



## CBEE2011 Itinerary – as of April 24, 2011

### General Outline of the Expedition

#### Week One+ – (June 28, 2011 to July 7, 2011)

The first week is dedicated to the expedition participants meeting in Lima on the 28<sup>th</sup> and meeting Peruvian Government Officials on June 29<sup>th</sup> then traveling on to Huaraz. Once in Huaraz the expedition participants will work on acclimatization, training and creating the Team make up. Consideration for current climbing conditions on the mountains this season will require changes as needed. All participants will join in training exercises by traveling to the Pastoruri glacier because of it's accessibility by road. The Pastoruri Glacier is on the southern end of the Cordillera Blanca Range. Soil, snow and ice sampling will be performed as a group allowing for the training as well as collecting important data for the environmental assessment at this important location. Further training, as well as acclimatization will then take place at the special and significant ancient archeological area called Hatun Machay.

#### Week Two - (July 8, 2011 to July 14, 2011)

The second week will continue the acclimatization plus begin the job of placement of scientific equipment in the field for sampling. The nine teams will be divided into two main groups, A and B. Group A will consist of the Climbing Teams 1, 2, 4, 6 and 9, whereas Group B will be Teams 3, 5, 7 and 8. With the exception of Team 1, all the Group A and B teams will be paired together to install the PPMs at the base camps for the climbs listed in Table 1 or 2. All together there will be 5 mountains climbed. Since this is an acclimatization climb weaker teams will be able to climb the alternative climb listed in Table 2 which for the most part is easier climbing than those listed in Table 1. These climbs will also be good reconnaissance climbs for some of the more technical climbs to be attempted for sampling during week three. Important environmental activities that will occur during this period will be the placement of portable air sampling equipment (portable particulate monitors or PPMs), meteorological stations and preliminary (abbreviated) sample gathering (soil, snow and ice) during the acclimatization climb.

#### Week Three+ - (July 15, 2011 to July 23, 2011)

This is the important week in which each of the nine teams will now embark on their scientific mission to sample the designated mountain, or the alternative if the designated mountain is out of shape for safe climbing. Soil, snow, ice and meteorological data will be gathers from each of these peaks

Table 1 Team Pairings and Field Directors Mountains for research listed North to South						Week 2 Pairings		Week 3
						Group A	Group B	Week 3
*Num.	TEAM Field Director	Mountain	Elev. (meters)	Massif	PPM?	*Team #	*Team #	*Team #
1	Alex Stella**	Quitaraju	6034	Santa Cruz	Yes	4	3	1
2	John All	Artesonraju	6025	Huandoy	No			2
3	Trevor Alcott	Yanapaqcha	5460	Huandoy	Yes	6	5	3
4	Frank A. Nederhand	Chopicallqui	6354	Huascaran	No			4
5	Carolyn Stwertka	Contraheirbas	6036	Contraheirbas	No			5
6	Carl Schmitt	Copa	6188	Copa	Maybe	1		6
7	Mark Milner	Tocllaraju	6034	Chinchey	Yes	2	8	7
8	Jim Lucke	Vallunaraju	5686	Chinchey	Yes	9	7	8
9	Bill Straka II	San Juan	5843	Huantsan	No			9

\*Numbers match the Team numbers and the mountains identified on the Map on Page 6  
 \*\*Team physician

Table 1 a Team Participants			
Team	Name	Environmental Science Background (yes or no)	Climbing Experience B-beginner, M-moderate, A-advanced, E-expert
1	Chad Hagan	No	A-
2	David Truncellito	No	E
3	John (Pat) Gioanini	No	A
4	Brett Overcash	No	B
5	Toto Gronlund	No	E
6	Rebecca Cole	Yes	M
7	(Open)		
8	Raul Gavilan	Yes	A
9	Kevin Grove	Yes	E

