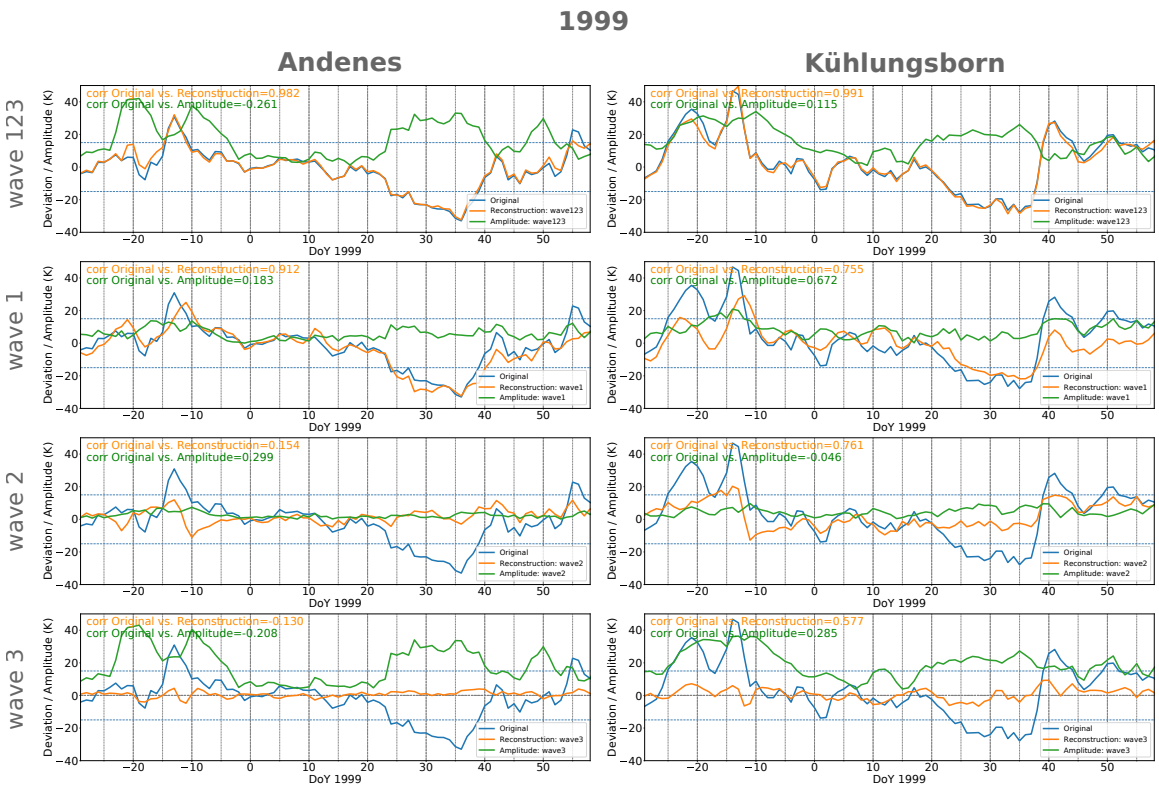

1994
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.991
corr Original vs. Amplitude=-0.007
corr Original vs. Reconstruction=0.991
corr Original vs. Amplitude=-0.026
corr Original vs. Reconstruction=0.907
corr Original vs. Amplitude=-0.640
corr Original vs. Reconstruction=0.869
corr Original vs. Amplitude=-0.482
corr Original vs. Reconstruction=0.794
corr Original vs. Amplitude=-0.406
corr Original vs. Reconstruction=0.863
corr Original vs. Amplitude=-0.590
corr Original vs. Reconstruction=0.230
corr Original vs. Amplitude=-0.240
corr Original vs. Reconstruction=0.641
corr Original vs. Amplitude=-0.405
Deviation / Amplitude (K)
DoY 1994
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

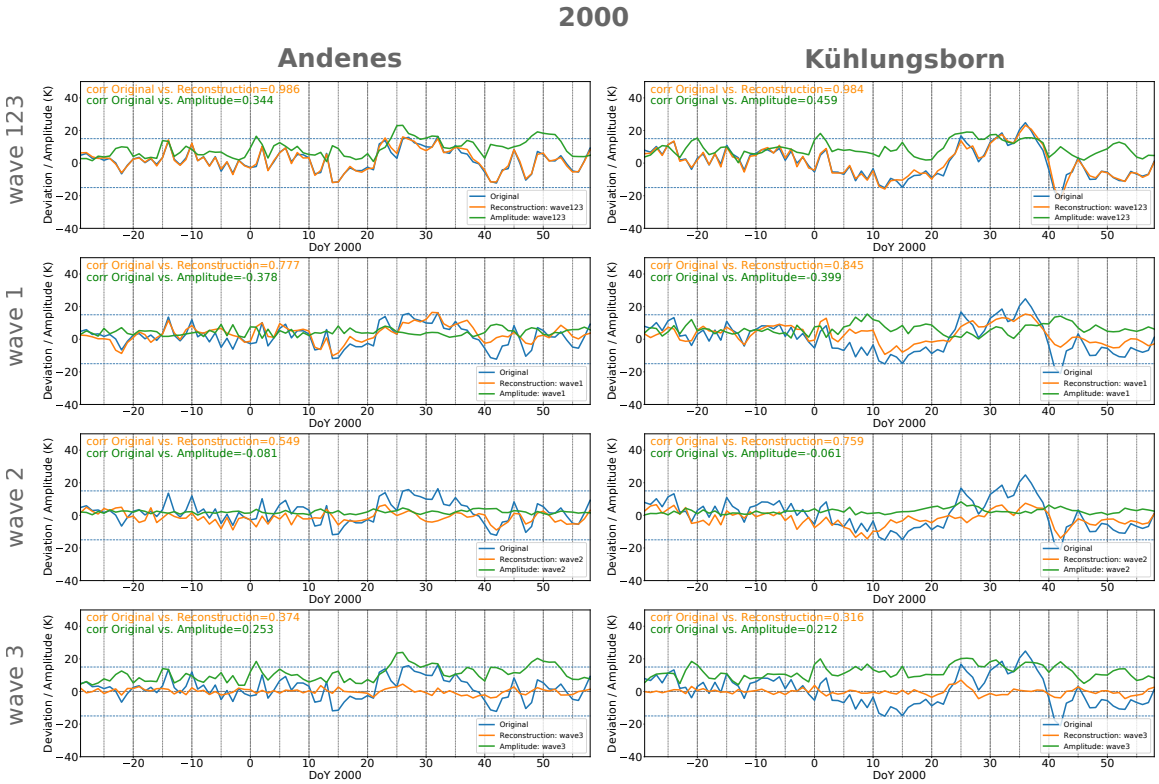

1995
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.983
corr Original vs. Amplitude=-0.319
corr Original vs. Reconstruction=0.962
corr Original vs. Amplitude=-0.241
corr Original vs. Reconstruction=0.907
corr Original vs. Amplitude=0.268
corr Original vs. Reconstruction=0.854
corr Original vs. Amplitude=0.150
corr Original vs. Reconstruction=0.770
corr Original vs. Amplitude=-0.227
corr Original vs. Reconstruction=0.700
corr Original vs. Amplitude=0.422
corr Original vs. Reconstruction=-0.016
corr Original vs. Amplitude=-0.266
corr Original vs. Reconstruction=0.610
corr Original vs. Amplitude=-0.107
Deviation / Amplitude (K)
DoY 1995
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

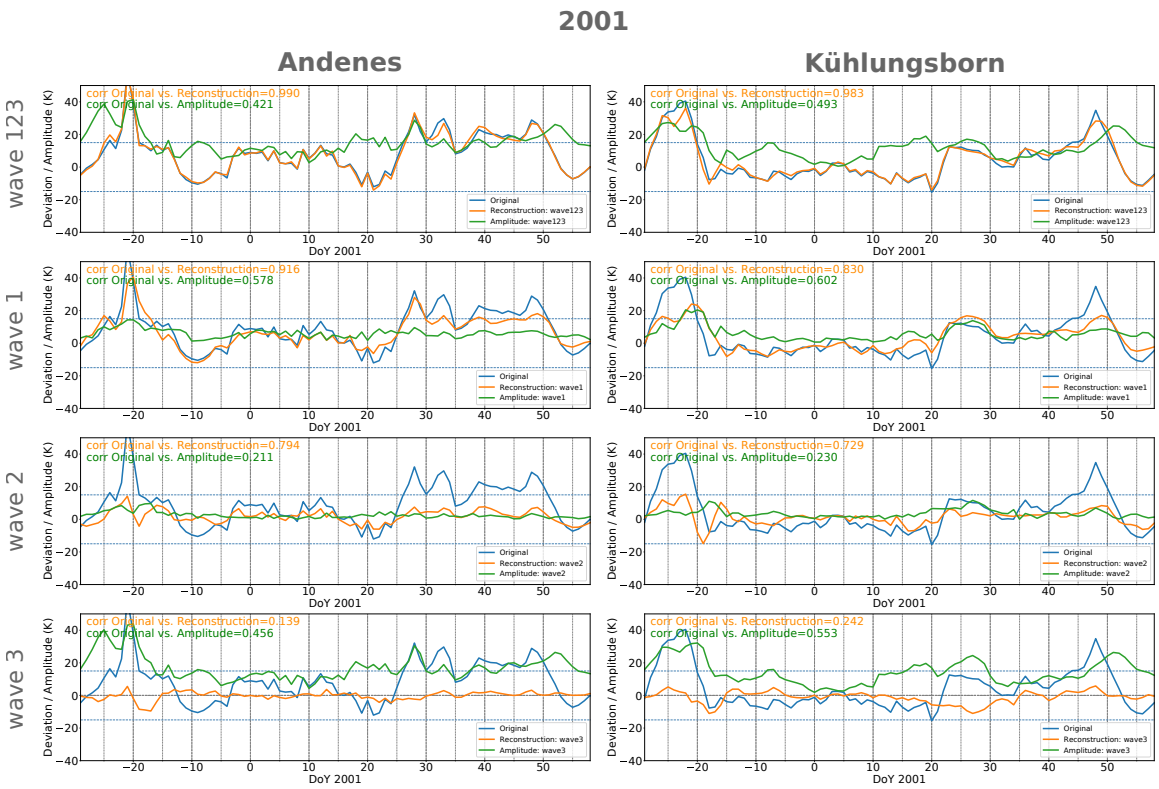

1996
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.985
corr Original vs. Amplitude=-0.595
corr Original vs. Reconstruction=0.989
corr Original vs. Amplitude=-0.236
corr Original vs. Reconstruction=0.906
corr Original vs. Amplitude=-0.308
corr Original vs. Reconstruction=0.801
corr Original vs. Amplitude=0.161
corr Original vs. Reconstruction=0.633
corr Original vs. Amplitude=-0.273
corr Original vs. Reconstruction=0.806
corr Original vs. Amplitude=-0.117
corr Original vs. Reconstruction=0.329
corr Original vs. Amplitude=-0.616
corr Original vs. Reconstruction=0.628
corr Original vs. Amplitude=-0.135
Deviation / Amplitude (K)
DoY 1996
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

