Service Change Notice 22-26
National Weather Service Headquarters Silver Spring MD
835 AM EST Tue Mar 1 2022

To:      Subscribers:
- NOAA Weather Wire Service
- Emergency Managers Weather Information Network
- NOAAPort
Other NWS Partners, Users and Employees

From:    Darren Wright, Acting Chief
Marine, Tropical and Tsunami Services Branch

Subject: Aviation Tropical Cyclone Advisory (TCA) to Provide Forecast
Information at Synoptic Hours: Beginning on or about May 15, 2022

Effective on or about May 15, 2022, the National Hurricane Center (NHC)
and the Central Pacific Hurricane Center (CPHC) will modify the Aviation
Tropical Cyclone Advisory (TCA) to provide tropical cyclone (TC) forecast
information at the synoptic hours of 00, 06, 12 and 18 Coordinated
Universal Time (UTC). Through the 2021 hurricane season, the TCA
provided forecast information valid at times 06, 12, 18 and 24 hours
relative to the advisory issuance time, which made the forecast
information valid at 03, 09, 15 and 21 UTC. To meet aviation customer
needs for information valid at synoptic hours, beginning in May 2022, NHC
and CPHC will provide TC forecast information valid at times 03, 09, 15,
21 and 27 hours relative to the advisory time, or 06, 12, 18, 24 and 30
hours after the base synoptic time of the advisory package, as shown in
the example below. This change will be included in the seasonal update
to NWS Instruction 10-607: Tropical Cyclone Forecast Center Products and
Services.

An example of the TCA format used during 2021:

FKNT22 KNHC 151436
TCANT2

TROPICAL STORM BILL ICAO ADVISORY NUMBER 5
NWS NATIONAL HURRICANE CENTER MIAMI FL AL022021
1500 UTC TUE JUN 15 2021

TC ADVISORY
DTG:                     20210615/1500Z
TCAC:                    KNHC
TC:                      BILL
ADVISORY NR:             2021/005
OBS PSN:                 15/1500Z N4030 W06200
MOV:                     NE 33KT
INTST CHANGE:            NC
C:                       0998HPA
MAX WIND:                050KT
FCST PSN +6 HR: 15/2100Z N4225 W05939
FCST MAX WIND +6 HR: 050KT
FCST PSN +12 HR: 16/0300Z N4425 W05722
FCST MAX WIND +12 HR: 050KT
FCST PSN +18 HR: 16/0900Z N4628 W05507
FCST MAX WIND +18 HR: 045KT
FCST PSN +24 HR: 16/1500Z N4225 W05939
FCST MAX WIND +24 HR: ///KT
RMK: THE FORECAST POSITION INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA VALID AT
0000...0600...1200 AND 1800Z.
NXT MSG: 20210615/2100Z
$$

An example of the TCA with forecast positions on synoptic hours:

FKNT22 KNHC 151436
TCANT2

TROPICAL STORM BILL ICAO ADVISORY NUMBER 5
NWS NATIONAL HURRICANE CENTER MIAMI FL AL022021
1500 UTC TUE JUN 15 2021

TC ADVISORY
DTG: 20210615/1500Z
TCAC: KNHC
TC: BILL
ADVISORY NR: 2021/005
OBS PSN: 15/1500Z N4030 W06200
MOV: NE 33KT
INTST CHANGE: NC
C: 0998HPA
MAX WIND: 050KT
FCST PSN +3 HR: 15/1800Z N4225 W05939
FCST MAX WIND +3 HR: 050KT
FCST PSN +9 HR: 16/0000Z N4425 W05722
FCST MAX WIND +9 HR: 050KT
FCST PSN +15 HR: 16/0600Z N4628 W05507
FCST MAX WIND +15 HR: 045KT
FCST PSN +21 HR: 16/1200Z N4225 W05939
FCST MAX WIND +21 HR: ///KT
FCST PSN +27 HR: 16/1800Z N4225 W05939
FCST MAX WIND +27 HR: ///KT
RMK: SOME FORECAST INFORMATION IN
THIS PRODUCT IS INTERPOLATED FROM
OFFICIAL FORECAST DATA.
NXT MSG: 20210615/2100Z
$$
The TCA is provided using the following Advanced Weather Interactive Processing System (AWIPS) product identifiers (PILs) and World Meteorological Organization (WMO) Headers:

<table>
<thead>
<tr>
<th>Alphanumeric Product</th>
<th>WMO Header</th>
<th>AWIPS PIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atlantic Basin TCA</td>
<td>FKNT/21-25/ KNHC</td>
<td>TCANT/1-5/</td>
</tr>
<tr>
<td>East Pacific TCA</td>
<td>FKPZ/21-25/ KNHC</td>
<td>TCAPZ/1-5/</td>
</tr>
<tr>
<td>Central Pacific TCA</td>
<td>FKPA/21-25/ PHFO</td>
<td>TCAPA/1-5/</td>
</tr>
</tbody>
</table>

This change will also be reflected in the International Civil Aviation Organization (ICAO) Meteorological Information Exchange Model (IWXXM) message version of the TCA.

IWXXM TCA products are issued under the following WMO Headers:

<table>
<thead>
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</tr>
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<tbody>
<tr>
<td>Atlantic Basin TCA</td>
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<tr>
<td>Central Pacific TCA</td>
<td>LKPA/21-25/ PHFO</td>
</tr>
</tbody>
</table>

For questions regarding the changes described in this notice, please contact:

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For questions about tropical cyclone products and services, please contact:

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National Service Change Notices are online at:

https://www.weather.gov/notification/

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