## CBEE2011 Itinerary – as of April 24, 2011

<b>Table 2</b> <b>Alternate mountains</b> Team Pairings and Mountains for research listed North to South					Week 2 Pairings		Week 3
					Team A	Team B	Week 3
*Number	Mountain	Elevation	Massif	PPM?	*Team #	*Team #	*Team #
1a	Alpamayo	5947	Santa Cruz	Yes	4	3	1
2a	Paria (Millishraju)	5600	Huandoy	No			2
3a	Pisco Este	5752	Huandoy	Yes	6	5	3
4a	Chopicallqui North Ridge	5100	Huascaran	No			4
5a	Uta (Punta Olympica)	5875	Copa	No			5
6a	Vicos	5315	Copa	Maybe	1		6
7a	Urus Este	5420	Chinchey	Yes	2	8	7
8a	Rima Rima (Vallunaraju)	5246 (5686)	Chinchey	Yes	9	7	8
9a	Maparaju	5326	Chinchey	No			9

\*Numbers match the Team numbers and the mountains identified on the Map located on Page 6.



## CBEE2011 Itinerary – as of April 24, 2011

**Table 3**

Sample of a Detailed Team Itinerary  
Team- 4 - Group A

Day #	Date	DOW	Destination	Elevation		Description
				Meters	Feet	
1	6/28/2011	Tuesday	Lima	0		Fly arrive 11:40PM 28th in Lima from Atlanta or arrive via bus from Huaraz.
2	6/29/2011	Wednesday	Lima	0	0	Expedition Team Members meet Vice Minister. Then Bus to Huaraz
3	6/30/2011	Thursday	Huaraz	3050	10,006	Bus to Huaraz (overnight) arrive in early am on the 30th, Rest in AM. Expedition Management Team meet with Park Service officials in PM
4	7/1/2011	Friday	Marcara-Huaraz	2800	9,186	Rest AM Group work meeting for lunch then PM Rock Climb near Marcara (Chancos or similar)
5	7/2/2011	Saturday	Pastoruri	5030	16,502	Travel early to Pastoruri for training session and sampling then to Hatun Machay Refugio
6	7/3/2011	Sunday	Hatun Machay	4300	14,107	Climb at Hatun Machay, more training, visit archeological site.
7	7/4/2011	Monday	Hatun Machay	4300	14,107	Climb at Hatun Machay return to Huaraz in PM
8	7/5/2011	Tuesday	Huaraz	3050	10,006	Rest Day prepare PPMs
9	7/6/2011	Wednesday	Quitaraju	4000	13,123	Groups Travel to designated PPM locations, install PPMs and then do Acclimatization Climbs (Frank and Brett do Quitaraju via Santa Cruz)
10	7/7/2011	Thursday	Quitaraju	4300	14,107	Travel to Alpamayo / Quitaraju base camp near Lag. Arhueycocha ( <b>install PPM-Coordinated Start PPM Day</b> )
						Travel to High Base Camp for Alpamayo / Quitaraju (Col Camp) (This itinerary is for Group A the Chopicalqui Sample Team (Team No. 4) that will install PPM at Refugio near Alpamayo and at High Camp as part of acclimatization)
11	7/8/2011	Friday	Quitaraju	5550	18,208	
12	7/9/2011	Saturday	Quitaraju	5550	18,208	Rest Day
13	7/10/2011	Sunday	Quitaraju	6036	19,803	Climb Quitaraju West Ridge 6036m Rated: AD
14	7/11/2011	Monday	Quitaraju	6036	19,803	Weather Day #1
15	7/12/2011	Tuesday	Quitaraju or Alpamayo	6036	19,803	Weather Day #2 for Quitaraju or an attempt on Alpamayo if available and safe
16	7/13/2011	Wednesday	Chopicalqui	4300	14,107	Start Return via Santa Cruz to do Chopicalqui (check PPM)
17	7/14/2011	Thursday	Chopicalqui	4300	14,107	Travel to Llanganuco via Yanguy to Base Camp of Chopicalqui
18	7/15/2011	Friday	Chopicalqui	5000	16,404	Travel to Camp 1 of Chopicalqui (Moraine Camp)
19	7/16/2011	Saturday	Chopicalqui	5600	18,372	Travel to Camp 2 of Chopicalqui (Chopi-Huascarán Col Camp)



