```
1 ssh://root@103.254.67.181:10006/usr/bin/python -u /home/
  sunfengzhen/pycharm/
   interval_pred10_goontrain_resultpd00_predrnnpp/
  interval_pred10_goontrain_result00.py
2 pid memory used = 0.27 Gbytes
  3
4 load data... data/radar500_train001
  data areas 1296
6 gen index
7 len(frames file name) : 4536
8 there are 216 sequences
9 there are 4536 pictures
10 *************mode: train ***<u>*</u>**********
11 load data... data/radar500_train001
12 data areas 1296
13 gen index
14 len(frames_file_name) : 22680
15 there are 1080 sequences
16 there are 22680 pictures
17 pid memory used = 4.34 Gbytes
18 Initializing models
19 num hidden : [128, 64, 64, 64]
20 2019-08-19 06: 32: 49. 677179: I tensorflow/core/platform/
  cpu_feature_guard.cc:141] Your CPU supports instructions that
   this TensorFlow binary was not compiled to use: AVX2 FMA
21 2019-08-19 06: 32: 50. 061859: I tensorflow/core/common_runtime/gpu/
  gpu_device.cc:1432] Found device 0 with properties:
22 name: GeForce GTX 1080 Ti major: 6 minor: 1 memoryClockRate(GHz
  ): 1.582
23 pciBusID: 0000:82:00.0
24 total Memory: 10.92GiB freeMemory: 10.76GiB
25 2019-08-19 06:32:50.062081: I tensorflow/core/common_runtime/qpu/
  gpu_device.cc:1511] Adding visible gpu devices: 0
26 2019-08-19 06: 32: 50. 658793: I tensorflow/core/common_runtime/gpu/
   gpu_device.cc:982] Device interconnect StreamExecutor with
  strength 1 edge matrix:
27 2019-08-19 06:32:50.658878: I tensorflow/core/common_runtime/gpu/
```

```
27 gpu_devi ce. cc: 988]
                           0
28 2019-08-19 06: 32: 50. 658897: I tensorflow/core/common_runtime/qpu/
                            N
   gpu_device.cc:1001] 0:
29 2019-08-19 06:32:50.659304: I tensorflow/core/common_runtime/qpu/
   gpu_device.cc:1115] Created TensorFlow device (/job:localhost/
   replica: O/task: O/device: GPU: O with 10409 MB memory) -> physical
   GPU (device: 0, name: GeForce GTX 1080 Ti, pci bus id: 0000:82:00
   .0, compute capability: 6.1)
30 2019-08-19 06:35:42.700051: W tensorflow/core/common runtime/
   bfc_allocator.cc:211] Allocator (GPU_0_bfc) ran out of memory
   trying to allocate 2.10GiB. The caller indicates that this is not
   a failure, but may mean that there could be performance gains if
   more memory were available.
31 2019-08-19 06: 35: 42.714251: W tensorflow/core/common_runtime/
   bfc_allocator.cc:211] Allocator (GPU_0_bfc) ran out of memory
   trying to allocate 2.07GiB. The caller indicates that this is not
   a failure, but may mean that there could be performance gains if
   more memory were available.
32 itr: 100
33 training loss: 16191.574
34 itr: 200
  training loss: 57500.293
36 itr: 300
37 training loss: 40441.395
  itr: 400
39 training loss: 48151.75
40 itr: 500
  training loss: 28283.441
42 itr: 600
43 training loss: 11950.053
44 itr: 700
45 training loss: 6729.4316
46 itr: 800
47 training loss: 22379.648
48 itr: 900
49 training loss: 10405.692
50 itr: 1000
```

```
File - interval_pred10_goontrain_result00
51 training loss: 15731.679
52 test...
53 mse per seq: 42854.25965824834
54 1476. 896526477955
55 2093. 269846598307
56 2770. 709890294958
57 3469. 6524754276984
58 4075. 58901892768
59 4612.8050209327985
60 5216. 855795966254
61 5805. 075587519893
62 6386. 226399739583
63 6947. 179096363209
64 psnr per frame: 10.784573
65 15.00896
66 13.530643
67 12. 361611
68 11. 422418
69 10.692314
70 10.085193
71 9.468519
72 8.907209
73 8.399777
74 7.969079
75 fmae per frame: 6443.661
76 3464.9753
77 4086.863
78 4799.6016
79 5539. 5293
80 6194.394
   6771.32
81
82 7437.82
83 8074.8833
84 8722.72
85 9344.502
86 ssim per frame: 0.58237135
87 0.66562665
```

```
File - interval_pred10_goontrain_result00
 88 0.64683694
 89 0.62736183
 90 0.6087229
 91 0.59040046
 92 0.57380575
 93 0.55425185
 94 0.5373299
 95 0.51826555
 96 0.50111085
 97 sharpness per frame: 174.5625
 98 183.68982
 99 160. 17592
100 154. 17592
101 157.83797
102 163. 22223
103 171.05092
104 178.74074
105 184.80556
106 192. 23148
107 199. 69444
108 itr: 1100
109 training loss: 13814.807
110 itr: 1200
111 training loss: 9246.17
112 itr: 1300
113 training loss: 17138.56
114 itr: 1400
115 training loss: 4616.334
116 itr: 1500
117 training loss: 9797.387
118 itr: 1600
119 training loss: 16881.91
120 itr: 1700
121 training loss: 12303.266
122 itr: 1800
123 training loss: 11286.254
124 itr: 1900
```

```
File - interval_pred10_goontrain_result00
125 training loss: 7496.1743
126 itr: 2000
127 training loss: 12454.
128 test...
129 mse per seq: 35803.15451876322
130 1374.0634768450702
131 2002. 2597916214554
132 2552. 8501490840204
133 3030. 4104817708335
134 3467. 2611756501374
135 3855. 233590867784
136 4319. 799181196425
137 4708. 9398995858655
138 5079. 515342147262
139 5412. 821429994371
140 psnr per frame: 12.13553
141 15. 339753
142 13.738045
143 12.803497
144 12. 195052
145 11. 79969
146 11. 479344
147 11. 192541
148 11.00653
149 10. 923379
150 10.877478
151 fmae per frame: 5168.273
152 3107.742
153 3738. 3232
154 4264.46
155 4689.045
156 5059.968
157 5389. 9023
158 5829.3105
159 6208.5645
160 6553.8477
161 6841.565
```

```
File - interval_pred10_goontrain_result00
162 ssim per frame: 0.6241458
163 0.6690162
164 0.6485045
165 0.636211
166 0.62894577
167 0.6217457
168 0.61597115
169 0.6086904
170 0.6052048
171 \ 0.60 \overline{33265}
172 0.60384226
173 sharpness per frame: 178.59445
174 193.86574
175 181. 56482
176 178.01389
177 176. 54167
178 178. 56018
179 175. 11111
180 177.125
181 175. 76389
182 175.375
183 174.02315
184 itr: 2100
185 training loss: 9443.695
186 itr: 2200
187 training loss: 12451.464
188 itr: 2300
189 training loss: 10218.412
190 itr: 2400
191 training loss: 4184.149
192 itr: 2500
193 training loss: 17361.498
194 itr: 2600
195 training loss: 10256.259
196 itr: 2700
197 training loss: 11708.978
198 itr: 2800
```

```
File - interval_pred10_goontrain_result00
199 training loss: 9569.928
200 itr: 2900
201 training loss: 11245.363
202 itr: 3000
203 training loss: 10889.437
204 test...
205 mse per seq: 33222.0611923359
206 1298. 1290489479347
207 1926. 538399025246
208 2489. 7110963044342
209 3004. 7961993747285
210 3403. 668521457248
211 3679. 930820606373
212 4016. 661668706823
213 4275. 206012019405
214 4473. 457540724013
215 4653. 9618851697005
216 psnr per frame: 12.39459
217 15. 599434
218 13. 943437
219 12. 9613285
220 12.300684
221 11. 903406
222 11.685062
223 11. 4933
224 11. 376822
225 11. 345389
226 11. 337043
227 fmae per frame: 4980.249
228 2994.376
229 3710.831
230 4273.6973
231 4760.6187
232 5112.9707
233 5330.543
234 5623.173
235 5839.3965
```

```
File - interval_pred10_goontrain_result00
236 6003.7075
237 6153. 1763
238 ssim per frame: 0.6623264
239 0.7136039
240 0.6859447
241 0.6707288
242 0.6608144
243 0.65480286
244 0.6527622
245 0.6480577
246 0.64685845
247 0.64493173
248 0.6447591
249 sharpness per frame: 107.78566
250 146. 41667
251 120. 171295
252 110. 98148
253 106. 76852
254 103.34722
255 100. 42593
256 99. 12963
257 97. 171295
258 95.82407
259 97.62037
260 itr: 3100
261 training loss: 10354.3125
262 itr: 3200
263 training loss: 8464.137
264 itr: 3300
265 training loss: 8965.039
266 itr: 3400
267 training loss: 7505.5527
268 itr: 3500
269 training loss: 15851.9375
270 itr: 3600
271 training loss: 14587.416
272 itr: 3700
```

```
File - interval_pred10_goontrain_result00
273 training loss: 9516.901
274 itr: 3800
275 training loss: 4621.374
276 itr: 3900
277 training loss: 12383.463
278 itr: 4000
279 training loss: 10579.57
280 test...
281 mse per seq: 39795.676295457066
282 1269. 3713220666957
283 1899. 7298210991753
284 2532. 74740713614
285 3178. 3719386348016
286 3847. 904705754033
287 4493. 442139519586
288 5111.6984697977705
289 5538. 362426051387
290 5847. 635783301459
291 6076. 412282096015
292 psnr per frame: 12.012845
293 15.697221
294 13. 9936285
295 12. 9265175
296 12. 172588
297 11.59652
298 11. 137031
299 10.797694
300 10.612337
301 10.587013
302 10.6079035
303 fmae per frame: 5215.3926
304 2724.613
305 3393.6143
306 3968.5408
307 4537.238
308 5111.418
309 5668. 1084
```

```
File - interval_pred10_goontrain_result00
310 6227.9434
311 6610. 998
312 6868.81
313 7042.641
314 ssim per frame: 0.671748
315 0.72571325
316 0.69811136
317 0.6837976
318 0.67405134
319 0.6666766
320 0.6605945
321 0.6537956
322 0.65128285
323 0.65053266
324 0.65292406
325 sharpness per frame: 97.06481
326 145. 10648
327 118. 82407
328 113. 10185
329 108.833336
330 97.76852
331 90. 18519
332 82. 39815
333 75.99537
334 70.50926
335 67.92593
336 itr: 4100
337 training loss: 11948.209
338 itr: 4200
339 training loss: 14336.5205
340 itr: 4300
341 training loss: 13012.321
342 itr: 4400
343 training loss: 7507.698
344 itr: 4500
345 training loss: 11804.879
346 itr: 4600
```

```
File - interval_pred10_goontrain_result00
347 training loss: 18387.66
348 itr: 4700
349 training loss: 14907.357
350 itr: 4800
351 training loss: 10720.885
352 itr: 4900
353 training loss: 5660.2563
354 itr: 5000
355 training loss: 11032.208
356 test...
