

# ASOS OID and VDU Hardware Replacement Training/Errata Information



# Current ASOS OID and VDU Hardware



## **OID (Operator Interface Device)**

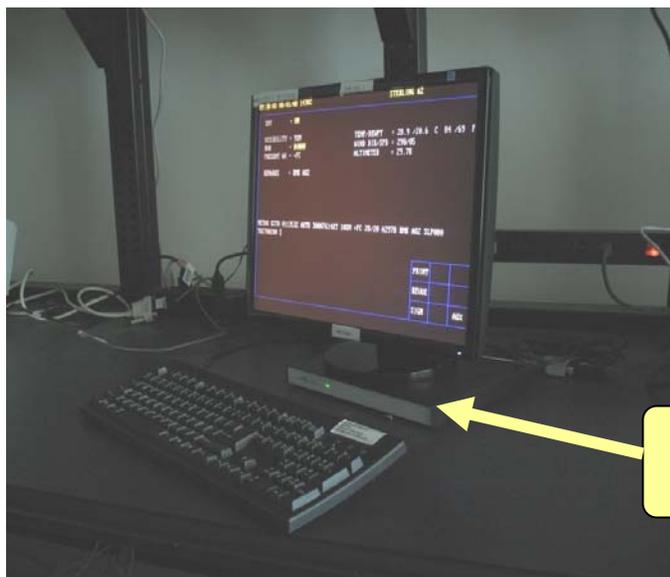
- primary user interface to ASOS
- allows user to edit ASOS data
- used by ATCT and contract weather observer
- uses CRT (cathode ray tube) monitor



## **VDU (Video Display Unit)**

- ASOS read-only data display
- typically used in TRACON
- uses CRT monitor

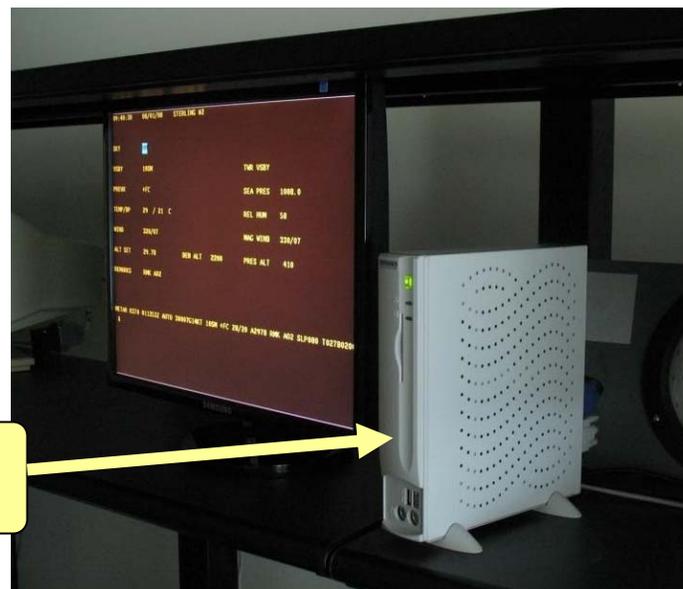
# New ASOS OID and VDU Hardware



thin client  
terminal

## OID (Operator Interface Device)

- consists of:
  - Samsung flat panel monitor
  - thin client terminal
  - keyboard



