

**Supplementary Material for JCLI-D-11-00419 by Hagen et al.**

**Changes by year (1945-1953)**

Just as Fig. 6 and Table 2 show the revised-comparison track map and the table of revisions, respectively, for the 1944 hurricane season, Figs. S1–S9 and Tables S1–S9 show the revised-comparison tracks maps and the tables of revisions for the 1945–53 hurricane seasons.

Figure S1. 1945 revised-comparison track map.

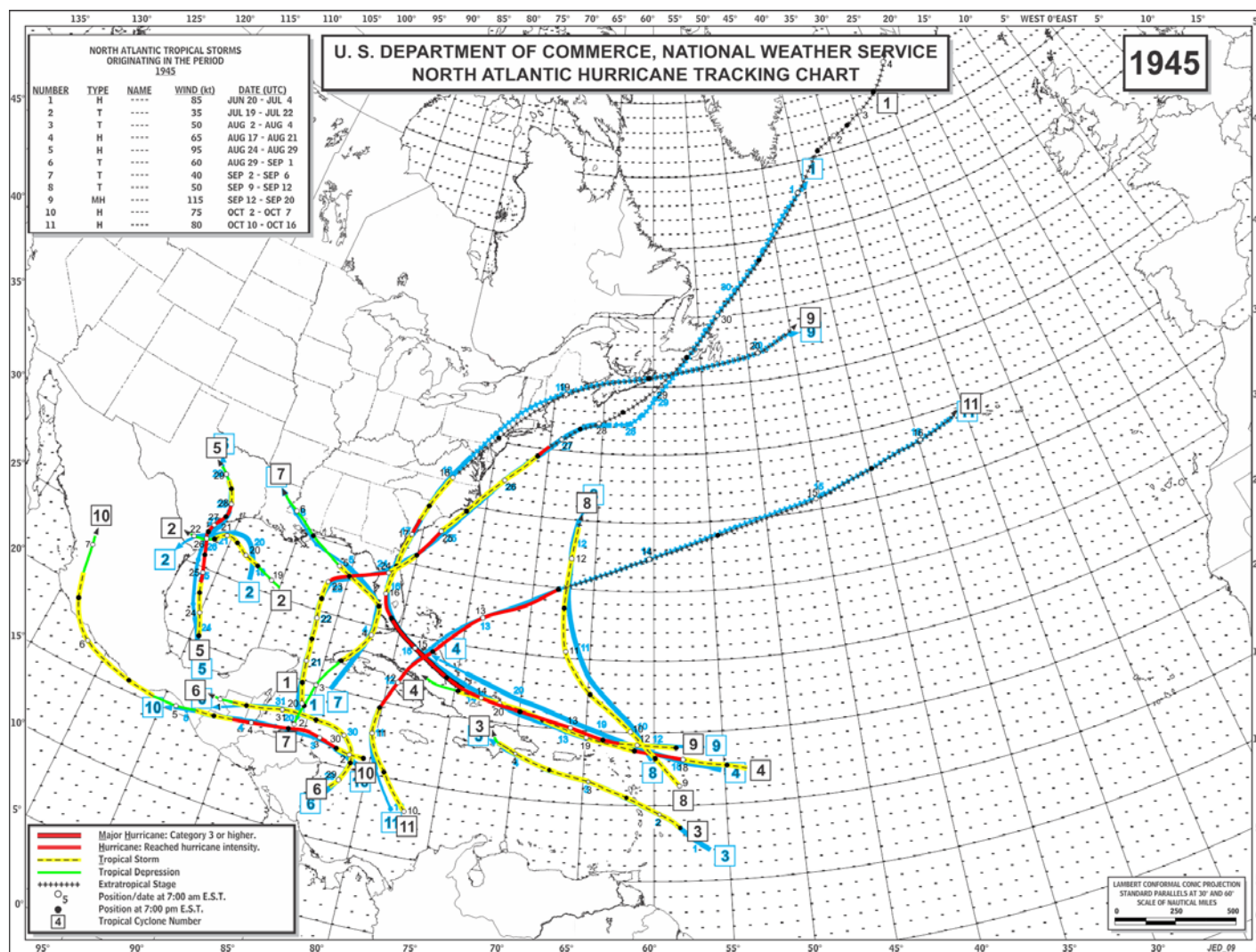


Table S1. 1945 Revisions

| Revisions for the 1945 hurricane season |          |             |                |                |             |             |                                     |
|-----------------------------------------|----------|-------------|----------------|----------------|-------------|-------------|-------------------------------------|
| Storm                                   | Previous | Date        | Orig. Peak     | Revised        | Major/Minor | Major/Minor | Genesis/Decay                       |
| #                                       | Storm #  |             | Intensity (kt) | Peak           | Track       | Intensity   | Change                              |
|                                         |          |             |                | Intensity (kt) | Change      | Change      |                                     |
| 1                                       | 1        | 6/20 - 7/4  | 100            | 85             | minor       | major       | ET 24 hr earlier, Decay 72 hr later |
| 2                                       | 2        | 7/19 - 7/22 | 45             | 35             | major       | minor       | Decay 6 hr later                    |
| 3                                       | 3        | 8/2 - 8/4   | 50             | 50             | minor       | minor       | Genesis 18 hr later                 |
| 4                                       | 4        | 8/17 - 8/21 | 60             | 65             | minor       | minor       | none                                |
| 5                                       | 5        | 8/24 - 8/29 | 120            | 95             | minor       | major       | Genesis 6 hr earlier                |
| 6                                       | 6        | 8/29 - 9/1  | 50             | 60             | minor       | major       | Decay 12 hr later                   |
| 7                                       | 7        | 9/2 - 9/6   | 35             | 40             | minor       | minor       | Genesis 30 hr earlier               |
| 8                                       | 8        | 9/9 - 9/12  | 50             | 50             | minor       | minor       | ET included at end                  |
| 9                                       | 9        | 9/12 - 9/20 | 120            | 115            | minor       | major       | ET 6 hr earlier                     |
| 10                                      | 10       | 10/2 - 10/7 | 85             | 75             | major       | major       | Decay 48 hr later                   |
| 11                                      | 11       | 10/10-10/16 | 85             | 80             | minor       | minor       | none                                |

Figure S2. 1946 revised-comparison track map.

