Seeded and Natural Orographic Wintertime clouds—the Idaho Experiment (SNOWIE)

National Center for Atmospheric Research and Idaho Power Company SNOWIE Precipitation

Gauges

1. Dataset Title

Hydrology/Land Based: Precipitation – Idaho Power Company and NCAR SNOWIE Precipitation Gauges

2. Dataset Author(s)

Kyoko Ikeda National Center for Atmospheric Research Research Applications Laboratory P.O. Box 3000 Boulder, CO 80307-3000 kyoko@ucar.edu, 303-497-2842

also may contact Sarah Tessendorf (saraht@ucar.edu)

3. Time of Interest

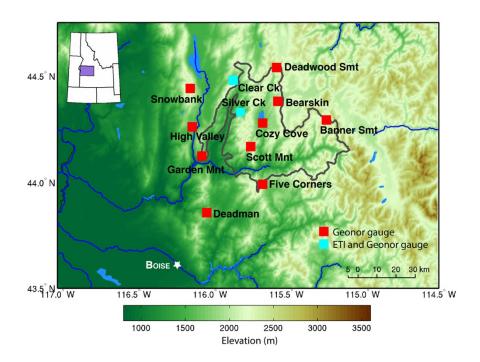
When gauge data are available, precipitation time series for the following dates are provided for each gauge site. All IOP time periods are included.

2017/01/07 00:00 2017/01/07 23:59 2017/01/08 00:00 2017/01/08 23:59 2017/01/09 00:00 2017/01/09 23:59 2017/01/10 00:00 2017/01/10 23:59 2017/01/11 00:00 2017/01/11 23:59 2017/01/18 00:00 2017/01/18 23:59 2017/01/19 00:00 2017/01/19 23:59 2017/01/20 00:00 2017/01/20 23:59 2017/01/21 00:00 2017/01/21 23:59 2017/01/22 00:00 2017/01/22 23:59 2017/01/23 00:00 2017/01/23 23:59 2017/01/31 00:00 2017/01/31 23:59 2017/02/03 00:00 2017/02/03 23:59 2017/02/04 00:00 2017/02/04 23:59 2017/02/05 00:00 2017/02/05 23:59 2017/02/07 00:00 2017/02/07 23:59 2017/02/16 00:00 2017/02/16 23:59 2017/02/17 00:00 2017/02/17 23:59 2017/02/18 00:00 2017/02/18 23:59 2017/02/19 00:00 2017/02/19 23:59 2017/02/20 00:00 2017/02/20 23:59 2017/02/21 00:00 2017/02/21 23:59 2017/02/22 00:00 2017/02/22 23:59 2017/03/04 00:00 2017/03/04 23:59 2017/03/05 00:00 2017/03/05 23:59 2017/03/07 00:00 2017/03/07 23:59 2017/03/09 00:00 2017/03/09 23:59

4. Area of Interest

- Approximately, 43.5 44.75 deg N. and 117.0 114.5 deg W.
- Ten sites in the SNOWIE domain were installed by IPC and equipped with Geonor gauges and two sites installed by NCAR had both ETI and Geonor gauges (total of 12 gauge sites in the SNOWIE domain).
- Site photos are available upon request.

Site Name ID	Location	Equipment	Latitude (deg)	Longitude (deg)	Elevation
Bearskin	Bearskin Creek	IPC Geonor	44.3851	-115.5512	-9999
BannerSmt	Banner Summit	IPC Geonor	44.3038	-115.2342	-9999
CozyCove	Cozy Cove	IPC Geonor	44.2878	-115.6553	-9999
Deadman	Deadman	IPC Geonor	43.8657	-116.0240	-9999
DeadwoodSmt	Deadwood Summit	IPC Geonor	44.5450	-115.5630	-9999
GardenMtn	Garden Mountain	IPC Geonor	44.1344	-116.0559	-9999
HighValley	High Valley	IPC Geonor	44.2662	-116.1168	-9999
ScottMtn	Scott Mountain	IPC Geonor	44.1758	-115.7267	-9999
SnowbankMountain	Snowbank Mtn Site A	IPC Geonor	44.4402	-116.1261	-9999
5Corners	Five Corners	IPC Geonor	43.9960	-115.6582	-9999
ClearCreek	Clear Creek	NCAR ETI-Geonor	44.4832	-115.8483	-9999
SilverCreek	Silver Creek Plunge	NCAR ETI-Geonor	44.3358	-115.7988	-9999



