



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
Office of Oceanic and Atmospheric Research  
Earth System Research Laboratory  
325 Broadway – David Skaggs Research Center  
Boulder, Colorado 80305-3337

В содержание данной книги входит:

- Список инструментов, которые были отправлены из Боулдера, Колорадо в Якутск, Российской Федерации в августе 2009 года для установки в Тикси, Российской Федерации. В списке указаны:
  - номер упаковки,
  - номер инструмента,
  - название инструмента (по-английски и по-русски),
  - вес каждого инструмента.
- Фотографии каждого предмета в упаковке.

Данные инструменты предназначены для следующих проектов:

- Базовая сеть радиационных наблюдений (BSRN)
- Базовая сеть климатических наблюдений (CRN)
- Измерение энергетического обмена (потоков) (FLUX)
- Измерение озона (озонметр)
- Некоторые инструменты для будущей программы измерения аэрозолей.

Также включены инструменты для установки приборов и их обслуживания.

Все вопросы, касающиеся инструментов, направляйте, пожалуйста, на русском или английском языках по адресу:  
Taneil.Uttal@noaa.gov

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The Content of this notebook is:

- Complete inventory list of instruments that were sent from Boulder Colorado to Yakutsk Russia in August of 2009 for installation in Tiksi, Russia. This includes box number, item number, item name (in English and Russian) and weight of each unpacked item.
- Photographic record of each item in shipment

The instruments support the following projects:

- Baseline Surface Radiation Network
- Climate Reference Network
- Meteorological Flux Tower
- Ozonemeter
- Parts for a future aerosol sampler

Also included are tools for installation and maintenance

Any questions regarding these instruments can be directed in Russian or English to:  
Taneil.Uttal@noaa.gov