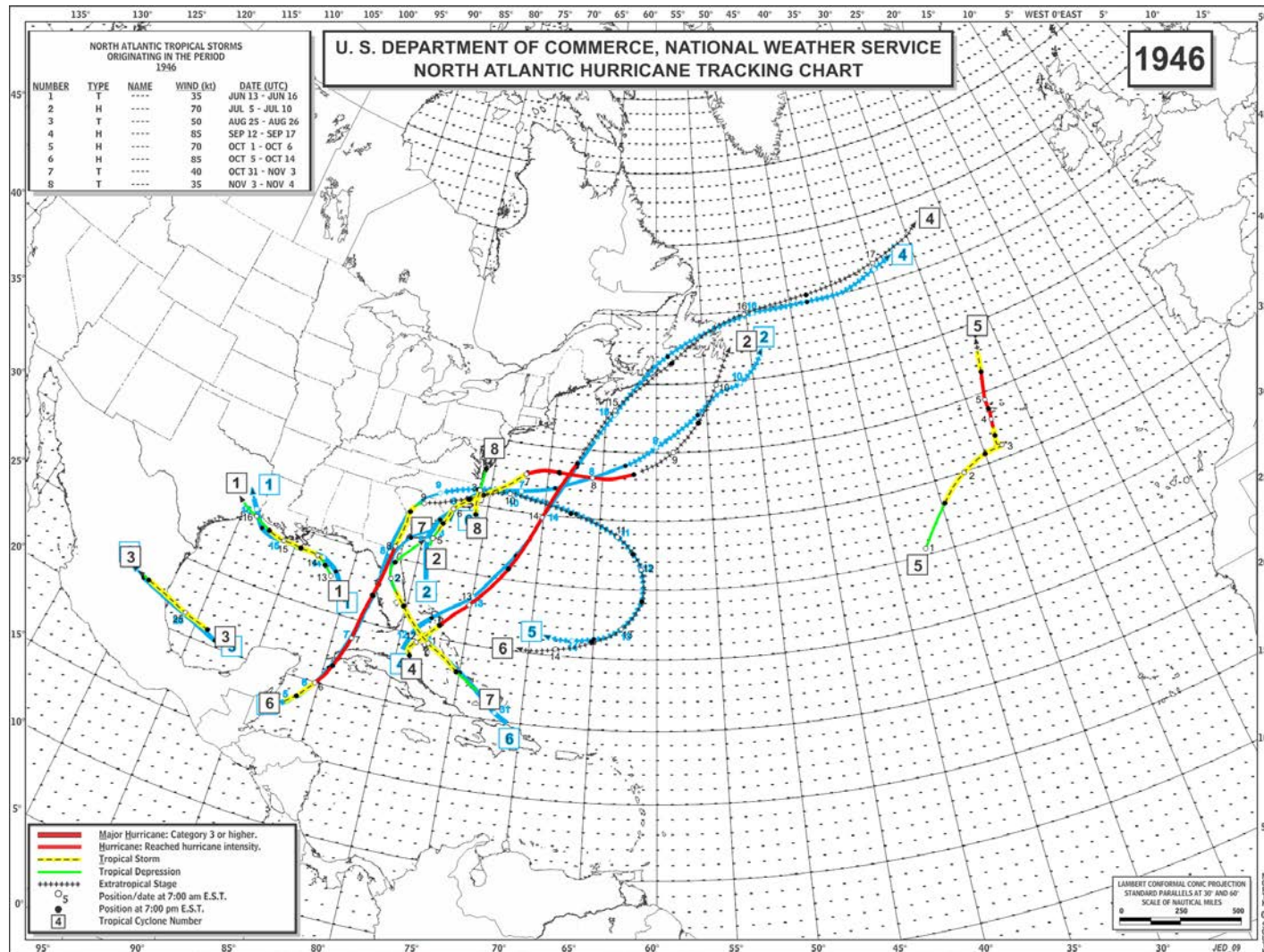


Table S2. 1946 Revisions

| Revisions for the 1946 hurricane season |          |             |                |                |             |             |                                                          |
|-----------------------------------------|----------|-------------|----------------|----------------|-------------|-------------|----------------------------------------------------------|
| Storm                                   | Previous | Date        | Orig. Peak     | Revised        | Major/Minor | Major/Minor | Genesis/Decay                                            |
| #                                       | Storm #  |             | Intensity (kt) | Peak           | Track       | Intensity   | Change                                                   |
|                                         |          |             |                | Intensity (kt) | Change      | Change      |                                                          |
| 1                                       | 1        | 6/13 - 6/16 | 35             | 35             | minor       | minor       | Genesis 6 hr earlier                                     |
| 2                                       | 2        | 7/5 - 7/10  | 70             | 70             | major       | minor       | none                                                     |
| 3                                       | 3        | 8/25 - 8/26 | 35             | 50             | minor       | minor       | none                                                     |
| 4                                       | 4        | 9/12 - 9/17 | 85             | 85             | minor       | minor       | Genesis 6 hr earlier, ET 12 hr earlier, Decay 6 hr later |
| 5                                       | -----    | 10/1 - 10/6 | -----          | 70             | -----       | -----       | New hurricane                                            |
| 6                                       | 5        | 10/5-10/14  | 115            | 85             | minor       | major       | Genesis 12 hr later                                      |
| 7                                       | 6        | 10/31-11/1  | 40             | 40             | major       | minor       | Genesis 12 hr later, Decay 6 hr earlier                  |
| 8                                       | -----    | 11/3 - 11/4 | -----          | 35             | -----       | -----       | New storm                                                |



Figure S3. 1947 revised-comparison track map.