357 mse per seq: 36490.768955937136
358 1260. 3400107489692
359 1980. 6860998648185
360 2651. 976631447121
361 3264. 5794592963325
362 3731.8116678308556
363 4089. 6509727195457
364 4491. 2923417267975
365 4789. 044103834364
366 5020. 644465976291
367 5210. 743202492043
368 psnr per frame: 12.105276
369 15. 735167
370 13.867173
371 12.750145
372 12.004561
373 11.579026
374 11. 317308
375 11.088408
376 10. 944368
377 10.899465
378 10.867131
379 fmae per frame: 5124.239
380 2779. 3062
381 3570.7651
382 4223. 9824
383 4805.4443
```

```
File - interval_pred10_goontrain_result00
384 5235.893
385 5553.8345
386 5925. 3467
387 6192.6675
388 6395. 2812
389 6559.863
390 ssim per frame: 0.66748416
391 0.72833323
392 0.6965674
393 0.6785954
394 0.6663655
395 0.659002
396 0.65542763
397 0.6503124
398 0.6481525
399 0.64600456
400 0.6460812
401 sharpness per frame: 108.06343
402 151. 12038
403 115. 71759
404 104. 43519
405 100.64352
406 98.80093
407 98. 916664
408 99.96296
409 100.84259
410 103.64352
411 106. 55093
412 saved to checkpoints/radar_predrnn_pp
413 itr: 5100
414 training loss: 16879.588
415 itr: 5200
416 training loss: 11720.925
417 itr: 5300
418 training loss: 4720.383
419 itr: 5400
420 training loss: 55501.902
```

```
File - interval_pred10_goontrain_result00
421 itr: 5500
422 training loss: 15675.008
423 itr: 5600
424 training loss: 7794.543
425 itr: 5700
426 training loss: 4011.4382
427 itr: 5800
428 training loss: 16165.885
429 itr: 5900
430 training loss: 14692.217
431 itr: 6000
432 training loss: 15577.669
433 test...
434 mse per seg: 38192.283164554174
435 1392. 8292629100658
436 2123. 985540036802
437 2806. 3972009729455
438 3459. 0231405187537
439 3934. 3045919912834
440 4265. 29625278049
441 4645. 196499577275
442 4948. 890489083749
443 5199. 317109991003
444 5417. 043076691804
445 psnr per frame: 11.690116
446 15. 310844
447 13. 552925
448 12.471068
449 11.71402
450 11. 2414055
451 10. 937182
452 10.655831
453 10.457454
454 10. 331958
455 10. 228475
456 fmae per frame: 5529.1685
457 3111. 2017
```

```
File - interval_pred10_goontrain_result00
458 3939.6672
459 4620.7495
460 5229. 2847
461 5661.855
462 5956. 7646
463 6314.806
464 6598. 2524
465 6829.5244
466 7029. 5815
467 ssim per frame: 0.6220852
468 0.68048286
469 0.65339446
470 0.63796663
471 0.62646973
472 0.6186329
473 0.6135429
474 0.6060142
475 0.6005271
476 0.5940274
477 0.5897938
478 sharpness per frame: 148.13982
479 180. 96297
480 152.125
481 149. 36574
482 145. 98611
483 141. 23148
484 138. 78703
485 139. 78241
486 141. 12962
487 143. 76852
488 148. 25926
489 itr: 6100
490 training loss: 16671.127
491 itr: 6200
492 training loss: 17016.57
493 itr: 6300
494 training loss: 8053.794
```

```
File - interval_pred10_goontrain_result00
495 itr: 6400
496 training loss: 11007.977
497 itr: 6500
498 training loss: 15624.711
499 itr: 6600
500 training loss: 24031.822
501 itr: 6700
502 training loss: 13385.505
503 itr: 6800
504 training loss: 9868.186
505 itr: 6900
506 training loss: 17762.426
507 itr: 7000
508 training loss: 17021.332
509 test...
510 mse per seq: 56893.19927046034
511 1504. 5961673877857
512 2609. 0081035472726
513 3749.81753483525
514 4825. 642430623372
515 5693. 397437766746
516 6385. 011909202293
517 7093. 297376279478
518 7754. 029637089482
519 8353. 952843560113
520 8924. 445830168548
521 psnr per frame: 9.692744
522 15.037267
523 12.667284
524 11.090141
525 9.990501
526 9. 209817
527 8.641186
528 8.145065
529 7.7118244
530 7.366103
531 7.068252
```

```
File - interval_pred10_goontrain_result00
532 fmae per frame: 7251.5205
533 2966. 3167
534 4108.857
535 5259. 2656
536 6340.656
537 7232. 3394
538 7951.636
539 8693.508
540 9378.638
541 9998.556
542 10585.434
543 ssim per frame: 0.58750284
544 0.6990845
545 0.6594477
546 0.6299065
547 0.6064386
548 0.58587855
549 0.5692588
550 0.55199414
551 0.53758895
552 0.5235381
553 0.51189256
554 sharpness per frame: 155.82639
555 <u>1</u>55. 34259
556 134. 93518
557 136. 11111
558 142. 2963
559 148. 41667
560 154. 89815
561 162. 48148
562 169. 08333
563 174. 31018
564 180. 38889
565 itr: 7100
566 training loss: 2067.8147
567 itr: 7200
568 training loss: 14269.418
```

```
File - interval_pred10_goontrain_result00
569 itr: 7300
570 training loss: 16287.409
571 itr: 7400
572 training loss: 16040.579
573 itr: 7500
574 training loss: 10134.472
575 itr: 7600
576 training loss: 20693.87
577 itr: 7700
578 training loss: 13737.855
579 itr: 7800
580 training loss: 9680.943
581 itr: 7900
582 training loss: 9444.875
583 itr: 8000
584 training loss: 6928.378
585 test...
586 mse per seq: 42001.4362534417
587 1332. 1084736011646
588 2070. 880881132903
589 2824. 9368393509476
590 3578. 2536516542787
591 4198. 514305679886
592 4673.826790986238
593 5200. 414679350676
594 5646. 717481542517
595 6048. 910134068242
596 6426. 873016074852
597 psnr per frame: 11.2649975
598 15. 4955015
599 13.624476
600 12. 369457
601 11. 454062
602 10.816981
603 10.390221
604 9.998243
605 9.704103
```

```
File - interval_pred10_goontrain_result00
606 9.492424
607 9.304509
608 fmae per frame: 5990.026
609 3138.7097
610 3927.848
611 4671.444
612 5385.725
613 5982.525
614 6438.6055
615 6961.855
616 7403.406
617 7805. 3257
618 8184.8145
619 ssim per frame: 0.6387204
620 0.7217826
621 0.6882883
622 0.6653733
623 0.64814645
624 0.6343328
625 0.6249389
626 0.61331415
627 0.6050422
628 0.5962752
629 0.5897097
630 sharpness per frame: 107.51805
631 120. 93056
632 99.68519
633 98.666664
634 101. 52778
635 103.77778
636 106.02778
637 108.25
638 111. 23148
639 111.75
640 113. 333336
641 itr: 8100
642 training loss: 4188.1562
```

```
File - interval_pred10_goontrain_result00
643 itr: 8200
644 training loss: 12680.747
645 itr: 8300
646 training loss: 11910.83
647 itr: 8400
648 training loss: 6262.1367
649 itr: 8500
650 training loss: 8725.
651 itr: 8600
652 training loss: 7444.297
653 itr: 8700
654 training loss: 5249.0376
655 itr: 8800
656 training loss: 10975.673
657 itr: 8900
658 training loss: 5559.4204
659 itr: 9000
660 training loss: 16148.076
661 test...
662 mse per seq: 34314.527267738624
663 1290. 5571998313621
664 1914. 9071092958804
665 2459. 2670853226273
666 2976. 1702222470885
667 3404. 514324894658
668 3749. 9870904993127
669 4165. 100555702492
670 4497. 50633126718
671 4793. 375155837448
672 5063. 142192840576
673 psnr per frame: 12.285524
674 15.63161
675 13. 942544
676 12. 984533
677 12. 294747
678 11.866229
679 11.584526
```

```
File - interval_pred10_goontrain_result00
680 11.32566
681 11. 154793
682 11.0680485
683 11.002555
684 fmae per frame: 5141.014
685 3034.0151
686 3760.7395
687 4334.86
688 4814.226
689 5190.941
690 5467.5522
691 5825.147
692 6097.23
693 6335.7397
694 6549.6914
695 ssim per frame: 0.6595932
696 0.7151559
697 0.6832195
698 0.66686106
699 0.6570476
700 0.65095216
701 0.648586
702 0.64443976
703 0.643544
704 0.6424966
705 0.6436301
706 sharpness per frame: 80.970375
707 105. 25926
708 84.44907
709 80.861115
710 80. 236115
711 79.46296
712 77.69444
713 76. 28241
714 75. 09722
715 75.34259
716 75. 01852
```

```
File - interval_pred10_goontrain_result00
717 itr: 9100
718 training loss: 12352.75
719 itr: 9200
720 training loss: 13318.594
721 itr: 9300
722 training loss: 7025.714
723 itr: 9400
724 training loss: 10197.487
725 itr: 9500
726 training loss: 12274.644
727 itr: 9600
728 training loss: 18055.45
729 itr: 9700
730 training loss: 14350.701
731 itr: 9800
732 training loss: 12937.046
733 itr: 9900
734 training loss: 6781.871
735 itr: 10000
736 training loss: 15732.596
737 test...