## CBEE2011 Itinerary – as of April 24, 2011

**Table 3**

Sample of a Detailed Team Itinerary  
Team- 4 - Group A

Day #	Date	DOW	Destination	Elevation		Description
				Meters	Feet	
20	7/17/2011	Sunday	Chopicalqui	5600	18,372	Rest Day
21	7/18/2011	Monday	Chopicalqui	6354	20,846	Climb Chopicalqui south ridge, 6354m Rated: AD
22	7/19/2011	Tuesday	Chopicalqui	6354	20,846	Weather Day #1 (samples at 5500m or 6000m?) Return to Llanganuco Base camp to retrieve PPM from Pisco Base camp (process Samples) this step is not needed if a team is on Pisco. <b>Coordinated Stop PPM</b>
23	7/20/2011	Wednesday	Pisco	4600	15,092	<b>DAY</b>
24	7/21/2011	Thursday	Huaraz	3050	10,006	Return to Huaraz - Process Samples, weigh filters?
25	7/22/2011	Friday	Lima	0	0	Travel to Lima Leave for Lima, Peru in PM. Flight to Atlanta departs 1:20am 7-27-2011 arrives at
26	7/23/2011	Saturday	Atlanta*	320	1,050	9:00am in Atlanta Sunday 7-27-2011.
27	7/24/2011	Sunday	Atlanta	320	1,050	Arrive in Atlanta, GA USA

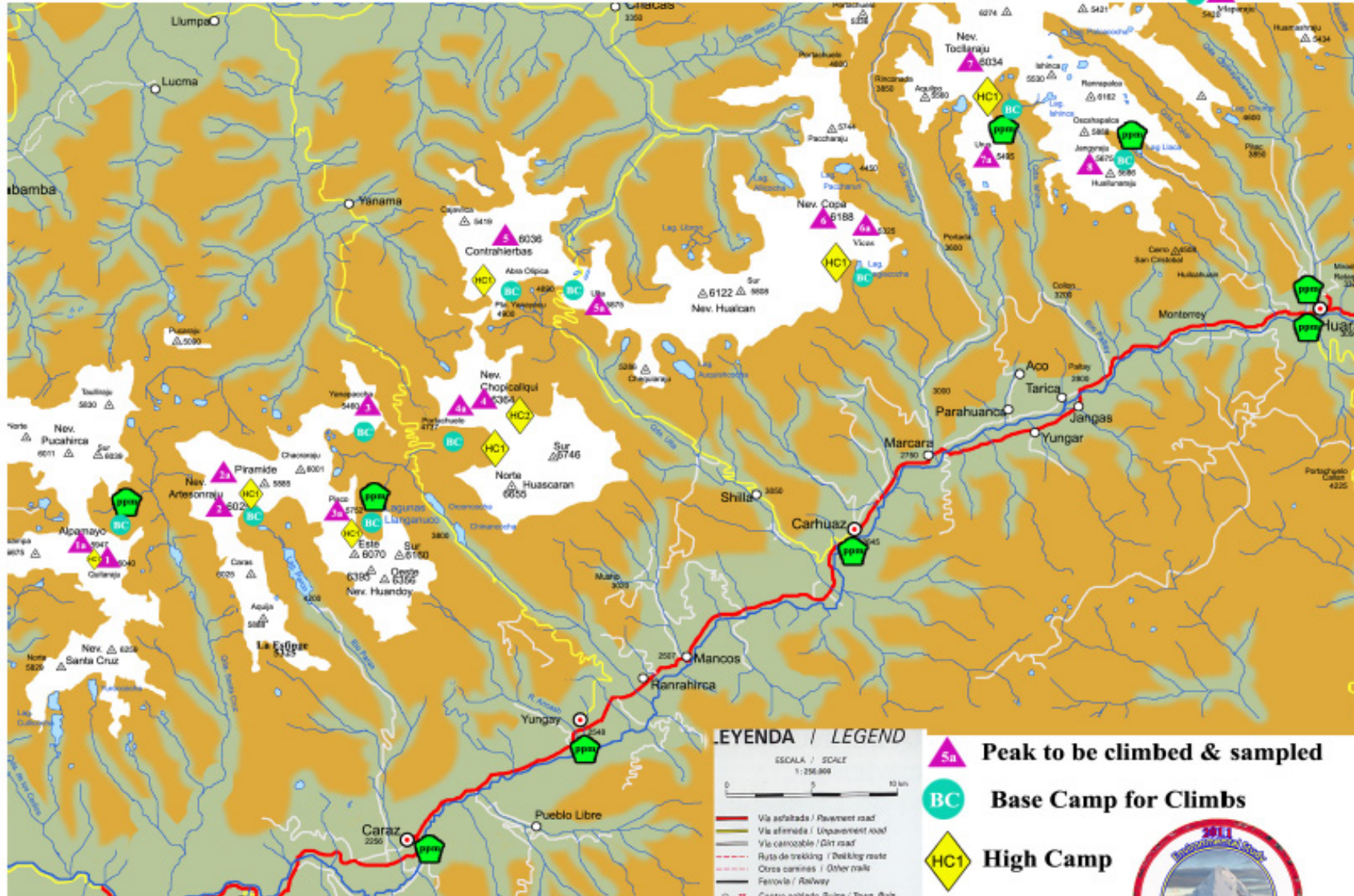
CBEE2011 Itinerary – as of April 24, 2011

