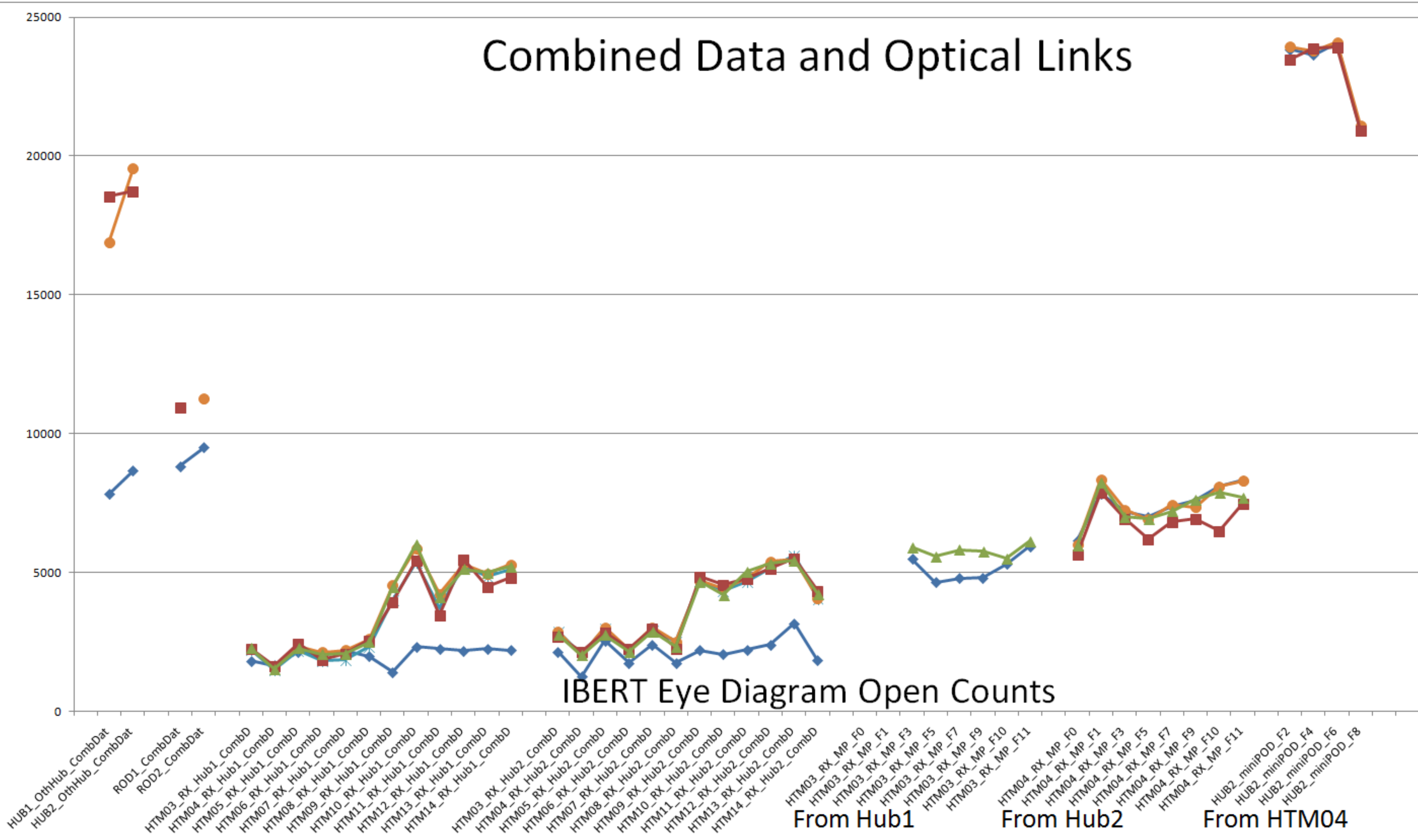


Combined Data and Optical Links

IBERT
@6.4Gbps
PRBS-31

DFE OFF
Equalizer OFF

Clocklocked to GBT



- ◆ O 16-Jan-2019 reduced swing
- ✕ O
- ✱ O 19-Feb-2019 SN09 & SN05
- O 15-May-2019 SN11 & SN05
- O 20-May-2019 SN05 & SN11
- ▲ O 07-Jun-2019 SN11 & SN08
- O