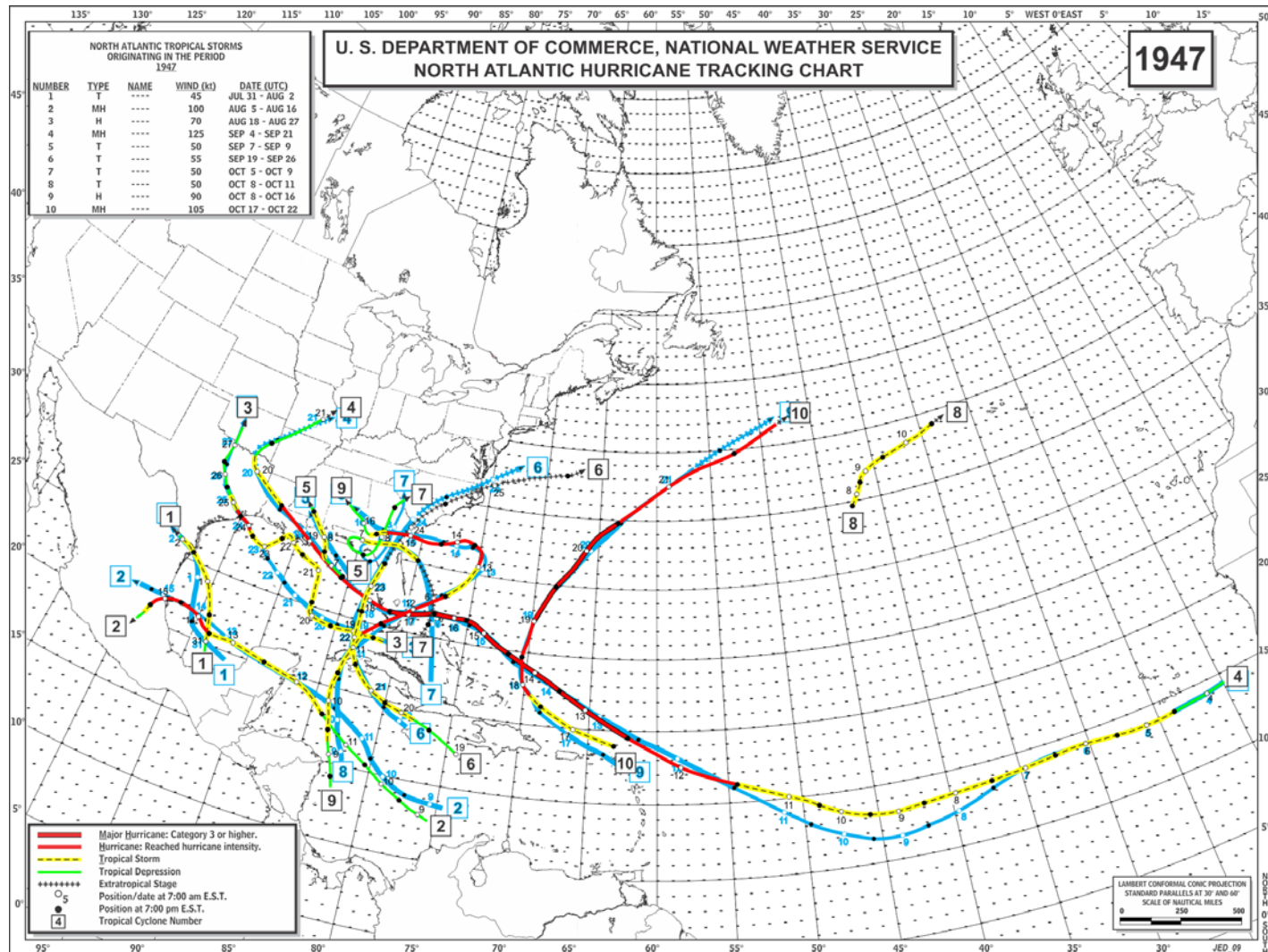


Table S3. 1947 Revisions

| Revisions for the 1947 hurricane season |          |             |                |                |             |             |                                                           |
|-----------------------------------------|----------|-------------|----------------|----------------|-------------|-------------|-----------------------------------------------------------|
| Storm                                   | Previous | Date        | Orig. Peak     | Revised        | Major/Minor | Major/Minor | Genesis/Decay                                             |
| #                                       | Storm #  |             | Intensity (kt) | Peak           | Track       | Intensity   | Change                                                    |
|                                         |          |             |                | Intensity (kt) | Change      | Change      |                                                           |
| 1                                       | 1        | 7/31 - 8/2  | 40             | 45             | minor       | minor       | none                                                      |
| 2                                       | 2        | 8/9 - 8/16  | 95             | 100            | minor       | major       | none                                                      |
| 3                                       | 3        | 8/18 - 8/27 | 70             | 70             | major       | major       | none                                                      |
| 4                                       | 4        | 9/4 - 9/21  | 140            | 125            | minor       | major       | ET 24 hr later                                            |
| 5                                       | 5        | 9/7 - 9/9   | 40             | 50             | major       | minor       | Genesis 18 hr earlier, Decay 6 hr later                   |
| 6                                       | 6        | 9/19 - 9/26 | 50             | 55             | minor       | major       | Genesis 18 hr earlier, ET 12 hr earlier, Decay 6 hr later |
| 7                                       | 7        | 10/5 - 10/9 | 45             | 50             | major       | minor       | Genesis 12 hr earlier, ET 1st 30 hr, Decay 12 hr later    |
| 8                                       | -----    | 10/8-10/11  | -----          | 50             | -----       | -----       | New storm                                                 |
| 9                                       | 8        | 10/8-10/16  | 75             | 90             | minor       | minor       | Genesis 12 hr earlier                                     |
| 10                                      | 9        | 10/17-10/22 | 105            | 105            | minor       | major       | Genesis 6 hr later, ET 12 hr later                        |

Figure S4. 1948 revised-comparison track map.

