

"CS1" Status

CS008

CS010

CS001 CS016



Issue about the phase centres

- ◆ Beam tracking geometrical phase centre
- ◆ Delay tracking / fringe stopping geo. phase centre
- ◆ Physical geometrical phase centre in MS for UVW correction

- ◆ Beam tracking and delay tracking geometrical phase centre is fixed to the centre of the LBA array
- ◆ Physical geometrical phase centre is calculated from the actual locations of the antennas participating in the uStation

- ◆ In place now

The Pointing

- ◆ Beam tracking pointing
- ◆ Delay tracking pointing
- ◆ Both will be independently

Observations @ 200 MHz

- ◆ Redundant baselines do not give redundant visibilities when 4 dipoles are used
- ◆ Visibilities of X pol. differs too much from Y pol.
- ◆ Last measurement of this morning was to look at zenith and check if there is redundancy

Tick, tick, tick

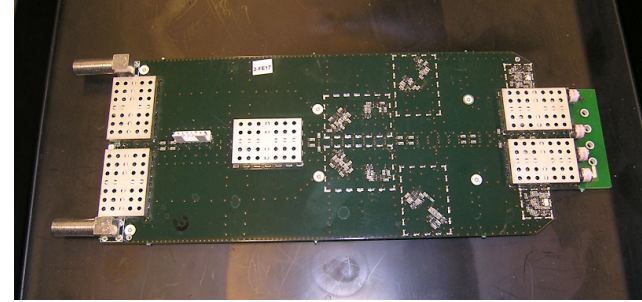
- ◆ Instead of 2 now 4 test signals are connected
 - ◆ 1 signal at CS008
 - ◆ 2 signals within a subrack at CS010
 - ◆ 1 signal in another subrack at CS010
- ◆ To isolate if the GPS, Rb combination is the only error source we have (till now)

Progress Central Systems

- ◆ New more efficient transpose operational (necessary for the 32 subbands)
- ◆ MAC/SAS integration ongoing
- ◆ Busy to solve a “sometimes” bug



HBA Plan



- ◆ We will place 32 HBA dipoles in Exloo @ CS010 site
- ◆ Consequence: power supply must be adapted
- ◆ Cables are ordered and under way
- ◆ Front End Units are integrated in the “spiders”
- ◆ Field can not be flattened because of the rain fall
- ◆ First light next week is the most optimistic estimation if the configuration is clear