738 mse per seq: 35429.29673258463
739 1318. 3051715426975
740 1996. 9903527719002
741 2601. 4196246111833
742 3157. 2882080078125
743 3591. 0114113136574
744 3897. 166892722801
745 4269. 793770684137
746 4580. 053346987123
747 4865. 375335128219
748 5151. 8926188151045
749 psnr per frame: 11.741565
750 15.530556
751 13.740361
752 12.660061
753 11.8988
```

```
File - interval_pred10_goontrain_result00
754 11. 393187
755 11.050963
756 10.694706
757 10. 400757
758 10. 150276
759 9.89599
760 fmae per frame: 5720.218
761 3106.653
762 3985.0422
763 4698.7134
764 5321.878
765 5800.3877
766 6137. 9307
767 6545.693
768 6886.425
769 7201.057
770 7518.3936
771 ssim per frame: 0.6310468
772 0.71361417
773 0.6761121
774 0.6530342
775 0.63635015
776 0.6245362
777 0.61672515
778 0.60724187
779 0.60062677
780 0.5937537
781 0.58847356
782 sharpness per frame: 103.411575
783 111. 921295
784 97.97222
785 98.078705
786 98.46759
787 99. 98148
788 102.43056
789 104. 421295
790 105.60648
```

```
File - interval_pred10_goontrain_result00
791 107.02778
792 108. 208336
793 saved to checkpoints/radar_predrnn_pp
794 itr: 10100
795 training loss: 7588.5103
796 itr: 10200
797 training loss: 5691.5073
798 itr: 10300
799 training loss: 6366.718
800 itr: 10400
801 training loss: 10225.123
802 itr: 10500
803 training loss: 12535.766
804 itr: 10600
805 training loss: 6554.549
806 itr: 10700
807 training loss: 4792.4946
808 itr: 10800
809 training loss: 6617.35
810 itr: 10900
811 training loss: 2496.8955
812 itr: 11000
813 training loss: 16751.684
814 test...
815 mse per seq: 30084.07311206394
816 1230. 2530370641637
817 1830. 8963411119248
818 2337. 2242392080802
819 2778. 8470580489548
820 3112.0127687807435
821 3336.6590632685907
822 3604. 9182239108613
823 3800. 1144677621346
824 3954. 4290892989548
825 4098. 718823609529
826 psnr per frame: 12.616816
827 15.832384
```

```
File - interval_pred10_goontrain_result00
828 14.118565
829 13.166674
830 12.532237
831 12. 153102
832 11. 927502
833 11.735582
834 11.61697
835 11.5689125
836 11.516227
837 fmae per frame: 4863.3843
838 2790.126
839 3555. 3782
840 4161.735
841 4657.461
842 5019.4644
843 5254.5605
844 5534.5664
845 5734.6987
846 5889.8433
847 6036.007
848 ssim per frame: 0.64557135
849 0.7197773
850 0.6834252
851 0.6610865
852 0.64588934
853 0.63646483
854 0.6307482
855 0.6245243
856 0.62098116
857 0.617545
858 0.61527145
859 sharpness per frame: 123.77315
860 126.38426
861 111. 19444
862 111. 21759
863 113. 791664
864 117. 78704
```

```
File - interval_pred10_goontrain_result00
865 122. 208336
866 127.77778
867 131.89815
868 135. 91203
869 139. 56018
870 itr: 11100
871 training loss: 6705.1436
872 itr: 11200
873 training loss: 7080.6963
874 itr: 11300
875 training loss: 7194.187
876 itr: 11400
877 training loss: 13276.701
878 itr: 11500
879 training loss: 8915.438
880 itr: 11600
881 training loss: 6614.58
882 itr: 11700
883 training loss: 12283.231
884 itr: 11800
885 training loss: 6720.09
886 itr: 11900
887 training loss: 13437.351
888 itr: 12000
889 training loss: 7438.0776
890 test...
891 mse per seq: 38950.77887867115
892 1295. 8919576009114
893 2059. 5799696180557
894 2784. 0706982082793
895 3471. 2415568033853
896 3997. 1303354899087
897 4373. 446991814508
898 4804. 525309527362
899 5132. 021420937997
900 5401. 224072350396
901 5631.646566320349
```

```
File - interval_pred10_goontrain_result00
902 psnr per frame: 11.84543
903 15.661019
904 13. 735114
905 12.575536
906 11. 787116
907 11. 3064575
908 11.023875
909 10.76964
910 10.5972185
911 10.521812
912 10.476512
913 fmae per frame: 5348.202
914 2896.056
915 3656.847
916 4325. 981
917 4952. 4136
918 5434.793
919 5777.0103
920 6191.453
921 6504.672
922 6761.824
923 6980.9688
924 ssim per frame: 0.676544
925 0.7349495
926 0.7043042
927 0.6875112
928 0.6765759
929 0.6689578
930 0.66528815
931 0.6594377
932 0.65759593
933 0.6552076
934 0.6556119
935 sharpness per frame: 117.88287
936 151. 78241
937 135.09259
938 129. 30556
```

```
File - interval_pred10_goontrain_result00
939 121.861115
940 115.64815
941 111. 46296
942 108. 36574
943 104. 796295
944 102. 14815
945 98.36574
946 itr: 12100
947 training loss: 10386.842
948 itr: 12200
949 training loss: 9225.277
950 itr: 12300
951 training loss: 7024.9336
952 itr: 12400
953 training loss: 8889.508
954 itr: 12500
955 training loss: 11219.752
956 itr: 12600
957 training loss: 13404.103
958 <u>i tr:</u> 12700
959 training loss: 5678.54
960 itr: 12800
961 training loss: 10701.903
962 itr: 12900
963 training loss: 10720.846
964 itr: 13000
965 training loss: 8559.895
966 test...
967 mse per seg: 30550.009738498266
968 1195. 1236072116428
969 1789. 2357714617694
970 2285. 8879665798613
971 2717. 8373413085938
972 3075. 3318501225226
973 3335. 585302847403
974 3667. 468933529324
975 3933. 5243952715837
```

```
File - interval_pred10_goontrain_result00
 976 4165. 24843399613
 977 4384. 766136169434
 978 psnr per frame: 12.762021
 979 15. 953026
 980 14. 233782
 981 13. 299341
 982 12.694456
 983 12.317455
 984 12. 101799
 985 11.89527
 986 11.763986
 987 11.704139
 988 11.656956
 989 fmae per frame: 4739.3774
 990 2685.4932
 991 3471.4778
 992 4053.0872
 993 4509. 4185
 994 4858.876
 995 5089.3936
 996 5386.669
 997 5606. 3022
 998 5784. 7495
 999 5948.306
1000 ssim per frame: 0.6675591
1001 0.73399705
1002 0.696693
1003 0.67582434
1004 0.66349024
1005 0.6563468
1006 0.6533005
1007 0.64970505
1008 0.6488437
1009 0.64793766
1010 0.6494527
1011 sharpness per frame: 127.42407
1012 140.80092
```

```
File - interval_pred10_goontrain_result00
1013 120. 833336
1014 120. 28241
1015 122.0
1016 123.05093
1017 124.68056
1018 126. 50463
1019 130.0787
1020 132. 23148
1021 133.77777
1022 itr: 13100
1023 training loss: 8411.966
1024 itr: 13200
1025 training loss: 12835.392
1026 itr: 13300
1027 training loss: 10159.901
1028 itr: 13400
1029 training loss: 4349.7017
1030 itr: 13500
1031 training loss: 14182.166
1032 itr: 13600
1033 training loss: 6493.628
1034 itr: 13700
1035 training loss: 6904.731
1036 itr: 13800
1037 training loss: 8816.938
1038 itr: 13900
1039 training loss: 13468.591
1040 itr: 14000
1041 training loss: 10986.178
1042 test...
1043 mse per seq: 32958.50700604474
1044 1222. 980630380136
1045 1873. 2252007943612
1046 2454. 8284426088685
1047 2992. 2261544686776
1048 3388. 2138875325522
1049 3658. 335959540473
```

```
File - interval_pred10_goontrain_result00
1050 3984.686913949472
1051 4246. 507558186849
1052 4463. 701819525824
1053 4673.800439057527
1054 psnr per frame: 12.309454
1055 15.867949
1056 14.068451
1057 13.017011
1058 12. 2935295
1059 11.854951
1060 11.588569
1061 11.330237
1062 11.140745
1063 11.023369
1064 10.909727
1065 fmae per frame: 4963.121
1066 2868.745
1067 3631.8115
1068 4236.7554
1069 4756.92
1070 5115.3716
1071 5336.756
1072 5623.685
1073 5844.034
1074 6021.4897
1075 6195.643
1076 ssim per frame: 0.65640354
1077 0.730404
1078 0.6917538
1079 0.6697997
1080 0.6548295
1081 0.6457882
1082 0.641554
1083 0.6360648
1084 0.6333149
1085 0.630664
1086 0.6298626
```

1118 test...

1119 mse per seq: 27562.210870954728

1120 1136.0902828640408

1121 1666.1474951284904

1122 2088.4359012179902

1123 2448.263557151512

```
File - interval_pred10_goontrain_result00
1124 2742. 7389322916665
1125 2969. 8421780621566
1126 3270. 7304122359665
1127 3528. 5365058051216
1128 3751. 0854209617332
1129 3960. 340185236048
1130 psnr per frame: 13.136297
1131 16.170424
1132 14.526834
1133 13.681597
1134 13. 118918
1135 12.765957
1136 12.543108
1137 12.328698
1138 12. 1562605
1139 12.06757
1140 12.00361
1141 fmae per frame: 4511.4917
1142 2658. 298
1143 3434.6653
1144 3969.6729
1145 4358.8213
1146 4633.7354
1147 4815.373
1148 5059.308
1149 5245.176
1150 5396.851
1151 5543.0146
1152 ssim per frame: 0.6698626
1153 0.73586535
1154 0.6954772
1155 0.675042
1156 0.6633025
1157 0.6574504
1158 0.65534204
1159 0.6530491
1160 0.6536651
```

```
File - interval_pred10_goontrain_result00
1161 0.65395385
1162 0.65547854
1163 sharpness per frame: 156.68379
1164 164. 27777
1165 147.53703
1166 145. 91667
1167 147. 57408
1168 151.60648
1169 155. 80092
1170 159. 41203
1171 162. 72685
1172 164. 88889
1173 167. 09723
1174 saved to checkpoints/radar_predrnn_pp
1175 itr: 15100
1176 training loss: 6369.185
1177 itr: 15200
1178 training loss: 6317.2896
1179 itr: 15300
1180 training loss: 7507.9585
1181 itr: 15400
1182 training loss: 11444.385
1183 itr: 15500
1184 training loss: 9950.358
1185 itr: 15600
1186 training loss: 10535.751
1187 itr: 15700
1188 training loss: 10955.715
1189 itr: 15800
1190 training loss: 12408.418
1191 itr: 15900
1192 training loss: 7255.9697
1193 itr: 16000
1194 training loss: 11087.468
1195 test...