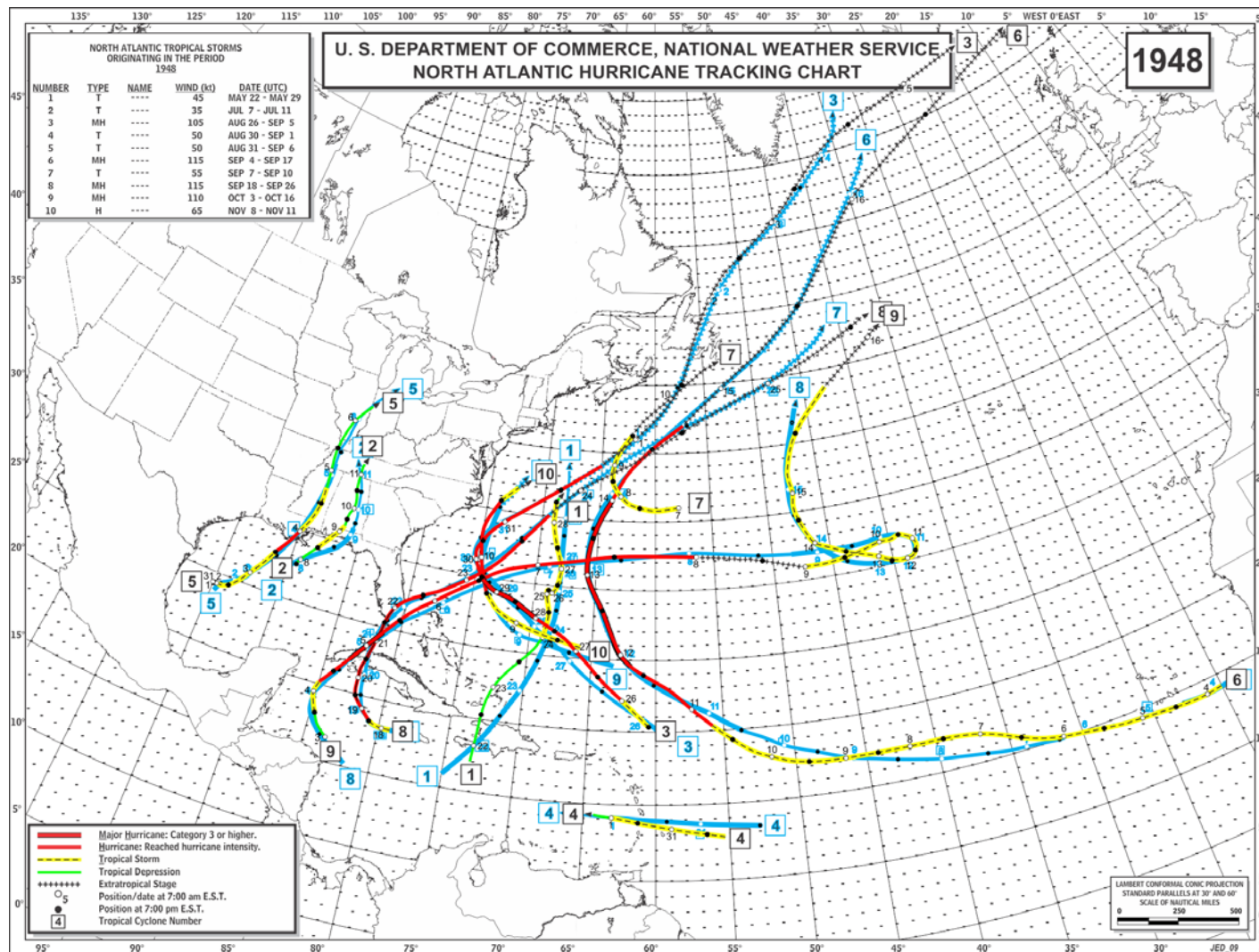




Table S4. 1948 Revisions

| Revisions for the 1948 hurricane season |                  |             |                           |                             |                          |                              |                                                         |
|-----------------------------------------|------------------|-------------|---------------------------|-----------------------------|--------------------------|------------------------------|---------------------------------------------------------|
| Storm #                                 | Previous Storm # | Date        | Orig. Peak Intensity (kt) | Revised Peak Intensity (kt) | Major/Minor Track Change | Major/Minor Intensity Change | Genesis/Decay Change                                    |
| 1                                       | 1                | 5/22 - 5/29 | 45                        | 45                          | major                    | minor                        | Decay 6 hr later                                        |
| 2                                       | 2                | 7/7 - 7/11  | 35                        | 35                          | minor                    | minor                        | none                                                    |
| 3                                       | 3                | 8/26 - 9/5  | 105                       | 105                         | major                    | minor                        | Genesis 6 hr earlier, ET 6 hr later, Decay 24 hr later  |
| 4                                       | 4                | 8/30 - 9/1  | 50                        | 50                          | major                    | none                         | Genesis 6 hr earlier                                    |
| 5                                       | 5                | 8/31 - 9/6  | 70                        | 65                          | minor                    | major                        | Genesis 30 hr earlier, Decay 6 hr earlier               |
| 6                                       | 6                | 9/4 - 9/17  | 115                       | 115                         | major                    | major                        | ET 12 hr earlier, Decay 18 hr later                     |
| 7                                       | -----            | 9/7 - 9/10  | -----                     | 55                          | -----                    | -----                        | New storm                                               |
| 8                                       | 7                | 9/18 - 9/26 | 105                       | 115                         | minor                    | major                        | ET 6 hr earlier, Decay 6 hr later                       |
| 9                                       | 8                | 10/3-10/16  | 115                       | 110                         | major                    | major                        | Genesis 6 hr earlier, Decay 12 hr later, ET added twice |
| 10                                      | 9                | 11/8-11/11  | 70                        | 65                          | major                    | minor                        | ET 6 hr later                                           |

Figure S5. 1949 revised-comparison track map.

