

VLBA ACQUISITION MEMO #340

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To: VLBA Data Acquisition Group
From: Alan E.E. Rogers
Subject: Accelerated thin tape tests: Status report update

The attached table shows the status of the accelerated tests through 30 August 1992. Since the report given in VLBA Acquisition Memo #323, all the Ampex tapes have failed and no additional Sony or 3M tapes have failed.

The reasons for the greater susceptibility of the Ampex tape is not known (although there is speculation that the binder might be responsible, see VLBA Acquisition Memo #315). Further tests are now being conducted on short samples of the tape to determine the humidity dependence of edge damage.

ACCELERATED TAPE SUMMARY for week of 1 SEPT 1992

Notes on Damaged tapes:

- VLBA0037 - damaged at Brewster during tests
 - it was run with negative tape angle
- USNO1018 - has beeb left bumpy - could not relax

Tapes marked with * continue to fail wind test
 The damaged tapes have now been withdrawn from the accelerated testing

TAPE	TYPE	Num of Cycles	Date of last test
USNO1003	SONYD1-K	12.00	08/28/92
USNO1010	SONYD1-K	9.00	08/21/92
USNO1013	SONYD1-K	16.00	08/28/92
USNO1018*	SONYD1-K	5.50	05/28/92
USNO1027	SONYD1-K	13.00	07/30/92
USNO1037	SONYD1-K	2.50	04/07/92
USNO1044	SONYD1-K	12.00	08/25/92
USNO1046	SONYD1-K	8.00	08/28/92
VLBA0013	SONYD1-K	8.00	08/20/92
VLBA0037*	SONYD1-K	1.00	03/26/92
VLBA0057*	AMPEX741	2.50	07/16/92
VLBA0058*	AMPEX741	2.50	05/20/92
VLBA0059*	AMPEX741	2.00	06/26/92
VLBA0060*	AMPEX741	2.00	06/18/92
VLBA0061*	AMPEX741	2.50	06/01/92
VLBA0062*	AMPEX741	2.50	06/16/92
VLBA0063*	AMPEX741	3.50	07/07/92
VLBA0066*	AMPEX741	2.50	06/04/92
VLBA0067	3MQIC16T	4.00	06/30/92
VLBA0068	3MQIC16T	6.50	08/20/92
VLBA0069	3MQIC16T	9.00	08/21/92
VLBA0070	3MQIC16T	8.00	08/12/92
VLBA0071	3MQIC16T	6.00	08/25/92
VLBA0072*	3MQIC16T	4.50	06/26/92
VLBA0076	3MQIC16T	7.50	09/01/92
VLBA0077	3MQIC16T	6.50	09/01/92