11.2 Geographical and Seasonal Availability of Light Rain, Dry Snow, and Bragg Scatter to Estimate WSR-88D $Z_{DR}$ System Bias

(Supplemental Availability Slides)

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LIGHT RAIN METHOD
Light Rain – October 2013
Light Rain – November 2013

US Nexrad Map Number of Events (Light Rain Method) - November 2013

Alaska, AK

Hawaii, HI

Puerto Rico, PR

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0
Light Rain – December 2013

US Nexrad Map Number of Events (Light Rain Method) - December 2013

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0

Alaska, AK

Hawaii, HI

Puerto Rico, PR
Light Rain – January 2014

US Nexrad Map Number of Events (Light Rain Method) - January 2014

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Light Rain – February 2014

US Nexrad Map Number of Events (Light Rain Method) - February 2014

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Light Rain – March 2014

US Nexrad Map Number of Events (Light Rain Method) - March 2014

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Light Rain – April 2014
Light Rain – May 2014

US Nexrad Map Number of Events (Light Rain Method) - May 2014

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Light Rain – June 2014

US NExrad Map Number of Events (Light Rain Method) - June 2014

Alaska, AK

Hawaii, HI

Puerto Rico, PR

Legend:
- Pink: $X > 20$
- Orange: $10 < X \leq 20$
- Blue: $0 < X \leq 10$
- Gray: $X = 0$
Light Rain – July 2014

US Nexrad Map Number of Events (Light Rain Method) - July 2014

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0
Light Rain – August 2014

US Nexrad Map Number of Events (Light Rain Method) - August 2014

No. Events
- $X > 20$
- $10 < X \leq 20$
- $0 < X \leq 10$
- $X = 0$

Alaska, AK

Hawaii, HI

Puerto Rico, PR
Light Rain – September 2014

US Nexrad Map Number of Events (Light Rain Method) - September 2014

Alaska, AK

Hawaii, HI

Puerto Rico, PR

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0
DRY SNOW METHOD
Dry Snow – October 2013

US NEXRAD Map Number of Events (Dry Snow Method) - October 2013

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Dry Snow – November 2013

US Nexrad Map Number of Events (Dry Snow Method) - November 2013

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0
Dry Snow – December 2013
Dry Snow – January 2014

US Nexrad Map Number of Events (Dry Snow Method) - January 2014

Alaska, AK

Hawaii, HI

Puerto Rico, PR

No. Events

- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0
Dry Snow – February 2014

US NExRad Map Number of Events (Dry Snow Method) - February 2014

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Dry Snow – March 2014

US Nexrad Map Number of Events (Dry Snow Method) - March 2014

Alaska, AK
Hawaii, HI
Puerto Rico, PR

No. Events
X > 20
10 < X ≤ 20
0 < X ≤ 10
X = 0
Dry Snow – April 2014
Dry Snow – May 2014

US Nexrad Map Number of Events (Dry Snow Method) - May 2014

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Dry Snow – June 2014

US NEXRAD Map Number of Events (Dry Snow Method) - June 2014

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Dry Snow – July 2014

US Nexrad Map Number of Events (Dry Snow Method) - July 2014

No. Events
- X > 20
- 10 < X ≤ 20
- 0 < X ≤ 10
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Dry Snow – August 2014
Dry Snow – September 2014
BRAGG SCATTER METHOD
Bragg Scatter – October 2013

US Nexrad Map Number of Events (Bragg Method) - October 2013

No. Events
- X > 10
- 5 < X ≤ 10
- 0 < X ≤ 5
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Bragg Scatter – November 2013

US Nexrad Map Number of Events (Bragg Method) - November 2013

- No. Events
  - X > 10
  - 5 < X ≤ 10
  - 0 < X ≤ 5
  - X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Bragg Scatter – December 2013

US Nexrad Map Number of Events (Bragg Method) - December 2013

Alaska, AK

Hawaii, HI

Puerto Rico, PR

No. Events
- X > 10
- 5 < X ≤ 10
- 0 < X ≤ 5
- X = 0
Bragg Scatter – January 2014

US Nexrad Map Number of Events (Bragg Method) - January 2014

Alaska, AK

Hawaii, HI

Puerto Rico, PR

No. Events
- X > 10
- 5 < X ≤ 10
- 0 < X ≤ 5
- X = 0
Bragg Scatter – February 2014

US Nexrad Map Number of Events (Bragg Method) - February 2014

No. Events
- X > 10
- 5 < X ≤ 10
- 0 < X ≤ 5
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Bragg Scatter – March 2014
Bragg Scatter – June 2014

US Nexrad Map Number of Events (Bragg Method) - June 2014

No. Events
- X > 10
- 5 < X ≤ 10
- 0 < X ≤ 5
- X = 0

Alaska, AK
Hawaii, HI
Puerto Rico, PR
Bragg Scatter – July 2014

US Nexrad Map Number of Events (Bragg Method) - July 2014

No. Events
- X > 10
- 5 < X ≤ 10
- 0 < X ≤ 5
- X = 0

Alaska, AK

Hawaii, HI

Puerto Rico, PR
Bragg Scatter – August 2014

US Nexrad Map Number of Events (Bragg Method) - August 2014

Alaska, AK

Hawaii, HI

Puerto Rico, PR

No. Events
- X > 10
- 5 < X ≤ 10
- 0 < X ≤ 5
- X = 0
Bragg Scatter – September 2014

US Nexrad Map Number of Events (Bragg Method) - September 2014

- Alaska, AK
- Hawaii, HI
- Puerto Rico, PR

Legend:
- Pink: $X > 10$
- Orange: $5 < X \leq 10$
- Light Blue: $0 < X \leq 5$
- Gray: $X = 0$