## VDU (Video Display Unit)

- consists of:
  - Samsung flat panel monitor
  - thin client terminal

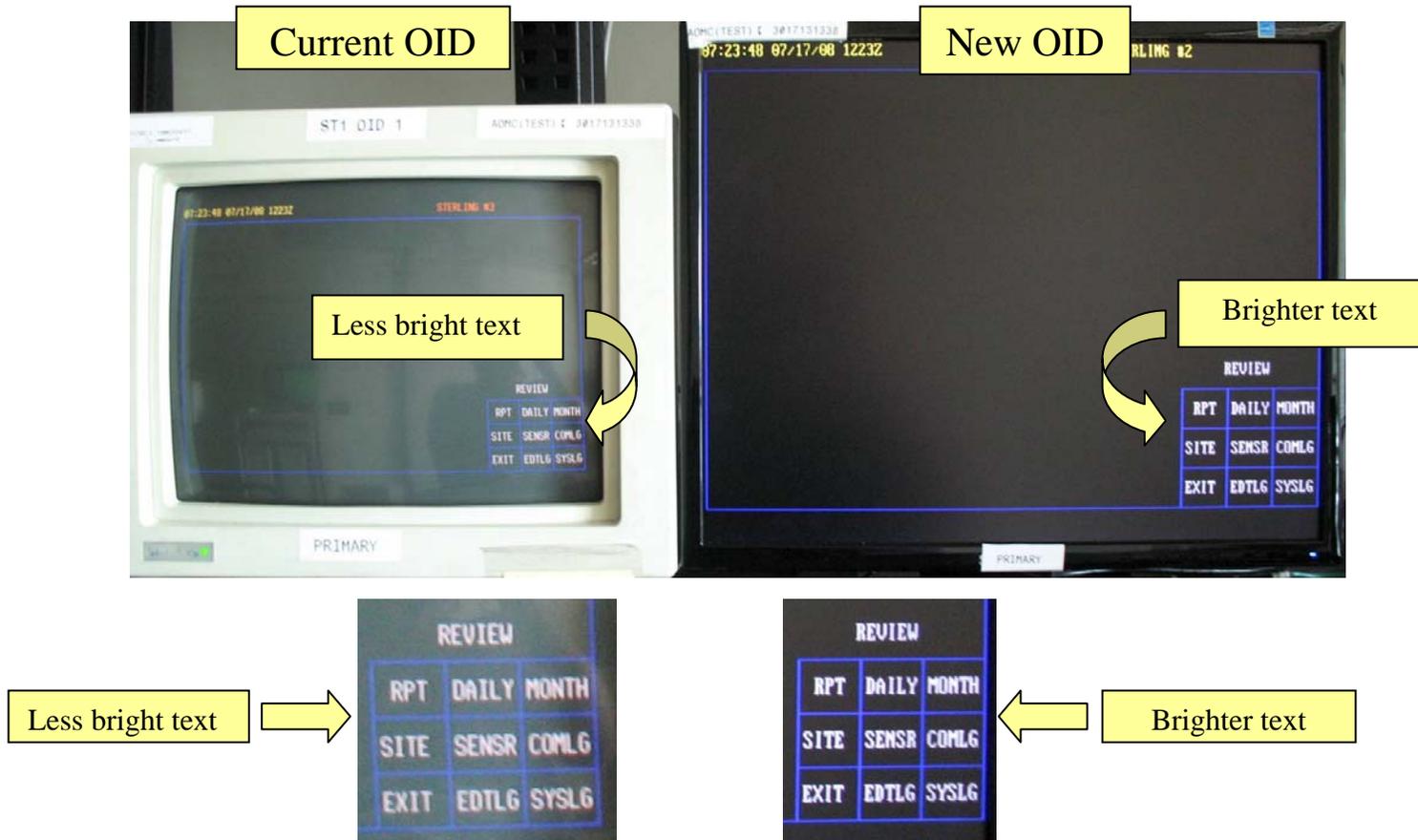
# Issues

- Current ASOS OID and VDU hardware is obsolete and can no longer be support.
  - CRT (cathode ray tube) terminals very difficult to obtain
- New OID and VDU hardware has several slight differences in appearance and operation.
  - Differences listed on following slides



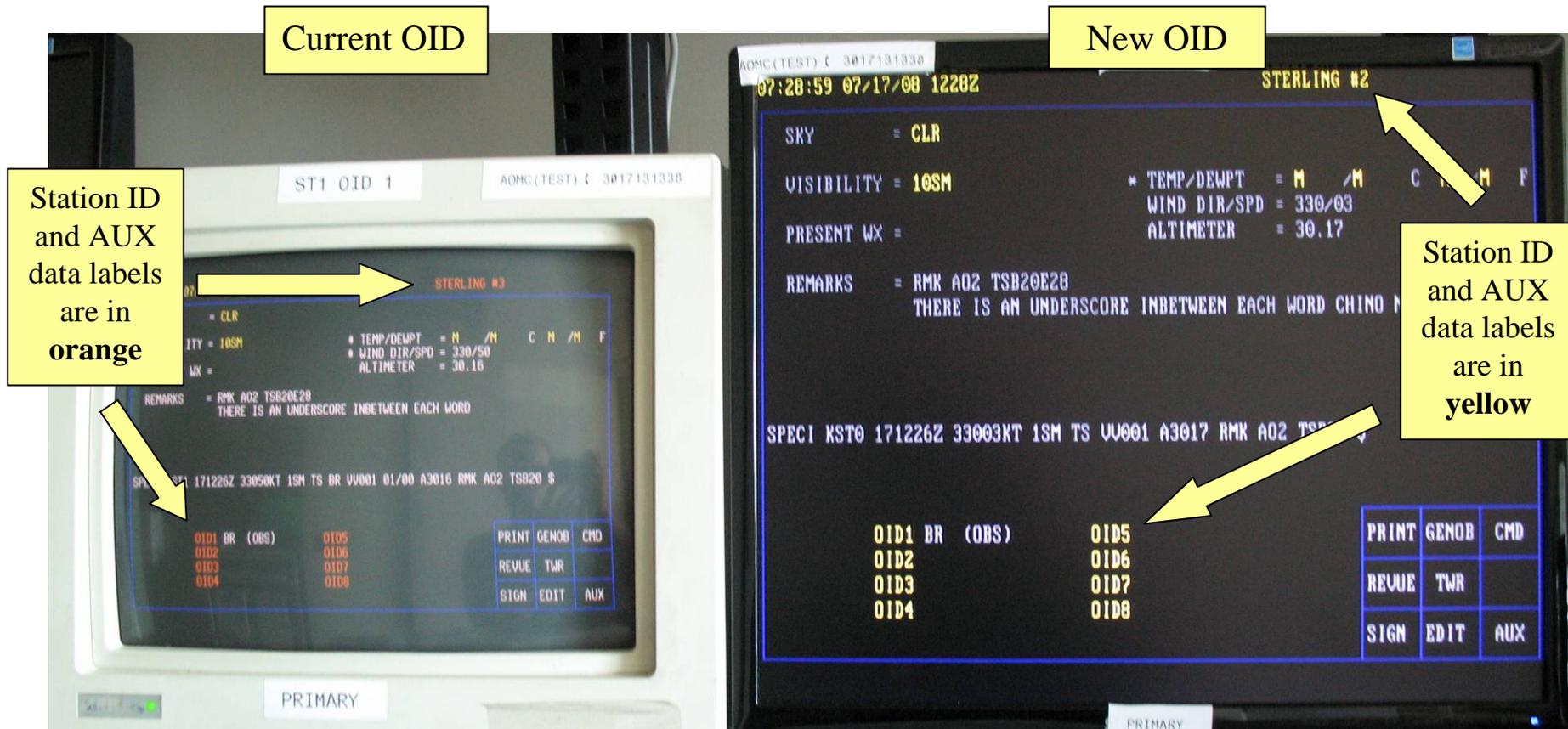
# Differences between current and new OID