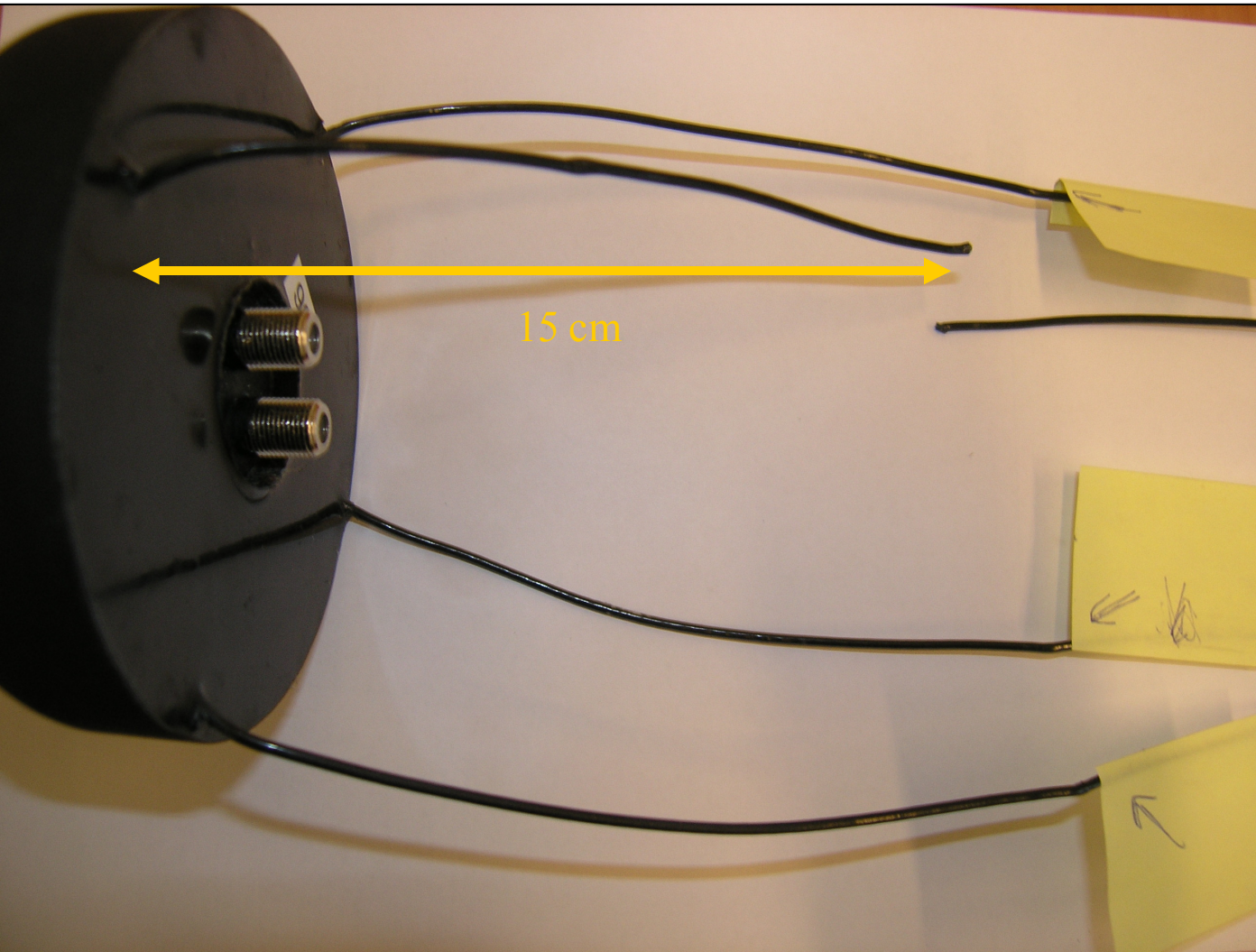
CSI Exloo

- ◆ The victim: a Low Band Antenna

