Dune mobility state	PA _{GCM} value	Description	Calibration examples, southern dunefield
	> 700	 Dynamic dune landscape: Bare sharp crests Bare rippled dune flanks Sparsely vegetated interdunes with potential for sand transport 	a) 1982-83 dry ENSO event reduced veg. cover (ref 29): monthly PA_{GCM} values range 730 (May 82) - 14155 (Jan 82). Sand transport inc. sparsely veg. interdunes recorded in field, activity status for year calibrates with fully active status for 1982 in ref 16. b) Sept 1986 PA_{GCM} = 4452: 69% area <35% veg. cover, 16% area <14% cover, inc. interdunes (ref 6); fully active dune status in annual index value (ref 16).
	160 - 700	 Significant dune activity: Active crests Limited flank vegetation with evidence of sand transport Moderate interdune vegetation 	a) Sept 1986 PA_{GCM} = 562: crest and flank activity recorded in field. b) Aug 1992 PA_{GCM} = 668: sand transport recorded on crests and flanks, interdunes veg. and inactive (ref 7). c) Sept 1999 PA_{GCM} = 160: 17-20% veg. cover on crest and flanks where activity and rippling recorded in field.
	70 - 160	 Restricted dune activity: Limited activity, restricted to crests Flanks largely vegetated Interdunes well vegetated 	a) Aug-Oct 1986 PA_{GCM} = 123-127. 1986: 50% dunes <20% veg. cover (ref 28). 20% cover = crest activity in ref 6 (<i>M</i> index) 1986 crest activity in annual <i>PA</i> value (Ref 16). b) Aug-Sept 1995 PA_{GCM} = 71 and 118. Crest only transport on dune crests. c) Sept 1999 PA_{GCM} = 159, crest movement only monitored in field, flanks vegetated. d) Lowest monthly PA_{GCM} value 1996 - 2000 when crest movement monitored = 76.
	0 - 70	 Inactive dunes: Comprehensive vegetation cover on all surfaces Subdued dune forms 	a) July 1993 PA_{GCM} = <1.95% of dune field >14% vegetation cover (ref 9). b) All 1993 and 1994 monthly PA_{GCM} <23; transport absent at monitored sites. c) 2000 Aug-Nov values <15, crests well vegetated, no transport monitored or observed in field.

This figure illustrates the classification of PA_{GCM} into four classes, and exemplifies the data sources used to achieve this calibration of the index. Calibration utilised PA_{GCM} values calculated for specific times when field data of actual dune mobility state were available within the period from 1982 to 2000.