## 1.) Brighter text on new OID



# Differences between current and new OID

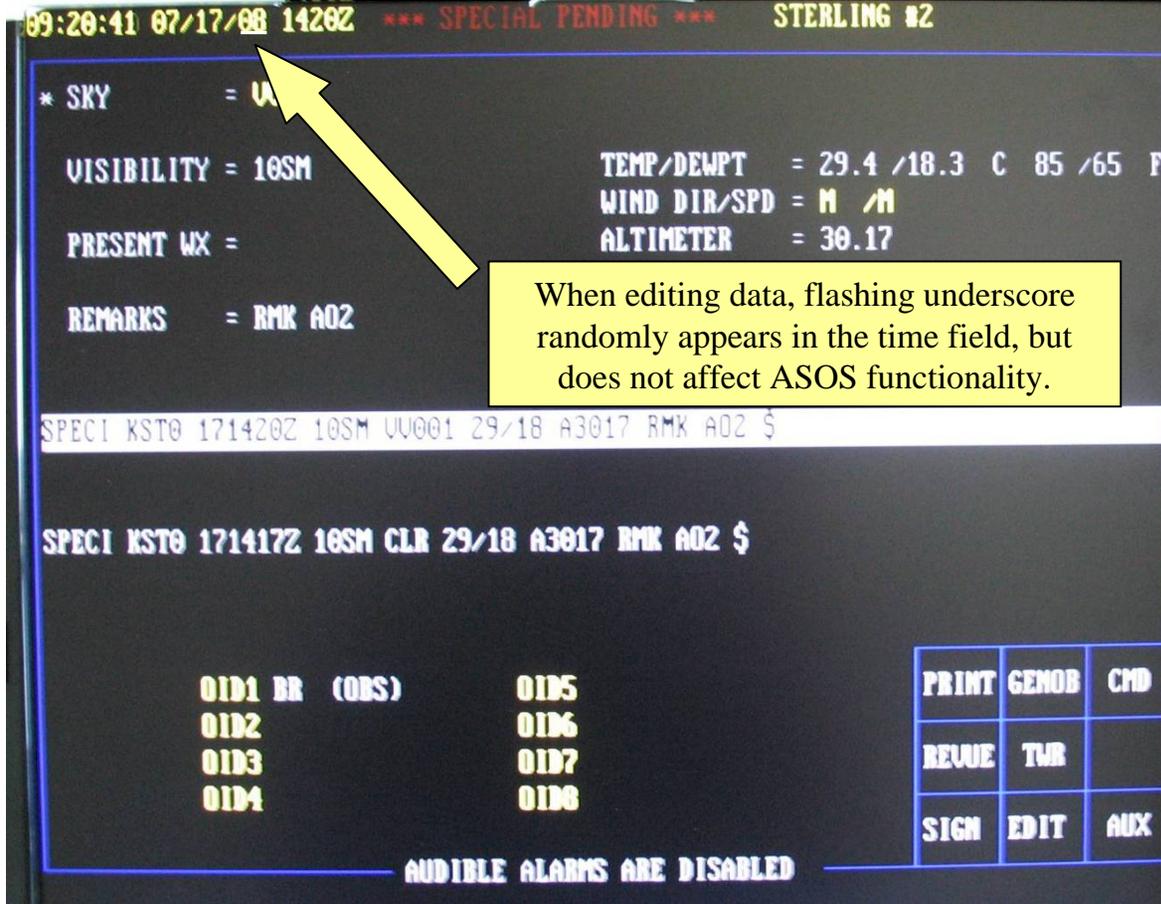
## 2.) Station ID and AUX data different font color



# Differences between current and new OID

3.) When editing data, flashing underscore appears in time field

New OID



09:20:41 07/17/0R 1420Z \*\*\* SPECIAL PENDING \*\*\* STERLING #2

\* SKY = U  
VISIBILITY = 10SM      TEMP/DEWPT = 29.4 /18.3 C 85 /65 F  
PRESENT WX =      WIND DIR/SPD = M /M  
REMARKS = RMK A02      ALTIMETER = 30.17