Hub1:
FW: IBERT+IPbus+GBT
rev 19-Dec-2018

Hub2:
FW: IBERT+IPbus
rev 05-Nov-2018

HTM 3-14:
S/N 5,17,1,11,4,12,
3,13,10,6,9,8
FW: IBERT+IPbus
rev 07-Sep-2018

IBERT Eye Diagram Open Counts

From Hub1

From Hub2

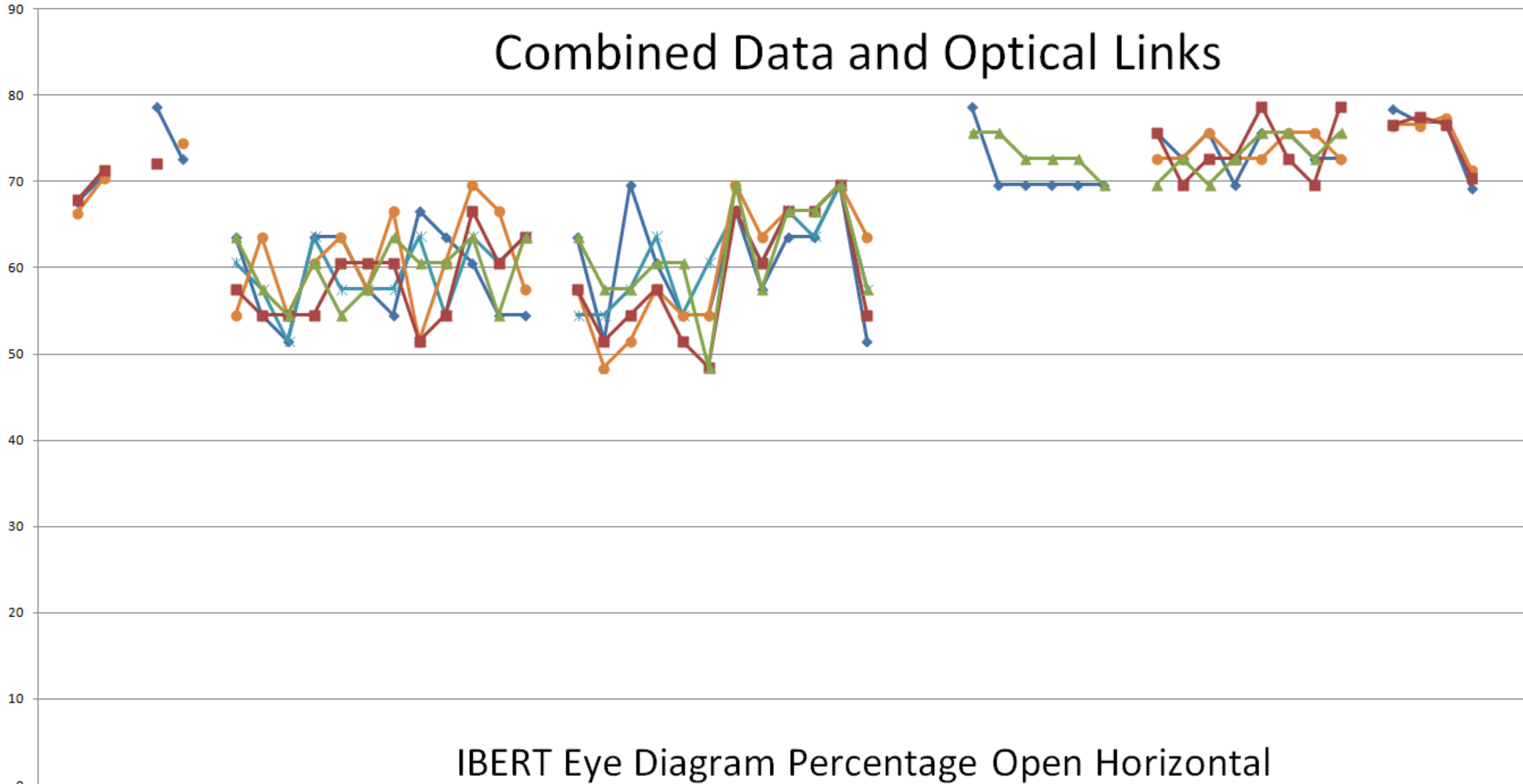
From HTM04

Combined Data and Optical Links

IBERT
@6.4Gbps
PRBS-31

DFE OFF
Equalizer OFF

Clock locked to GBT



- ◆ H% 16-Jan-2019 reduced swing
- ✕ H%
- ✱ H% 19-Feb-2019 SN09 & SN05
- H% 15-May-2019 SN11 & SN05
- H% 20-May-2019 SN05 & SN11
- ▲ H% 07-Jun-2019 SN11 & SN08
- ◆ H%

Hub1:
FW: IBERT+IPbus+GBT
rev 19-Dec-2018

Hub2:
FW: IBERT+IPbus
rev 05-Nov-2018

HTM3-14:
S/N 5,17,1,11,4,12,
3,13,10,6,9,8
FW: IBERT+IPbus
rev 07-Sep-2018

IBERT Eye Diagram Percentage Open Horizontal

- HUB1_OthHub_CombDat
- HUB2_OthHub_CombDat
- ROD1_CombDat
- ROD2_CombDat
- HTM03_RX_Hub1_CombD