1196 mse per seg: 34774.151968779384
1197 1225. 1535469337746
```

```
File - interval_pred10_goontrain_result00
1198 1894. 5449221575702
1199 2522. 631474530255
1200 3112. 985980846264
1201 3570.065689086914
1202 3880. 0756352742515
1203 4254. 7090095237445
1204 4539. 358724806044
1205 4781. 273436369719
1206 4993. 35354925085
1207 psnr per frame: 12.105097
1208 15.887119
1209 14.034447
1210 12.907739
1211 12.120629
1212 11.623796
1213 11.331042
1214 11.0384865
1215 10.831343
1216 10.694787
1217 10.581581
1218 fmae per frame: 5016.0674
1219 2689. 42
1220 3481. 2817
1221 4118.669
1222 4688. 2886
1223 5122.5586
1224 5413.7104
1225 5782.7104
1226 6060. 2446
1227 6298.438
1228 6505.3506
1229 ssim per frame: 0.6509906
1230 0.72497517
1231 0.6880412
1232 0.6676422
1233 0.6531373
1234 0.6433
```

```
File - interval_pred10_goontrain_result00
1235 0.6373372
1236 0.62991863
1237 0.62575287
1238 0.62129253
1239 0.61850893
1240 sharpness per frame: 160.48056
1241 147. 91667
1242 139. 97685
1243 142.87038
1244 148. 78241
1245 155. 13426
1246 161. 19908
1247 167. 43518
1248 174.41203
1249 180. 81018
1250 186. 26852
1251 itr: 16100
1252 training loss: 5652.008
1253 itr: 16200
1254 training loss: 11238.973
1255 itr: 16300
1256 training loss: 5657.2085
1257 itr: 16400
1258 training loss: 7439.9614
1259 itr: 16500
1260 training loss: 3109.1243
1261 itr: 16600
1262 training loss: 12640.241
1263 itr: 16700
1264 training loss: 4194.693
1265 itr: 16800
1266 training loss: 12379.352
1267 itr: 16900
1268 training loss: 16003.344
1269 itr: 17000
1270 training loss: 9186.877
1271 test...
```

```
File - interval_pred10_goontrain_result00
1309 0.6774967
1310 0.67059755
1311 0.6678399
1312 0.6644795
1313 0.6637738
1314 0.663071
1315 0.6647527
1316 sharpness per frame: 135.26343
1317 162. 59259
1318 141.7963
1319 138. 12038
1320 136.66203
1321 134. 18056
1322 132. 125
1323 129. 48611
1324 128.00926
1325 125.81944
1326 123.84259
1327 itr: 17100
1328 training loss: 14214.133
1329 itr: 17200
1330 training loss: 7880.315
1331 itr: 17300
1332 training loss: 5503.8633
1333 itr: 17400
1334 training loss: 12512.146
1335 itr: 17500
1336 training loss: 11413.721
1337 itr: 17600
1338 training loss: 11055.939
1339 itr: 17700
1340 training loss: 2363.4058
1341 itr: 17800
1342 training loss: 3373.1167
1343 itr: 17900
1344 training loss: 9144.911
1345 itr: 18000
```

```
File - interval_pred10_goontrain_result00
1346 training loss: 9014.17
1347 test...
1348 mse per seq: 26360.27050611708
1349 1102. 5562349955242
1350 1615. 2768161914967
1351 2041. 4303871437355
1352 2415. 2549017447013
1353 2700. 0353797630028
1354 2887. 1985092163086
1355 3133. 98492219713
1356 3326. 6755527920195
1357 3492. 542401349103
1358 3645. 315400724058
1359 psnr per frame: 13.184395
1360 16.31487
1361 14.6552305
1362 13.763817
1363 13. 146075
1364 12. 765539
1365 12.538875
1366 12. 33439
1367 12. 184961
1368 12.100905
1369 12.039277
1370 fmae per frame: 4395.0864
1371 2592.0645
1372 3323.8025
1373 3849.7903
1374 4265. 2915
1375 4556. 3496
1376 4722.196
1377 4945.68
1378 5104.967
1379 5236. 3213
1380 5354.403
1381 ssim per frame: 0.677347
1382 0.75078046
```

```
File - interval_pred10_goontrain_result00
1383 0.7096912
1384 0.68688214
1385 0.6729611
1386 0.6650865
1387 0.66151935
1388 0.65772134
1389 0.6567794
1390 0.6556508
1391 0.65639764
1392 sharpness per frame: 181.63936
1393 198. 32408
1394 181. 59723
1395 176. 33797
1396 173. 52315
1397 175. 2037
1398 178. 31944
1399 181. 23611
1400 182. 9537
1401 184. 55556
1402 184. 34259
1403 itr: 18100
1404 training loss: 8357.783
1405 itr: 18200
1406 training loss: 11433.82
1407 itr: 18300
1408 training loss: 11385.378
1409 itr: 18400
1410 training loss: 13383.048
1411 itr: 18500
1412 training loss: 9443.361
1413 itr: 18600
1414 training loss: 5794.009
1415 itr: 18700
1416 training loss: 11021.581
1417 itr: 18800
1418 training loss: 7097.977
1419 itr: 18900
```

```
File - interval_pred10_goontrain_result00
1420 training loss: 6915.996
1421 itr: 19000
1422 training loss: 13469.206
1423 test...
1424 mse per seq: 22535.303357866076
1425 1060. 5375239054363
1426 1480. 0570203993057
1427 1805. 4909865767868
1428 2085. 910996613679
1429 2319. 05349194562
1430 2475.0786850540726
1431 2641. 1547187522606
1432 2782. 5924596433288
1433 2887. 561146630181
1434 2997. 866328345405
1435 psnr per frame: 13.614757
1436 16.474497
1437 14. 978465
1438 14. 213482
1439 13.6605425
1440 13.273132
1441 13.03506
1442 12.830555
1443 12.65329
1444 12.563013
1445 12.465533
1446 fmae per frame: 4239.543
1447 2637.8354
1448 3310.0034
1449 3767.3767
1450 4108.5845
1451 4372.5034
1452 4542. 9917
1453 4722.4443
1454 4869.703
1455 4977.371
1456 5086.619
```

```
File - interval_pred10_goontrain_result00
1494 training loss: 10372.61
1495 itr: 19900
1496 training loss: 13638.216
1497 itr: 20000
1498 training loss: 7172.8037
1499 test...
1500 mse per seq: 25133.710898505316
1501 1037. 8254168475116
1502 1401. 6919848124187
1503 1749. 599494792797
1504 2046. 3214622780129
1505 2403.71506245931
1506 2713. 9903058652526
1507 3068. 9178746541343
1508 3348. 40255412349
1509 3579.6810017338507
1510 3783. 56574093854
1511 psnr per frame: 13.548342
1512 16. 53101
1513 15. 19433
1514 14.395405
1515 13.870873
1516 13.342517
1517 12. 933684
1518 12.576217
1519 12.336249
1520 12. 201338
1521 12.101794
1522 fmae per frame: 4066.7
1523 2582.7473
1524 3042.8953
1525 3399.51
1526 3655.8374
1527 3975.892
1528 4251.512
1529 4585.316
1530 4846.3506
```

```
File - interval_pred10_goontrain_result00
1531 5064.6846
1532 5262.253
1533 ssim per frame: 0.6896661
1534 0. 7489853
1535 0.71767855
1536 0.7018294
1537 0.6931712
1538 0.6859669
1539 0.6797178
1540 0.6731407
1541 0.6687841
1542 0.66479164
1543 0.6625955
1544 sharpness per frame: 230.69121
1545 231.63889
1546 228. 59259
1547 226. 10185
1548 229. 70833
1549 229. 93056
1550 229. 91667
1551 230. 33333
1552 232. 49538
1553 234. 43056
1554 233. 76389
1555 saved to checkpoints/radar_predrnn_pp
1556 itr: 20100
1557 training loss: 11973.293
1558 itr: 20200
1559 training loss: 6931.383
1560 itr: 20300
1561 training loss: 9691.889
1562 itr: 20400
1563 training loss: 11965.711
1564 itr: 20500
1565 training loss: 11260.564
1566 itr: 20600
1567 training loss: 13023.53
```

```
File - interval_pred10_goontrain_result00
1568 itr: 20700
1569 training loss: 4521.354
1570 itr: 20800
1571 training loss: 13909.689
1572 itr: 20900
1573 training loss: 7923.9053
1574 itr: 21000
1575 training loss: 8701.981
1576 test...
1577 mse per seq: 24519.407750800805
1578 1008. 7212000246401
1579 1349. 295635647244
1580 1673.8715256585015
1581 1994. 1936798095703
1582 2339. 49301232232
1583 2641. 8564922191476
1584 2991. 4783279984085
1585 3273.813721974691
1586 3508.068641238742
1587 3738. 6155139075386
1588 psnr per frame: 13.696676
1589 16.671124
1590 15.370654
1591 14.612877
1592 14.020204
1593 13.510552
1594 13. 087116
1595 12.723419
1596 12.464065
1597 12.313618
1598 12. 193141
1599 fmae per frame: 3902.9146
1600 2393. 1777
1601 2866. 458
1602 3213.1287
1603 3512.7263
1604 3833.6365
```

```
File - interval_pred10_goontrain_result00
1605 4107.0474
1606 4432.107
1607 4685. 1714
1608 4891.2583
1609 5094. 4336
1610 ssim per frame: 0.7003155
1611 0.75700736
1612 0.72607064
1613 0.7112068
1614 0.7025346
1615 0.6953399
1616 0.6895874
1617 0.6838844
1618 0.68115604
1619 0.6784869
1620 0.67788124
1621 sharpness per frame: 198.89537
1622 213. 19908
1623 202. 15741
1624 197. 07408
1625 196. 23148
1626 196. 40741
1627 196. 49074
1628 197. 89352
1629 196. 27777
1630 197. 27777
1631 195. 94444
1632 itr: 21100
1633 training loss: 7735.246
1634 itr: 21200
1635 training loss: 10508.97
1636 itr: 21300
1637 training loss: 6217.395
1638 itr: 21400
1639 training loss: 9983.973
1640 itr: 21500
1641 training loss: 13486.844
```

```
File - interval_pred10_goontrain_result00
1642 itr: 21600
1643 training loss: 10688.146
1644 itr: 21700
1645 training loss: 9413.