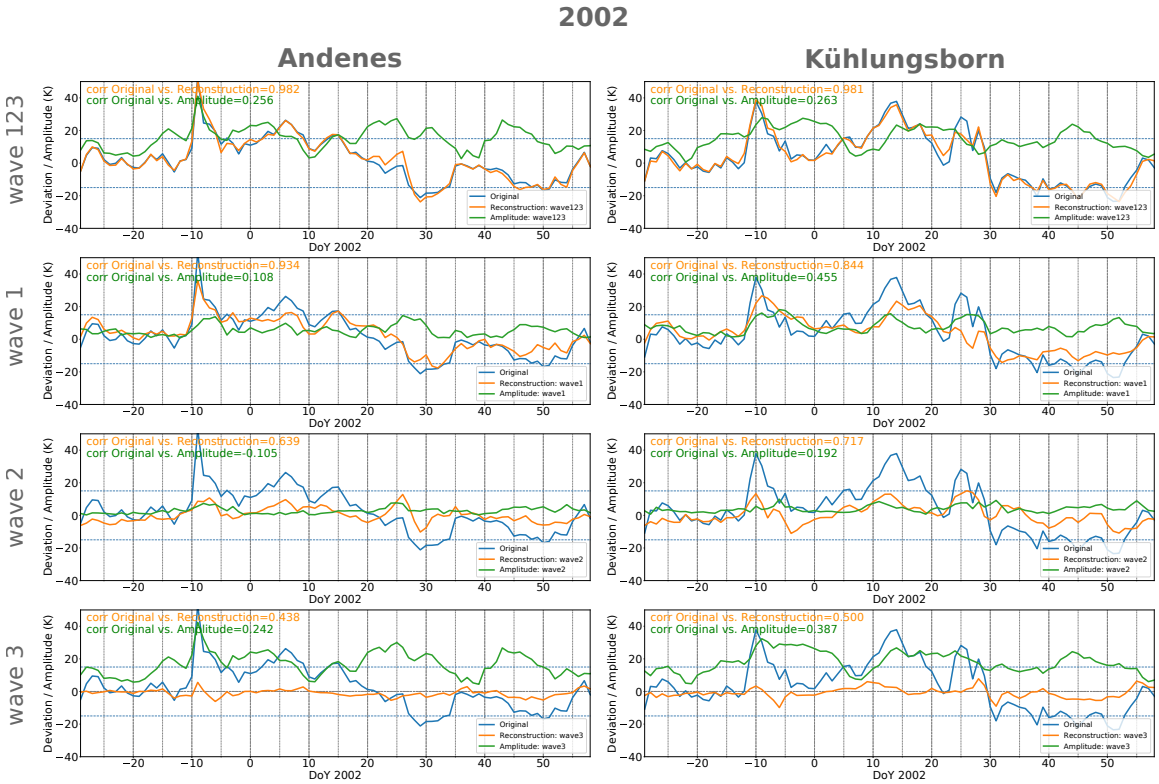

1997
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.990
corr Original vs. Amplitude=-0.694
corr Original vs. Reconstruction=0.979
corr Original vs. Amplitude=-0.073
corr Original vs. Reconstruction=0.841
corr Original vs. Amplitude=-0.027
corr Original vs. Reconstruction=0.824
corr Original vs. Amplitude=0.070
corr Original vs. Reconstruction=0.227
corr Original vs. Amplitude=-0.242
corr Original vs. Reconstruction=0.712
corr Original vs. Amplitude=-0.370
corr Original vs. Reconstruction=-0.021
corr Original vs. Amplitude=-0.700
corr Original vs. Reconstruction=0.183
corr Original vs. Amplitude=-0.096
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3
Deviation / Amplitude (K)
DoY 1997

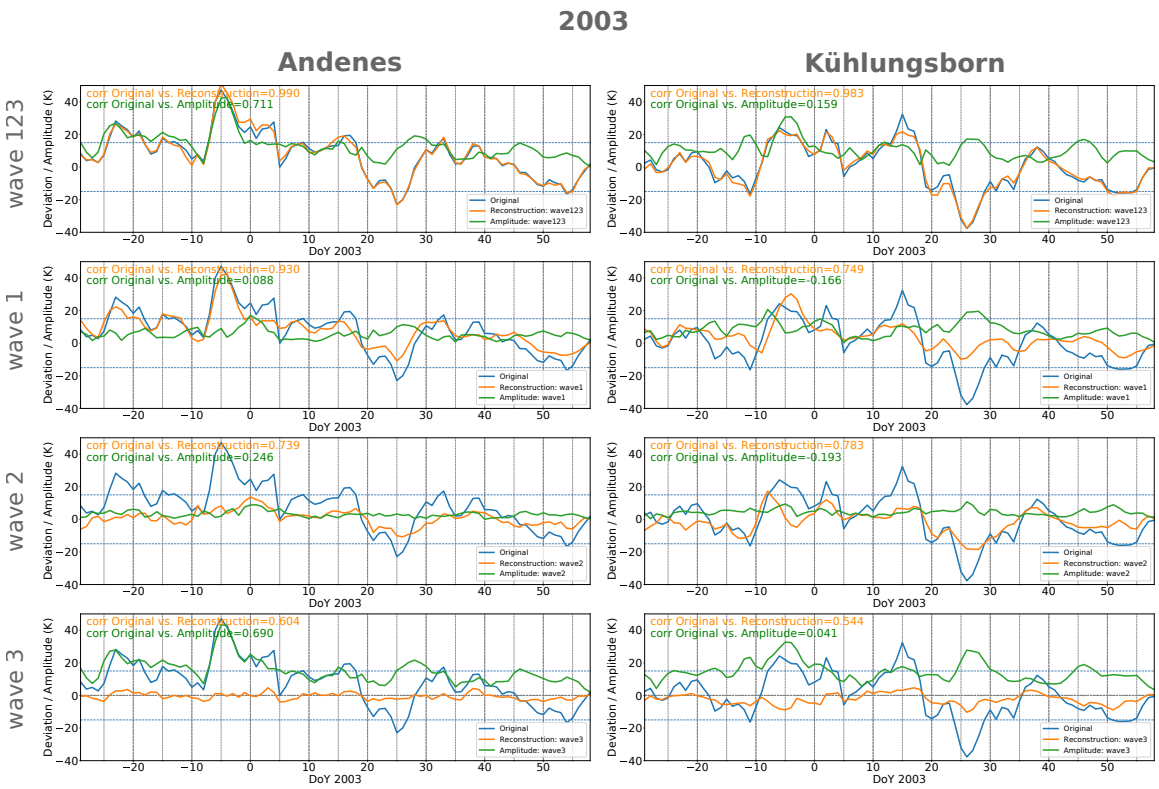

1998
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.960
corr Original vs. Amplitude=0.368
corr Original vs. Reconstruction=0.958
corr Original vs. Amplitude=0.560
corr Original vs. Reconstruction=0.759
corr Original vs. Amplitude=0.724
corr Original vs. Reconstruction=0.757
corr Original vs. Amplitude=0.581
corr Original vs. Reconstruction=0.834
corr Original vs. Amplitude=0.257
corr Original vs. Reconstruction=0.692
corr Original vs. Amplitude=0.206
corr Original vs. Reconstruction=0.695
corr Original vs. Amplitude=0.582
corr Original vs. Reconstruction=0.347
corr Original vs. Amplitude=0.724
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3
Deviation / Amplitude (K)
DoY 1998

