



## Africa Centre Demographic Information System (ACDIS)

### Dataset Documentation

# Bounded Structure States

#### Change History

##### Who

Colin Newell  
Colin Newell  
Colin Newell  
Colin Newell

##### When

25 May 2006  
4 July 2006  
2 August 2007  
29 August 2008

##### What

Original  
Remove now-obsolete Validity/VNotes columns  
Added to description; also several new variables  
Removed two VP Date variables

Postal: PO Box 198, Mtubatuba 3935, South Africa  
Physical: Africa Centre, R618 en route to Hlabisa, Somkhele  
Tel.: +27 (0)35 550 7500  
Fax: +27 (0)35 550 7565  
Email: [info@afriacentre.ac.za](mailto:info@afriacentre.ac.za)  
Web: [www.afriacentre.com](http://www.afriacentre.com)

**welcome**trust

<b>Dataset name</b>	BSSStates
<b>Description</b>	<p>Describes physical states of Bounded Structures and their changes over time. i.e. whether usable, under construction or broken down. Most BS will only have one such episode because their State has never changed since DS Start, but a few will have two or more.</p> <p>In principle the first <i>BSSStartDate</i> will be identical to the Start date of the parent Bounded Structure. Equally the last <i>BSSEndDate</i> should always be identical to the End date of the Bounded Structure. If a BS has two or more BS States, then the episodes should not overlap in time, nor should there be any gaps. Any deviations from these principles represent dirty data.</p>
<b>Rows/Units of analysis</b>	One row per BS State Episode.
<b>Unique identifier(s)</b>	BSSId
<b>Approx. number of rows</b>	Approx 19,100 as at Jun2011

The information for this dataset is collected on forms “BSR” (Bounded Structure Registration) and “BSU” (Bounded Structure Update). Images of these forms are included in the *BoundedStructures* dataset documentation.

### BSStates Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
BSSId	Unique Id of BS State episode	<i>BSStateEpisodes.IntId</i>	Integer 1 – 21,500+	Meaningless unique key.
BSIntId	Id of Bounded Structure	<i>BSStateEpisodes.BoundedStructure</i>	Integer 1 – 17,100+ No blanks or missings	Can be used to link to BoundedStructures dataset
BSSState	State of BS	<i>BSStateEpisodes.State</i>	Three-letter code. Mainly USB Usable BKD Broken Down UCN Under construction No blanks/missings	Approx. 86% Usable, 11% Broken Down
BSSStateName	Name of BS State i.e. label associated with code in previous variable	BSStates.Name associated with <i>BSStateEpisodes.State</i>	Text string	
BSSStartDate	Start date of episode	The Date of the Event (i.e. <i>Events.AssignedDate</i> ) linked to the to <i>BSStateEpisodes.StartEvent</i>	General date Range is 1998 to present, plus a few missing values as 1 Jan 1798 (Don't Know) 1 Jan 1799 (Missing) No blanks	94% have 2000-01-01 i.e. DSS start

## BSSStates Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
BSSStartType	Type of Start Event	The Type of the Event (i.e. <i>Events.Type</i> ) linked to the to <i>BSSStateEpisodes.StartEvent</i>	Three-letter code.For labels see next variable in dataset. One of  DSS DS Start BSC BS State change CON Construction DFT _Default  No blanks	92% DS start
BSSStartTypeName	Name of BSS Start Type i.e. label associated with code in previous variable	<i>EventTypes.Name</i> associated with <i>BSSStateEpisodes.StartEvent</i>	Text string	
BSSEndDate	End date of the episode	The Date of the Event (i.e. <i>Events.AssignedDate</i> ) linked to the to <i>BSSStateEpisodes.EndEvent</i>	General date. Range is 1997 to present, plus a few missing values as 1 Jan 1795 (Default) 1 Jan 1797 (Not Applic.) 1 Jan 1798 (Don't Know) 1 Jan 1799 (Missing)	
BSSEndType	Type of End Event	The Type of the Event (i.e. <i>Events.Type</i> ) linked to the to <i>BSSStateEpisodes.EndEvent</i>	Three-letter code. See next variable for labels. Mainly  BSC BS State change CON Construction VIS Visit	93% VISit
BSSEndTypeName	Name of BSS End Type i.e. label associated with code in previous variable	<i>EventTypes.Name</i> associated with <i>BSSStateEpisodes.EndEvent</i>	Text string	

## SQL

```
/*
<Author>Colin Newell</Author>
<Date>25 May 2006</Date>
<Category>Dataset</Category>
<Notes>
Requested by: Core dataset

Request: To produce a _BSStates analytical dataset
        The dataset should contain one record for each Bounded Structure State
</Notes>
<ChangeHistory>
C Newell  25 May  2006  Original coding

C Newell   4 July  2006  Removed now-obsolete columns Validity and VNotes

C Newell  31 Oct  2006  Turned dates from Text to date (ie. no conversion)

C Newell   2 Aug  2007  Added several label variables e.g. BSStateName

C Newell  29 Aug  2008  Removed the VP precision dates.

</ChangeHistory>
*/
ALTER VIEW _BSStates
AS
SELECT
    bsse.IntId AS BSSId,
    bsse.BoundedStructure AS BSIntId,
    bsse.State AS BSState,
    bss.Name as BSStateName,
    se.AssignedDate AS BSSStartDate,
    se.Type AS BSSStartType,
    setp.[Name] AS BSSStartTypeName,          -- added 2aug07
    ee.AssignedDate AS BSEndDate,
    ee.Type AS BSEndType,
    eetp.[Name] AS BSEndTypeName            -- added 2aug07
FROM BSStateEpisodes bsse
LEFT JOIN Events se ON se.IntId = bsse.StartEvent
```

```
LEFT JOIN Events ee ON ee.IntId = bsse.EndEvent
LEFT JOIN BSStates bss ON bsse.State = bss.Code
LEFT JOIN EventTypes setp ON se.Type = setp.Code
LEFT JOIN EventTypes eetp ON ee.Type = eetp.Code
```