SPECI KST0 171420Z 10SM UU001 29/18 A3017 RMK A02 \$

SPECI KST0 171417Z 10SM CLR 29/18 A3017 RMK A02 \$

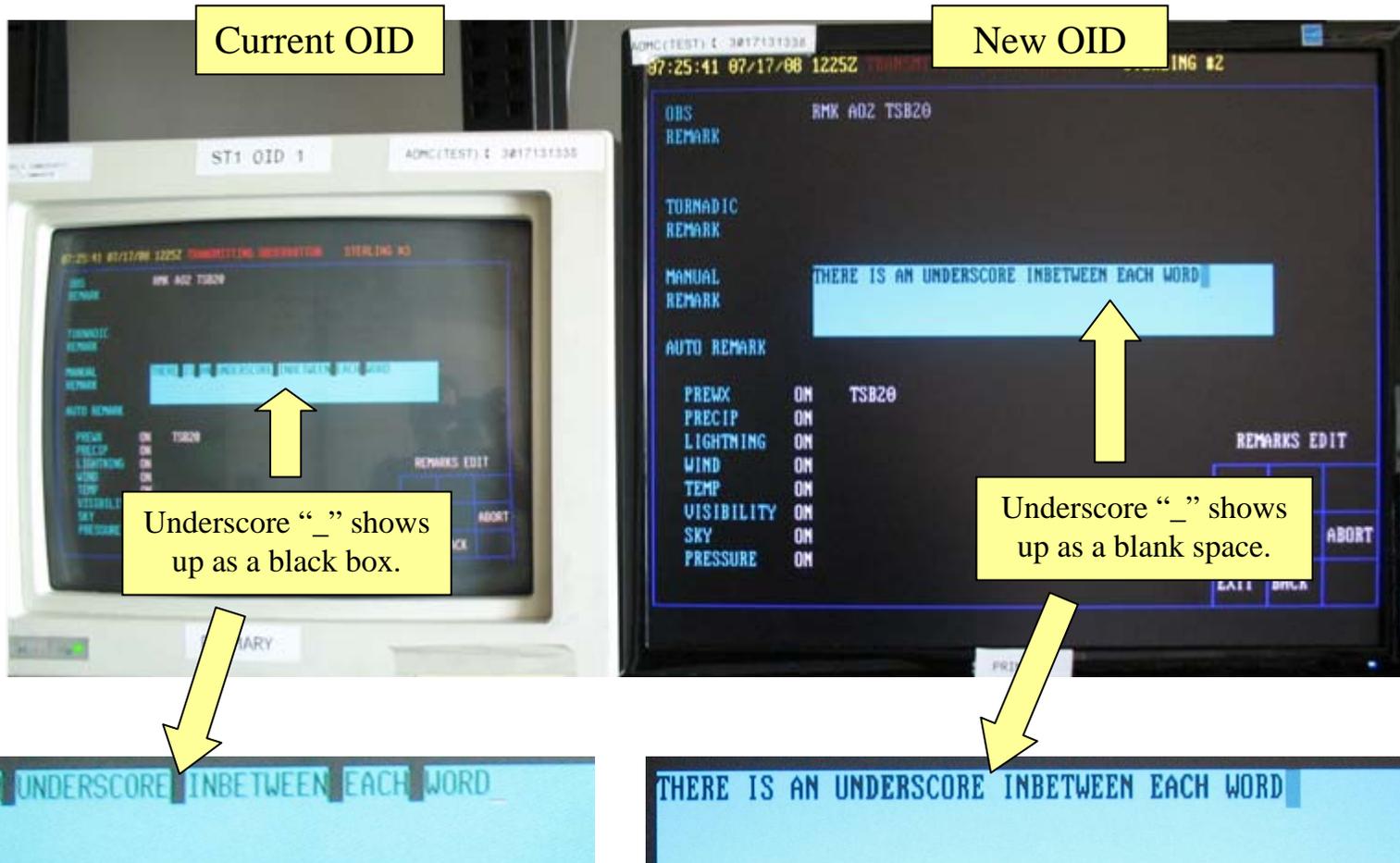
01D1 BR (ORS)	01D5	PRINT	GENOB	CMD
01D2	01D6	REVUE	TWR	
01D3	01D7	SIGN	EDIT	AUX
01D4	01D8			

AUDIBLE ALARMS ARE DISABLED

When editing data, flashing underscore randomly appears in the time field, but does not affect ASOS functionality.