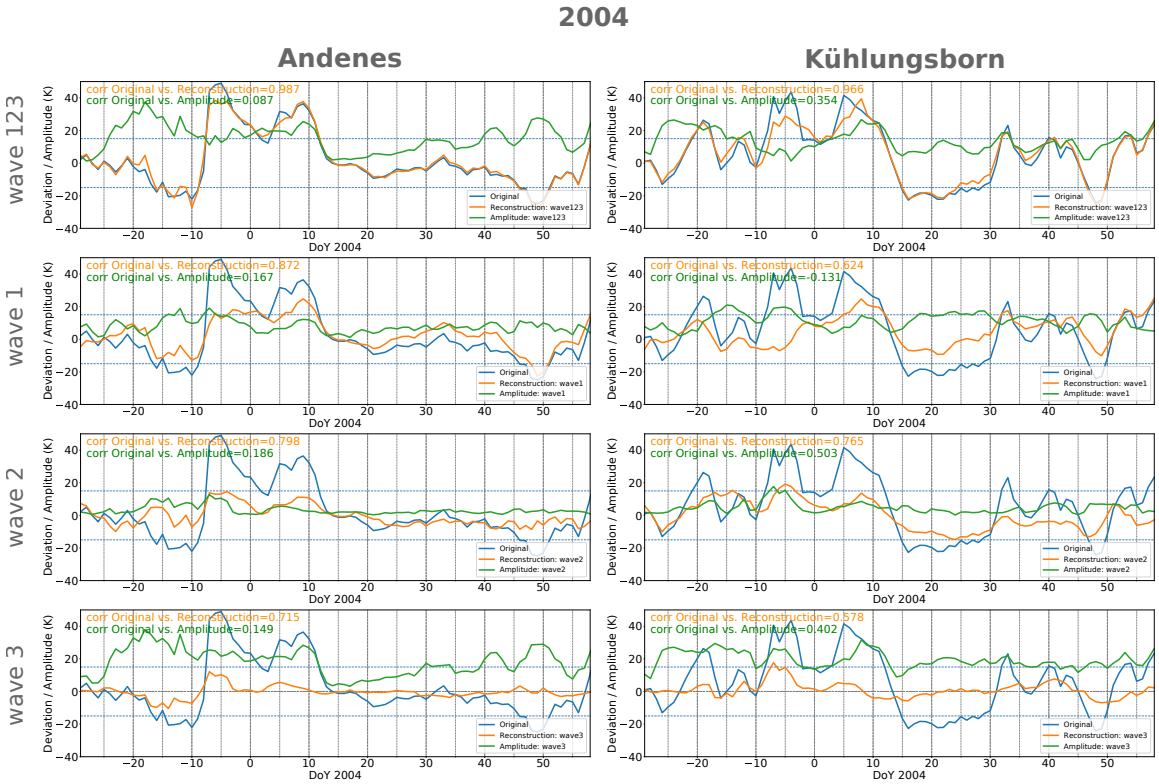

1999
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.982
corr Original vs. Amplitude=-0.261
corr Original vs. Reconstruction=0.991
corr Original vs. Amplitude=0.115
corr Original vs. Reconstruction=0.912
corr Original vs. Amplitude=0.183
corr Original vs. Reconstruction=0.755
corr Original vs. Amplitude=0.672
corr Original vs. Reconstruction=0.154
corr Original vs. Amplitude=0.299
corr Original vs. Reconstruction=0.761
corr Original vs. Amplitude=-0.046
corr Original vs. Reconstruction=-0.130
corr Original vs. Amplitude=-0.208
corr Original vs. Reconstruction=0.577
corr Original vs. Amplitude=0.285
Deviation / Amplitude (K)
DoY 1999
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

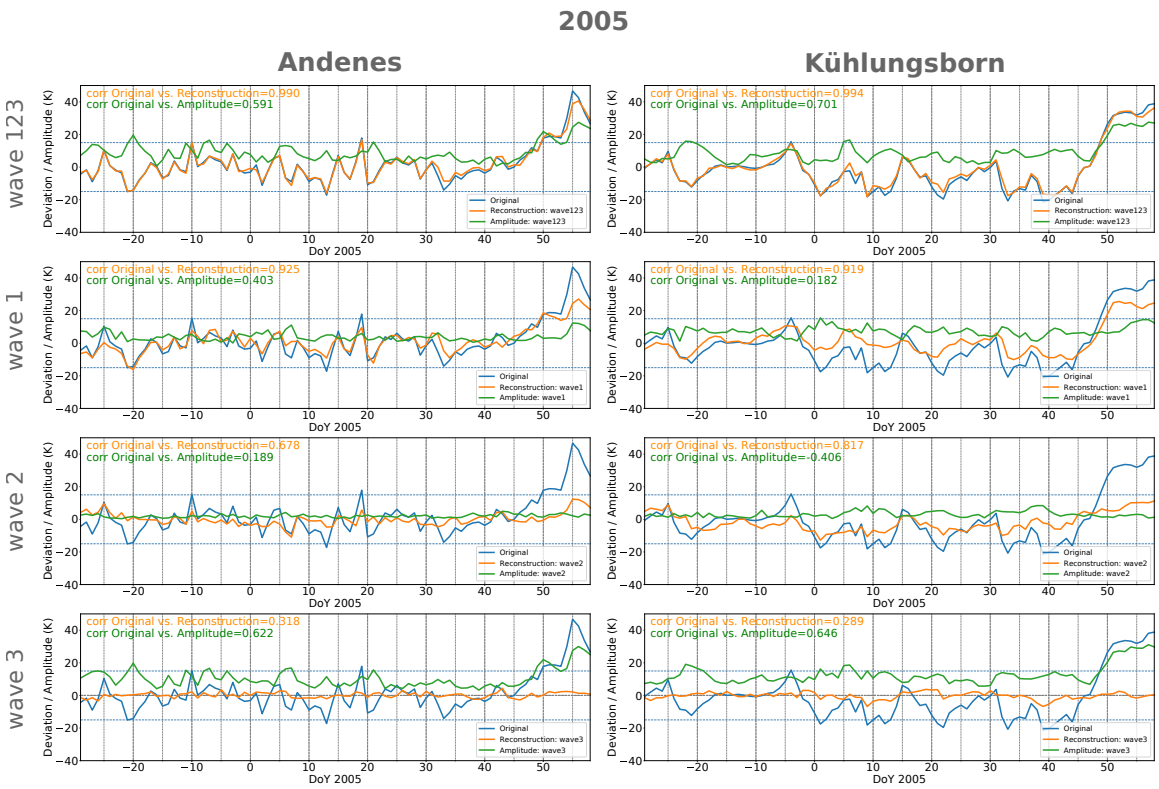

2000
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.986
corr Original vs. Amplitude=0.344
corr Original vs. Reconstruction=0.984
corr Original vs. Amplitude=0.459
corr Original vs. Reconstruction=0.777
corr Original vs. Amplitude=-0.378
corr Original vs. Reconstruction=0.845
corr Original vs. Amplitude=-0.399
corr Original vs. Reconstruction=0.549
corr Original vs. Amplitude=-0.081
corr Original vs. Reconstruction=0.759
corr Original vs. Amplitude=-0.061
corr Original vs. Reconstruction=0.374
corr Original vs. Amplitude=0.253
corr Original vs. Reconstruction=0.316
corr Original vs. Amplitude=0.212
Deviation / Amplitude (K)
DoY 2000
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

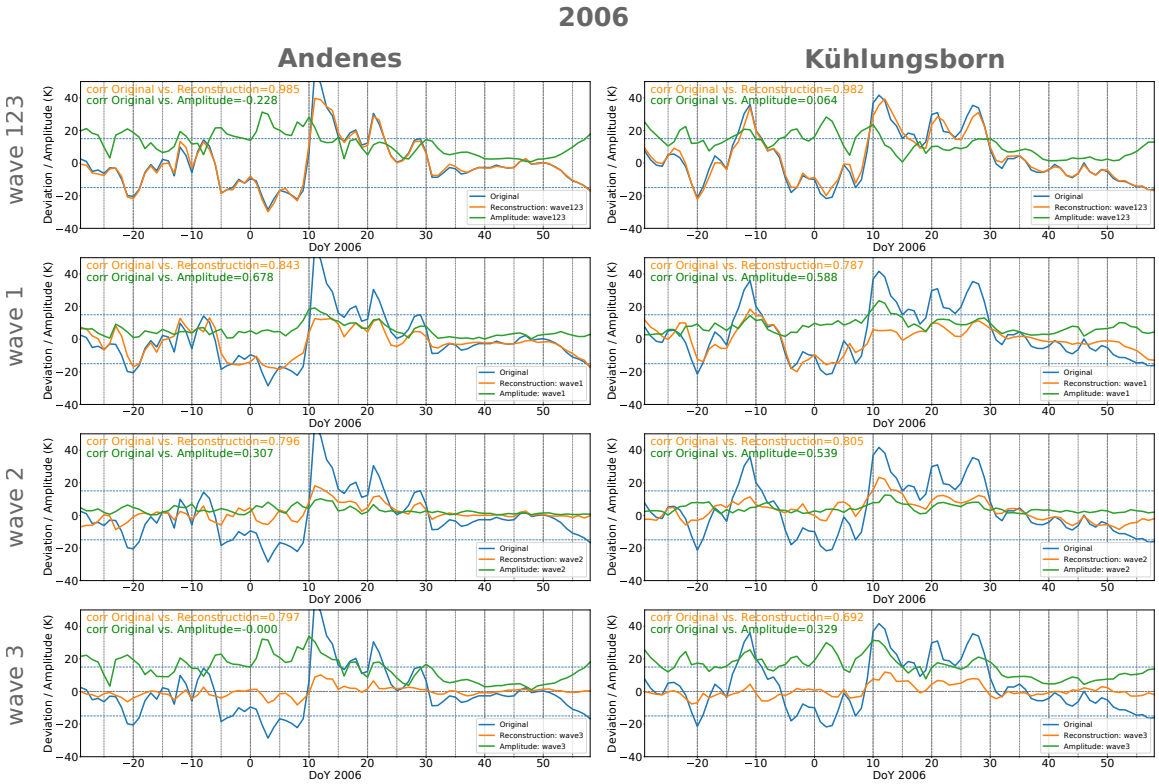

2001
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.990
corr Original vs. Amplitude=0.421
corr Original vs. Reconstruction=0.983
corr Original vs. Amplitude=0.493
corr Original vs. Reconstruction=0.916
corr Original vs. Amplitude=0.578
corr Original vs. Reconstruction=0.830
corr Original vs. Amplitude=0.602
corr Original vs. Reconstruction=0.794
corr Original vs. Amplitude=0.211
corr Original vs. Reconstruction=0.729
corr Original vs. Amplitude=0.230
corr Original vs. Reconstruction=0.139
corr Original vs. Amplitude=0.456
corr Original vs. Reconstruction=0.242
corr Original vs. Amplitude=0.553
Deviation / Amplitude (K)
DoY 2001
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