<b>N</b> <b>коробк</b> <b>и</b>	<b>N предмета</b>	<b>Название предмета</b>	<b>Название предмета</b>	<b>Индивидуальные характеристики</b>	<b>Вес</b>
		<b>CIMEL Sun Photometer</b>			
BSRN1	BSRN1-1	Robotic Arm	Прибор наведения на солнце с черным кабелем Cimel CE318M	SN:0812555	6.35
	BSRN1-2	Control Box	Пульт управления CIMEL	030793/UA3064 (3015836)	8.39
	BSRN1-3	White data cord	Интерфейсный кабель белый	N/A	0.06
	BSRN1-4	White PVC section	Уголок трубы пластиковый	N/A	0.12
	BSRN1-5	Gray data cord with serial port	Интерфейсный кабель с серийным портом, серый	N/A	0.36
	BSRN1-6	Large black serial port cord	Интерфейсный кабель с разъемом	N/A	1.00
	BSRN1-7	Gray Nicoll clasp	Кольцо обжимное Nicoll, серое	N/A	0.03
	BSRN1-8	Black power cables	Силовые кабели, черные	N/A	0.18
	BSRN1-9	Sensor Head P1	Головка датчика P1 для системы наведения на солнце CIMEL	0307002(T425N)	0.84
	BSRN1-10	Sensor Head P2	Головка датчика P2 для системы наведения на солнце CIMEL	CL211-0450-0247	0.27
		TOTAL	ВСЕГО	48.26x48.26x48.26cm (19x19x19in)	20.41
		<b>Dell Computer</b>	<b>Компьютер Dell</b>		
BSRN2	BSRN2-1	Dell monitor	Монитор Dell	CN-OC1827-74445-94G-568S, OC182J	6.12
	BSRN2-2	Dell L100 Keyboard	Клавиатура Dell L100	U011, CN-ORH659-73571-94B-OBL5	0.60
	BSRN2-3	Dell Mouse	Компьютерная мышь Dell	N/A	0.10
	BSRN2-4	Warranty booklet	Гарантийная книжка	N/A	0.02
	BSRN2-5	Black powercord	Электрокабель, черный	N/A	0.14
	BSRN2-6	Dell computer	Компьютер Dell	CD0001611802, 6SKB5J1	8.16
	BSRN2-7	Blue data cord	Интерфейсный кабель, синий.	N/A	0.15
	BSRN2-8	Mybook 1TB Hard drive	Жесткий диск Mybook 1TB	WCAU49299276	1.49
	BSRN2-9	Garmin GPS	Garmin GPS (навигатор)	IBN004785	1.21
		TOTAL	ВСЕГО	50.8x50.8x50.8cm (20x20x20in)	21.32
BSRN3	BSRN3-1	Sun tracker	Прибор наведения на солнце	CD0001074536, SN030264	30.39
	BSRN3-2	Kipp and Zonene sun sensor	Датчик системы наведения на солнце Kipp & Zonen	30129	0.26
	BSRN3-3	4mm Allen wrench	Гаечный ключ, ALLEN 4 мм	N/A	0.06
	BSRN3-4	Kipp and Zonen suntracker Thermal blanket	Тепловая защита для системы наведения на солнце Kipp&Zonen	N/A	0.47
		TOTAL	ВСЕГО	60.96x63.5x71.12cm (24x25x28in)	60.78
BSRN4	BSRN4-1	Campell box screws	Шурупы для пульта регистрации данных	N/A	0.04
	BSRN4-2	Round Al plate 6 1/8in holes	Плита круглые с отверстиями 6 1/8 дюймов, алюминиевые	N/A	0.43
	BSRN4-3	Round Al plate 8in with holes	Плита круглые с отверстиями 8 дюймов, алюминиевые	N/A	0.75
	BSRN4-4	Face plate with holes	Лицевые панели с отверстиями	N/A	2.78
	BSRN4-5	Lower flange tripod base (3)	Нижний борт для треугольного основания (3)	N/A	3.01
	BSRN4-6	Tripod hardware - edge brackets	Элементы треугольного основания - краевые скобки	N/A	0.86
	BSRN4-7	Bag of bolts, washers, S hooks	Пакет с болтами, прокладками и крючками.	N/A	0.27
	BSRN4-8	Trapezoidal Mounting Plates (2)	Трапециобразные монтажные пластины (2)	N/A	0.48
	BSRN4-9	Light Source Inc. Mega-coupler (2)	Скоба Light Source Inc. (2)	N/A	1.03
	BSRN4-10	Empire 24in Box Level	Строительный уровень Empire	N/A	0.56
	BSRN4-11	Campell box irregular octagon mounting plate (flux tower) (2)	Монтажные пластины для крепежа прибора регистрации данных на мачте (2)	N/A	3.63
		TOTAL	ВСЕГО	29.21x73.66x26.67cm (11.5x29x10.5in)	24.49

