

# The Aerosol Limb Imager: Acousto-Optic 2D Measurements of Limb Scattered Sunlight for Stratospheric Aerosol Profiling

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## Abstract

## 1 Introduction

Kiehl1993 (*Kiehl and Briegleb*, 1993)  
Stocker2013 (*Stocker et al.*, 2013)  
Solomon2011 (*Solomon et al.*, 2011)  
Haywood2014 (*Haywood et al.*, 2014)  
Fyfe2013 (*Fyfe et al.*, 2013)  
Rieger2015 (*Rieger et al.*, 2015)  
Ridley2014 (*Ridley et al.*, 2014)  
Junge1961 (*Junge et al.*, 1961)  
Deshler2003 (*Deshler et al.*, 2003)  
Deshler2006 (*Deshler et al.*, 2006)  
Kovilakam2015 (*Kovilakam and Deshler*, 2015)  
Beuttell1949 (*Beuttell and Brewer*, 1949)  
Charlson1969 (*Charlson et al.*, 1969)  
Murphy2014 (*Murphy et al.*, 2014)  
Chazette1995 (*Chazette et al.*, 1995)  
Sawamura2012 (*Sawamura et al.*, 2012)  
Hofmann2009 (*Hofmann et al.*, 2009)  
Vernier2011b (*Vernier et al.*, 2011b)  
Hofmann2009 (*Hofmann et al.*, 2009)  
Russell1989 (*Russell and McCormick*, 1989)  
Thomason2003 (*Thomason and Taha*, 2003)  
Russell1989 (*Russell and McCormick*, 1989)  
Kovilakam2015 (*Kovilakam and Deshler*, 2015)

Damadeo2013 (*Damadeo et al.*, 2013)  
 McElroy2007 (*McElroy et al.*, 2007)  
 Gilbert2007 (*Gilbert et al.*, 2007)  
 Vanhellemont2008 (*Vanhellemont et al.*, 2008)  
 Sioris2010 (*Sioris et al.*, 2010)  
 Cisewski2014 (*Cisewski et al.*, 2014)  
 Llewellyn2004 (*Llewellyn et al.*, 2004)  
 Bourassa2007 (*Bourassa et al.*, 2007)  
 Bourassa2012a (*Bourassa et al.*, 2012b)  
 Rieger2015 (*Rieger et al.*, 2015)  
 Bovensmann1999 (*Bovensmann et al.*, 1999)  
 Ernst2012 (*Ernst et al.*, 2012)  
 VonSavigny2015 (*von Savigny et al.*, 2015)  
 Rault2013 (*Rault and Loughman*, 2013)  
 Ridley2014 (*Ridley et al.*, 2014)  
 Andersson2015 (*Andersson et al.*, 2015)  
 Bourassa2012c (*Bourassa et al.*, 2012)  
 Bourassa2013 (*Bourassa et al.*, 2013)  
 Vernier2013 (*Vernier et al.*, 2013)  
 Fromm2013 (*Fromm et al.*, 2013)  
 Fairlie2014 (*Fairlie et al.*, 2014)  
 Clarisse2014 (*Clarisse et al.*, 2014)  
 Fromm2014 (*Fromm et al.*, 2014)  
 Vernier2011a (*Vernier et al.*, 2011a)  
 Neely2014 (*Neely et al.*, 2014)  
 Thomason2013 (*Thomason and Vernier*, 2013)  
 Winker2007 (*Winker et al.*, 2007)  
 Vernier2011b (*Vernier et al.*, 2011b)  
 Rogers2011 (*Rogers et al.*, 2011)  
 Rieger2014 (*Rieger et al.*, 2014)  
 Dekemper2012 (*Dekemper et al.*, 2012)

## 2 ALI Instrument

Georgiev2002 (*Georgiev et al.*, 2002)  
 Voloshinov2007 (*Voloshinov et al.*, 2007)  
 Voloshinov2006 (*Voloshinov and Mosquera*, 2006)  
 Voloshinov1996 (*Voloshinov*, 1996)  
 Uchida1971 (*Uchida*, 1971)  
 Suhre2004 (*Suhre et al.*, 2004)

Smith2000 (*Smith*, 2000)  
 Fischer2008B (*Fischer et al.*, 2008)  
 Dekemper2012 (*Dekemper et al.*, 2012)  
 Dekemper2012 (*Dekemper et al.*, 2012)

### 3 Calibration

Xu1992 (*Xu and Stroud*, 1992)  
 Xu1992 (*Xu and Stroud*, 1992)  
 Kosch2003 (*Kosch et al.*, 2003)

### 4 Balloon Flight

Dee2011 *Dee et al.* (2011)  
 Bourassa2012a(*Bourassa et al.*, 2012b)  
 Wiscombe1980 (*Wiscombe*, 1980)  
 Bourassa2008a (*Bourassa et al.*, 2008)  
 Zawada2015 (*Zawada et al.*, 2015)  
 Dueck2015 (*Dueck S. and Degenstein*)  
 Bourassa2012a(*Bourassa et al.*, 2012b)  
 Bourassa2007(*Bourassa et al.*, 2007)  
 Rodgers2000 (*Rodgers*, 2000)  
 Bourassa2012b (*Bourassa et al.*, 2012a)  
 Rodgers2000 (*Rodgers*, 2000)  
 Rault2013 (*Rault and Loughman*, 2013)  
 Berthet2002 (*Berthet et al.*, 2002)  
 Bourassa2012a (*Bourassa et al.*, 2012b)  
 Rieger2015 (*Rieger et al.*, 2015)  
 Deshler2003 (*Deshler et al.*, 2003)  
 Rieger2014 (*Rieger et al.*, 2014)

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