5. Data Frequency

- Frequency of data collection was continuous during IOPs.
- The data frequency of IPC Geonor gauges is ~1/15 min.
- NCAR gauges at Clear Creek and Silver Creek (ETI and GEONOR) are 1-min data.

6. Data Spatial Type

Readable ASCII text.

```
Project : SNOWIE 2017
 NCAR, RAL 14-Sep-2017
# Gauge Type : GEONOR 
# Gauge Site Name : Clear Creek
 Site Latitude (deg): 44.48324
# Site Longitude (deg): -115.84829
 Site Elevation (m) :
yyyymmdd HHMMSS avg accumulation
            UTC
20170203 235900
                        0.00
                       0.01
20170204 000000
20170204 000100
                       0.02
20170204 000200
                        0.02
                        0.03
20170204 000300
                        0.03
20170204 000400
20170204 000500
                        0.04
20170204
          000600
                        0.03
20170204
          000700
                        0.03
20170204
          000800
                        0.04
20170204 000900
                        0.04
20170204 001000
                        0.04
20170204 001100
                        0.04
20170204 001200
                        0.04
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7. General Dataset Description

Data files include general site information followed by three columns indicating date and time (in UTC) and precipitation accumulation in mm (see the above image).

Data provided are level 1 data.

a) All Geonor vibrating wires (some had three and some others had four vibrating wires) were visually inspected, and the measurements from bad vibrating wires were eliminated. The precipitation accumulation in the data files (third column) are the average precipitation accumulation (in mm) from good vibrating wires. If data from the previous day is available, the last data record from the previous day is the initial time of accumulation: otherwise, the accumulation starts from the first record of the

- day. If all vibrating wires misbehaved at a site, -999 was assigned to indicate bad values.
- b) Diurnal temperature variations affect the ETI measurement. Thus, temperature-based corrections have been performed to the raw data. This involves applying a correction factor (which varies with time and is not the same for all gauges), which is determined from the air temperature and depth indicator on clear days, to each day of interest. More detailed description of this technique is available upon request. No data smoothing has been performed for level 1 data.
- Each ETI data file also starts from the last record from the previous day if available; otherwise, the accumulation starts from the first record of the day. -999 indicates unusable data.
- d) For level 1 data, the time series contain all available data. However, there are signs of *capping* (when snow adheres/accumulates around the gauge orifice excessively and causes an under-accumulation until a sudden precipitation increase when the adhered snow falls into the gauge) and *dumping* (when the capped snow dumps into the gauge, often occurs due to warming in the morning) noted during the visual inspection. Users of the data should carefully inspect the data for these features when using the data initially.
- e) Large negative data were identified as bad data as best possible. However, small oscillations from vibrating wires can produce small negative accumulation. These negative accumulations are left in the data.
- f) If the gauge was not working during the entire day, then the data file was not generated.
- g) Level 2 data (will be released at a later time) will filter capping and dumping.

Raw precipitation data that includes measurements from all vibrating wires are available upon request.

File Names

General format: PG_Geonor_SITENAME_YYYYMMDD_lv1.txt where Geonor is ETI for ETI data, YYYYMMDD indicates date, and lv1 is the level of quality control performed (see data description of lv1 data).

IPC Geonor gauges:

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PG_Geonor_5Corners_20170107_lv1.txt
PG_Geonor_5Corners_20170108_lv1.txt
PG_Geonor_5Corners_20170109_lv1.txt