BSRN5	BSRN5-1	Al tube 23" inches tall, 8in diameter	Трубы алюминиевые, 10.442 м 20.32 см	N/A	4.45
	BSRN5-2	Bolts, nuts, and washers bag	Пакет с болтами, прокладками и гайками,	N/A	0.48
		TOTAL	ВСЕГО	43.18x90.17x22.86cm (17x35.5x9in)	12.70
BSRN6	BSRN6-1	Tripod base 3	Основание треноги 3		0.00
	BSRN6-2	Pack 1:	Упаковка 1	N/A	6.58
	BSRN6-2	Shading ball arm (3)	Крепеж шара для затемнения. (3)	N/A	0.00
	BSRN6-2	Shading pivot arm (1)	Поворотный механизм для затемнения. (1)	N/A	0.00
	BSRN6-2	Shading support arm (1)	Механизм для поддержки стержня для затемнения. (1)	N/A	0.00
	BSRN6-2	Washer and screws (9 bags)	Прокладки и шурупы ( 9 упаковок)	N/A	0.00
	BSRN6-2	Shading T-bar (1)	Т стержень для затемнения (1)	N/A	0.00
	BSRN6-2	Shading drive arm (2)	Стержень подвижной для затемнения (2)	N/A	0.00
	BSRN6-3	Pack 2:	Упаковка2:	N/A	4.54
	BSRN6-3	Upright side plate (2)	Боковая верхняя пластина(2)	N/A	0.00
	BSRN6-3	Insulating space bar (2)	Распорка изоляционная (2)	N/A	0.00
	BSRN6-3	Rear mounting plate (1)	Задняя крепежная пластина (1)	N/A	0.00
	BSRN6-3	Large side mounting plates (2)	Большая боковая крепежная пластина (2)	N/A	1.70
		TOTAL	ВСЕГО	38.1x101.6x17.78cm (15x40x7in)	21.77
BSRN7	BSRN7-1	Epply PSP Pyrheliometer	Пиргеометр Epply PSP	35835F3	2.95
	BSRN7-2	Serial port	Серийный порт	N/A	0.01
	BSRN7-3	Eppley NIP Pyroheliometer	Пиргелиометр Eppley NIP	35803(E)6	2.03
	BSRN7-4	Kipp and Zonen CM 22 Pyranometer with cable	Пиранометр с кабелем Kipp and Zonen CM 22	60126	0.90
	BSRN7-5	Kipp and Zonen screws in bag (2)	шурупы в упаковке Kipp and Zonen (2)	N/A	0.02
	BSRN7-6	Screws for solar shields	Шурупы для крепежа защиты от попадания прямых солнечных лу	N/A	0.00
	BSRN7-7	White solar shields (3)	Защита от попадания прямых солнечных лучей, белая (3)	N/A	0.13
	BSRN7-8	Black power cord with yellow plugs (3)	Силовой кабель черный (3)	N/A	1.91
	BSRN7-9	Kipp & Zonen screws in bag (9)	Шурупы в упаковке Kipp & Zonen (9)	N/A	0.02
	BSRN7-10	Yellow power cord	Силовой кабель, желтый	N/A	0.65
	BSRN7-11	50ft blue data cord	Интерфейсный кабель, голубой	N/A	0.77
	BSRN7-12	White serial port with yellow plugs (2)	Серийный порт белый (2)	N/A	0.31
	BSRN7-13	White serial port cords (6)	Интерфейсный кабель (6)	20ft RTD (2), Epply NIP, Eppley PIR, Epply B&W, Epply PSP	0.24
	BSRN7-14	FSP Group Inc. Battery	Батарея питания	H00002018	0.60
	BSRN7-15	Eppley PSP Pyranometer	Пиранометр Eppley PSP	35828F3	2.95
		TOTAL	ВСЕГО	39.37x46.99x48.26cm (15.5x18.5x19in)	21.92
BSRN8	BSRN8-1	Large mountings (2)	Рама для установки приборов (2)	N/A	5.44
	BSRN8-2	Flat mounting plate (1)	Плоское крепежное основание (1)	N/A	1.07
	BSRN8-3	Kipp & Zonene Ventilator	Вентилятор Kipp & Zonene	N/A	2.04
	BSRN8-4	Bag with screws, washers, and 2 plastic spacers	Упаковка с шурупами, прокладками и 2мя пластмассовыми вставками	N/A	0.08
	BSRN8-5	White cable with two ports	Кабель с 2мя портами белый	N/A	0.06
	BSRN8-6	Eppley Ventilators (3)	Вентиляторы Eppley (3)	V6-737, V6-738, V6-739	7.48
	BSRN8-7	Aspirated Housings (2)	Аспириционная будка (2)	4102, 286	4.08
		TOTAL		54.61x60.96x41.91cm (21.5x24x16.5in)	23.13