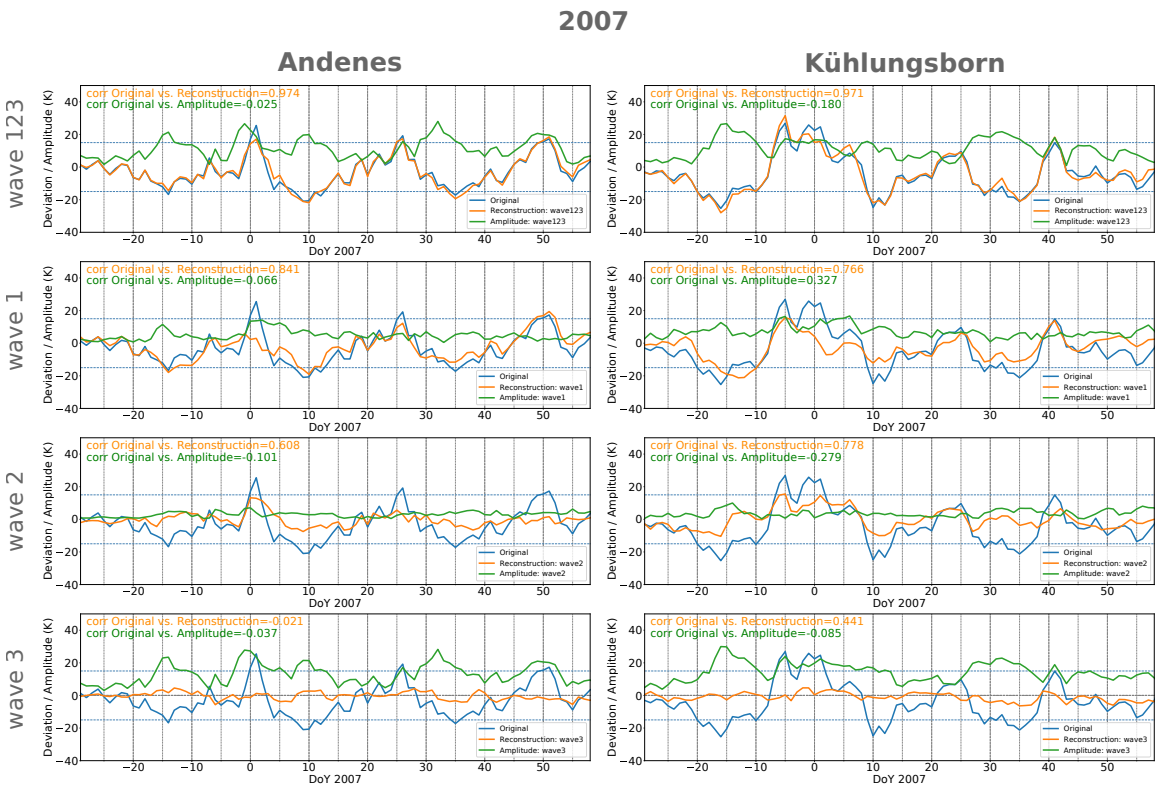

2002
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.982
corr Original vs. Amplitude=0.256
corr Original vs. Reconstruction=0.981
corr Original vs. Amplitude=0.263
corr Original vs. Reconstruction=0.934
corr Original vs. Amplitude=0.108
corr Original vs. Reconstruction=0.844
corr Original vs. Amplitude=0.455
corr Original vs. Reconstruction=0.639
corr Original vs. Amplitude=-0.105
corr Original vs. Reconstruction=0.717
corr Original vs. Amplitude=0.192
corr Original vs. Reconstruction=0.438
corr Original vs. Amplitude=0.242
corr Original vs. Reconstruction=0.500
corr Original vs. Amplitude=0.387
Deviation / Amplitude (K)
DoY 2002
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

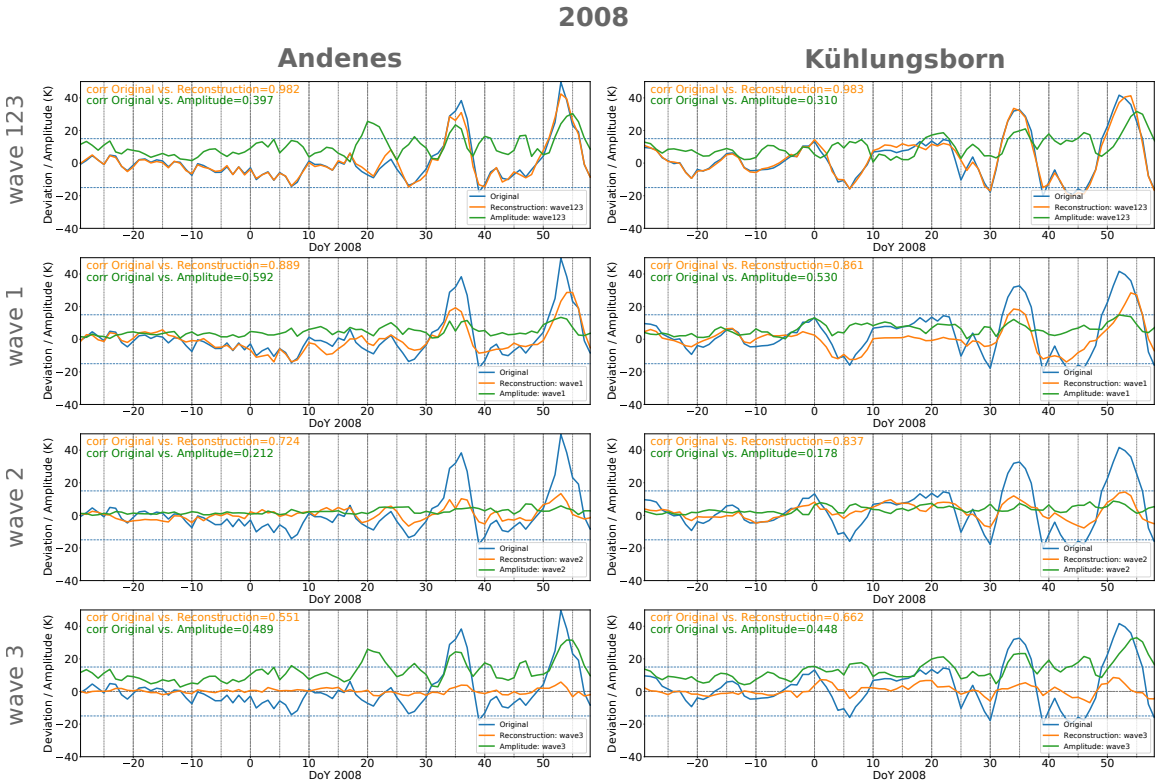

2003
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.990
corr Original vs. Amplitude=0.711
corr Original vs. Reconstruction=0.983
corr Original vs. Amplitude=0.159
corr Original vs. Reconstruction=0.930
corr Original vs. Amplitude=0.088
corr Original vs. Reconstruction=0.749
corr Original vs. Amplitude=-0.166
corr Original vs. Reconstruction=0.739
corr Original vs. Amplitude=0.246
corr Original vs. Reconstruction=0.783
corr Original vs. Amplitude=-0.193
corr Original vs. Reconstruction=0.604
corr Original vs. Amplitude=0.690
corr Original vs. Reconstruction=0.544
corr Original vs. Amplitude=0.041
Deviation / Amplitude (K)
DoY 2003
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

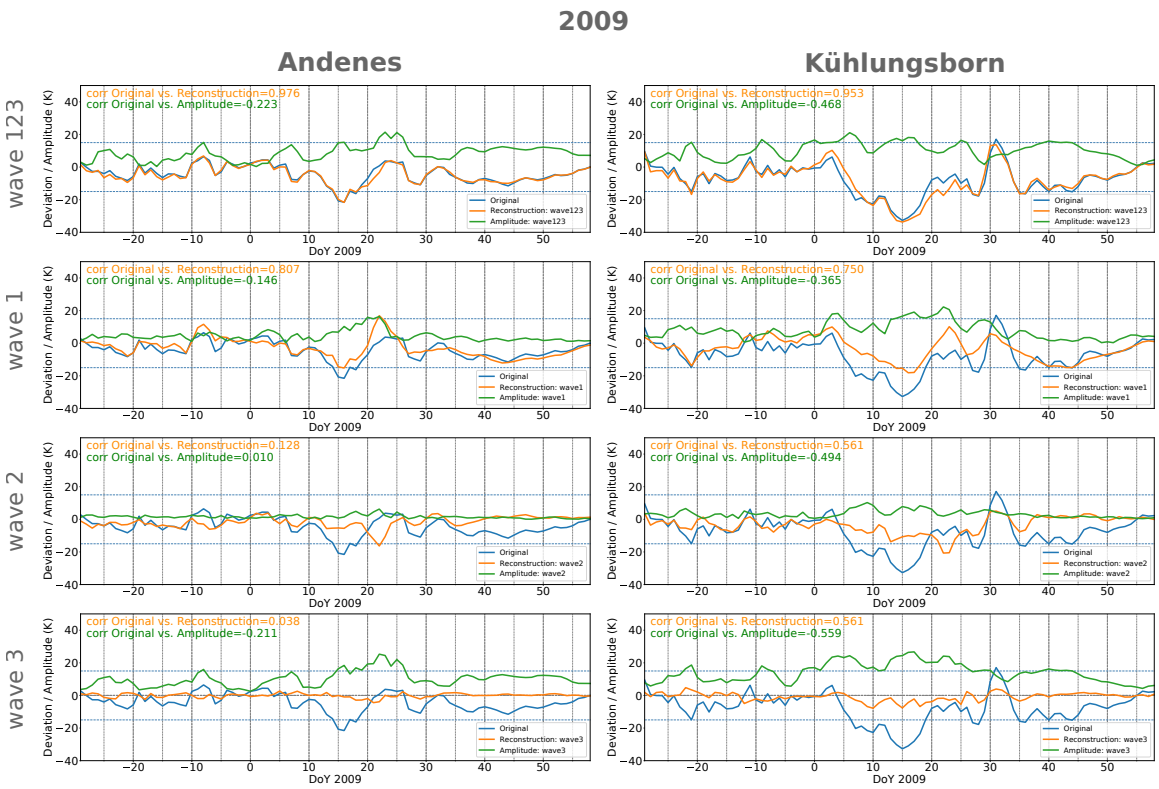

2004
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.987
corr Original vs. Amplitude=0.087
corr Original vs. Reconstruction=0.966
corr Original vs. Amplitude=0.354
corr Original vs. Reconstruction=0.872
corr Original vs. Amplitude=0.167
corr Original vs. Reconstruction=0.624
corr Original vs. Amplitude=-0.131
corr Original vs. Reconstruction=0.798
corr Original vs. Amplitude=0.186
corr Original vs. Reconstruction=0.765
corr Original vs. Amplitude=0.503
corr Original vs. Reconstruction=0.715
corr Original vs. Amplitude=0.149
corr Original vs. Reconstruction=0.578
corr Original vs. Amplitude=0.402
Deviation / Amplitude (K)
DoY 2004
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

