

CIIC/CEOP REFERENCE SITE METADATA FOR CRYOSPHERE RESEARCH

*PREMISE – Gauge measurements of Frozen Precipitation are subject to both Random and Systematic errors.....
(e.g. undermeasurement due to wind and melting)*



Courtesy of U. S. Weather Bureau.

MEASURING THE BLIZZARD'S HAZE.
Shielded snow gauge in the Northwest to register the amount of snow-fall.

CLiC/CEOP REFERENCE SITE METADATA FOR CRYOSPHERE RESEARCH

- Current metadata is inadequate to access measurements of snow and frozen precipitation (i.e. need complete site and instrument description)
- The need for basic information for use in validation and analysis of cold region observations, processes, and modelling
- Need more information on data processing algorithms
- More observations exist than currently in the 30-min Reference Site data archive (e.g. snow course or manual weekly/bi-weekly measurements)
- Identify the sites that could be used for joint CLiC/CEOP collaboration (climatically diverse site distributions)



CEOP Frozen Precipitation Questionnaire



Which CEOP Continental Scale Experiment (CSE) and Reference Site are these responses related to?:	BALTEX Cabauw <input type="button" value="v"/>
Which Station at the Reference Site are these responses related to?:	
Does snowfall (frozen precipitation) occur at this site? (Yes/No)	Yes <input type="button" value="^"/> No <input type="button" value="v"/>
Is total precipitation (rain and frozen) measured at this station? (Yes/No)	Yes <input type="button" value="^"/> No <input type="button" value="v"/>
<p>If you answered yes to the previous question:</p> <ul style="list-style-type: none"> • How is it measured (include instrument type, manufacturer, model, gauge orifice size, and shielding information)? • At what interval is it measured? • Do you separate rain and snow totals? • Any additional important siting information? 	
Is wind speed measured at the gauge location? (Yes/No)	Yes <input type="button" value="^"/> No <input type="button" value="v"/>
<p>If you answered no to the previous question:</p> <ul style="list-style-type: none"> • At what height and location is it measured? • Can it be reduced to the height of the gauge? 	

<p>Is snowfall (depth of freshly fallen snow in cm) measured or determined? (Yes/No)</p>	<p>Yes <input type="button" value="▲"/> No <input type="button" value="▼"/></p>
<p>If you answered yes to the previous question:</p> <ul style="list-style-type: none"> ◆ How is it measured or determined (if applicable include instrument type, manufacturer, model, gauge orifice size, and shielding information), ◆ At what time interval? ◆ Any additional important siting information? 	
<p>Is snow depth (snow on the ground) measured? (Yes/No)</p>	<p>Yes <input type="button" value="▲"/> No <input type="button" value="▼"/></p>
<p>If you answered yes to the previous question:</p> <ul style="list-style-type: none"> ◆ How is it measured? ◆ At what interval is it measured? ◆ Any additional important siting information? 	
<p>Are snow courses operated to measure snow depth and snow water equivalent? (Yes/No):</p>	<p>Yes <input type="button" value="▲"/> No <input type="button" value="▼"/></p>
<p>If you answered yes to the previous question:</p> <ul style="list-style-type: none"> ◆ How often are they conducted? ◆ What equipment is used? 	
<p>Is precipitation type (e.g. snow, graupel, ice pellets, etc) recorded? (Yes/No):</p>	<p>Yes <input type="button" value="▲"/> No <input type="button" value="▼"/></p>
<p>What other snow properties are measured (e.g. snow temperature, snow surface temperature, snow wetness)?:</p>	

Preview Response

Clear Form