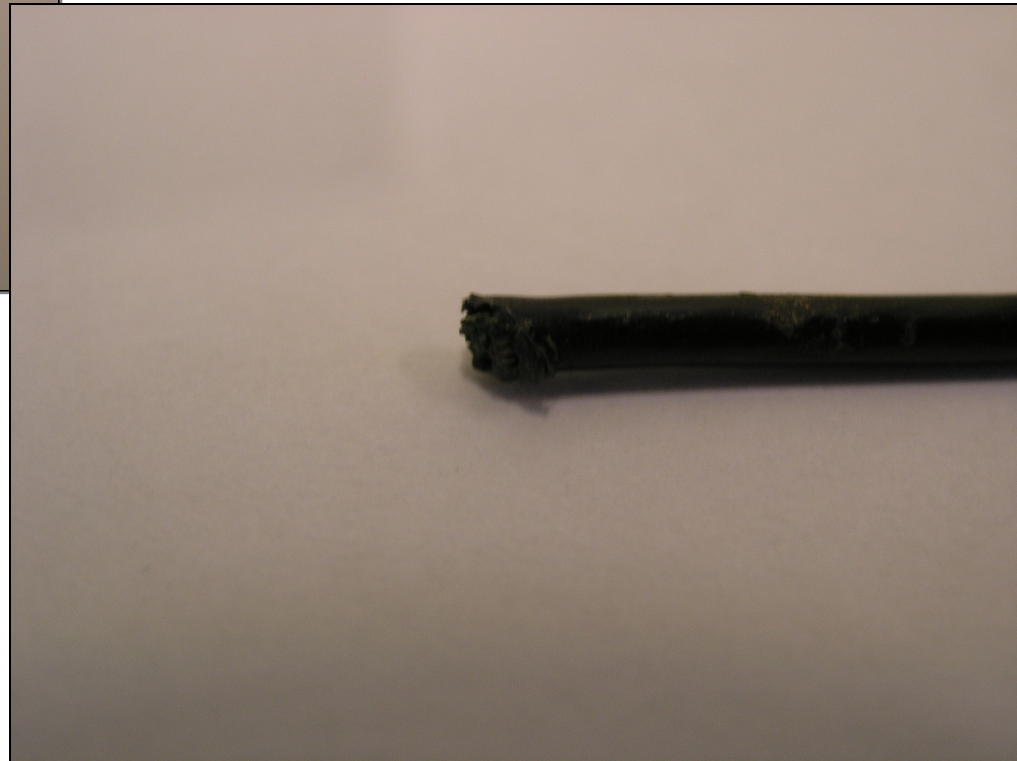
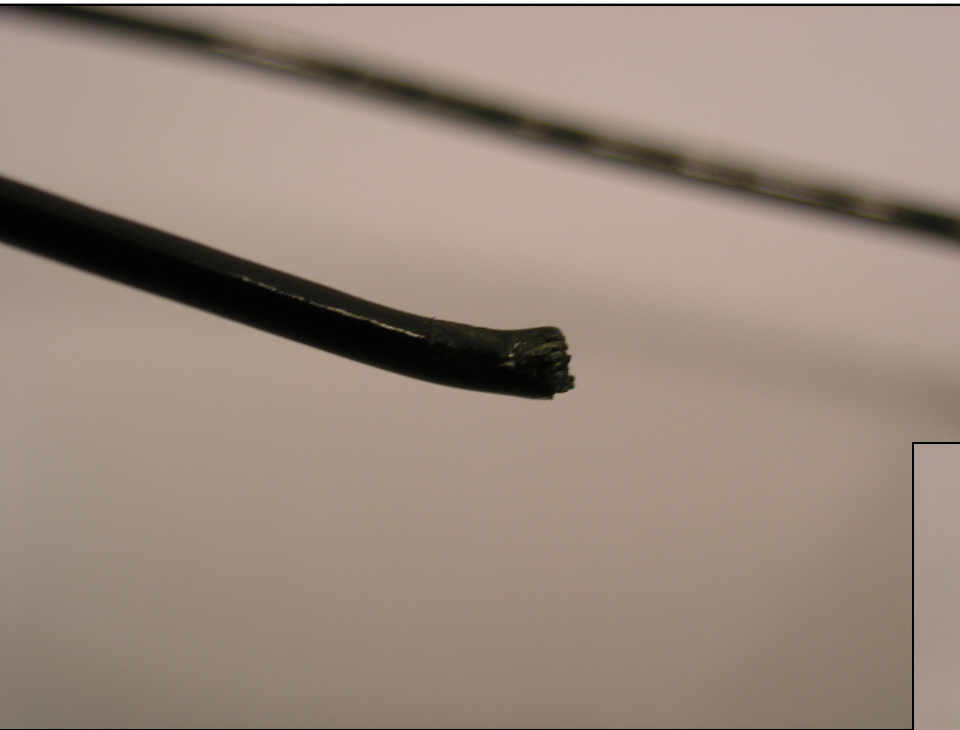
The Crime Scene