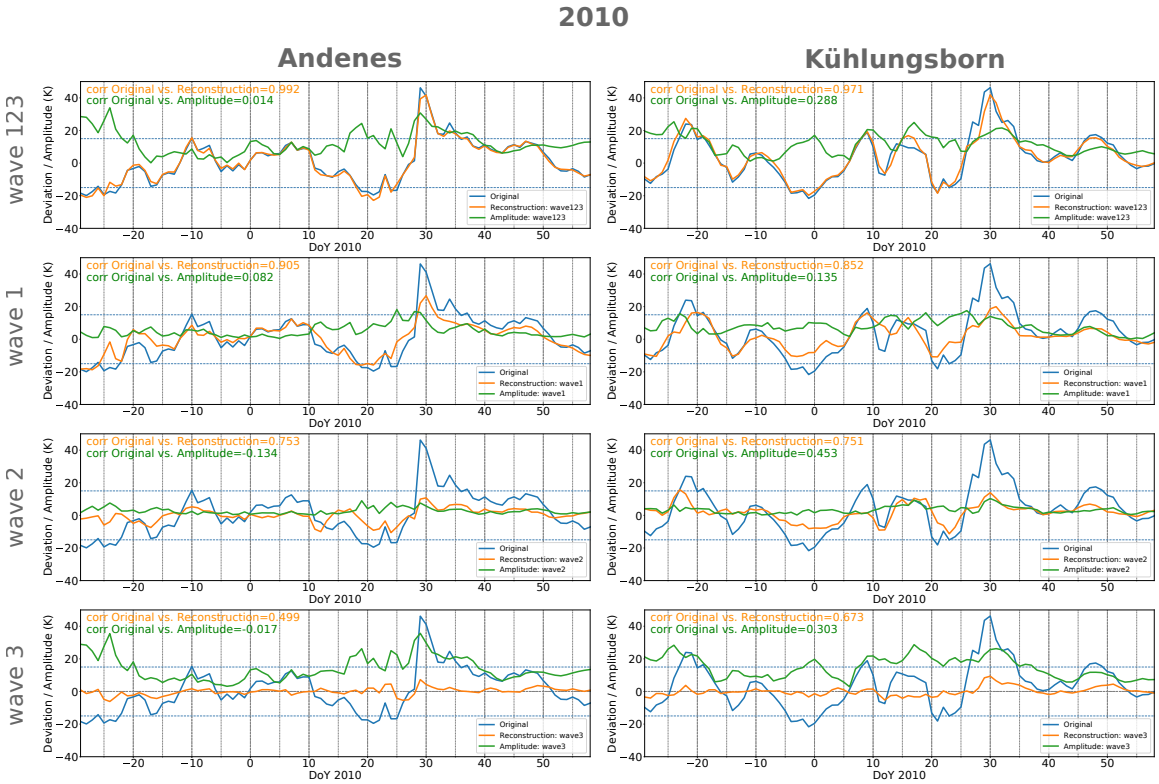

2005
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.990
corr Original vs. Amplitude=0.591
corr Original vs. Reconstruction=0.994
corr Original vs. Amplitude=0.701
corr Original vs. Reconstruction=0.925
corr Original vs. Amplitude=0.403
corr Original vs. Reconstruction=0.919
corr Original vs. Amplitude=0.182
corr Original vs. Reconstruction=0.678
corr Original vs. Amplitude=0.189
corr Original vs. Reconstruction=0.817
corr Original vs. Amplitude=-0.406
corr Original vs. Reconstruction=0.318
corr Original vs. Amplitude=0.622
corr Original vs. Reconstruction=0.289
corr Original vs. Amplitude=0.646
Deviation / Amplitude (K)
DoY 2005
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

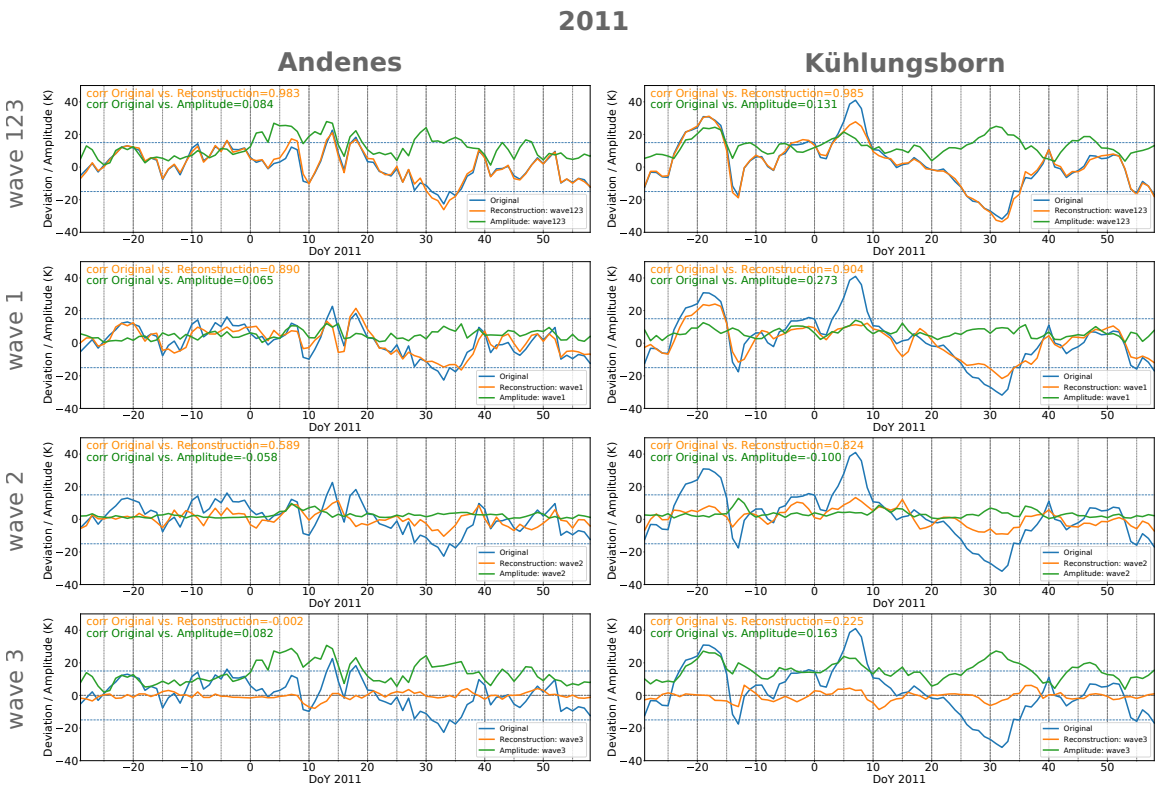

2006
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.985
corr Original vs. Amplitude=-0.228
corr Original vs. Reconstruction=0.982
corr Original vs. Amplitude=0.064
corr Original vs. Reconstruction=0.843
corr Original vs. Amplitude=0.678
corr Original vs. Reconstruction=0.787
corr Original vs. Amplitude=0.588
corr Original vs. Reconstruction=0.796
corr Original vs. Amplitude=0.307
corr Original vs. Reconstruction=0.805
corr Original vs. Amplitude=0.539
corr Original vs. Reconstruction=0.797
corr Original vs. Amplitude=-0.000
corr Original vs. Reconstruction=0.692
corr Original vs. Amplitude=0.329
Deviation / Amplitude (K)
DoY 2006
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

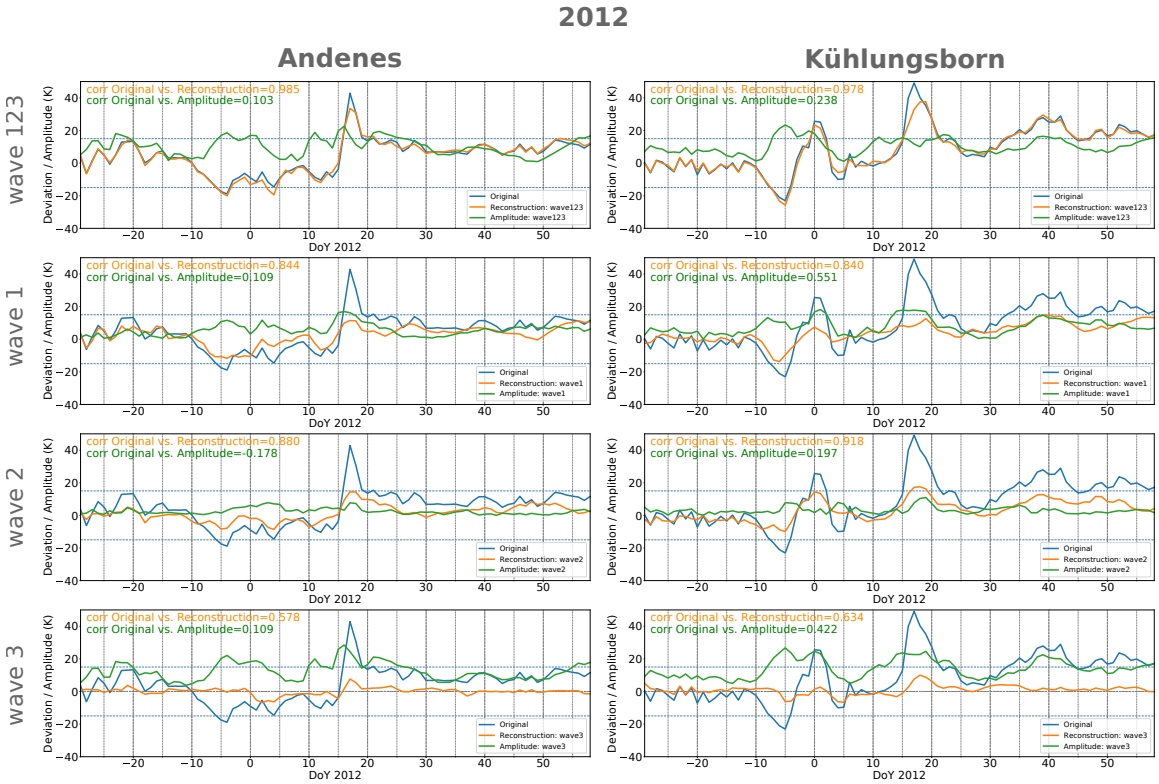

2007
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.974
corr Original vs. Amplitude=-0.025
corr Original vs. Reconstruction=0.971
corr Original vs. Amplitude=-0.180
corr Original vs. Reconstruction=0.841
corr Original vs. Amplitude=-0.066
corr Original vs. Reconstruction=0.766
corr Original vs. Amplitude=0.327
corr Original vs. Reconstruction=0.608
corr Original vs. Amplitude=-0.101
corr Original vs. Reconstruction=0.778
corr Original vs. Amplitude=-0.279
corr Original vs. Reconstruction=-0.021
corr Original vs. Amplitude=-0.037
corr Original vs. Reconstruction=0.441
corr Original vs. Amplitude=-0.085
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3
Deviation / Amplitude (K)
DoY 2007

