ALMA Cycle 3 Technical Handbook Erratum to Chapter 7, table 7.4

January 21, 2016

The final time ratios adopted for Cycle 3 ALMA observing differed from those presented in the Technical Handbook. This erratum contains the updated table and, following it, a list of the changes made.

θ_{res} (arcsec)	θ_{LAS} (arcsec)	Array combination	Time ratios	Total Time
0.075	< 1.1	C36-8	1	$1.0 \times \Delta_{extended}$
0.075	> 1.1	-	-	-
0.1	< 1.5	C36-7	1	$1.0 \times \Delta_{extended}$
0.1	> 1.5	-	-	-
0.3	< 4.8	C36-6	1	$1.0 \times \Delta_{extended}$
0.3	4.8-25.2	C36-6 + C36-3	1 : 0.5	$1.5 \times \Delta_{extended}$
0.3	25.2-42.8	C36-6 + C36-3 + 7-m	1 : 0.5 : 2	$3.5 \times \Delta_{extended}$
0.3	> 42.8	C36-6 + C36-3 + 7-m + TP	1 : 0.5 : 2 : 4	$5.5 \times \Delta_{extended}$
0.5	< 7.8	C36-5	1	$1.0 \times \Delta_{extended}$
0.5	7.8-25.2	C36-5 + C36-2	1 : 0.5	$1.5 \times \Delta_{extended}$
0.5	25.2-42.8	C36-5 + C36-2 + 7-m	1 : 0.5 : 2	$3.5 \times \Delta_{extended}$
0.5	> 42.8	C36-5 + C36-2 + 7-m + TP	1 : 0.5 : 2 : 4	$5.5 \times \Delta_{extended}$
0.7	< 9.6	C36-4	1	$1.0 \times \Delta_{extended}$
0.7	9.6-25.3	C36-4 + C36-1	1 : 0.5	$1.5 \times \Delta_{extended}$
0.7	25.3-42.8	C36-4 + C36-1 + 7-m	1 : 0.5 : 2	$3.5 \times \Delta_{extended}$
0.7	> 42.8	C36-4 + C36-1 + 7-m + TP	1 : 0.5 : 2 : 4	$5.5 \times \Delta_{extended}$
1.2	< 25.2	C36-3	1	$1.0 \times \Delta_{extended}$
1.2	25.2-42.8	C36-3 + 7-m	1 : 3	$4.0 \times \Delta_{extended}$
1.2	> 42.8	C36-3 + 7-m + TP	1 : 3 : 6	$7.0 \times \Delta_{extended}$
1.8	< 25.2	C36-2	1	$1.0 \times \Delta_{extended}$
1.8	25.2-42.8	C36-2 + 7-m	1 : 3	$4.0 \times \Delta_{extended}$
1.8	> 42.8	C36-2 + 7-m + TP	1 : 3 : 6	$7.0 \times \Delta_{extended}$
3.4	< 25.3	C36-1	1	$1.0 \times \Delta_{extended}$
3.4	25.3-42.8	C36-1 + 7-m	1 : 3	$4.0 \times \Delta_{extended}$
3.4	> 42.8	C36-1 + 7-m + TP	1 : 3 : 6	$7.0 \times \Delta_{extended}$

Table 1: Array combination with the corresponding $\{\theta_{res}, \theta_{LAS}\}$ conditions for an observation at 100 GHz. As in the OT, the angular resolution is computed from the most extended configuration. The actual one obtained with combined configurations can be 50% lower due to different weighting (see text). NOTES: a) for the full array combination, the total time is not equal to the sum of the individual times because TP Array and 7-m Array observations are run in parallel; b) for intermediate values of θ_{res}, please see text. **The largest angular resolution allowed for a project will be twice the resolution offered by C36-1.**

The changes made are as follows:

1. Change 12m : 7m (only) time ratios to 1:3 - previously it was 1:2 if only one 12m array was in use.

2. Change 12m : 7m : TP time ratios to 1:3:6 - previously it was 1:2:4 if only one 12m array was in use.

3. Update total times accordingly (5.0 -> 7.0)