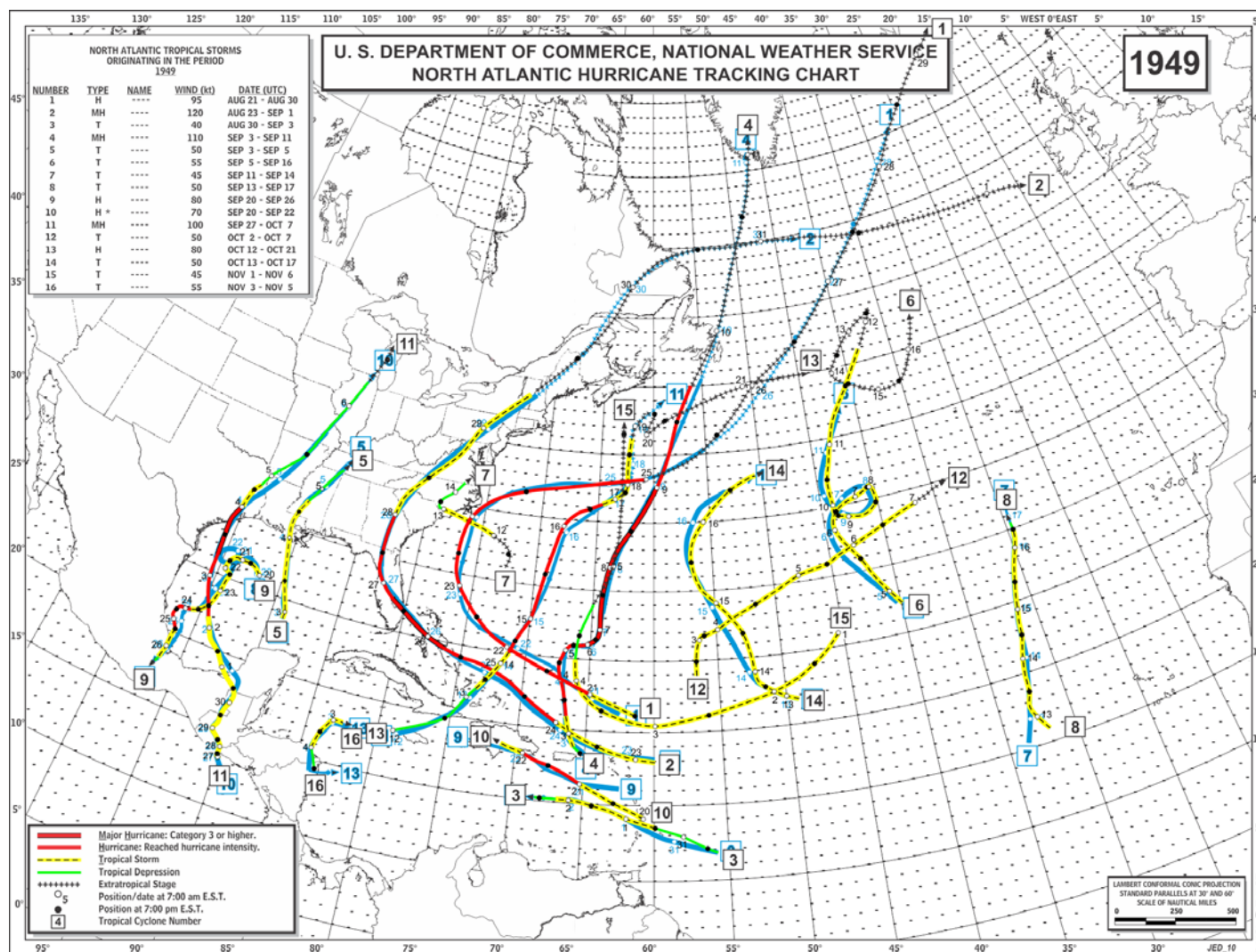


Table S5. 1949 Revisions

| Revisions for the 1949 hurricane season |          |             |                |                |             |             |                                                           |
|-----------------------------------------|----------|-------------|----------------|----------------|-------------|-------------|-----------------------------------------------------------|
| Storm                                   | Previous | Date        | Orig. Peak     | Revised        | Major/Minor | Major/Minor | Genesis/Decay                                             |
| #                                       | Storm #  |             | Intensity (kt) | Peak           | Track       | Intensity   | Change                                                    |
|                                         |          |             |                | Intensity (kt) | Change      | Change      |                                                           |
| 1                                       | 1        | 8/21 - 8/30 | 95             | 95             | major       | minor       | Genesis 6 hr earlier, ET 12 hr earlier, Decay 30 hr later |
| 2                                       | 2        | 8/23 - 9/1  | 130            | 120            | minor       | major       | Decay 24 hr later                                         |
| 3                                       | 3        | 8/30 - 9/3  | 45             | 40             | minor       | minor       | Decay 6 hr earlier                                        |
| 4                                       | 4        | 9/3 - 9/11  | 110            | 110            | minor       | major       | Genesis 6 hr earlier                                      |
| 5                                       | 5        | 9/3 - 9/5   | 40             | 50             | minor       | minor       | none                                                      |
| 6                                       | 6        | 9/5 - 9/16  | 40             | 55             | minor       | minor       | Decay 5 days later                                        |
| 7                                       | -----    | 9/11 - 9/14 | -----          | 45             | -----       | -----       | New storm                                                 |
| 8                                       | 7        | 9/13 - 9/17 | 50             | 50             | minor       | minor       | Decay 18 hr earlier                                       |
| 9                                       | 8        | 9/20 - 9/26 | 85             | 80             | minor       | minor       | none                                                      |
| 10                                      | 9        | 9/20 - 9/22 | 70             | 70             | minor       | minor       | Genesis 18 hr earlier                                     |
| 11                                      | 10       | 9/27 - 10/7 | 115            | 100            | minor       | minor       | Added ET last 12 hr, Decay 6 hr later                     |
| 12                                      | -----    | 10/2 - 10/7 | -----          | 50             | -----       | -----       | New storm                                                 |
| 13                                      | 11       | 10/12-10/21 | 90             | 80             | minor       | minor       | ET 24 hr later, Decay 48 hr later                         |
| 14                                      | 12       | 10/13-10/17 | 50             | 50             | minor       | minor       | none                                                      |
| 15                                      | -----    | 11/1 - 11/6 | -----          | 45             | -----       | -----       | New storm                                                 |
| 16                                      | 13       | 11/3 - 11/5 | 50             | 55             | minor       | minor       | none                                                      |

Figure S6. 1950 revised-comparison track map.