- HTM04_RX_Hub1_CombD
- HTM05_RX_Hub1_CombD
- HTM06_RX_Hub1_CombD
- HTM07_RX_Hub1_CombD
- HTM08_RX_Hub1_CombD
- HTM09_RX_Hub1_CombD
- HTM10_RX_Hub1_CombD
- HTM11_RX_Hub1_CombD
- HTM12_RX_Hub1_CombD
- HTM13_RX_Hub1_CombD
- HTM14_RX_Hub1_CombD
- HTM03_RX_Hub2_CombD
- HTM04_RX_Hub2_CombD
- HTM05_RX_Hub2_CombD
- HTM06_RX_Hub2_CombD
- HTM07_RX_Hub2_CombD
- HTM08_RX_Hub2_CombD
- HTM09_RX_Hub2_CombD
- HTM10_RX_Hub2_CombD
- HTM11_RX_Hub2_CombD
- HTM12_RX_Hub2_CombD
- HTM13_RX_Hub2_CombD
- HTM14_RX_Hub2_CombD
- HTM03_RX_MP_F0
- HTM03_RX_MP_F1
- HTM03_RX_MP_F3
- HTM03_RX_MP_F5
- HTM03_RX_MP_F7
- HTM03_RX_MP_F9
- HTM03_RX_MP_F10
- HTM03_RX_MP_F11
- HTM04_RX_MP_F0
- HTM04_RX_MP_F1
- HTM04_RX_MP_F3
- HTM04_RX_MP_F5
- HTM04_RX_MP_F7
- HTM04_RX_MP_F9
- HTM04_RX_MP_F10
- HTM04_RX_MP_F11
- HUB2_miniPOD_F2
- HUB2_miniPOD_F4
- HUB2_miniPOD_F6
- HUB2_miniPOD_F8