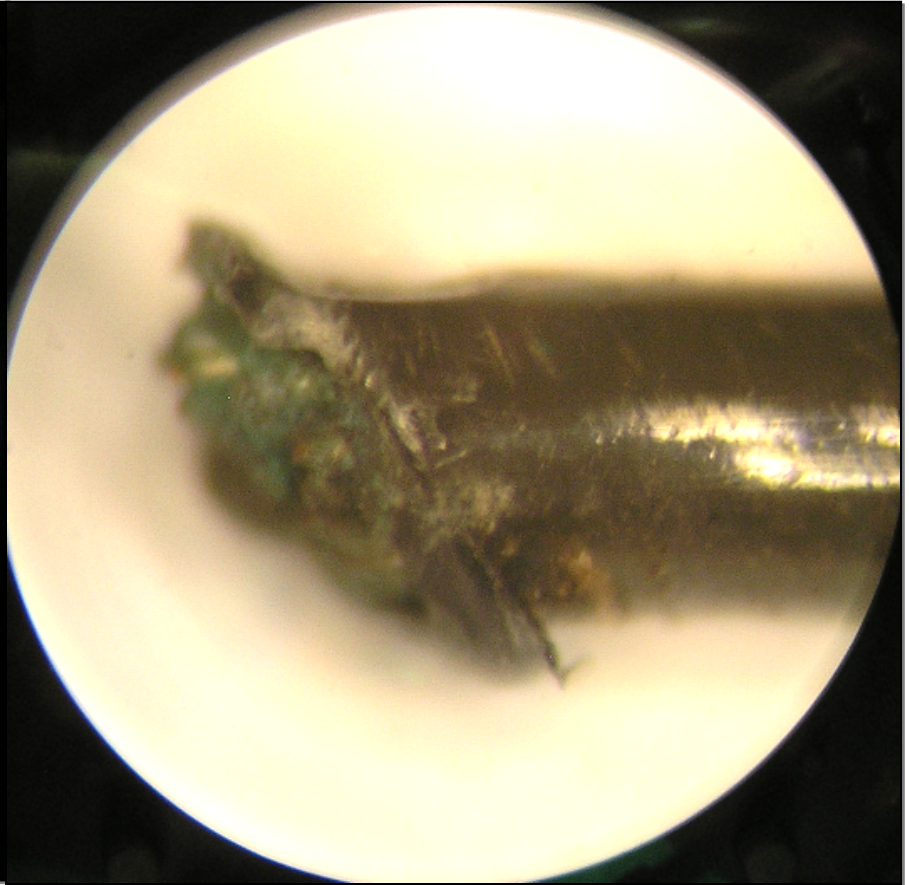
The Evidence



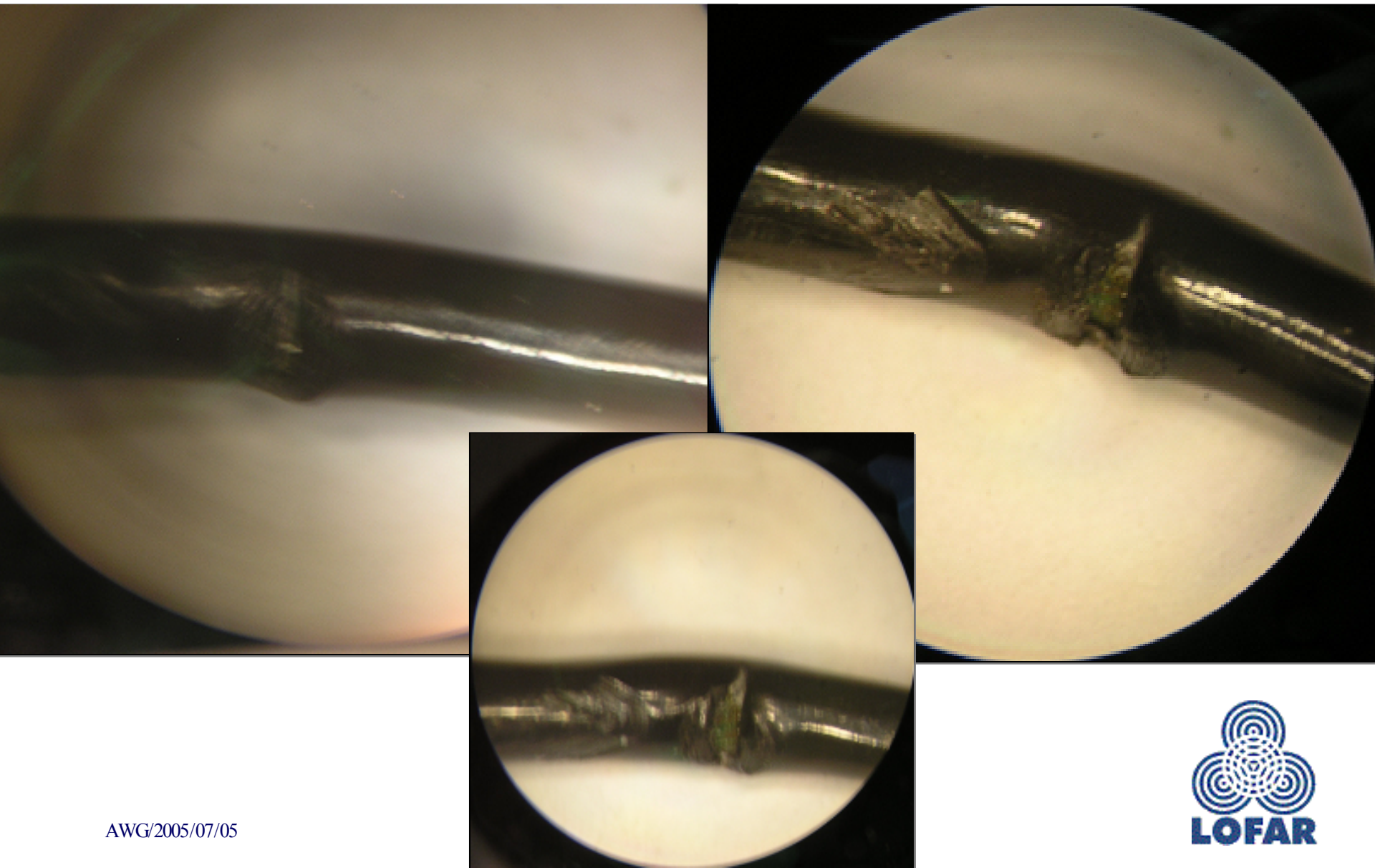
The Visual Inspection



Microscopic Analysis