PG_Geonor_5Corners_20170110_lv1.txt
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PG Geonor HighValley 20170123 lv1.txt
PG Geonor HighValley 20170123 lv1.txt
PG Geonor HighValley 20170203 lv1.txt
PG Geonor HighValley 20170203 lv1.txt
PG Geonor HighValley 20170205 lv1.txt
PG Geonor HighValley 20170205 lv1.txt
PG Geonor HighValley 20170207 lv1.txt
PG Geonor HighValley 20170216 lv1.txt
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PG Geonor HighValley 20170303 lv1.txt
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PG Geonor ScottMan 20170108 lv1.txt
PG Geonor ScottMan 20170109 lv1.txt
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PG Geonor_Deadman_20170216_lv1.txt
PG Geonor_Deadman_20170216_lv1.txt
PG Geonor_Deadman_20170218_lv1.txt
PG Geonor_Deadman_20170218_lv1.txt
PG Geonor_Deadman_20170210_lv1.txt
PG Geonor_Deadman_20170220_lv1.txt
PG Geonor_Deadman_20170220_lv1.txt
PG Geonor_Deadman_20170220_lv1.txt
PG Geonor_Deadman_20170220_lv1.txt
PG Geonor_Deadman_20170305_lv1.txt
PG Geonor_Deadman_20170305_lv1.txt
PG Geonor_Deadman_20170305_lv1.txt
PG Geonor_Deadman_20170305_lv1.txt
PG Geonor_Deadman_20170306_lv1.txt
PG Geonor_Deadman_20170306_lv1.txt
PG Geonor_Deadman_20170316_lv1.txt
PG Geonor_DeadwoodSmm_20170110_lv1.txt
PG Geonor_DeadwoodSmm_20170112_lv1.txt
PG Geonor_DeadwoodSmm_20
Fig. Geonor | Scorners | 20170111 | IVI.txt | Fig. Geonor | Scorners | 20170118 | IVI.txt | Fig. Geonor | Scorners | 20170119 | IVI.txt | Fig. Geonor | Scorners | 20170112 | IVI.txt | Fig. Geonor | Scorners | 20170112 | IVI.txt | Fig. Geonor | Scorners | 20170112 | IVI.txt | Fig. Geonor | Scorners | 20170112 | IVI.txt | Fig. Geonor | Scorners | 20170112 | IVI.txt | Fig. Geonor | Scorners | 20170123 | IVI.txt | Fig. Geonor | Scorners | 20170123 | IVI.txt | Fig. Geonor | Scorners | 20170203 | IVI.txt | Fig. Geonor | Scorners | 20170205 | IVI.txt | Fig. Geonor | Scorners | 20170205 | IVI.txt | Fig. Geonor | Scorners | 20170205 | IVI.txt | Fig. Geonor | Scorners | 20170205 | IVI.txt | Fig. Geonor | Scorners | 20170215 | IVI.txt | Fig. Geonor | Scorners | 20170215 | IVI.txt | Fig. Geonor | Scorners | 20170217 | IVI.txt | Fig. Geonor | Scorners | 20170219 | IVI.txt | Fig. Geonor | Scorners | 20170219 | IVI.txt | Fig. Geonor | Scorners | 20170221 | IVI.txt | Fig. Geonor | Scorners | 20170221 | IVI.txt | Fig. Geonor | Scorners | 20170221 | IVI.txt | Fig. Geonor | Scorners | 20170221 | IVI.txt | Fig. Geonor | Scorners | 20170221 | IVI.txt | Fig. Geonor | Scorners | 20170221 | IVI.txt | Fig. Geonor | Scorners | 20170305 | IVI.txt | Fig. Geonor | Scorners | 20170307 | IVI.txt | Fig. Geonor | Scorners | 20170307 | IVI.txt | Fig. Geonor | Scorners | 20170307 | IVI.txt | Fig. Geonor | SannerSmt | 2017010 | IVI.txt | Fig. Geonor | BannerSmt | 2017010 | IVI.txt | Fig. Geonor | BannerSmt | 2017010 | IVI.txt | Fig. Geonor | BannerSmt | 20170110 | IVI.txt | Fig. Geonor | BannerSmt | 20170110 | IVI.txt | Fig. Geonor | BannerSmt | 20170111 | IVI.txt | Fig. Geonor | BannerSmt | 20170112 | IVI.txt | Fig. Geonor | BannerSmt | 20170112 | IVI.txt | Fig. Geonor | CozyCove | 20170113 | IVI.txt | Fig. Geonor | CozyCove | 20170119 | IVI.txt | Fig. Geonor | CozyCove | 20170119 | IVI.txt | Fig. Geonor | CozyCove | 20170119 | IVI.txt | Fig. Geonor | CozyCove | 20170119 | IVI.txt | Fig. Geonor | CozyCove | 20170120 | IVI.txt | Fig. Geonor | Coz
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PG Geonor GardenMtn 20170107 lv1.txt
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PG Geonor SnowbankMountain 20170119 lv1.txt
PG Geonor SnowbankMountain 20170112 lv1.txt
PG Geonor SnowbankMountain 20170121 lv1.txt
PG Geonor SnowbankMountain 20170122 lv1.txt
PG Geonor SnowbankMountain 20170122 lv1.txt
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PG_Geonor_SnowbankMountain_20170307_lv1.txt
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PG_Geonor_SnowbankMountain_20170316_lv1.txt
              PG Geonor Deadman 20170121 lv1.txt
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NCAR ETI-Geonor gauges at Clear Creek and Silver Creek sites: ETI and Geonor data are stored separately.