1646 itr: 21800
1647 training loss: 9251.92
1648 itr: 21900
1649 training loss: 14308.809
1650 itr: 22000
1651 training loss: 7999.145
1652 test...
1653 mse per seq: 20888.87509169402
1654 987. 2680353235315
1655 1282. 70751119543
1656 1538. 244707884612
1657 1776. 7917709350586
1658 2044. 2172051888924
1659 2261. 2871545862267
1660 2501. 2261125070077
1661 2682.850478560836
1662 <u>2828</u>. 7504988776313
1663 2985. 531616634793
1664 psnr per frame: 14.131624
1665 16. 74771
1666 15.581377
1667 14.919402
1668 14.417979
1669 13.944017
1670 13. 573251
1671 13. 271468
1672 13.069276
1673 12. 951443
1674 12.840321
1675 fmae per frame: 3532.1594
1676 2299.23
1677 2737.758
1678 3033.181
```

```
File - interval_pred10_goontrain_result00
1679 3270. 1506
1680 3517.9802
1681 3717.18
1682 3947.5225
1683 4118.472
1684 4261. 2188
1685 4418.9023
1686 ssim per frame: 0.6938066
1687 0.7521248
1688 0. 7214713
1689 0.70571256
1690 0.69581795
1691 0.6890145
1692 0.6829236
1693 0.6776368
1694 0.6743847
1695 0.6707207
1696 0.66825944
1697 sharpness per frame: 213.76343
1698 219.41203
1699 214.8287
1700 212. 50462
1701 209. 56482
1702 208. 42592
1703 211. 99538
1704 214. 09723
1705 214.68518
1706 216. 26389
1707 215.85648
1708 itr: 22100
1709 training loss: 9361.514
1710 itr: 22200
1711 training loss: 9467.159
1712 itr: 22300
1713 training loss: 7158.996
1714 itr: 22400
1715 training loss: 5297.1055
```

```
File - interval_pred10_goontrain_result00
1716 itr: 22500
1717 training loss: 8325.203
1718 itr: 22600
1719 training loss: 10675.053
1720 itr: 22700
1721 training loss: 8732.779
1722 itr: 22800
1723 training loss: 603.0511
1724 itr: 22900
1725 training loss: 8148.8345
1726 itr: 23000
1727 training loss: 8837.702
1728 test...
1729 mse per seq: 20600.75637902154
1730 981. 4501875418204
1731 1275. 7252143577293
1732 1545. 9620826156051
1733 1796. 668758533619
1734 2014. 9444176002785
1735 2211. 7551778157554
1736 2403.803956490976
1737 2600. 6535927101418
1738 2783. 036534909849
1739 2986. 756456445765
1740 psnr per frame: 13.96686
1741 16. 791363
1742 15.592622
1743 14.869588
1744 14. 261487
1745 13.82101
1746 13.454726
1747 13. 125342
1748 12.8319435
1749 12.5801935
1750 12.340314
1751 fmae per frame: 3956.8457
1752 2661.5403
```

```
File - interval_pred10_goontrain_result00
1753 3096.231
1754 3429.5364
1755 3702.8801
1756 3936.8235
1757 4145.67
1758 4344.738
1759 4549.23
1760 4742.0063
1761 4959.8013
1762 ssim per frame: 0.6954485
1763 0.7621631
1764 0.7300632
1765 0.7124082
1766 0.7001048
1767 0.691634
1768 0.683806
1769 0.676879
1770 0.6716407
1771 0.6654233
1772 0.6603623
1773 sharpness per frame: 224.72176
1774 231. 42592
1775 225.83333
1776 217. 73611
1777 221.84723
1778 221. 4537
1779 222. 98611
1780 223. 78241
1781 225. 39352
1782 227. 59259
1783 229. 16667
1784 itr: 23100
1785 training loss: 8344.647
1786 itr: 23200
1787 training loss: 8455.173
1788 itr: 23300
1789 training loss: 9508.025
```

```
File - interval_pred10_goontrain_result00
1790 itr: 23400
1791 training loss: 13728.654
1792 itr: 23500
1793 training loss: 6438.32
1794 itr: 23600
1795 training loss: 6909.015
1796 itr: 23700
1797 training loss: 10318.025
1798 itr: 23800
1799 training loss: 5443.1104
1800 itr: 23900
1801 training loss: 10239.792
1802 itr: 24000
1803 training loss: 6359.597
1804 test...
1805 mse per seq: 17847.318978910094
1806 928. 5913401003237
1807 1157. 8559533578377
1808 1365. 0835708335594
1809 1539. 39563398008
1810 1743. 5426025390625
1811 1915. 7735961631493
1812 2093. 8227071408874
1813 2240. 1954902366356
1814 2367. 161915531865
1815 2495. 896169026693
1816 psnr per frame: 14.674738
1817 17.010904
1818 16.020487
1819 15.444842
1820 15.014146
1821 14.600098
1822 14. 226244
1823 13.918902
1824 13.679635
1825 13.49336
1826 13.3387575
```

```
File - interval_pred10_goontrain_result00
1827 fmae per frame: 3257.7622
1828 2186.7334
1829 2540. 2568
1830 2815.427
1831 3011.3782
1832 3236.7712
1833 3426. 9001
1834 3622.5767
1835 3778.872
1836 3911.8562
1837 4046.8516
1838 ssim per frame: 0.7006938
1839 0.7619094
1840 0.73439455
1841 0.71800494
1842 0.7074445
1843 0.6982156
1844 0.6895707
1845 0.68193084
1846 0.67669034
1847 0.6709765
1848 0.6678006
1849 sharpness per frame: 233.29585
1850 237.00926
1851 234. 14352
1852 230. 44908
1853 231. 10648
1854 231. 47685
1855 232. 4213
1856 233. 18982
1857 233.63426
1858 234. 97223
1859 234. 55556
1860 itr: 24100
1861 training loss: 11504.255
1862 itr: 24200
1863 training loss: 7499.852
```

```
File - interval_pred10_goontrain_result00
1864 itr: 24300
1865 training loss: 12478.688
1866 itr: 24400
1867 training loss: 8623.342
1868 itr: 24500
1869 training loss: 5093.4497
1870 itr: 24600
1871 training loss: 10099.793
1872 itr: 24700
1873 training loss: 7974.7725
1874 itr: 24800
1875 training loss: 7856.486
1876 itr: 24900
1877 training loss: 7993.18
1878 itr: 25000
1879 training loss: 4668.2935
1880 test...
1881 mse per seq: 17129.143354062682
1882 910. 3693659747088
1883 1117. 7298212404605
1884 1301. 6386923613372
1885 1463. 7815290380406
1886 1655. 5887593869809
1887 <u>1825</u>. 9653198807327
1888 1996. 6193874500416
1889 2145. 944887090612
1890 2281. 8914120992026
1891 2429. 6141795405633
1892 psnr per frame: 14.835788
1893 17.079851
1894 16. 152178
1895 15.621046
1896 15.206801
1897 14. 764971
1898 14.384228
1899 14.100788
1900 13.867057
```

```
File - interval_pred10_goontrain_result00
1901 13. 67661
1902 13.504356
1903 fmae per frame: 3149.468
1904 2152.0916
1905 2469.586
1906 2711.703
1907 2892.4937
1908 3113.7288
1909 3302.3926
1910 3489. 1582
1911 3644. 4949
1912 3784.3271
1913 3934.7021
1914 ssim per frame: 0.7089897
1915 0.7657822
1916 0.7406586
1917 0.7256335
1918 0.71611255
1919 0.7065946
1920 0.698067
1921 0.69111174
1922 0.6863703
1923 0.68111426
1924 0.67845184
1925 sharpness per frame: 232.83842
1926 237.74074
1927 233. 20833
1928 230. 4537
1929 232. 22685
1930 232. 43056
1931 232. 50462
1932 233. 53703
1933 232. 19444
1934 231. 98148
1935 232. 10648
1936 saved to checkpoints/radar_predrnn_pp
1937 itr: 25100
```

```
File - interval_pred10_goontrain_result00
1938 training loss: 11523.459
1939 itr: 25200
1940 training loss: 9205.012
1941 itr: 25300
1942 training loss: 9729.919
1943 itr: 25400
1944 training loss: 11200.232
1945 itr: 25500
1946 training loss: 8304.705
1947 itr: 25600
1948 training loss: 6578.2603
1949 itr: 25700
1950 training loss: 2889.3345
1951 itr: 25800
1952 training loss: 11299.491
1953 itr: 25900
1954 training loss: 7891.6426
1955 itr: 26000
1956 training loss: 2909.0955
1957 test...
1958 mse per seq: 20330.171537752503
1959 941.5163007665564
1960 1211. 0230527807164
1961 1467. 5320427506058
1962 1732. 0913730197483
1963 1977. 526268005371
1964 2187. 968608997486
1965 2421.804403093126
1966 2620. 85721093637
1967 2793. 0133910002533
1968 2976. 8388864022713
1969 psnr per frame: 14.354139
1970 16. 958115
1971 15.867898
1972 15. 211085
1973 14.6507015
1974 14. 194502
```

```
File - interval_pred10_goontrain_result00
1975 13.831728
1976 13.506234
1977 13. 272888
1978 13.105364
1979 12.942883
1980 fmae per frame: 3773.9673
1981 2599. 7295
1982 2932.6128
1983 3211. 3372
1984 3480.6138
1985 3727.5735
1986 3939.6318
1987 4180. 1255
1988 4380.3403
1989 4552.6914
1990 4735.0137
1991 ssim per frame: 0.7182856
1992 0.77124286
1993 0.7468759
1994 0. 7331395
1995 0.7226326
1996 0. 71524197
1997 0.7084113
1998 0.70225215
1999 0.6982654
2000 0.6936372
2001 0.6911573
2002 sharpness per frame: 235.775
2003 238.88426
2004 235. 69444
2005 235. 32408
2006 234.60648
2007 235. 45833
2008 237.50462
2009 236. 34723
2010 236. 38426
2011 234.57408
```

```
File - interval_pred10_goontrain_result00
2012 232. 97223
2013 itr: 26100
2014 training loss: 9286.733
2015 itr: 26200
2016 training loss: 13083.392
2017 itr: 26300
2018 training loss: 9206.384
2019 itr: 26400
2020 training loss: 10145.535
2021 itr: 26500
2022 training loss: 8033.214
2023 itr: 26600
2024 training loss: 8995.548
2025 itr: 26700
2026 training loss: 7605.392
2027 itr: 26800
2028 training loss: 11369.768
2029 itr: 26900
2030 training loss: 3344.6177
2031 itr: 27000
2032 training loss: 5732.0103
2033 test...