The Other Wires



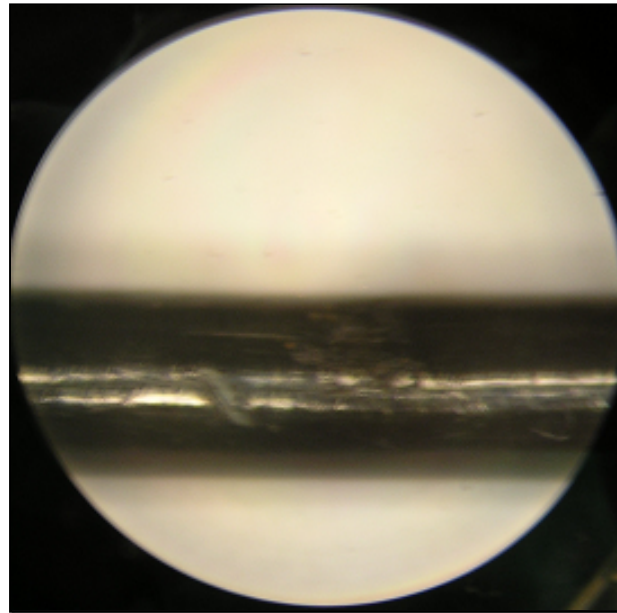
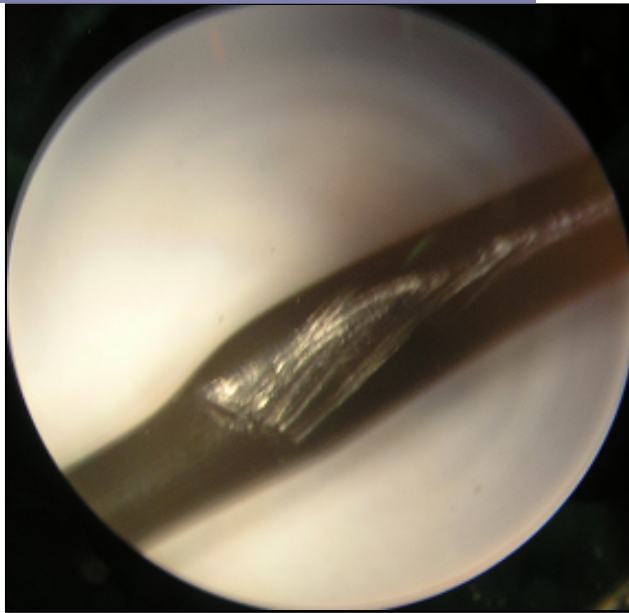
The Probable Weapon