```
PG ETI ClearCreek 20170107 lv1.txt
                                          PG Geonor ClearCreek 20170107 lv1.txt
                                          PG_Geonor_ClearCreek_20170108_lv1.txt
PG_ETI_ClearCreek_20170108_lv1.txt
PG ETI ClearCreek 20170109 lv1.txt
                                          PG Geonor ClearCreek 20170109 lv1.txt
PG ETI ClearCreek 20170110 lv1.txt
                                          PG Geonor ClearCreek 20170110 lv1.txt
PG ETI ClearCreek 20170111 lv1.txt
                                          PG Geonor ClearCreek 20170111 lv1.txt
PG ETI ClearCreek 20170118 lv1.txt
                                          PG Geonor ClearCreek 20170118 lv1.txt
PG_ETI_ClearCreek_20170120_lv1.txt
                                          PG_Geonor_ClearCreek_20170120_lv1.txt
PG ETI ClearCreek 20170121 lv1.txt
                                          PG Geonor ClearCreek 20170121 lv1.txt
PG ETI ClearCreek 20170122 lv1.txt
                                          PG Geonor ClearCreek 20170122 lv1.txt
PG ETI ClearCreek 20170123 lv1.txt
                                          PG Geonor ClearCreek 20170123 lv1.txt
PG ETI ClearCreek 20170131 lv1.txt
                                          PG Geonor ClearCreek 20170131 lv1.txt
PG_ETI_ClearCreek_20170203_lv1.txt
PG_ETI_ClearCreek_20170204_lv1.txt
                                          PG_Geonor_ClearCreek_20170203_lv1.txt
                                          PG Geonor ClearCreek 20170204 lv1.txt
PG_ETI_ClearCreek_20170205_lv1.txt
                                          PG Geonor ClearCreek 20170205 lv1.txt
PG ETI ClearCreek 20170207 lv1.txt
                                          PG Geonor ClearCreek 20170207 lv1.txt
PG_ETI_ClearCreek_20170216_lv1.txt
                                          PG Geonor ClearCreek 20170216 lv1.txt
PG_ETI_ClearCreek_20170217 lv1.txt
                                          PG Geonor ClearCreek 20170217 lv1.txt
PG_ETI_ClearCreek_20170218_lv1.txt
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PG_ETI_ClearCreek_20170219_lv1.txt
                                          PG Geonor ClearCreek 20170219 lv1.txt
PG_ETI_ClearCreek_20170220_lv1.txt
                                          PG_Geonor_ClearCreek_20170220_lv1.txt
PG ETI ClearCreek 20170221 lv1.txt
                                          PG Geonor ClearCreek 20170221 lv1.txt
PG_ETI_ClearCreek_20170222_lv1.txt
PG_ETI_ClearCreek_20170304_lv1.txt
                                          PG Geonor ClearCreek 20170222 lv1.txt
PG Geonor ClearCreek 20170304 lv1.txt
PG_ETI_ClearCreek_20170305_lv1.txt
PG_ETI_ClearCreek_20170307_lv1.txt
                                          PG_Geonor_ClearCreek_20170305_lv1.txt
                                          PG Geonor ClearCreek 20170307 lv1.txt
PG_ETI_SilverCreek_20170107_lv1.txt
                                          PG_Geonor_SilverCreek_20170107_lv1.txt
                                          PG_Geonor_SilverCreek_20170108_lv1.txt