2034 mse per seq: 21217.19592631305
2035 935. 3963991800944
2036 1193.6511428267868
2037 1473. 8693340442799
2038 1717. 8361153779206
2039 2019. 6261236402725
2040 2287. 365793440077
2041 2560. 2129321628145
2042 2803. 5181424176253
2043 3012. 856767159921
2044 3212.863176063255
2045 psnr per frame: 14.351006
2046 16. 971067
2047 15.941478
2048 15. 251151
```

```
File - interval_pred10_goontrain_result00
2049 14. 785228
2050 14. 264309
2051 13.82256
2052 13.470521
2053 13. 175478
2054 12. 988647
2055 12.839617
2056 fmae per frame: 3457.4524
2057 2218.344
2058 2546.965
2059 2832.4678
2060 3056.5957
2061 3359.3848
2062 3628.4932
2063 3902.442
2064 4141.701
2065 4347.207
2066 4540.92
2067 ssim per frame: 0.711547
2068 0.7642923
2069 0.74023557
2070 0.7270717
2071 0.7189827
2072 0.71041983
2073 0.7018982
2074 0.6949486
2075 0.6902871
2076 0.68516684
2077 0.6821673
2078 sharpness per frame: 212.20927
2079 221. 91667
2080 215.03241
2081 212. 50462
2082 211.63889
2083 211. 91667
2084 211.03703
2085 211. 33333
```

```
File - interval_pred10_goontrain_result00
2086 209.89815
2087 209. 31482
2088 207.5
2089 itr: 27100
2090 training loss: 8204.669
2091 itr: 27200
2092 training loss: 12017.206
2093 itr: 27300
2094 training loss: 5135.9062
2095 itr: 27400
2096 training loss: 5457.1733
2097 itr: 27500
2098 training loss: 7890.9883
2099 itr: 27600
2100 training loss: 8945.037
2101 itr: 27700
2102 training loss: 7385.8145
2103 itr: 27800
2104 training loss: 6170.831
2105 itr: 27900
2106 training loss: 11553.535
2107 itr: 28000
2108 training loss: 6836.1797
2109 test...
2110 mse per seq: 15642.167536841498
2111 894. 1236336319535
2112 1092. 5046118277091
2113 1262. 7796140600133
2114 1386. 0518952828866
2115 1522. 116077988236
2116 1656. 7800955595794
2117 1773. 1180785850243
2118 1895. 9762893959328
2119 2013. 5835579766167
2120 2145. 1336825335466
2121 psnr per frame: 15.081499
2122 17. 167725
```

```
File - interval_pred10_goontrain_result00
2123 16. 245775
2124 15.72538
2125 15. 391609
2126 15.040596
2127 14. 700591
2128 14.441131
2129 14. 209065
2130 14.028349
2131 13.864763
2132 fmae per frame: 2952.33
2133 2139.356
2134 2433.8506
2135 2648.8162
2136 2781.9224
2137 2934. 1255
2138 3078. 1143
2139 3196.6343
2140 3315.3613
2141 3431.1624
2142 3563. 9597
2143 ssim per frame: 0.71425074
2144 0.76315486
2145 0.73967445
2146 0.72630805
2147 0. 7185 109
2148 0.7118365
2149 0.70465475
2150 0.6996029
2151 0.6964467
2152 0.69230694
2153 0.69001174
2154 sharpness per frame: 230.68474
2155 236. 58333
2156 232. 56944
2157 228. 31482
2158 226.88889
2159 230. 52315
```

```
File - interval_pred10_goontrain_result00
2160 230. 27315
2161 231. 44908
2162 231. 13889
2163 229. 43982
2164 229.66667
2165 itr: 28100
2166 training loss: 3704.0896
2167 itr: 28200
2168 training loss: 7261.778
2169 itr: 28300
2170 training loss: 5835.049
2171 itr: 28400
2172 training loss: 9416.394
2173 itr: 28500
2174 training loss: 6828.1367
2175 itr: 28600
2176 training loss: 3604.0874
2177 itr: 28700
2178 training loss: 6047.284
2179 itr: 28800
2180 training loss: 4627.8154
2181 itr: 28900
2182 training loss: 8682.439
2183 itr: 29000
2184 training loss: 6033.7524
2185 test...
2186 mse per seq: 15548.532795093677
2187 872. 2962933293095
2188 1056. 059677971734
2189 1225. 6354799623844
2190 1365. 186432732476
2191 1515. 7835275155526
2192 1664. 485034942627
2193 1785. 4867436444317
2194 1909. 511501877396
2195 2018. 5770273561832
2196 2135.511075761583
```

```
File - interval_pred10_goontrain_result00
2197 psnr per frame: 15.182187
2198 17. 261925
2199 16. 393211
2200 15.860569
2201 15.500779
2202 15. 120479
2203 14.745925
2204 14.513869
2205 14. 289099
2206 14.138036
2207 13.997988
2208 fmae per frame: 2869.4243
2209 2078. 2283
2210 2346.8635
2211 2547.439
2212 2690.9495
2213 2844. 1116
2214 3000.8252
2215 3123.51
2216 3245. 2197
2217 3351. 2896
2218 3465.8057
2219 ssim per frame: 0.7202257
2220 0.7655358
2221 0.7440845
2222 0.7318324
2223 0.7236684
2224 0.7178338
2225 0.7103688
2226 0.70614994
2227 0.70363873
2228 0.7001889
2229 0.6989563
2230 sharpness per frame: 226.21342
2231 237.94444
2232 232. 19444
2233 227. 48148
```

```
File - interval_pred10_goontrain_result00
2234 227. 22685
2235 226. 12038
2236 223. 38889
2237 223.87962
2238 222.85648
2239 220.625
2240 220. 41667
2241 itr: 29100
2242 training loss: 10932.014
2243 itr: 29200
2244 training loss: 7222.5615
2245 itr: 29300
2246 training loss: 8125.7593
2247 itr: 29400
2248 training loss: 9278.584
2249 itr: 29500
2250 training loss: 6067.6914
2251 itr: 29600
2252 training loss: 6556.7153
2253 itr: 29700
2254 training loss: 11161.238
2255 itr: 29800
2256 training loss: 11816.845
2257 itr: 29900
2258 training loss: 7511.658
2259 itr: 30000
2260 training loss: 3417.768
2261 test...
2262 mse per seq: 16457.05726778949
2263 899. 735715230306
2264 1098. 6649643226906
2265 1275. 3373581215187
2266 1416. 9725557963054
2267 1584. 445167400219
2268 1761. 7042585302281
2269 1903. 7007700602214
2270 2040. 3339852227105
```

```
File - interval_pred10_goontrain_result00
2271 2167. 975077593768
2272 2308. 1874155115197
2273 psnr per frame: 14.893417
2274 17.13436
2275 16. 196556
2276 15.632173
2277 15. 248531
2278 14.830764
2279 14.414181
2280 14.147786
2281 13. 933343
2282 13.777773
2283 13.6187
2284 fmae per frame: 3358.02
2285 2294.0037
2286 2639.633
2287 2910.102
2288 3102.0752
2289 3316. 2573
2290 3537.8904
2291 3714. 2278
2292 3872.6768
2293 4017.6199
2294 4175.714
2295 ssim per frame: 0.69079673
2296 0.7557438
2297 0.7286247
2298 0.71107334
2299 0.6993862
2300 0.68879193
2301 0.6776696
2302 0.669649
2303 0.664334
2304 0.6583104
2305 0.6543844
2306 sharpness per frame: 226.36018
2307 239.5787
```

```
File - interval_pred10_goontrain_result00
2308 232.84723
2309 228. 10648
2310 226. 70833
2311 224. 08797
2312 224.66203
2313 223. 94908
2314 223. 58333
2315 219.44444
2316 220.63426
2317 saved to checkpoints/radar_predrnn_pp
2318 itr: 30100
2319 training loss: 5495.2524
2320 itr: 30200
2321 training loss: 7238.416
2322 itr: 30300
2323 training loss: 7405.3394
2324 itr: 30400
2325 training loss: 6667.681
2326 itr: 30500
2327 training loss: 9420.183
2328 itr: 30600
2329 training loss: 3717.1077
2330 itr: 30700
2331 training loss: 9059.454
2332 itr: 30800
2333 training loss: 7449.289
2334 itr: 30900
2335 training loss: 7229.834
2336 itr: 31000
2337 training loss: 14688.834
2338 test...
2339 mse per seq: 33966.28066691646
2340 1070. 9929764359085
2341 1576. 100323005959
2342 2124. 103797347457
2343 2667. 5169833147966
2344 3275. 551268118399
```

```
File - interval_pred10_goontrain_result00
2345 3787. 3427858705872
2346 4334. 005095163981
2347 4743. 135479679814
2348 5056. 862198864972
2349 5330. 669759114583
2350 psnr per frame: 12.696864
2351 16.407316
2352 14.875879
2353 13.831109
2354 13.080048
2355 12.352
2356 11.811576
2357 11.396404
2358 11.148021
2359 11.056416
2360 11.00987
2361 fmae per frame: 4951.916
2362 2732.05
2363 3237. 1802
2364 3752.8857
2365 4250.741
2366 4830.4736
2367 5316.152
2368 5845.215
2369 6234.7065
2370 6530. 3223
2371 6789. 4336
2372 ssim per frame: 0.68756753
2373 0.7477343
2374 0.72138965
2375 0.70491487
2376 0.69368815
2377 0.6822559
2378 0.6747653
2379 0.66675156
2380 0.6631709
2381 0.6606832
```

```
File - interval_pred10_goontrain_result00
2382 0.66032183
2383 sharpness per frame: 154.90694
2384 195. 31018
2385 183.02777
2386 175. 99074
2387 169. 33333
2388 162.05092
2389 153.48148
2390 142.97223
2391 130. 80092
2392 121. 47222
2393 114.62963
2394 itr: 31100
2395 training loss: 10120.7705
2396 itr: 31200
2397 training loss: 3806.0
2398 itr: 31300
2399 training loss: 8955.897
2400 itr: 31400
2401 training loss: 9804.745
2402 itr: 31500
2403 training loss: 2828.5852
2404 itr: 31600
2405 training loss: 10106.065
2406 itr: 31700
2407 training loss: 6609.4453
2408 itr: 31800
2409 training loss: 8935.927
2410 itr: 31900
2411 training loss: 2222.4685
2412 itr: 32000
2413 training loss: 7570.9644
2414 test...