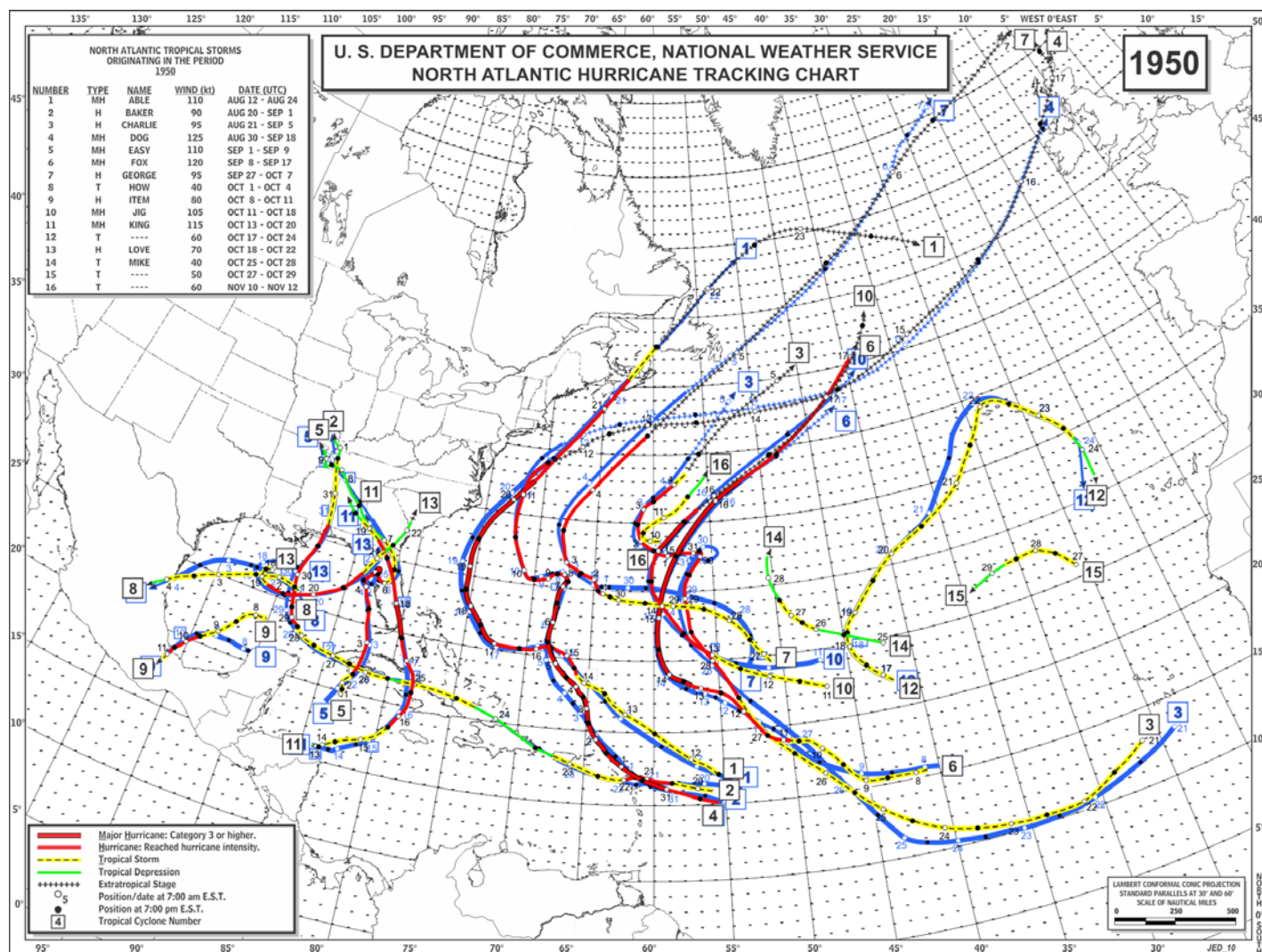


Table S6. 1950 Revisions

| Revisions for the 1950 hurricane season |              |              |                |                |             |             |                                                   |
|-----------------------------------------|--------------|--------------|----------------|----------------|-------------|-------------|---------------------------------------------------|
| Storm                                   | Previous     | Date         | Orig. Peak     | Revised        | Major/Minor | Major/Minor | Genesis/Decay                                     |
| #                                       | Storm #      |              | Intensity (kt) | Peak           | Track       | Intensity   | Change                                            |
|                                         |              |              |                | Intensity (kt) | Change      | Change      |                                                   |
| 1                                       | 1 (Able)     | 8/12 - 8/24  | 120            | 110            | minor       | major       | Added ET last 60 hr, Decay 36 hr later            |
| 2                                       | 2 (Baker)    | 8/20 - 9/1   | 105            | 90             | minor       | major       | none                                              |
| 3                                       | 3 (Charlie)  | 8/21 - 9/5   | 100            | 95             | major       | major       | ET 6 hr earlier                                   |
| 4                                       | 4 (Dog)      | 8/30 - 9/18  | 160            | 125            | minor       | major       | ET 6 hr earlier, Decay 24 hr later                |
| 5                                       | 5 (Easy)     | 9/1 - 9/9    | 110            | 110            | minor       | major       | none                                              |
| 6                                       | 6 (Fox)      | 9/8 - 9/17   | 120            | 120            | major       | minor       | ET 12 hr later, Decay 6 hr later                  |
| 7                                       | 7 (George)   | 9/27 - 10/7  | 95             | 95             | major       | minor       | ET 6 hr later                                     |
| 8                                       | 8 (How)      | 10/1 - 10/4  | 50             | 40             | minor       | minor       | none                                              |
| 9                                       | 9 (Item)     | 10/8 - 10/11 | 95             | 80             | major       | major       | Decay 18 hr later                                 |
| 10                                      | 10 (Jig)     | 10/11-10/18  | 105            | 105            | major       | minor       | ET 30 hr earlier, Decay 6 hr later                |
| 11                                      | 11 (King)    | 10/13-10/20  | 105            | 115            | minor       | major       | Decay 18 hr later                                 |
| 12                                      | 12 (Unnamed) | 10/17-10/24  | 60             | 60             | major       | none        | none                                              |
| 13                                      | 13 (Love)    | 10/18-10/22  | 80             | 70             | minor       | major       | Genesis 12 hr later, Decay 24 hr later, ET at end |
| 14                                      | (Mike)       | 10/25-10/29  | ----           | 40             | ----        | ----        | New storm                                         |
| 15                                      | ----         | 10/27-10/29  | ----           | 45             | ----        | ----        | New storm                                         |
| 16                                      | ----         | 11/10-11/13  | ----           | 60             | ----        | ----        | New storm                                         |



Figure S7. 1951 revised-comparison track map.