BSRN9	BSRN9-1	Campbell Data logger	Система регистрации данных Campbell	11629 (wiring panel #), SN: 5893	12.93
	BSRN9-2	Epply 8-48 B&W Radiometer	Радиометр Epply 8-48 B&W	35300	0.91
	BSRN9-3	Black mounting bracket arms	Крепежные стержни-скобы черные	N/A	2.14
	BSRN9-4	Al Mounting stands with pins (2)	Алюминиевые крепежные подставки с болтами (2)	N/A	0.57
		TOTAL	ВСЕГО	50.8x66.04x45.72cm (20x26x18in)	20.41
BSRN4	Ozone1-1	Ozonemeter	Озонометр	CD0001442652, SN0629719160	18.98
	Ozone1-2	Gray Cable	Кабель серый		
BSRN3	Aero1-1	Swagelok Splitter	Разветвитель	N/A	1.93
	Aero1-2	PNF Neuberger pump UN002	Насос UN002 PNF Neuberger	1-634943	4.08
	Aero1-3	Whitley Flow control valve in bag	Вентиль для контроля потоков Whitley	N/A	0.11
	Aero1-4	Hummitter 50Y - Temperature and Humidity sensor	Датчик температуры и влажности Hummitter 50Y	Z2150002	0.03
	Aero1-5	Copper Pot	Медная емкость	N/A	6.35
	Aero1-6	IBM Laptop	Портативный компьютер IBM	CD0001611797; 1871FU1	2.31
	Aero1-7	IBM Laptop power cord	Электрошнур для портативного компьютера IBM	N/A	0.37
	Aero1-8	USB to serial cord	Переходник COM - USB	N/A	0.17
	Aero1-9	PNY 2GB USB drive	Флеш карта USB PNY 2GB	N/A	0.01
		TOTAL	ВСЕГО	45.72x45.72x45.72cm (18x18x18in)	16.78
BSRN1	Tools1-1	Husky handsaw	Пила ручная Husky	N/A	0.54
	Tools1-2	Empire 12" MAGNUM Rafter square	Прямоугольный треугольник	N/A	0.52
	Tools1-3	Hacksaw	Пила	N/A	0.37
	Tools1-4	Husky hammer	Молоток	N/A	0.78
	Tools1-5	Weller Soldering Iron Kit	Паяльник	N/A	0.16
	Tools1-6	Stanley 9" Level	Уровень Stanley	N/A	0.12
	Tools1-7	General Precision screwdriver set	Набор отверток	N/A	0.12
	Tools1-8	Level with 16" ruler	Уровень	N/A	0.37
	Tools1-9	Black & Decker power drill with battery charger in bag	Дрель электрическая с батареей питания Black & Decker	N/A	3.86
	Tools1-10	Silva Precision compass	Компас Silva Precision	N/A	0.05
	Tools1-11	GB Terminal Kit (2)	Набор клемм GB (2)	N/A	0.19
	Tools1-12	GB Electrical Tape	Лента изоляционная GB	N/A	0.11
	Tools1-13	Thin white rope	Веревка тонкая белая	N/A	0.04
	Tools1-14	Husky wrench set	Набор гаечных ключей Husky	N/A	2.10
	Tools1-15	Husky Allen wrenches (2)	Гаечные ключи Husky Allen (2)	N/A	0.69
	Tools1-16	Various wire cutters/strippers, pliers, scissors (11)	Набор плоскогубцев, ножниц (11)	N/A	2.72
	Tools1-17	Leviton splitter (2)	Разветвитель (2)	N/A	0.11
	Tools1-18	Stanley replacement blades	Запасные лезвия Stanley	N/A	0.03
	Tools1-19	Empire 8oz. Steel plumb bob	Отвес вертикальный стальной Empire	N/A	0.25
	Tools1-20	3/8" Shank Sliver & Demming Drill	Дрель Shank Sliver & Demming	N/A	0.18
	Tools1-21	Commercial electric measurer	Вольтметр	N/A	0.03
	Tools1-22	Various screw drivers (14)	Отвертки (14)	N/A	1.44
	Tools1-23	Digital multimeter, wire strippers, wrenches, Knife, sockets	Цифровой мультиметр, гаечные ключи, ножи, разъем	N/A	0.79
	Tools1-24	Commercial electric tool bag	Набор электроинструментов.	N/A	1.07
	Tools1-25	Husky tape measure	Измерительная лента Husky	N/A	0.75
	Tools1-26	Husky black box of Socket wrenches	Набор гаечных ключей	N/A	4.54
		TOTAL	ВСЕГО		32.66