2415 mse per seq: 14783.158111572266
2416 847. 2315610249838
2417 1009. 6622893721969
2418 1153. 4648718657318
```

```
File - interval_pred10_goontrain_result00
2419 1269. 8332679183395
2420 1430. 7328147888184
2421 1565. 1505939342358
2422 1706. 3156515050816
2423 1820. 9319667109737
2424 1922. 2142050001357
2425 2057. 6208894517686
2426 psnr per frame: 15.456268
2427 17.368761
2428 16.5882
2429 16. 137154
2430 15.824845
2431 15. 434216
2432 15.072084
2433 14.802067
2434 14.598475
2435 14.463383
2436 14.273493
2437 fmae per frame: 2900.0466
2438 2153.8582
2439 2391.6357
2440 2566.0908
2441 2692.6404
2442 2865. 7896
2443 3013.3142
2444 3162.452
2445 3278. 1265
2446 3373.0767
2447 3503.484
2448 ssim per frame: 0.7221473
2449 0.76882833
2450 0.7485659
2451 0.7368152
2452 0.7288439
2453 0.7212661
2454 0.7124234
2455 0.70618486
```

```
File - interval_pred10_goontrain_result00
2456 0.70290744
2457 0.6990182
2458 0.69661933
2459 sharpness per frame: 232.17317
2460 238.5
2461 236. 76852
2462 235. 35185
2463 232. 16667
2464 232. 47685
2465 231.94444
2466 231. 46297
2467 229. 24074
2468 227.54167
2469 226. 27777
2470 itr: 32100
2471 training loss: 5818.466
2472 itr: 32200
2473 training loss: 9713.3125
2474 itr: 32300
2475 training loss: 5406.4688
2476 itr: 32400
2477 training loss: 2686.7495
2478 itr: 32500
2479 training loss: 3561.26
2480 itr: 32600
2481 training loss: 7075.465
2482 itr: 32700
2483 training loss: 7933.3994
2484 itr: 32800
2485 training loss: 10341.457
2486 itr: 32900
2487 training loss: 7134.7646
2488 itr: 33000
2489 training loss: 5005.2065
2490 test...
2491 mse per seq: 13208.581715124625
2492 834. 3110690646702
```

```
File - interval_pred10_goontrain_result00
2493 974. 2397833930122
2494 1096. 8012514467594
2495 1189. 784331286395
2496 1294. 7348839088722
2497 1405. 1565469812465
2498 1479. 2374606662327
2499 1560. 6949720029477
2500 1634. 514453181514
2501 1739. 1069631929752
2502 psnr per frame: 15.75253
2503 17.455278
2504 16.735695
2505 16.31028
2506 16.021807
2507 15. 722291
2508 15.399971
2509 15. 213014
2510 15.023893
2511 14. 900931
2512 14.742144
2513 fmae per frame: 2636.7974
2514 1991.001
2515 2215.5615
2516 2390. 3096
2517 2504.9482
2518 2631. 2278
2519 2758.878
2520 2843.1343
2521 2926.807
2522 2999.9714
2523 3106. 1345
2524 ssim per frame: 0.7302638
2525 0.77377135
2526 0.7542958
2527 0.7422665
2528 0.7345663
2529 0.7285775
```

```
File - interval_pred10_goontrain_result00
2530 0.7205922
2531 0.7165111
2532 0.71382064
2533 0.7101113
2534 0.70812535
2535 sharpness per frame: 233.47546
2536 239.73148
2537 239. 22685
2538 235. 70833
2539 235. 10185
2540 232. 97685
2541 232. 33333
2542 230.87962
2543 230. 68518
2544 229. 37038
2545 228.74074
2546 itr: 33100
2547 training loss: 3464.4927
2548 itr: 33200
2549 training loss: 9057.967
2550 itr: 33300
2551 training loss: 8474.031
2552 itr: 33400
2553 training loss: 6262.6484
2554 itr: 33500
2555 training loss: 6033.3286
2556 itr: 33600
2557 training loss: 9711.25
2558 itr: 33700
2559 training loss: 6037.428
2560 itr: 33800
2561 training loss: 10556.181
2562 itr: 33900
2563 training loss: 8858.64
2564 itr: 34000
2565 training loss: 8537.353
2566 test...
```

```
File - interval_pred10_goontrain_result00
2567 mse per seq: 15048.37601075349
2568 862. 1680376971209
2569 1014. 253103044298
2570 1158. 48101594713
2571 1260. 33835389879
2572 1418. 555441538493
2573 1576. 6912237096715
2574 1721. 5038228918004
2575 1871. 5457139191803
2576 2006. 0751989859123
2577 2158. 7640991210938
2578 psnr per frame: 15.277533
2579 17. 267107
2580 16.506756
2581 16.019539
2582 15.710175
2583 15. 306996
2584 14.904549
2585 14.615174
2586 14.337356
2587 14. 139382
2588 13.968293
2589 fmae per frame: 3351.5833
2590 2569.3884
2591 2798.915
2592 2989. 2437
2593 3109. 2607
2594 3285. 2021
2595 3453.961
2596 3605.338
2597 3757.7808
2598 3894.647
2599 4052.0974
2600 ssim per frame: 0.7138131
2601 0.7606959
2602 0.741261
2603 0.7284588
```

```
File - interval_pred10_goontrain_result00
2604 0.7206228
2605 0.7127855
2606 0.7041154
2607 0.6987739
2608 0.6946229
2609 0.68970823
2610 0.68708634
2611 sharpness per frame: 227.57036
2612 235. 36574
2613 233. 99538
2614 229. 58333
2615 229.06482
2616 228.89815
2617 226. 16203
2618 223. 2963
2619 223. 37038
2620 224.50926
2621 221. 45833
2622 itr: 34100
2623 training loss: 5618.965
2624 itr: 34200
2625 training loss: 9036.583
2626 itr: 34300
2627 training loss: 9749.382
2628 itr: 34400
2629 training loss: 6693.2134
2630 itr: 34500
2631 training loss: 8260.56
2632 itr: 34600
2633 training loss: 8842.307
2634 itr: 34700
2635 training loss: 10238.896
2636 itr: 34800
2637 training loss: 8369.008
2638 itr: 34900
2639 training loss: 7598.616
2640 itr: 35000
```

```
File - interval_pred10_goontrain_result00
2641 training loss: 3409.2983
2642 test...
2643 mse per seq: 13720.34928145232
2644 836. 3399567780672
2645 977. 85658843429
2646 1100. 7888563650627
2647 1192. 2854420697247
2648 1316. 7786297268337
2649 1440. 2868546379937
2650 1547. 1695846275047
2651 1654.687787939001
2652 1759. 1750423290111
2653 1894. 9805385448315
2654 psnr per frame: 15.580095
2655 17.416319
2656 16.666985
2657 16. 233963
2658 15.936305
2659 15.587977
2660 15.216573
2661 14.97423
2662 14.752588
2663 14.596638
2664 14.419379
2665 fmae per frame: 2976.1287
2666 2286. 9849
2667 2508. 2913
2668 2681.0063
2669 2796. 1155
2670 2936. 3162
2671 3076.156
2672 3193.4204
2673 3308.0327
2674 3418. 4316
2675 3556.5315
2676 ssim per frame: 0.7246189
2677 0.77129626
```

```
File - interval_pred10_goontrain_result00
2678 0.75157785
2679 0.7391362
2680 0.7305301
2681 0.7237481
2682 0.7151447
2683 0.7098231
2684 0.7055263
2685 0.7008181
2686 0.6985885
2687 sharpness per frame: 222.26944
2688 236. 13426
2689 231.5
2690 226. 43982
2691 223. 36111
2692 220.87038
2693 220. 18518
2694 220. 37962
2695 217. 48611
2696 213.73148
2697 212.60648
2698 saved to checkpoints/radar_predrnn_pp
2699 itr: 35100
2700 training loss: 4264.928
2701 itr: 35200
2702 training loss: 3635.6736
2703 itr: 35300
2704 training loss: 6873.545
2705 itr: 35400
2706 training loss: 7444.7466
2707 itr: 35500
2708 training loss: 9818.968
2709 itr: 35600
2710 training loss: 3885.1934
2711 itr: 35700
2712 training loss: 5064.5737
2713 itr: 35800
2714 training loss: 10697.07
```

```
File - interval_pred10_goontrain_result00
2715 itr: 35900
2716 training loss: 7084.79
2717 itr: 36000
2718 training loss: 6591.1436
2719 test...
2720 mse per seq: 12397.11435982033
2721 817. 1335507145634
2722 937. 6457037749113
2723 1041. 8611177515102
2724 1115. 3540378146702
2725 1214. 2269619129322
2726 1308. 5795012580024
2727 1383. 7016523855705
2728 1449. 3597325925473
2729 1516. 3941325434932
2730 1612. 85796907213
2731 psnr per frame: 15.92497
2732 17.54034
2733 16.867418
2734 16. 466259
2735 16. 2005 54
2736 15.898287
2737 15.591333
2738 15.404949
2739 15. 240281
2740 15.108417
2741 14. 931868
2742 fmae per frame: 2578.479
2743 1975. 4305
2744 2189. 4124
2745 2360.7148
2746 2462.9792
2747 2586.0186
2748 2697.141
2749 2777.728
2750 2840.9426
2751 2901. 5222
```

```
File - interval_pred10_goontrain_result00
2752 2992.9019
2753 ssim per frame: 0.73114663
2754 0.77355653
2755 0.7548809
2756 0.7424786
2757 0.7344368
2758 0.728064
2759 0.72119635
2760 0.7175382
2761 0.7157643
2762 0.71235365
2763 0.711197
2764 sharpness per frame: 235.61853
2765 242.68518
2766 239. 4213
2767 235. 94444
2768 236. 78241
2769 235. 78703
2770 234.60648
2771 233.69444
2772 233.74538
2773 231.83797
2774 231.68056
2775 itr: 36100
2776 training loss: 6792.5854
2777 itr: 36200
2778 training loss: 7513.9067
2779 itr: 36300
2780 training loss: 5217.8813
2781 itr: 36400
2782 training loss: 5034.076
2783 itr: 36500
2784 training loss: 13209.593
2785 itr: 36600
2786 training loss: 3563.9639
2787 itr: 36700
2788 training loss: 9691.662
```

```
File - interval_pred10_goontrain_result00
2789 itr: 36800
2790 training loss: 2004.0757
2791 itr: 36900
2792 training loss: 8297.305
2793 itr: 37000
2794 training loss: 2595.0095
2795 test...