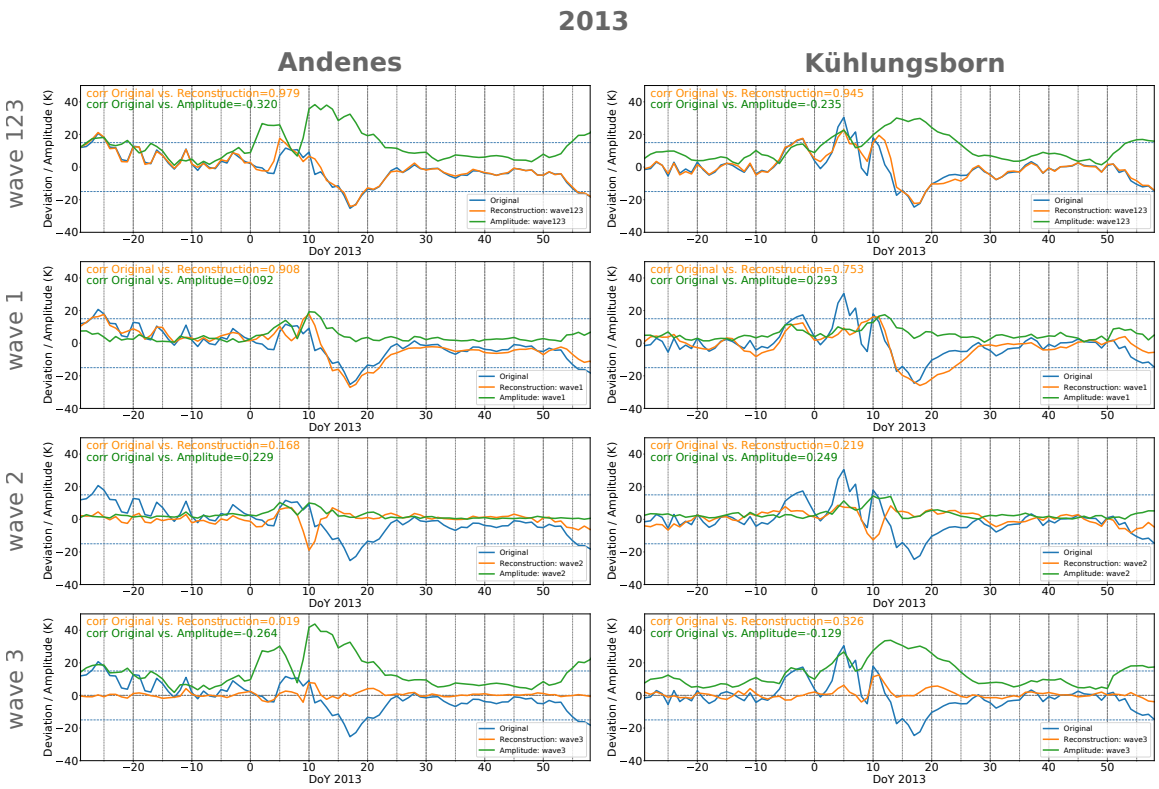

2008
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.982
corr Original vs. Amplitude=0.397
corr Original vs. Reconstruction=0.983
corr Original vs. Amplitude=0.310
corr Original vs. Reconstruction=0.889
corr Original vs. Amplitude=0.592
corr Original vs. Reconstruction=0.861
corr Original vs. Amplitude=0.530
corr Original vs. Reconstruction=0.724
corr Original vs. Amplitude=0.212
corr Original vs. Reconstruction=0.837
corr Original vs. Amplitude=0.178
corr Original vs. Reconstruction=0.551
corr Original vs. Amplitude=0.489
corr Original vs. Reconstruction=0.662
corr Original vs. Amplitude=0.448
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3
Deviation / Amplitude (K)
DoY 2008

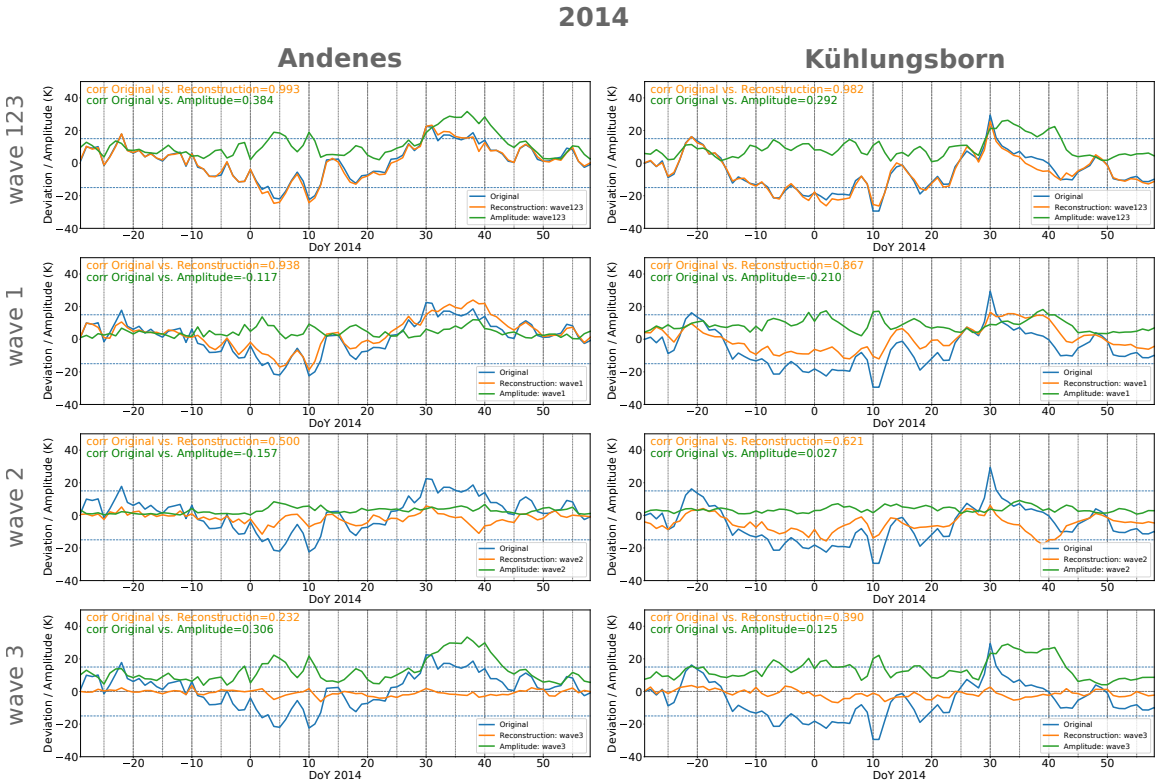

2009
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.976
corr Original vs. Amplitude=-0.223
corr Original vs. Reconstruction=0.953
corr Original vs. Amplitude=-0.468
corr Original vs. Reconstruction=0.807
corr Original vs. Amplitude=-0.146
corr Original vs. Reconstruction=0.750
corr Original vs. Amplitude=-0.365
corr Original vs. Reconstruction=0.128
corr Original vs. Amplitude=0.010
corr Original vs. Reconstruction=0.561
corr Original vs. Amplitude=-0.494
corr Original vs. Reconstruction=0.038
corr Original vs. Amplitude=-0.211
corr Original vs. Reconstruction=0.561
corr Original vs. Amplitude=-0.559
Deviation / Amplitude (K)
DoY 2009
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

