



Black Carbon Campaign 2016

USACH PS UCH UNAB PUC UMAG IVIC



Acknowledgements

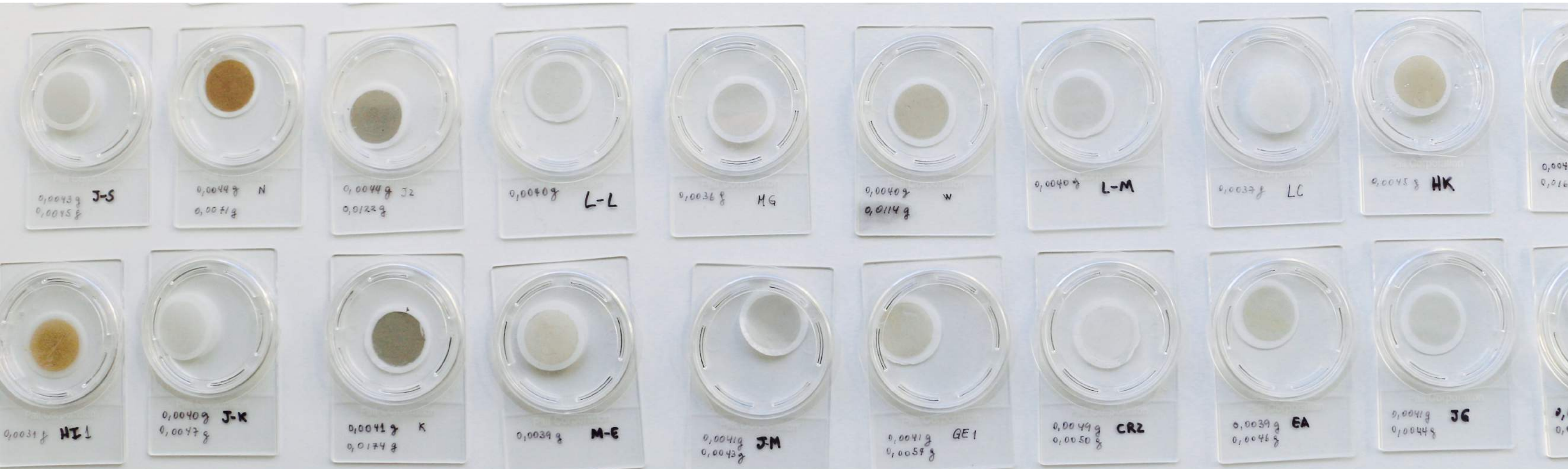
The support of CONICYT (ANILLO Preis ACT1410) and the Universidad de Santiago (USACH, Preis 041331CC_DAS), is gratefully acknowledged.

Black Carbon Campaign (August-September, 2016)

Led by Raul R. Cordero (Universidad de Santiago), Jaime Pizarro (Universidad de Santiago, USACH), Francisco Fernandoy (Universidad Nacional Andres Bello, UNAB), Fabrice Lambert (Universidad Catolica, PUC), and Gino Casassa (Universidad de Magallanes, UMAG), an interdisciplinary team conducted in August-September 2016 a campaign aimed at sampling Black Carbon (BC) and other light-absorbing impurities in the snow across a north-south transect of the Chilean Andes (from Valle Nevado 33° S, to Volcan Osorno 41° S).

This campaign was conducted in the frame of a CONICYT-funded “Team Research Project” (Anillo) Preis ACT-1410, which aims to deliver a map of the BC content in the Andean cryosphere, highlighting impacted zones (useful for further studies on the effects of BC on glacier melting). Led by Steven Neshyba (University of Puget Sound, PS) and funded by the National Science Foundation (NSF) and the Universidad de Santiago (Preis 041331CC_DAS), a similar campaign was conducted in July 2015 from Putre 18° S to Cajon del Maipo 33° S.

For further details, please visit www.antarctica.cl.



Back in Santiago, the snow samples were melted and filtered. The filters carry information on the light-absorbing impurities (including black carbon, BC) in the snow.

Subsequent spectrophotometric analysis allows assessing the BC concentration and estimating the associated albedo reduction.





The Andes

Land of Giants







Climbing The Andes

Let's sample the Andean snow













Taking Samples

Clean and cool mission





The Team

Fitted with a cool mind











Our Team

Juan Manuel Carrera
José Jorquera
Edgardo Sepúlveda
Francisca Quiroz
Juan Rayas
Camilo Guzman
Christian Brahm
Catalina Pino
Pedro Marconi
Fabrice Lambert
Francisco Fernandoy
Steven Neshyba
Penny Rowe
Gino Casassa
Jaime Pizarro
Raúl R. Cordero



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