2796 mse per seq: 12673.567346219663
2797 828. 6380983988444
2798 955. 9587010984068
2799 1061. 7709158438224
2800 1145. 9190856085884
2801 1246. 2827573705601
2802 1344.0587474681713
2803 1407. 985273996989
2804 1476. 1590697677048
2805 1557. 8967003998932
2806 1648. 8979962666829
2807 psnr per frame: 15.815244
2808 17.485723
2809 16.78774
2810 16.397165
2811 16.089554
2812 15. 785146
2813 15.475585
2814 15.300309
2815 15. 122334
2816 14.945263
2817 14.763625
2818 fmae per frame: 2602.9817
2819 1991.0858
2820 2210.3708
2821 2371.7144
2822 2479.2903
2823 2601.6135
2824 2720.163
2825 2792.0208
```

```
File - interval_pred10_goontrain_result00
2826 2867.236
2827 2952.0374
2828 3044. 2842
2829 ssim per frame: 0.7338588
2830 0.7774306
2831 0.75796205
2832 0.74610776
2833 0.73803526
2834 0.7317624
2835 0.7246266
2836 0.7205108
2837 0.71765566
2838 0.71340454
2839 0.71109253
2840 sharpness per frame: 238.25095
2841 243. 90277
2842 242.0
2843 239. 99538
2844 237. 92592
2845 238.81018
2846 236. 25926
2847 237. 49074
2848 236. 27315
2849 235. 30092
2850 234.55092
2851 itr: 37100
2852 training loss: 3424.6462
2853 itr: 37200
2854 training loss: 6479.925
2855 itr: 37300
2856 training loss: 1054.299
2857 itr: 37400
2858 training loss: 11080.401
2859 itr: 37500
2860 training loss: 5727.0303
2861 itr: 37600
2862 training loss: 6253.158
```

```
File - interval_pred10_goontrain_result00
2863 itr: 37700
2864 training loss: 4389.5596
2865 itr: 37800
2866 training loss: 7903.
2867 itr: 37900
2868 training loss: 7797.4546
2869 itr: 38000
2870 training loss: 8201.942
2871 test...
2872 mse per seq: 12524.915420037729
2873 814. 1487292536983
2874 946. 8502488312898
2875 1059. 3391513118038
2876 1127.617763378002
2877 1227. 608472329599
2878 1323.6138516178837
2879 1399. 035479227702
2880 1462. 4873648749458
2881 1534. 3558702822086
2882 1629. 8584889305962
2883 psnr per frame: 15.968923
2884 17.55686
2885 16.866123
2886 16.47878
2887 16. 238663
2888 15.948718
2889 15.636356
2890 15.457573
2891 15. 305408
2892 15. 177447
2893 15.023296
2894 fmae per frame: 2459.2485
2895 1922.7112
2896 2110.912
2897 2255.759
2898 2337.3062
2899 2448.5464
```

```
File - interval_pred10_goontrain_result00
2900 2558.458
2901 2637.6482
2902 2699.7458
2903 2765. 1584
2904 2856. 2427
2905 ssim per frame: 0.74643207
2906 0.781018
2907 0.76528865
2908 0.75605595
2909 0.7500243
2910 0.744955
2911 0.73817855
2912 0.7350296
2913 0.73340935
2914 0.73073053
2915 0.7296309
2916 sharpness per frame: 233.15694
2917 241.81018
2918 237.94908
2919 236. 05556
2920 232.625
2921 232.84723
2922 231. 87962
2923 231.53703
2924 230. 40741
2925 228. 25
2926 228. 20833
2927 itr: 38100
2928 training loss: 7005.2627
2929 itr: 38200
2930 training loss: 2924.9487
2931 itr: 38300
2932 training loss: 6676.8516
2933 itr: 38400
2934 training loss: 7116.4736
2935 itr: 38500
2936 training loss: 6162.5103
```

```
File - interval_pred10_goontrain_result00
2937 itr: 38600
2938 training loss: 10676.795
2939 itr: 38700
2940 training loss: 2543.67
2941 itr: 38800
2942 training loss: 5991.381
2943 itr: 38900
2944 training loss: 4773.154
2945 itr: 39000
2946 training loss: 2181.0796
2947 test...
2948 mse per seq: 12904.5412012736
2949 814. 5785875673647
2950 949.6584964328342
2951 1066. 7436075563785
2952 1146. 6942657188133
2953 1261. 9555583530002
2954 1367. 5554853368687
2955 1455. 4077487521702
2956 1530. 6109144422744
2957 1609. 535627718325
2958 1701.8009093955711
2959 psnr per frame: 15.853157
2960 17.548647
2961 16.852959
2962 16. 425476
2963 16. 145239
2964 15.819045
2965 15.496633
2966 15. 291635
2967 15.135906
2968 14. 985204
2969 14.8308325
2970 fmae per frame: 2603.1594
2971 2022. 5798
2972 2223. 5217
2973 2378. 4348
```

```
File - interval_pred10_goontrain_result00
2974 2467.7795
2975 2591.4963
2976 2705.5974
2977 2796. 1157
2978 2868.3198
2979 2944.403
2980 3033.3464
2981 ssim per frame: 0.7426323
2982 0.7783099
2983 0.76181895
2984 0.7522468
2985 0.7463341
2986 0.741183
2987 0.73445594
2988 0.7312172
2989 0.72960806
2990 0.7261598
2991 0.72498935
2992 sharpness per frame: 230.819
2993 238. 22685
2994 234. 20833
2995 231.875
2996 231. 05092
2997 229. 23148
2998 230. 76389
2999 229.77777
3000 228.875
3001 227.49074
3002 226.68982
3003 itr: 39100
3004 training loss: 3758.6648
3005 itr: 39200
3006 training loss: 9511.559
3007 itr: 39300
3008 training loss: 9000.727
3009 itr: 39400
3010 training loss: 6102.291
```

```
File - interval_pred10_goontrain_result00
3011 itr: 39500
3012 training loss: 5876.1406
3013 itr: 39600
3014 training loss: 11540.758
3015 itr: 39700
3016 training loss: 6569.537
3017 itr: 39800
3018 training loss: 4737.087
3019 itr: 39900
3020 training loss: 3433.4084
3021 itr: 40000
3022 training loss: 1377.0564
3023 test...
3024 mse per seq: 11706.848612961945
3025 803. 396430545383
3026 917. 2033160174334
3027 1008. 0750920331037
3028 1063. 726293351915
3029 1144. 4676274900082
3030 1235. 235226949056
3031 1284. 1440359044957
3032 1343. 3129949216489
3033 1410. 8981571903935
3034 1496. 389438558508
3035 psnr per frame: 16.148548
3036 17.602774
3037 16.965937
3038 16.62842
3039 16. 405502
3040 16. 136818
3041 15.827235
3042 15.675059
3043 15.542498
3044 15. 425053
3045 15. 27619
3046 fmae per frame: 2424.4727
3047 1929. 789
```

```
File - interval_pred10_goontrain_result00
3048 2110.895
3049 2252.475
3050 2329.0415
3051 2425.7136
3052 2531.972
3053 2579.7703
3054 2628.87
3055 2689.719
3056 2766.48
3057 ssim per frame: 0.7437955
3058 0.7780155
3059 0.7624893
3060 0.7523818
3061 0.74611014
3062 0.74151605
3063 0.73490065
3064 0.7325562
3065 0.7318774
3066 0.7291249
3067 0.72898287
3068 sharpness per frame: 234.39397
3069 242. 4537
3070 237. 55556
3071 237. 42592
3072 236.06018
3073 233.85185
3074 232. 25926
3075 233.02777
3076 231. 94444
3077 230. 28703
3078 229.07408
3079 saved to checkpoints/radar_predrnn_pp
3080 itr: 40100
3081 training loss: 5435.438
3082 itr: 40200
3083 training loss: 8730.577
3084 itr: 40300
```

```
File - interval_pred10_goontrain_result00
3085 training loss: 4954.0723
3086 itr: 40400
3087 training loss: 8909.751
     ^CTraceback (most recent call last):
3088
       File "/home/sunfengzhen/pycharm/
3089
     interval_pred10_goontrain_resultpd00_predrnnpp/
      nterval_pred10_goontrain_result00.py", line 368, in <module>
         tf.app.run()
3090
       File "/usr/local/lib/python2.7/dist-packages/tensorflow/
3091
     python/platform/app.py", line 125, in run
3092
         sys.exit(main(argv))
3093
       File "/home/sunfengzhen/pycharm/
      interval_pred10_goontrain_resultpd00_predrnnpp/
      nterval_pred10_goontrain_result00.py", line 246, in main
3094
         cost = model.train(ims, Ir, mask_true) #elesun not train
     only test
       File "/home/sunfengzhen/pycharm/
3095
     interval_pred10_goontrain_resultpd00_predrnnpp/
     interval_pred10_goontrain_result00.py", line 173, in train
         loss, _ = self.sess.run((self.loss_train, self.train_op),
3096
     feed dict)
3097
       File "/usr/local/lib/python2.7/dist-packages/tensorflow/
     python/client/session.py", line 929, in run
3098
         run metadata ptr)
       File "/usr/local/lib/python2.7/dist-packages/tensorflow/
3099
     python/client/session.py", line 1152, in _run
         feed_dict_tensor, options, run_metadata)
3100
       File "/usr/local/lib/python2.7/dist-packages/tensorflow/
3101
     python/client/session.py", line 1328, in do run
3102
         run_metadata)
       File "/usr/local/lib/python2.7/dist-packages/tensorflow/
3103
     python/client/session.py", line 1334, in _do_call
3104
         return fn(*args)
       File "/usr/local/lib/python2.7/dist-packages/tensorflow/
3105
     python/client/session.py", line 1319, in _run_fn
         options, feed_dict, fetch_list, target_list, run_metadata)
3106
3107
       File "/usr/local/lib/python2.7/dist-packages/tensorflow/
```

```
3107 python/client/session.py", line 1407, in _call_tf_sessionrun
3108    run_metadata)
3109 KeyboardInterrupt
3110
3111 Process finished with exit code -1
3112
```