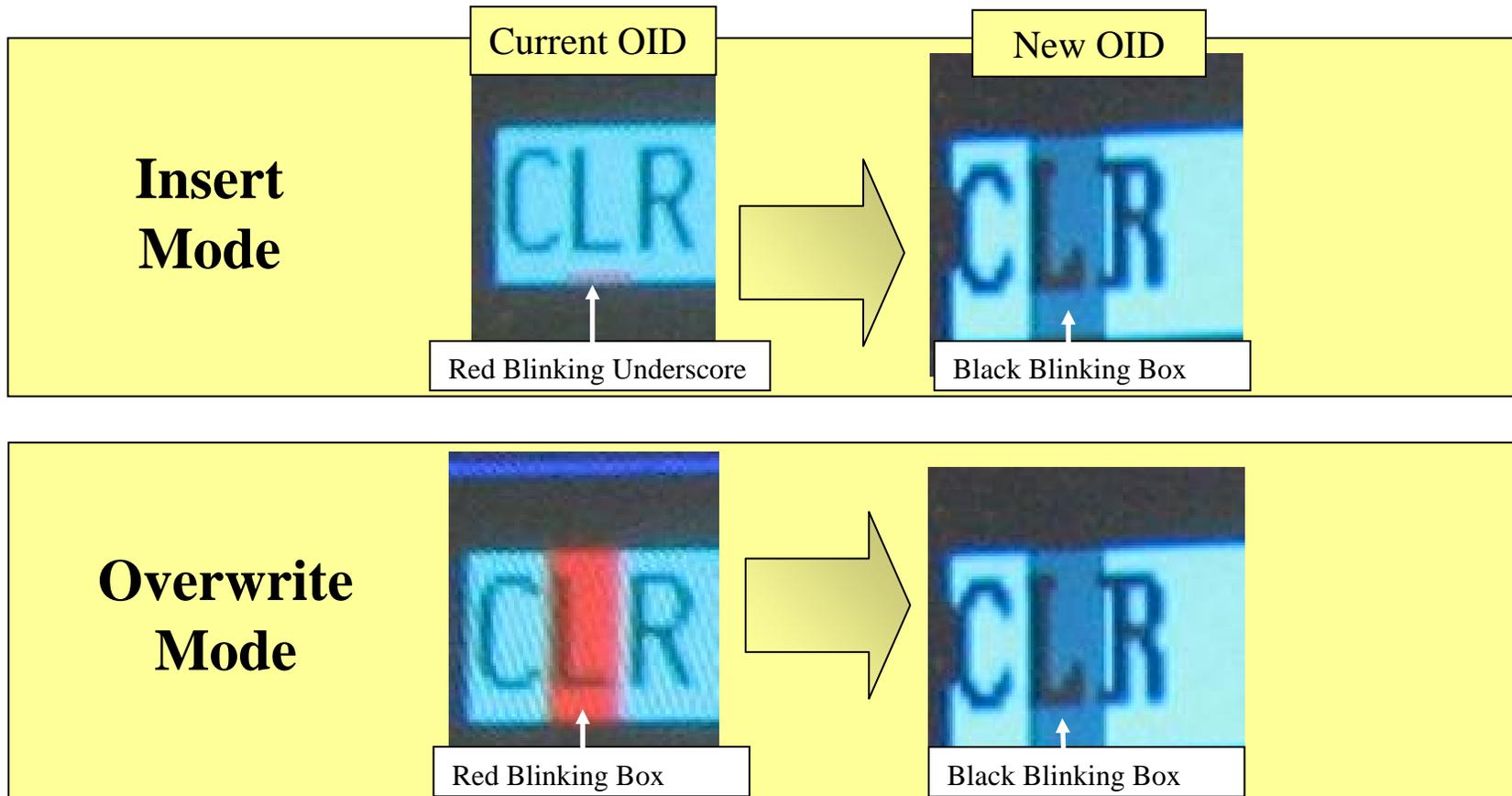
# Differences between current and new OID

## 4.) When editing data, underscore character displayed differently



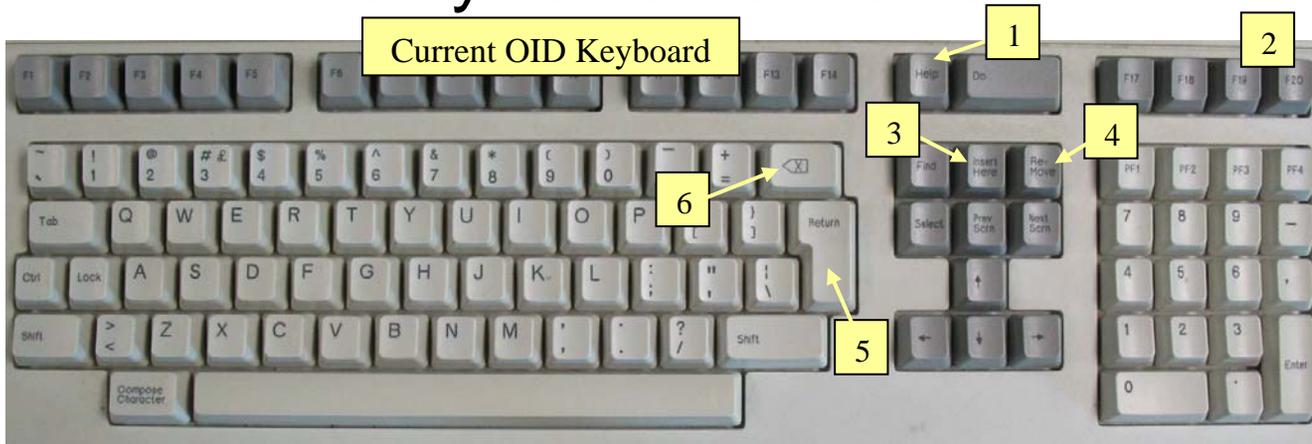
# Differences between current and new OID

5.) When editing data, characters are displayed differently in insert and overwrite modes.