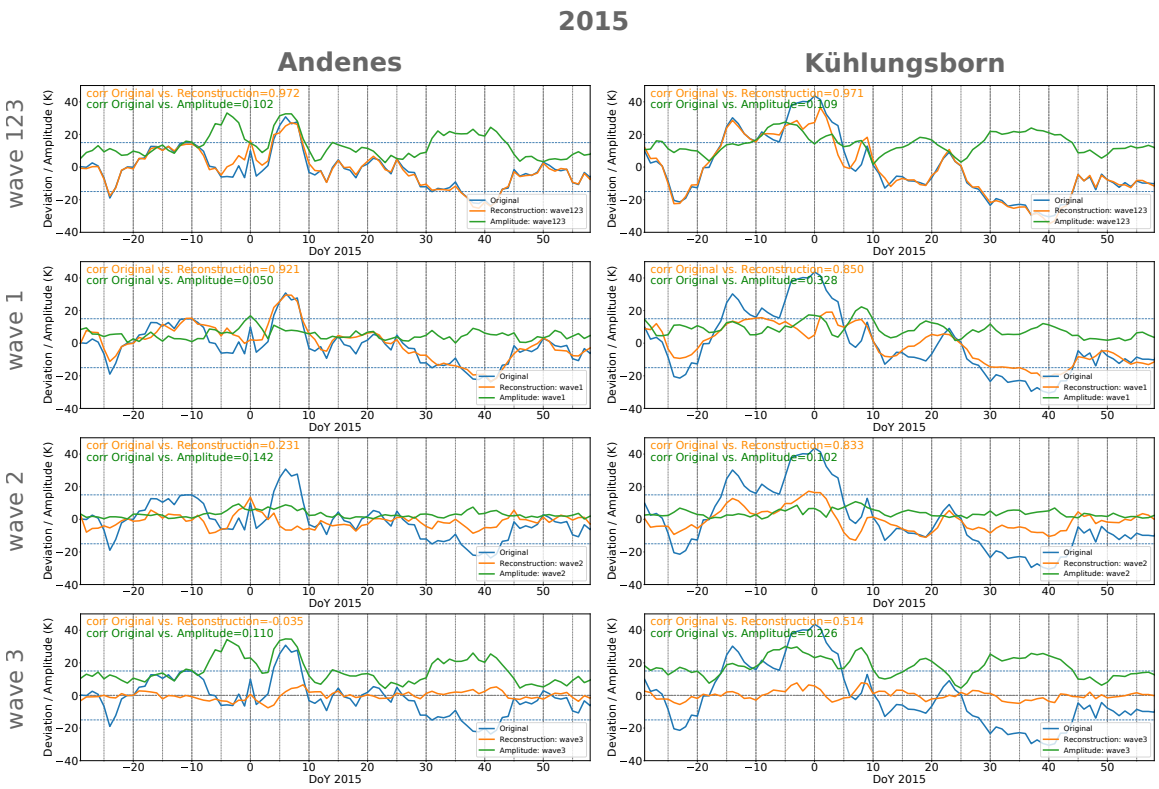

2010
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.992
corr Original vs. Amplitude=0.014
corr Original vs. Reconstruction=0.971
corr Original vs. Amplitude=0.288
corr Original vs. Reconstruction=0.905
corr Original vs. Amplitude=0.082
corr Original vs. Reconstruction=0.852
corr Original vs. Amplitude=0.135
corr Original vs. Reconstruction=0.753
corr Original vs. Amplitude=-0.134
corr Original vs. Reconstruction=0.751
corr Original vs. Amplitude=0.453
corr Original vs. Reconstruction=0.499
corr Original vs. Amplitude=-0.017
corr Original vs. Reconstruction=0.673
corr Original vs. Amplitude=0.303
Deviation / Amplitude (K)
DoY 2010
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

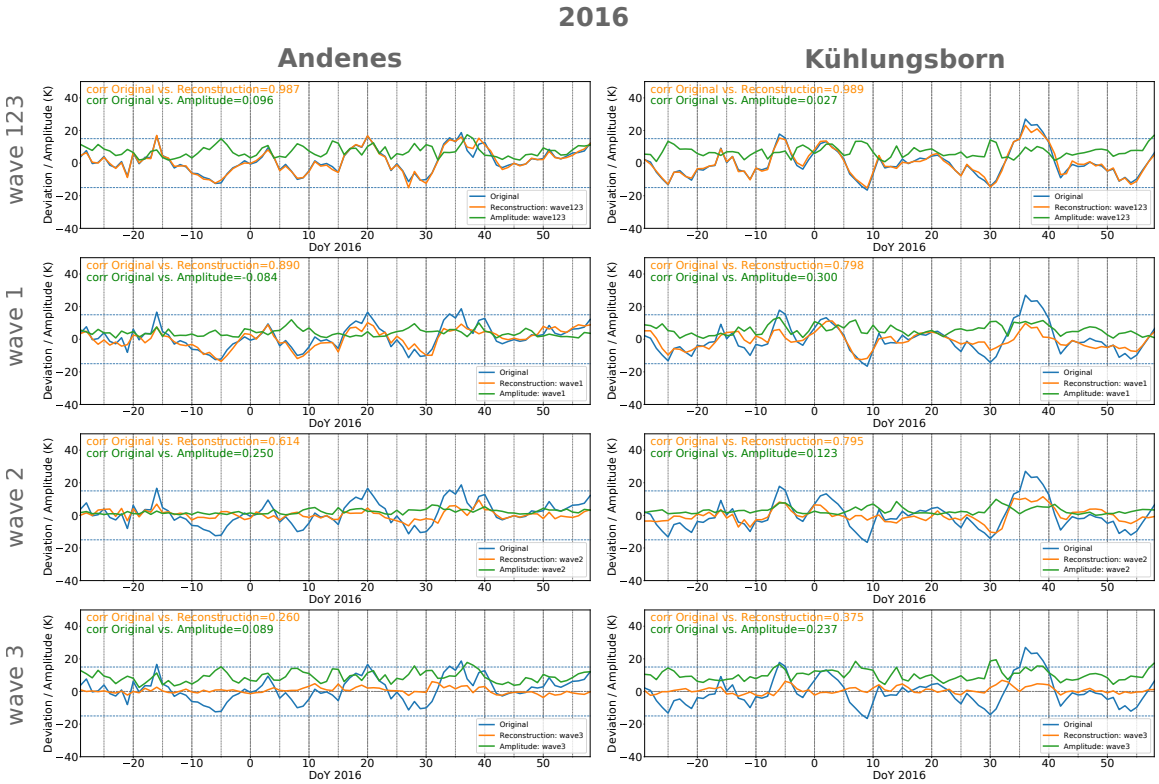

2011
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.983
corr Original vs. Amplitude=0.084
corr Original vs. Reconstruction=0.985
corr Original vs. Amplitude=0.131
corr Original vs. Reconstruction=0.890
corr Original vs. Amplitude=0.065
corr Original vs. Reconstruction=0.904
corr Original vs. Amplitude=0.273
corr Original vs. Reconstruction=0.589
corr Original vs. Amplitude=-0.058
corr Original vs. Reconstruction=0.824
corr Original vs. Amplitude=-0.100
corr Original vs. Reconstruction=-0.002
corr Original vs. Amplitude=0.082
corr Original vs. Reconstruction=0.225
corr Original vs. Amplitude=0.163
Deviation / Amplitude (K)
DoY 2011
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

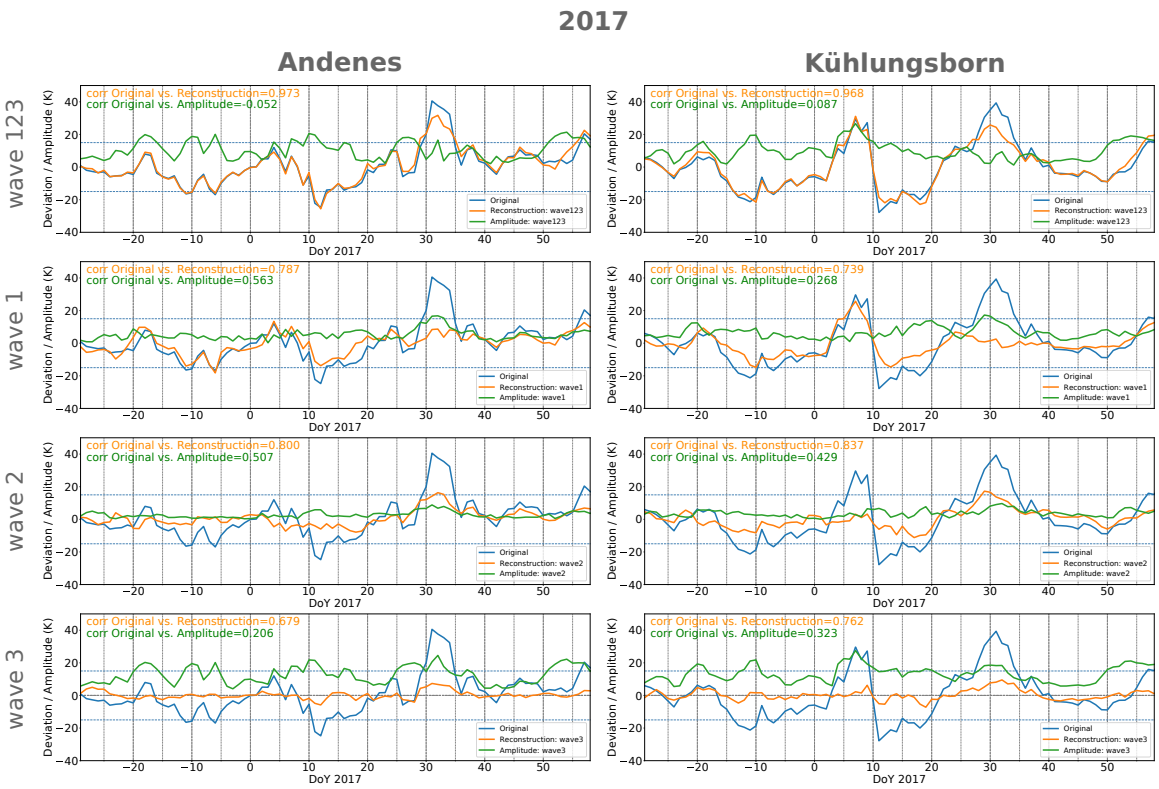

2012
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.985
corr Original vs. Amplitude=0.103
corr Original vs. Reconstruction=0.978
corr Original vs. Amplitude=0.238
corr Original vs. Reconstruction=0.844
corr Original vs. Amplitude=0.109
corr Original vs. Reconstruction=0.840
corr Original vs. Amplitude=0.551
corr Original vs. Reconstruction=0.880
corr Original vs. Amplitude=-0.178
corr Original vs. Reconstruction=0.918
corr Original vs. Amplitude=0.197
corr Original vs. Reconstruction=0.578
corr Original vs. Amplitude=0.109
corr Original vs. Reconstruction=0.634
corr Original vs. Amplitude=0.422
Deviation / Amplitude (K)
DoY 2012
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

