```
Hybrid levels = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,
20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39,
40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50
```

```
#:0:d=2018013000:PRES:## hybrid level:anl                              Pressure (Pa)
#:2297525:d=2018013000:CLWMR:## hybrid level:anl   Cloud water mixing ratio (kg/kg)
#:2315445:d=2018013000:CICE:## hybrid level:anl     Cloud ice mixing ratio (kg/kg)
#:2349990:d=2018013000:RWMR:## hybrid level:anl          Rain mixing ratio (kg/kg)
#:2444735:d=2018013000:SNMR:## hybrid level:anl          Snow mixing ratio (kg/kg)
#:2524471:d=2018013000:GRLE:## hybrid level:anl       Graupel mixing ratio (kg/kg)
#:2552097:d=2018013000:NCONCD:## hybrid level:anl   Num. conc. Cloud Drops (kg-1)
#:2568119:d=2018013000:NCCICE:## hybrid level:anl     Num. conc. Cloud Ice (kg-1)
#:2618872:d=2018013000:var discipline=0 master_table=2 parmcat=1 parm=100: ## hybrid level:anl
#:2708549:d=2018013000:PMTF:## hybrid level:anl               PM-fine (10-6gm-3)
#:3246710:d=2018013000:PMTC:## hybrid level:anl             PM-course (10-6gm-3)
#:3513541:d=2018013000:TCDC:## hybrid level:anl           Total Cloud Cover (%)
#:3612611:d=2018013000:FRACCC:## hybrid level:anl   Fraction Cloud Cover (numeric)
#:3686286:d=2018013000:HGT:## hybrid level:anl          Geopotential Height (m)
#:6046675:d=2018013000:TMP:## hybrid level:anl                 Temperature (K)
#:7185472:d=2018013000:SPFH:## hybrid level:anl         Specific Humidity (kg/kg)
#:8329160:d=2018013000:UGRD:## hybrid level:anl         U-component Wind (m/s)
#:9446156:d=2018013000:VGRD:## hybrid level:anl         V-component Wind (m/s)
#:10556852:d=2018013000:VVEL:## hybrid level:anl      Vertical Velocity (Pa/s)
#:11623250:d=2018013000:TKE:## hybrid level:anl   Turbulent Kinetic Energy (m2/m2)
```

sfc fields appended below:

```
578:266774633:d=2017120114:REFC:entire atmosphere:anl:
579:267089366:d=2017120114:RETOP:cloud top:anl:
580:267193153:d=2017120114:VIL:entire atmosphere:anl:
581:267433948:d=2017120114:VIS:surface:anl:
582:268784292:d=2017120114:REFD:1000 m above ground:anl:
583:268921534:d=2017120114:REFD:4000 m above ground:anl:
584:269036925:d=2017120114:REFD:263 K level:anl:
585:269186569:d=2017120114:GUST:surface:anl:
586:270455091:d=2017120114:MAXUVV:400-1000 mb above ground:0-0 day max fcst:
587:270544562:d=2017120114:MAXDVV:400-1000 mb above ground:0-0 day max fcst:
588:270826881:d=2017120114:DZDT:0.5-0.8 sigma layer:0-0 day ave fcst:
589:271036327:d=2017120114:MSLMA:mean sea level:anl:
590:271654231:d=2017120114:HGT:1000 mb:anl:
591:272400841:d=2017120114:MAXREF:1000 m above ground:0-0 day max fcst:
592:272500095:d=2017120114:MXUPHL:5000-2000 m above ground::
593:272500307:d=2017120114:TCOLG:entire atmosphere (considered as a single layer):0-0 day max fcst:
594:272521920:d=2017120114:LTNG:entire atmosphere:anl:
595:272522108:d=2017120114:UGRD:80 m above ground:anl:
596:273677791:d=2017120114:VGRD:80 m above ground:anl:
597:274839652:d=2017120114:PRES:surface:anl:
598:276428047:d=2017120114:HGT:surface:anl:
599:278662824:d=2017120114:TMP:surface:anl:
600:280109614:d=2017120114:ASNOW:surface:0-0 day acc fcst:
601:280109826:d=2017120114:MSTAV:0 m underground:anl:
602:281398499:d=2017120114:CNWAT:surface:anl:
603:281537456:d=2017120114:WEASD:surface:anl:
604:281917347:d=2017120114:SNOWC:surface:anl:
605:282030629:d=2017120114:SNOD:surface:anl:
606:282337303:d=2017120114:TMP:2 m above ground:anl:
607:283626757:d=2017120114:POT:2 m above ground:anl:
608:284919883:d=2017120114:SPFH:2 m above ground:anl:
609:286176992:d=2017120114:DPT:2 m above ground:anl:
610:287273793:d=2017120114:RH:2 m above ground:anl:
611:288835446:d=2017120114:UGRD:10 m above ground:anl:
612:290079182:d=2017120114:VGRD:10 m above ground:anl:
613:291283336:d=2017120114:WIND:10 m above ground:0-0 day max fcst:
614:292500713:d=2017120114:CPOFP:surface:anl:
615:292500901:d=2017120114:PRATE:surface:anl:
616:292501089:d=2017120114:APCP:surface:0-0 hour acc fcst:         Accum. since run start