# Differences between current and new OID

## 6.) Keyboard layout has slight differences; functionality remains the same.

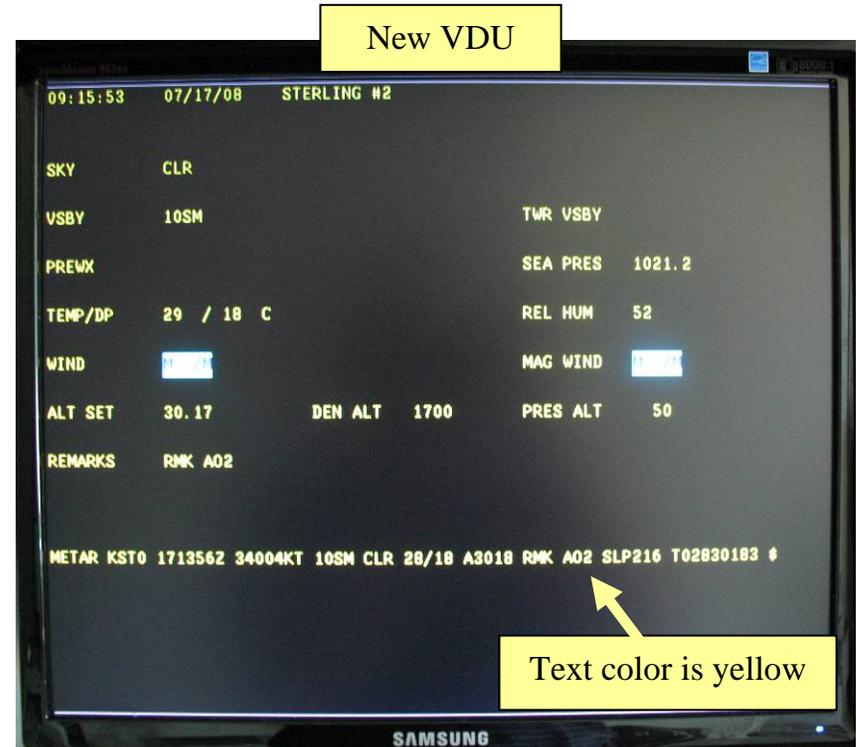
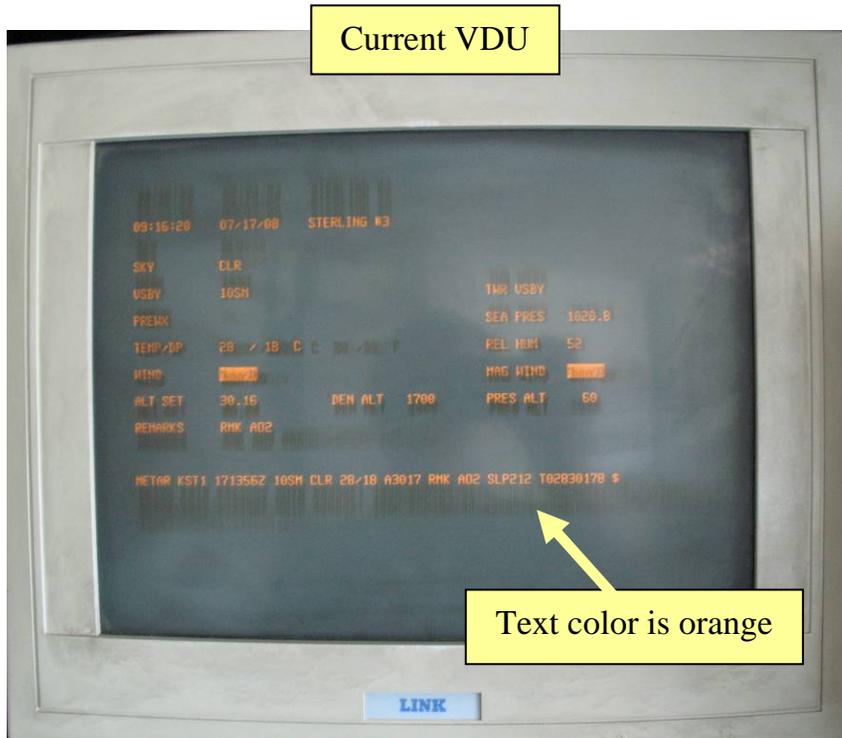


### Keyboard Differences

- 1 No **"Help"** key on new OID keyboard; **"0"** key on the auxiliary keypad still available.
- 2 No **F19** or **F20** keys on new OID keyboard; **F11** and **F12** keys still available for audible alarm functions.
- 3 **Insert** key on new OID keyboard has same functionality as **Insert Here** key on current OID keyboard.
- 4 **Delete** key on new OID keyboard has same functionality as **Re-Move** key on current OID keyboard.
- 5 **Enter** key on new OID keyboard has same functionality as **Return** key on current OID keyboard.
- 6 Backspace keys have the same functionality and location, just different icons.