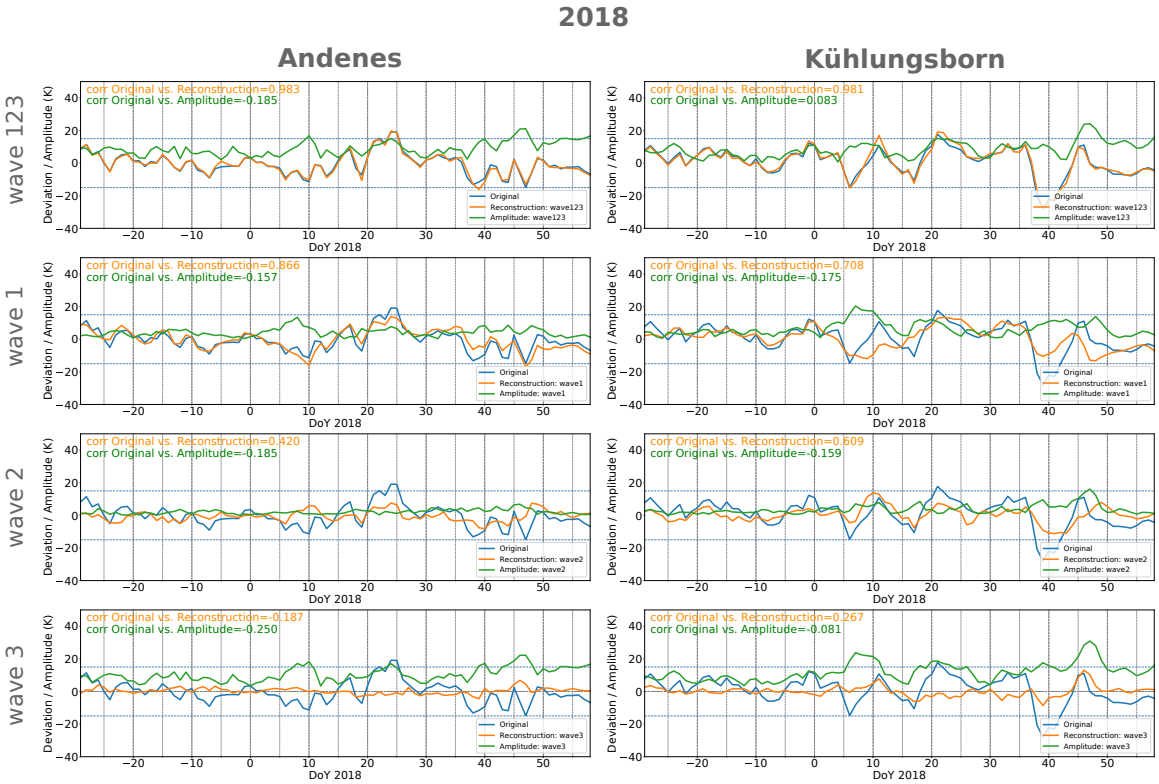

2013
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.979
corr Original vs. Amplitude=-0.320
corr Original vs. Reconstruction=0.945
corr Original vs. Amplitude=-0.235
corr Original vs. Reconstruction=0.908
corr Original vs. Amplitude=0.092
corr Original vs. Reconstruction=0.753
corr Original vs. Amplitude=0.293
corr Original vs. Reconstruction=0.168
corr Original vs. Amplitude=0.229
corr Original vs. Reconstruction=0.219
corr Original vs. Amplitude=0.249
corr Original vs. Reconstruction=0.019
corr Original vs. Amplitude=-0.264
corr Original vs. Reconstruction=0.326
corr Original vs. Amplitude=-0.129
Deviation / Amplitude (K)
DoY 2013
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3

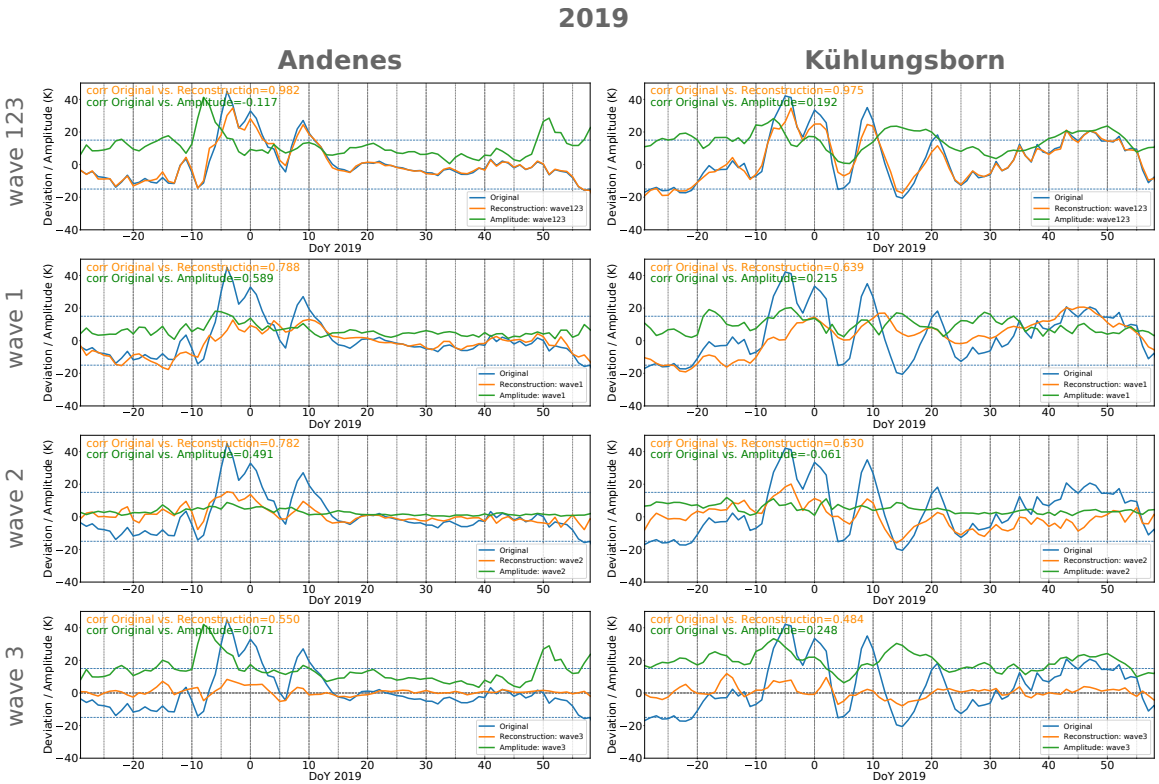

2014
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.993
corr Original vs. Amplitude=0.384
corr Original vs. Reconstruction=0.982
corr Original vs. Amplitude=0.292
corr Original vs. Reconstruction=0.938
corr Original vs. Amplitude=-0.117
corr Original vs. Reconstruction=0.867
corr Original vs. Amplitude=-0.210
corr Original vs. Reconstruction=0.500
corr Original vs. Amplitude=-0.157
corr Original vs. Reconstruction=0.621
corr Original vs. Amplitude=0.027
corr Original vs. Reconstruction=0.232
corr Original vs. Amplitude=0.306
corr Original vs. Reconstruction=0.390
corr Original vs. Amplitude=0.125
Deviation / Amplitude (K)
DoY 2014
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3


2015
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.972
corr Original vs. Amplitude=0.102
corr Original vs. Reconstruction=0.971
corr Original vs. Amplitude=0.109
corr Original vs. Reconstruction=0.921
corr Original vs. Amplitude=0.050
corr Original vs. Reconstruction=0.850
corr Original vs. Amplitude=0.328
corr Original vs. Reconstruction=0.231
corr Original vs. Amplitude=0.142
corr Original vs. Reconstruction=0.833
corr Original vs. Amplitude=0.102
corr Original vs. Reconstruction=-0.035
corr Original vs. Amplitude=0.110
corr Original vs. Reconstruction=0.514
corr Original vs. Amplitude=0.226
Deviation / Amplitude (K)
DoY 2015
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3


2016
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.987
corr Original vs. Amplitude=0.096
corr Original vs. Reconstruction=0.989
corr Original vs. Amplitude=0.027
corr Original vs. Reconstruction=0.890
corr Original vs. Amplitude=-0.084
corr Original vs. Reconstruction=0.798
corr Original vs. Amplitude=0.300
corr Original vs. Reconstruction=0.614
corr Original vs. Amplitude=0.250
corr Original vs. Reconstruction=0.795
corr Original vs. Amplitude=0.123
corr Original vs. Reconstruction=0.260
corr Original vs. Amplitude=0.089
corr Original vs. Reconstruction=0.375
corr Original vs. Amplitude=0.237
Deviation / Amplitude (K)
DoY 2016
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3


2017
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.973
corr Original vs. Amplitude=-0.052
corr Original vs. Reconstruction=0.968
corr Original vs. Amplitude=0.087
corr Original vs. Reconstruction=0.787
corr Original vs. Amplitude=0.563
corr Original vs. Reconstruction=0.739
corr Original vs. Amplitude=0.268
corr Original vs. Reconstruction=0.800
corr Original vs. Amplitude=0.507
corr Original vs. Reconstruction=0.837
corr Original vs. Amplitude=0.429
corr Original vs. Reconstruction=0.679
corr Original vs. Amplitude=0.206
corr Original vs. Reconstruction=0.762
corr Original vs. Amplitude=0.323
Deviation / Amplitude (K)
DoY 2017
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3


2018
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.983
corr Original vs. Amplitude=-0.185
corr Original vs. Reconstruction=0.981
corr Original vs. Amplitude=0.083
corr Original vs. Reconstruction=0.866
corr Original vs. Amplitude=-0.157
corr Original vs. Reconstruction=0.708
corr Original vs. Amplitude=-0.175
corr Original vs. Reconstruction=0.420
corr Original vs. Amplitude=-0.185
corr Original vs. Reconstruction=0.609
corr Original vs. Amplitude=-0.159
corr Original vs. Reconstruction=-0.187
corr Original vs. Amplitude=-0.250
corr Original vs. Reconstruction=0.267
corr Original vs. Amplitude=-0.081
Deviation / Amplitude (K)
DoY 2018
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3


2019
Andenes
Kühlungsborn
wave 123
wave 1
wave 2
wave 3
corr Original vs. Reconstruction=0.982
corr Original vs. Amplitude=-0.117
corr Original vs. Reconstruction=0.975
corr Original vs. Amplitude=0.192
corr Original vs. Reconstruction=0.788
corr Original vs. Amplitude=0.589
corr Original vs. Reconstruction=0.639
corr Original vs. Amplitude=0.215
corr Original vs. Reconstruction=0.782
corr Original vs. Amplitude=0.491
corr Original vs. Reconstruction=0.630
corr Original vs. Amplitude=-0.061
corr Original vs. Reconstruction=0.550
corr Original vs. Amplitude=0.071
corr Original vs. Reconstruction=0.484
corr Original vs. Amplitude=0.248
Deviation / Amplitude (K)
DoY 2019
Original
Reconstruction: wave123
Amplitude: wave123
Reconstruction: wave1
Amplitude: wave1
Reconstruction: wave2
Amplitude: wave2
Reconstruction: wave3
Amplitude: wave3