BSRNa2	Tools2-1	Met One Anemometer	Анемометр Met One	D3072	0.28
	Tools2-2	Calibration sheet	Калибровочная диаграмма	N/A	0.00
	Tools2-3	RMB bearings (8), hooks and screws (10)	подшипники RMB (8), крючки, шурупы (10)	N/A	0.05
	Tools2-4	Grey serial port cable	Кабель интерфейсный, серый	N/A	0.13
	Tools2-5	1/2" woven nylon	нейлоновая лента	N/A	0.33
	Tools2-6	Respirator masks (2)	Защитные маски (2)	N/A	0.05
	Tools2-7	24" tie wraps	Пластмассовые стяжки	N/A	0.12
	Tools2-8	Serial ports, splitter, syringes, q-tips bag	Серийные порты, разделители и тп	N/A	0.59
	Tools2-9	Electrical wiring misc bag	Набор электропроводов	N/A	2.36
	Tools2-10	LOCTITE sealant (2)	Клей LOCTITE (2)	N/A	0.22
	Tools2-11	Duct tape (2)	Лента для герметизации (2)	N/A	1.00
	Tools2-12	3/4" Electrical tape	Изоляционная лента	N/A	0.14
	Tools2-13	Milwaukee drill bits	Сверло для дрели Milwaukee	N/A	0.69
	Tools2-14	RYOBI drill bits	Сверло для дрели RYOBI	N/A	1.08
	Tools2-15	2.5" screws (8)	шурупы (2)	N/A	0.07
	Tools2-16	2.5" screw caps (8)	части для шурупов (2)	N/A	0.03
	Tools2-17	Green tool bag	Набор ручных инструментов, зеленый	N/A	0.33
	Tools2-18	Nashua Extreme Weather tape	Лента для герметизации Nashua Extreme Weather	N/A	0.77
	Tools2-19	6x2-1/4" Screws	шурупы	N/A	0.49
	Tools2-20	3-1/2" Galvanized nails	гвозди	N/A	0.49
	Tools2-21	Safety Glasses	очки защитные	N/A	0.05
	Tools2-22	Silicone sealant (2)	клей силиконовый (2)	N/A	0.37
	Tools2-23	Blue wire	кабель синий	N/A	0.35
	Tools2-24	White wire	кабель белый	N/A	0.28
	Tools2-25	NICROSOLAR A59 power switch	электрический выключатель NICROSOLAR A59	N/A	0.03
	Tools2-26	WORKFORCE orange extension cords (2)	удлинители WORKFORCE (2)	N/A	5.44
	Tools2-27	WORKFORCE caulk dispenser	разбрызгиватель WORKFORCE	N/A	0.48
	Tools2-28	Kipp & Zonen instruction manual	книжка с инструкциями Kipp & Zonen	N/A	0.02
		TOTAL	ВСЕГО		18.60

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**BSRN1**

Technical Description: Sun tracking photometer  
Manufacturer: CIMEL ([http://www.cimel.fr/photo/sunph\\_us.htm](http://www.cimel.fr/photo/sunph_us.htm))  
Model: CE 318  
Serial Number: CL211-0450-0247 (sensor head)  
Country of Origin: France

Includes Control box, robotic arm, Sensor head

**БСРН1**

Название: Фотометер наводимый на солнце  
Фирма-производитель: CIMEL ([http://www.cimel.fr/photo/sunph\\_us.htm](http://www.cimel.fr/photo/sunph_us.htm))  
Модель: CE 318  
Серийный номер: CL211-0450-0247 (датчик)  
Страна-производитель: Франция

В прибор входит: пульт управления, рука-робот, датчик.

~~Project~~

ПРОЕКТ - ОПРЕ  
(BSRN)

BSRN Box 1

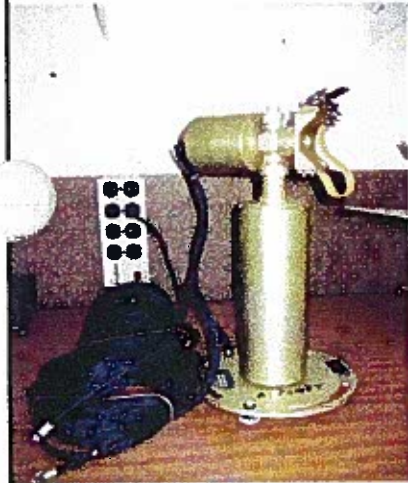
N1 20.41kg (45lb) 48.26x48.26x48.26cm (19x19x19in) Value \$10,000