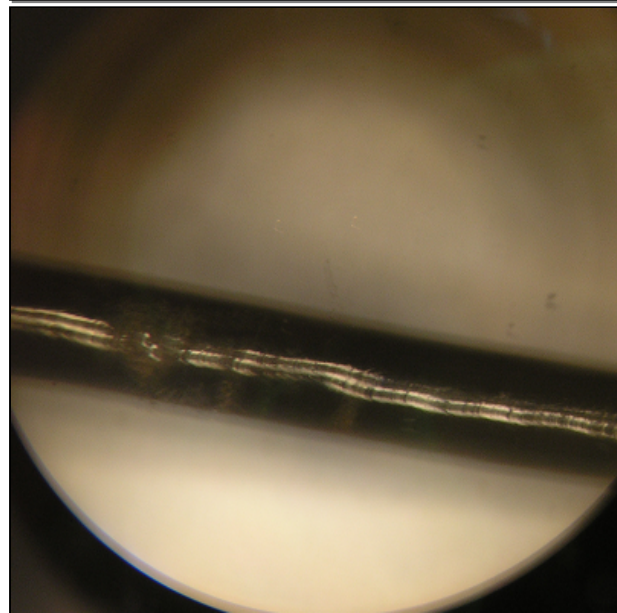
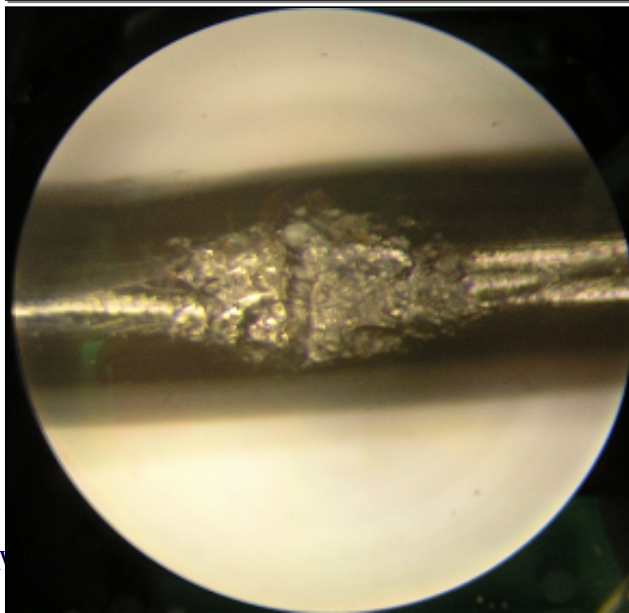
The Suspect



Collateral Damage



60 cm
from the head



Thanks to the investigator

- ◆ Marchel Gerbers
- ◆ Don't forget: this is a serious problem for the current LBAs and we will get more information over time
- ◆ Current statistics: 1 down of 96 in about half a year