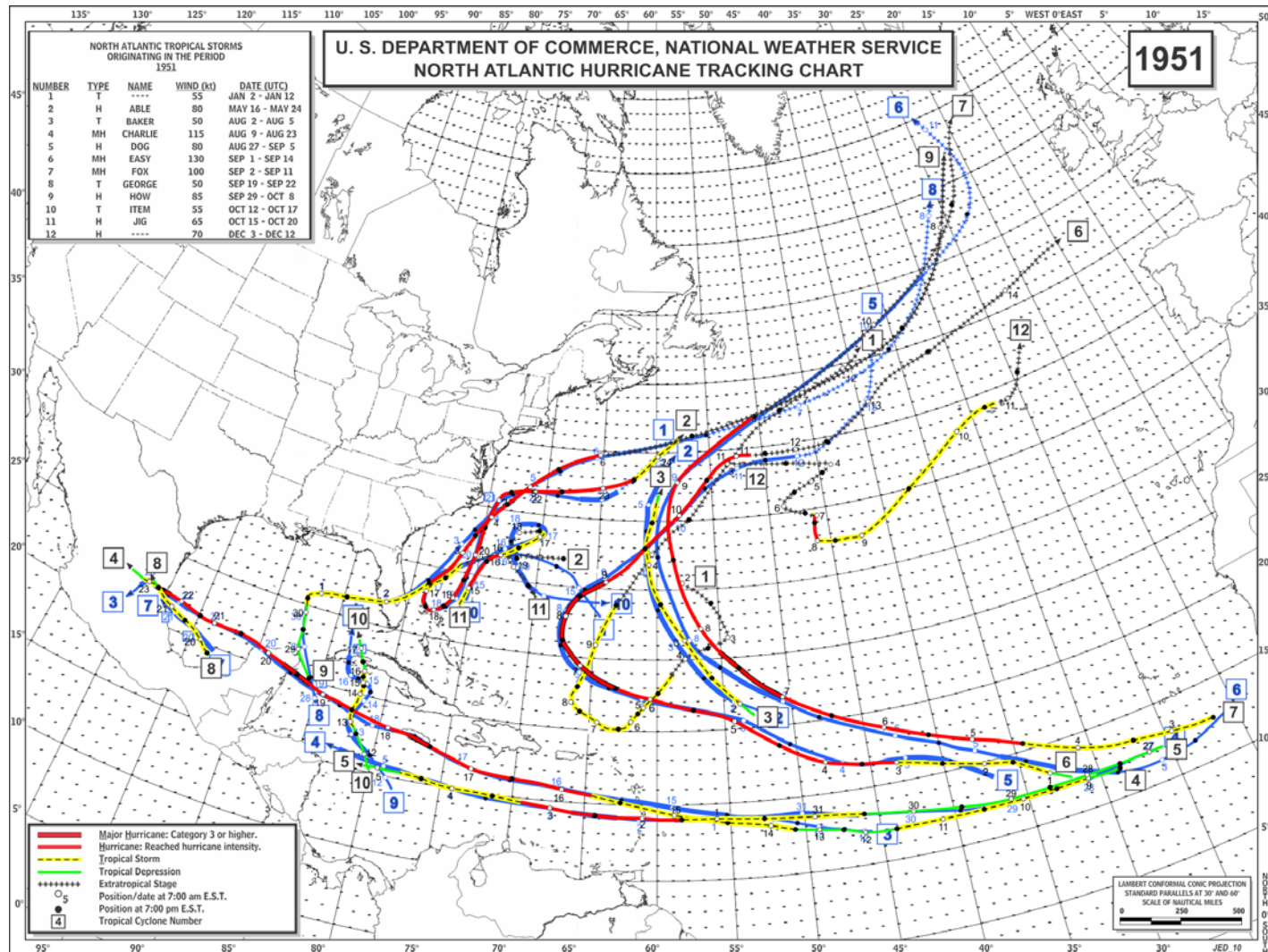


Table S7. 1951 Revisions

| Revisions for the 1951 hurricane season |             |              |                |                |             |             |                                                            |
|-----------------------------------------|-------------|--------------|----------------|----------------|-------------|-------------|------------------------------------------------------------|
| Storm                                   | Previous    | Date         | Orig. Peak     | Revised        | Major/Minor | Major/Minor | Genesis/Decay                                              |
| #                                       | Storm #     |              | Intensity (kt) | Peak           | Track       | Intensity   | Change                                                     |
|                                         |             |              |                | Intensity (kt) | Change      | Change      |                                                            |
| 1                                       | -----       | 1/2 - 1/12   | -----          | 55             | -----       | -----       | New storm                                                  |
| 2                                       | 1 (Able)    | 5/16 - 5/24  | 100            | 80             | minor       | major       | Genesis 18 hr later, Eliminated ET                         |
| 3                                       | 2 (Baker)   | 8/2 - 8/5    | 50             | 50             | minor       | minor       | Decay 12 hr earlier                                        |
| 4                                       | 3 (Charlie) | 8/9 - 8/23   | 115            | 115            | minor       | major       | Genesis 78 hr earlier                                      |
| 5                                       | 4 (Dog)     | 8/27 - 9/5   | 100            | 80             | minor       | major       | Decay 6 hr earlier                                         |
| 6                                       | 5 (Easy)    | 9/1 - 9/14   | 140            | 130            | major       | major       | Genesis 36 hr earlier, ET 18 hr earlier, Decay 24 hr later |
| 7                                       | 6 (Fox)     | 9/2 - 9/11   | 100            | 100            | major       | major       | ET 18 hr earlier, Decay 6 hr earlier                       |
| 8                                       | 7 (George)  | 9/19 - 9/22  | 50             | 50             | minor       | minor       | Genesis 12 hr earlier, Decay 6 hr later                    |
| 9                                       | 8 (How)     | 9/29 - 10/8  | 95             | 85             | minor       | major       | Genesis 18 hr later, ET 12 hr earlier, Decay 6 hr later    |
| 10                                      | 9 (Item)    | 10/12-10/17  | 70             | 55             | major       | major       | none                                                       |
| 11                                      | 10 (Jig)    | 10/15-10/20  | 70             | 65             | minor       | minor       | Decay 18 hr earlier, added ET last 2 days                  |
| 12                                      | -----       | 12/3 - 12/12 | -----          | 70             | -----       | -----       | New hurricane                                              |

Figure S8. 1952 revised-comparison track map.

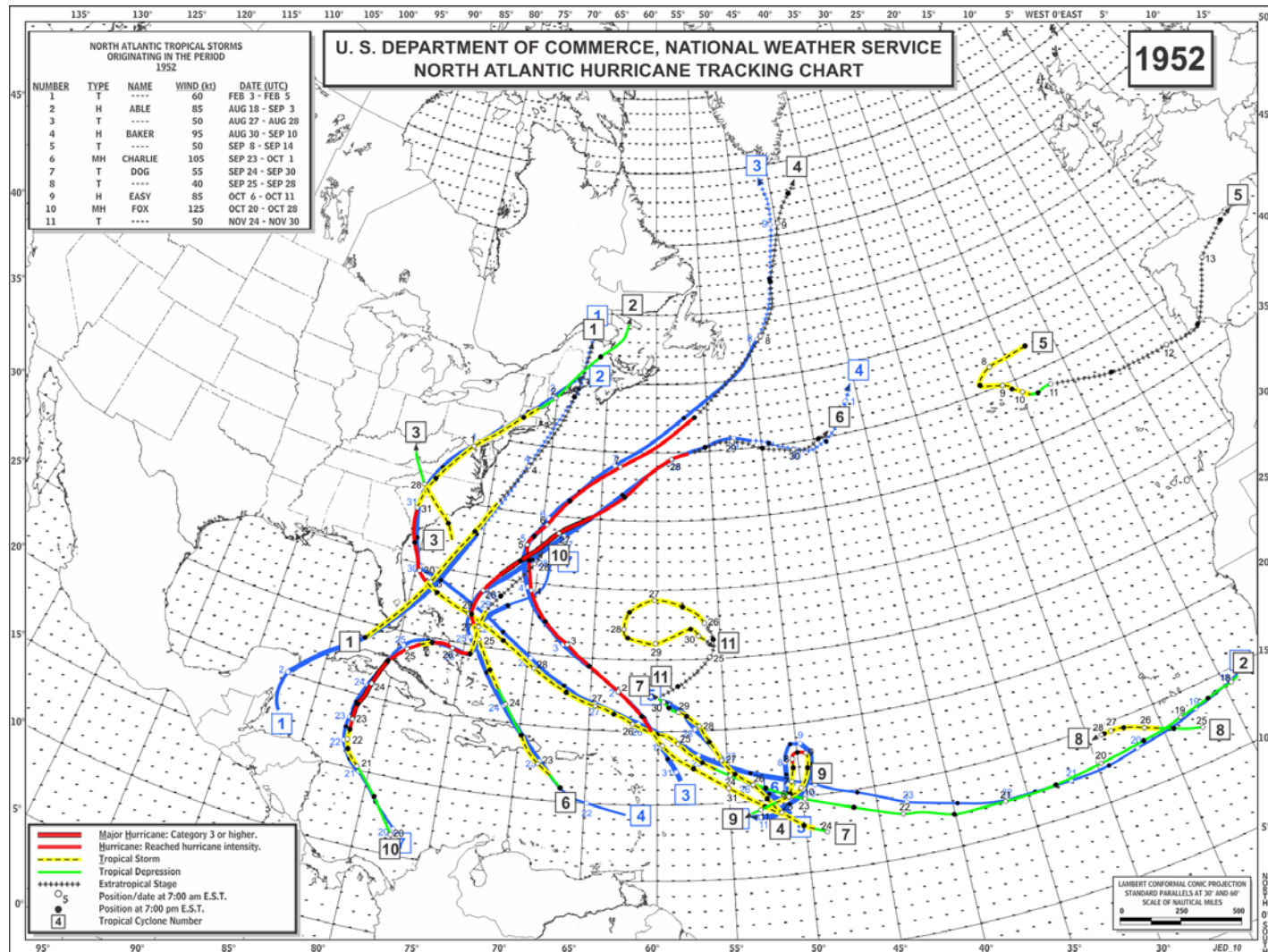


Table S8. 1952 Revisions

| Revisions for the 1952 hurricane season |                  |              |                           |                             |                          |                              |                                                            |
|-----------------------------------------|------------------|--------------|---------------------------|-----------------------------|--------------------------|------------------------------|------------------------------------------------------------|
| Storm #                                 | Previous Storm # | Date         | Orig. Peak Intensity (kt) | Revised Peak Intensity (kt) | Major/Minor Track Change | Major/Minor Intensity Change | Genesis/Decay Change                                       |
| 1                                       | 1                | 2/3 - 2/5    | 50                        | 60                          | minor                    | minor                        | Genesis 18 hr later, ET 6 hr later                         |
| 2                                       | 2 (Able)         | 8/18 - 9/3   | 90                        | 85                          | major                    | major                        | Decay 12 hr later                                          |
| 3                                       | -----            | 8/27 - 8/28  | -----                     | 50                          | -----                    | -----                        | New storm                                                  |
| 4                                       | 3 (Baker)        | 8/30 - 9/10  | 105                       | 95                          | major                    | major                        | Genesis 12 hr earlier, ET 12 hr earlier, Decay 12 hr later |
| 5                                       | -----            | 9/8 - 9/14   | -----                     | 50                          | -----                    | -----                        | New storm                                                  |
| 6                                       | 4 (Charlie)      | 9/23 - 10/1  | 105                       | 105                         | minor                    | major                        | Genesis 18 hr later, ET 24 hr earlier, Decay 12 hr earlier |
| 7                                       | 5 (Dog)          | 9/24 - 9/30  | 75                        | 55                          | minor                    | major                        | Genesis 18 hr earlier, Decay 30 hr later                   |
| 8                                       | -----            | 9/25 - 9/28  | -----                     | 40                          | -----                    | -----                        | New storm                                                  |
| 9                                       | 6 (Easy)         | 10/6 - 10/11 | 95                        | 85                          | minor                    | minor                        | none                                                       |
| 10                                      | 7 (Fox)          | 10/20-10/28  | 130                       | 125                         | major                    | major                        | Added ET at end                                            |
| 11                                      | -----            | 11/24-11/30  | -----                     | 50                          | -----                    | -----                        | New storm                                                  |

Figure S9. 1953 revised-comparison track map.