From Hub1

From Hub2

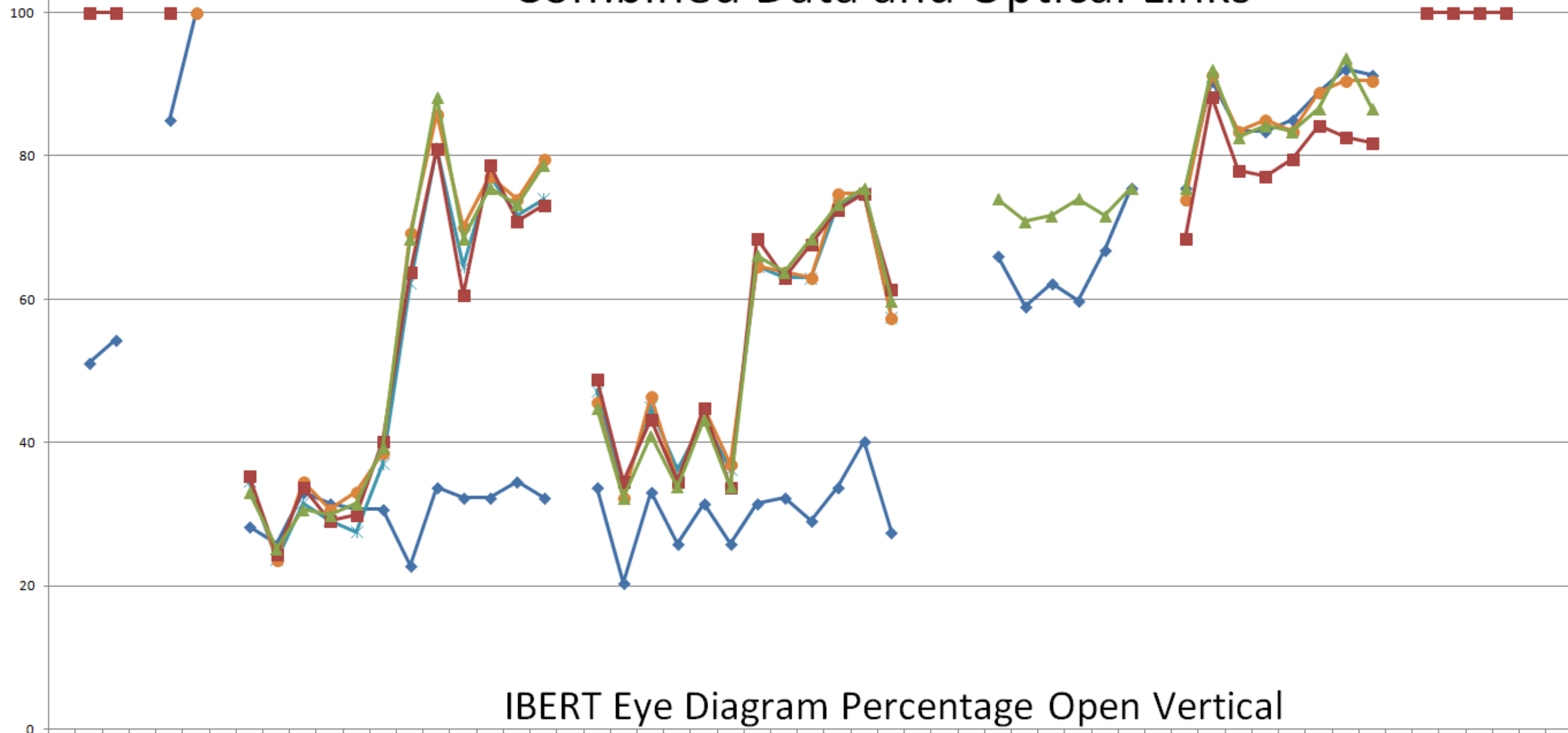
From HTM04

Combined Data and Optical Links

IBERT
@6.4Gbps
PRBS-31

DFE OFF
Equalizer OFF

Clock locked to GBT



IBERT Eye Diagram Percentage Open Vertical

- V% 16-Jan-2019 reduced swing
- V%
- V% 19-Feb-2019 SN09 & SN05
- V% 15-May-2019 SN11 & SN05
- V% 20-May-2019 SN05 & SN11
- V% 07-Jun-2019 SN11 & SN08
- V%

Hub1:
FW: IBERT+IPbus+GBT
rev 19-Dec-2018

Hub2:
FW: IBERT+IPbus
rev 05-Nov-2018

HTM3-14:
S/N 5,17,1,11,4,12,
3,13,10,6,9,8
FW: IBERT+IPbus
rev 07-Sep-2018

From Hub1

From Hub2

From HTM04