# Differences between current and new VDU

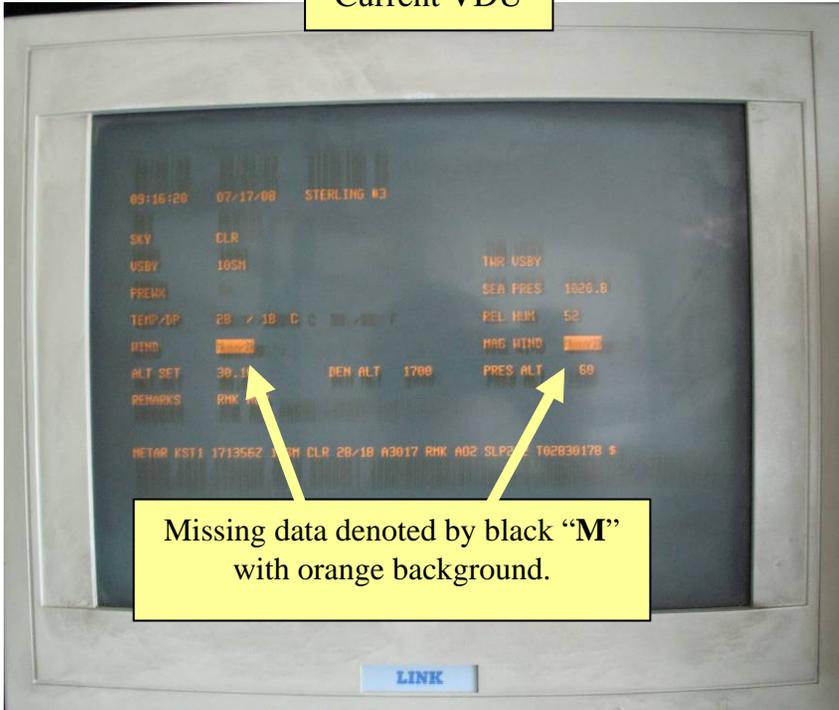
## 1.) Text displayed in different colors



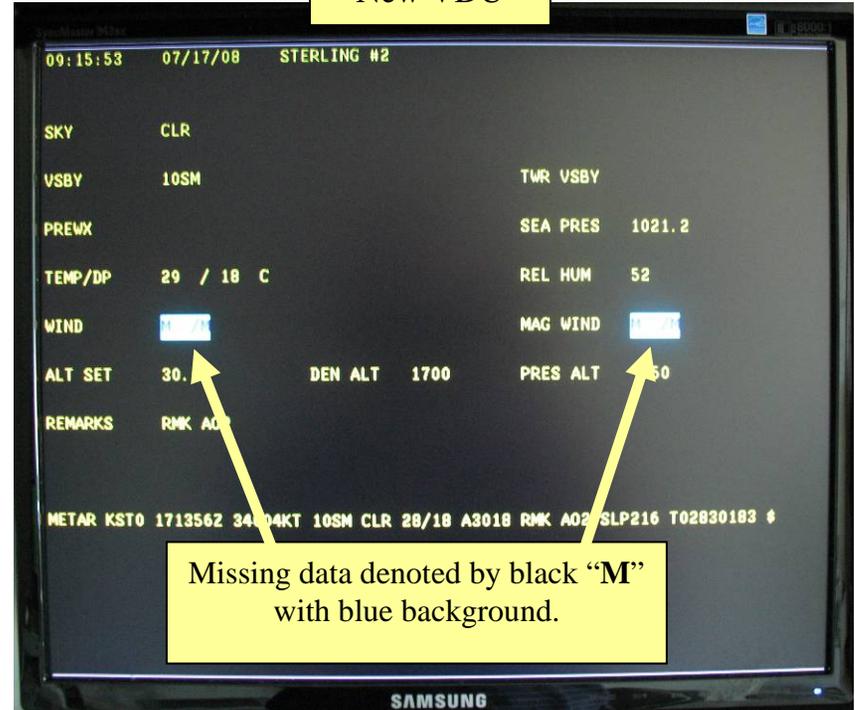
# Differences between current and new VDU

