Analysis of performance of GUAN stations and candidate stations

based on monthly reports from Antonio Garcia-Mendez, ECMWF over the period June 2001 through February 2002 Harald Daan, De Bilt, March 2002

Examined was the performance of 150 GUAN stations and 18 candidate stations

The stations have been grouped after performance

The performance relates to:

Note:

- Availability of data
 Number of accents
- Number of ascents per day at 00 and/or 12 UTC
- * Height reached by sondes
- Parameters
- Gross errors

Figures for average quality of data were not included. (Refer to semi-annual reports of ECMWF) Ascents at non-standard hours, including 06 and 18 UTC have not been included.

Group 1: Stations operating satisfactorily in general

GUAN				Candidates
72 station				8 stations
. = 0.0				
02836	47971	70398	89611	24959
03005	47991	71082	91285	25913
03808	48698	71816	91334	29572
08495	50527	71836	91376	41112
10739	51709	71934	91408	61291
16245	52681	72201	91592	71081
22550	53068	72261	91765	83208
23472	55299	72293	91938	85586
24266	56778	72403	94120	
28698	57461	72597	94203	
30230	60020	72764	94302	
32540	60680	78526	94510	
33345	61052	81405	94610	
41217	61641	82193	94659	
45004	63985	82332	94975	
47646	68906	88889	94995	
47827	70026	89564	94998	
47936	70308	89571	96996	

Group 2: Stations operating satisfactorily, with only one ascent per day 4 stations 35121 94461

94294 94996

Group 3: Stations operating satisfactorily with low or none availability of humidity data 9 stations

01001	no humidity data
03953	
04018	no humidity data
04270	no humidity data
17130	
47412	
89532	no humidity data
93417	
93844	no humidity data

Group 4: Stations operating satisfactorily with some particular insufficiencies 2 stations 08508 low availability of wind data 68994 some large errors in wind data

Group 5:	Stations operating at an acceptable level, but improvement is welcome.								
	14 stations		00000	04050	1 station				
	62414 63741	76654 78016	89009 89512	91958 96315	91948				
	64910	78397	89664	50515					
	68816	78954	91925						
Group 6:	Stations operating at an acceptable level with only one ascent per day								
	11 stations 61901	s 85442	85934	91643	3 stations 83650				
	61976	85469	87155	93997	87576				
	82397	85799	89022		91680				
Group 7:	Stations operating at an accortable lovel with low availability of humidity data								
Group 7.	Stations operating at an acceptable level with low availability of humidity data 4 stations 1 station								
	61996				40754				
	89002								
	89642	no humidit	ty data						
	93986								
Group 8:	Stations or	perating at a	an acceptal	ble level, ho	owever with s	some large temperature errors			
	2 stations	J J J J		,	1 station				
	48455	1 ascent f	or temp		42182	also low humidity data			
	89592								
Group 9:	Stations or	perating at a	an acceptal	ble level wit	h low availat	pility of wind data			
	2 stations								
	68588								
	83378								
Group 10.	Stations or	perating ma	rainally in a	neneral					
	5 stations	porating ma		gonora	1 station				
	67197				41923	low availability of wind data			
	78583								
	80222	1 ascent							
	91610 98223	1 ascent 1 ascent							
	30223	1 ascent							
Group 11:		Stations operating marginally with low availability of humidity data							
	4 stations				1 station				
	20674 34731		no hum dat	a e large tem	43150	below 100 Hpa			
	61998	1 ascent,							
	87860	,	no hum dat						
_									
Group 12:	roup 12: Stations with very low availability of data in general								
	5 stations 61902	89055							
	65578	96935							
	84628								
a 40	o:		,						
Group 13:	4 stations w	ith various i	major insur	liciencies	1 station				
	61995								
	67774 data very sparse, large temperature error, below 100 Hpa								
	78762		-	mperature e	error				
	91801	no temp d	ata		64650	no wind data			
Group 14:	Silent stations								
	12 stations				1 station				
	21982	68110	91217		64201				
	38880	83780	91517						
	41114	84008	91557						
	63450	85543	92035						
	The silence of 68110 (Windboek, Namibia) and 83870 (Sao Paulo, Brazil) is a new featu								

The silence of 68110 (Windhoek, Namibia) and 83870 (Sao Paulo, Brazil) is a new feature. Restauration of in particular Windhoek is urgent.