     1hr Accum. (f02-f18) :APCP:surface:1-2 hour acc fcst:          Accum. Previous hour
617:292501301:d=2017120114:WEASD:surface:0-0 day acc fcst:         Accum. since run start
     1hr Accum. (f02-f18) :WEASD:surface:1-2 hour acc fcst:         Accum. Previous hour
618:292501513:d=2017120114:FROZR:surface:0-0 day acc fcst:         Accum. since run start
     1hr Accum. (f02-f18) :FROZR:surface:1-2 day acc fcst:          Accum. Previous hour
```

```
619:292501725:d=2017120114:SSRUN:surface:0-0 day acc fcst:
620:292501937:d=2017120114:BGRUN:surface:0-0 day acc fcst:
621:292502149:d=2017120114:CSNOW:surface:anl:
622:292502337:d=2017120114:CICEP:surface:anl:
623:292502525:d=2017120114:CFRZR:surface:anl:
624:292502713:d=2017120114:CRAIN:surface:anl:
625:292502901:d=2017120114:SFCR:surface:anl:
626:292503089:d=2017120114:FRICV:surface:anl:
627:293568838:d=2017120114:SHTFL:surface:anl:
628:294222892:d=2017120114:LHTFL:surface:anl:
629:295328001:d=2017120114:GFLUX:surface:anl:
630:295913701:d=2017120114:VGTYP:surface:anl:
631:296694506:d=2017120114:LFTX:500-1000 mb:anl:
632:297740639:d=2017120114:CAPE:surface:anl:
633:298005286:d=2017120114:CIN:surface:anl:
634:298348303:d=2017120114:PWAT:entire atmosphere (considered as a single layer):anl:
635:299235620:d=2017120114:LCDC:low cloud layer:anl:
636:299941357:d=2017120114:MCDC:middle cloud layer:anl:
637:300181568:d=2017120114:HCDC:high cloud layer:anl:
638:300304657:d=2017120114:TCDC:entire atmosphere:anl:
639:301087415:d=2017120114:PRES:cloud base:anl:
640:301735302:d=2017120114:HGT:cloud base:anl:
641:302748559:d=2017120114:HGT:cloud ceiling:anl:
642:303926356:d=2017120114:PRES:cloud top:anl:
643:304604205:d=2017120114:HGT:cloud top:anl:
644:305659588:d=2017120114:ULWRF:top of atmosphere:anl:
645:307335078:d=2017120114:DSWRF:surface:anl:
646:308279961:d=2017120114:DLWRF:surface:anl:
647:310048573:d=2017120114:USWRF:surface:anl:
648:310745182:d=2017120114:ULWRF:surface:anl:
649:312558209:d=2017120114:VBDSF:surface:anl:
650:313409303:d=2017120114:VDDSF:surface:anl:
651:314336726:d=2017120114:HLCY:3000-0 m above ground:anl:
652:316241783:d=2017120114:HLCY:1000-0 m above ground:anl:
653:318122045:d=2017120114:USTM:0-6000 m above ground:anl:
654:319123437:d=2017120114:VSTM:0-6000 m above ground:anl:
655:320028341:d=2017120114:VUCSH:0-1000 m above ground:anl:
656:321285984:d=2017120114:VVCSH:0-1000 m above ground:anl:
657:322539236:d=2017120114:VUCSH:0-6000 m above ground:anl:
658:323679616:d=2017120114:VVCSH:0-6000 m above ground:anl:
659:324801184:d=2017120114:HGT:0C isotherm:anl:
660:327085288:d=2017120114:RH:0C isotherm:anl:
661:327955820:d=2017120114:PRES:0C isotherm:anl:
662:328946017:d=2017120114:HGT:highest tropospheric freezing level:anl:
663:329728791:d=2017120114:RH:highest tropospheric freezing level:anl:
664:330445180:d=2017120114:PRES:highest tropospheric freezing level:anl:
665:331237293:d=2017120114:HGT:263 K level:anl:
666:331970877:d=2017120114:HGT:253 K level:anl:
667:332625231:d=2017120114:4LFTX:180-0 mb above ground:anl:
668:333598039:d=2017120114:CAPE:180-0 mb above ground:anl:
669:333917093:d=2017120114:CIN:180-0 mb above ground:anl:
670:334242286:d=2017120114:HPBL:surface:anl:
671:336957715:d=2017120114:HGT:level of adiabatic condensation from sfc:anl:
672:339709069:d=2017120114:CAPE:90-0 mb above ground:anl:
673:339925298:d=2017120114:CIN:90-0 mb above ground:anl:
674:340228654:d=2017120114:CAPE:255-0 mb above ground:anl:
675:340519169:d=2017120114:CIN:255-0 mb above ground:anl:
676:340843473:d=2017120114:HGT:equilibrium level:anl:
677:343015986:d=2017120114:PLPL:255-0 mb above ground:anl:
678:344101055:d=2017120114:RHPW:entire atmosphere:anl:
679:345258569:d=2017120114:LAND:surface:anl:
680:345309045:d=2017120114:ICEC:surface:anl:
681:345319073:d=2017120114:SBT123:top of atmosphere:anl:
682:346750086:d=2017120114:SBT124:top of atmosphere:anl:
683:349265161:d=2017120114:SBT113:top of atmosphere:anl:
684:350564115:d=2017120114:SBT114:top of atmosphere:anl:
```

Forecasts f00-f18 every hour, except [t00, t06, t12, t18] run f00-f36