## 2.) "Missing" data highlighted differently

Current VDU



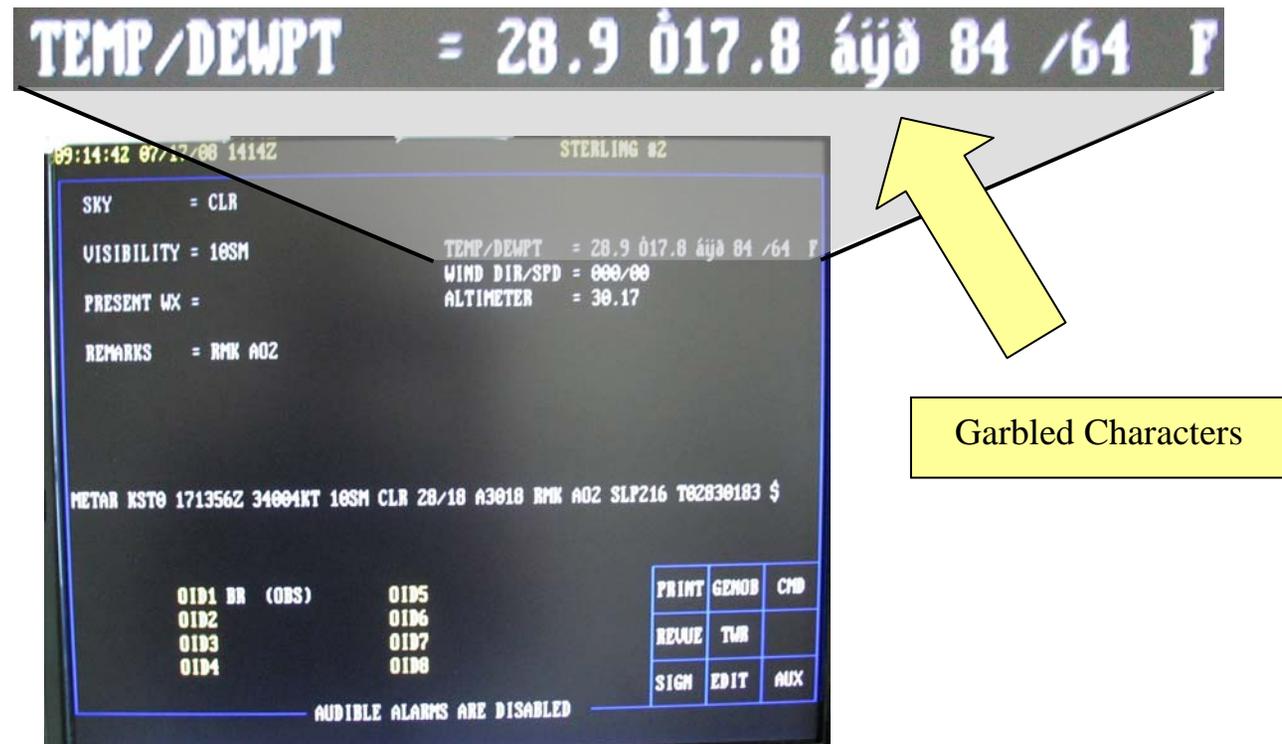
New VDU



# New OID Errata

1.) A loss of ASOS ACU to OID communications may cause garbled characters show up on display.

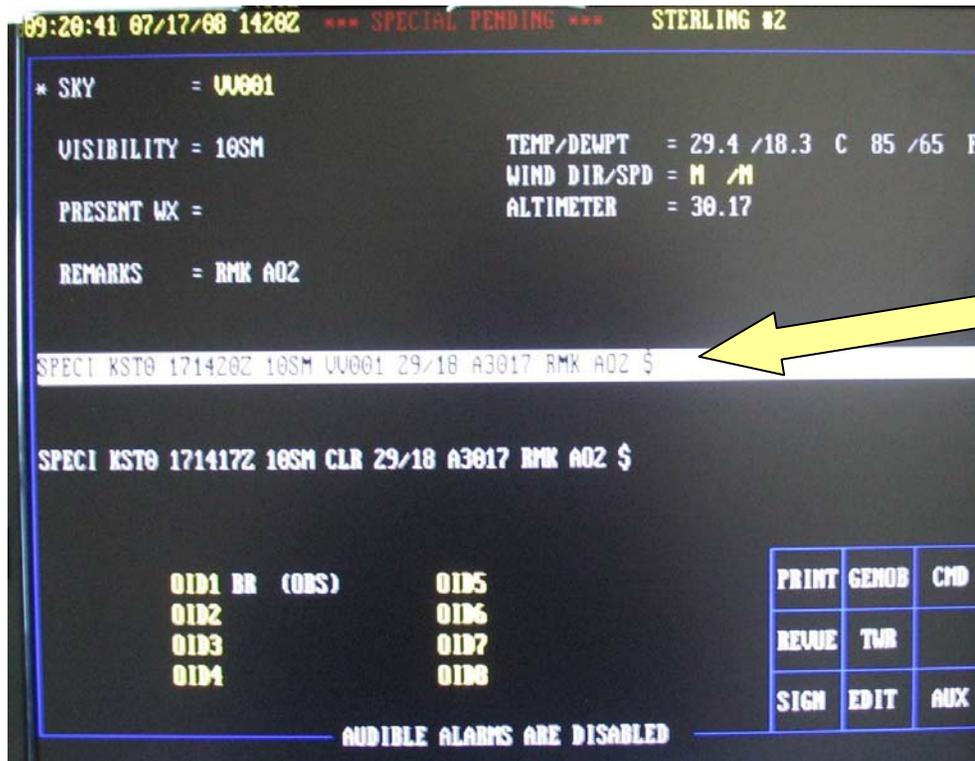
*Resolution: Press "0" key on auxiliary keypad twice to refresh screen and erase garbled characters.*



# New OID Errata

2.) If ASOS ACU to OID communications are lost when a METAR or SPECI ob is Pending and are not restored until after the ob is Transmitted, the Pending ob will remain on the screen and not show as being Transmitted.

*Resolution: Press "0" key on auxiliary keypad twice to refresh screen and accurately show that the observations has been transmitted.*



After communications have been restored, the observation that remains on the screen is shown as "PENDING" (with a white background) even though it has been transmitted.