<b>Table 4</b>				
Northern Cordillera Blanca, Candidate Mountains for environmental sampling expedition				
Access Valley (Massif)	Primary Choice*	Candidate Mountains	Elevation (meters)	Climb Difficulty
Santa Cruz (Santa Cruz)	<b>1</b>	<b>Quitaraaju</b>	6036	AD-
	1a	Alpamayo	5947	D
	1b	Rinrijirca	5810	AD+
Paron or Santa Cruz (Huandoy)	<b>2</b>	<b>Artesonraju</b>	6025	D
		Caraz Oeste	6025	AD-
		Piramide	5885	TD+
	2a	Paria (Millishraju)	5600	F - PD+
Llanganuco North (Huandoy)	<b>3</b>	<b>Yanapaqcha</b>	5460	PD+
	3b	Huandoy Oeste	6356	AD-
	3a	Pisco	5752	PD
		Chacaraju Oeste	6112	ED1
Llanganuco South (Huascarán)	<b>4</b>	<b>Chopicalqui</b>	6354	AD-
	4a	Chopicalqui North Ridge	5100	PD-
		Huascarán Sur	6768	AD-
Ulta (Contrahierbas or Copa)	<b>5</b>	<b>Contrahierbas</b>	6036	AD
	5a	Ulta or Punta Olympica	5875	F to TD?
Honda (Copa)	<b>6</b>	<b>Copa</b>	6188	AD-
	6a	Vicos	5315	PD-
		Paccharaju	5751	F - PD
Ishinca (Chinchey)	<b>7</b>	<b>Toellaraju</b>	6034	AD
		Ishinca	5530	PD
	7a	Urus Este	5420	PD-
		Ranrapalca	6162	D
Llaca (Chinchey)	<b>8</b>	<b>Vallunaraju</b>	5686	AD-
		Oshapalca	5881	ED
Quilqayhuanca (Chinchey or San Juan)	9a	Maparaju	5326	PD-
		Chinchey	6222	AD
	<b>9</b>	<b>San Juan</b>	5843	AD+
		Andavite	5518	PD

\*The numbers correspond to the numbers on the Map on page 6. The “a, b, etc.” suffix are the alternative peaks if the primary peak is not available for climbing.



# CBEE2011 Itinerary – as of April 24, 2011



**LEYENDA / LEGEND**

ESCALA / SCALE  
1:250,000

0 10 km

- Via asfaltada / Paved road
- Via afirmada / Unpaved road
- Via carrozable / Dirt road
- Ruta de trekking / Trekking route
- Otros caminos / Other trails
- Ferrovía / Railway
- Caserío solitario, Ruina / Town, Ruin

- Peak to be climbed & sampled**
- Base Camp for Climbs**
- High Camp**
- Portable PM Monitor**