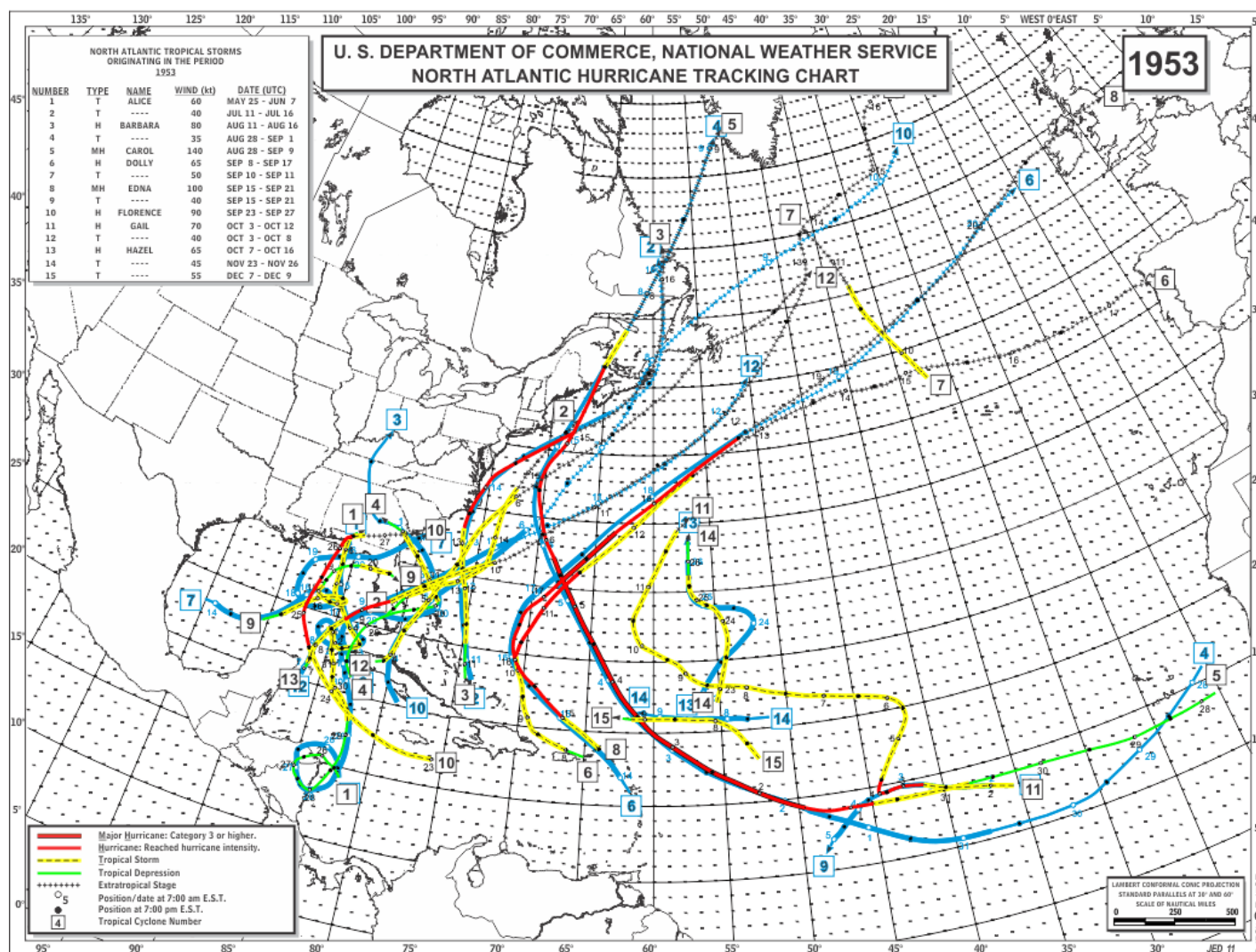




Table S9. 1953 Revisions

| Revisions for the 1953 hurricane season |              |             |                |                |             |             |                                        |
|-----------------------------------------|--------------|-------------|----------------|----------------|-------------|-------------|----------------------------------------|
| Storm                                   | Previous     | Date        | Orig. Peak     | Revised        | Major/Minor | Major/Minor | Genesis/Decay                          |
| #                                       | Storm #      |             | Intensity (kt) | Peak           | Track       | Intensity   | Change                                 |
|                                         |              |             |                | Intensity (kt) | Change      | Change      |                                        |
| 1                                       | 1 (Alice)    | 5/25 - 6-7  | 60             | 60             | minor       | major       | Decay 12 hr later                      |
| 2                                       | -----        | 7/11 - 7/16 | -----          | 40             | -----       | -----       | New storm                              |
| 3                                       | 2 (Barbara)  | 8/11 - 8/16 | 95             | 80             | minor       | major       | ET 6 hr earlier, Decay 6 hr later      |
| 4                                       | 3            | 8/28 - 9/1  | 50             | 35             | minor       | minor       | Decay 30 hr earlier                    |
| 5                                       | 4 (Carol)    | 8/28 - 9/9  | 130            | 140            | major       | major       | ET 6 hr later                          |
| 6                                       | 5 (Dolly)    | 9/8 - 9/16  | 100            | 65             | major       | major       | ET 6 hr later, Decay 30 hr earlier     |
| 7                                       | -----        | 9/10 - 9/11 | -----          | 50             | -----       | -----       | New storm                              |
| 8                                       | 6 (Edna)     | 9/15 - 9/22 | 110            | 100            | minor       | major       | Genesis 18 hr later, Decay 48 hr later |
| 9                                       | 7            | 9/15 - 9/21 | 60             | 40             | major       | major       | Genesis 30 hr later                    |
| 10                                      | 8 (Florence) | 9/23 - 9/27 | 110            | 90             | minor       | major       | ET 6 hr later, Decay 24 hr earlier     |
| 11                                      | 9 (Gail)     | 10/2-10/12  | 70             | 70             | major       | major       | Decay 6.5 days later                   |
| 12                                      | 10           | 10/3 - 10/8 | 40             | 40             | major       | minor       | Decay 60 hr earlier                    |
| -----                                   | 11           | -----       | 60             | -----          | -----       | -----       | Storm was removed from HURDAT          |
| 13                                      | 12 (Hazel)   | 10/7-10/14  | 60             | 65             | minor       | minor       | ET 6 hr earlier, Decay 48 hr later     |
| 14                                      | 13           | 11/23-11/26 | 45             | 45             | major       | minor       | none                                   |
| 15                                      | 14           | 12/7 - 12/9 | 35             | 55             | major       | major       | none                                   |