PG_ETI_SilverCreek_20170108_lv1.txt
PG_ETI_SilverCreek_20170109_lv1.txt
                                          PG_Geonor_SilverCreek_20170109_lv1.txt
PG_ETI_SilverCreek_20170110_lv1.txt
                                          PG_Geonor_SilverCreek_20170110_lv1.txt
PG_ETI_SilverCreek_20170111_lv1.txt
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PG_ETI_SilverCreek_20170118 lv1.txt
                                          PG_Geonor_SilverCreek_20170118_lv1.txt
PG_ETI_SilverCreek_20170119_lv1.txt
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PG_ETI_SilverCreek_20170120_lv1.txt
                                          PG_Geonor_SilverCreek_20170120_lv1.txt
PG_ETI_SilverCreek_20170121_lv1.txt
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PG_ETI_SilverCreek_20170122_lv1.txt
                                          PG_Geonor_SilverCreek_20170122_lv1.txt
PG_ETI_SilverCreek_20170123_lv1.txt
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PG_ETI_SilverCreek_20170131_lv1.txt
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PG_ETI_SilverCreek_20170203_lv1.txt
                                          PG_Geonor_SilverCreek_20170203_lv1.txt
PG_ETI_SilverCreek_20170204_lv1.txt
                                          PG_Geonor_SilverCreek_20170204_lv1.txt
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PG_ETI_SilverCreek_20170205_lv1.txt
PG_ETI_SilverCreek_20170207_lv1.txt
                                          PG_Geonor_SilverCreek_20170207_lv1.txt
PG_ETI_SilverCreek_20170216_lv1.txt
                                          PG_Geonor_SilverCreek_20170216_lv1.txt
PG_ETI_SilverCreek_20170217_lv1.txt
                                          PG_Geonor_SilverCreek_20170217_lv1.txt
PG_ETI_SilverCreek_20170218_lv1.txt
                                          PG_Geonor_SilverCreek_20170218_lv1.txt
PG_ETI_SilverCreek_20170219_lv1.txt
                                          PG_Geonor_SilverCreek_20170219_lv1.txt
PG_ETI_SilverCreek_20170220_lv1.txt
                                          PG_Geonor_SilverCreek_20170220_lv1.txt
PG_ETI_SilverCreek_20170221_lv1.txt
                                          PG_Geonor_SilverCreek_20170221_lv1.txt
PG_ETI_SilverCreek_20170222_lv1.txt
                                          PG_Geonor_SilverCreek_20170222_lv1.txt
PG_ETI_SilverCreek_20170304_lv1.txt
                                          PG_Geonor_SilverCreek_20170304_lv1.txt
PG_ETI_SilverCreek_20170305_lv1.txt
                                          PG_Geonor_SilverCreek_20170305_lv1.txt
PG_ETI_SilverCreek_20170307_lv1.txt
                                          PG_Geonor_SilverCreek_20170307_lv1.txt
PG_ETI_SilverCreek_20170309_lv1.txt
                                          PG_Geonor_SilverCreek_20170309_lv1.txt
PG_ETI_SilverCreek_20170316_lv1.txt
                                          PG_Geonor_SilverCreek_20170316_lv1.txt
```

9. Data restrictions

No data restriction