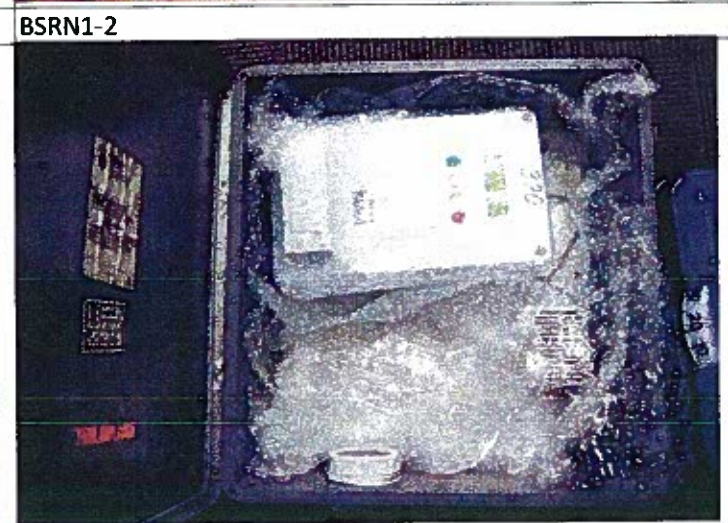
BSRN1-1



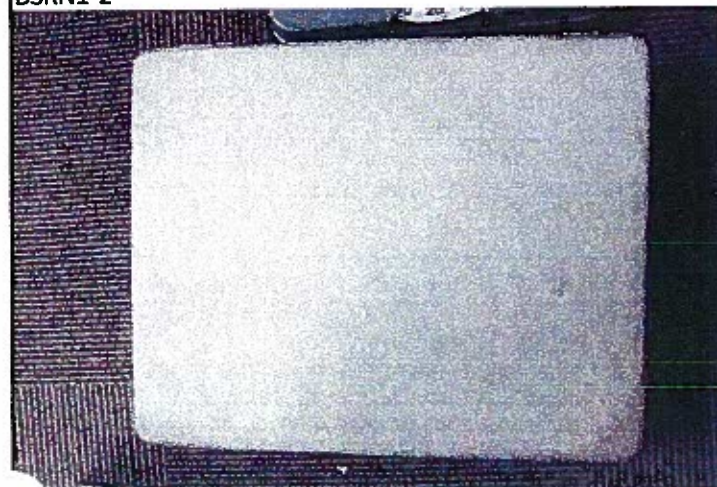
BSRN1-1



BSRN1-2



BSRN1-2



BSRN1-3

BSRN1-4

BSRN1-3



BSRN1-4



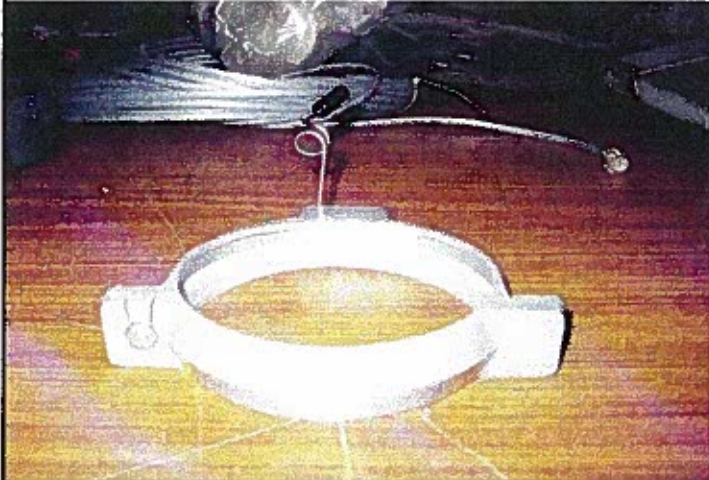
BSRN1-5



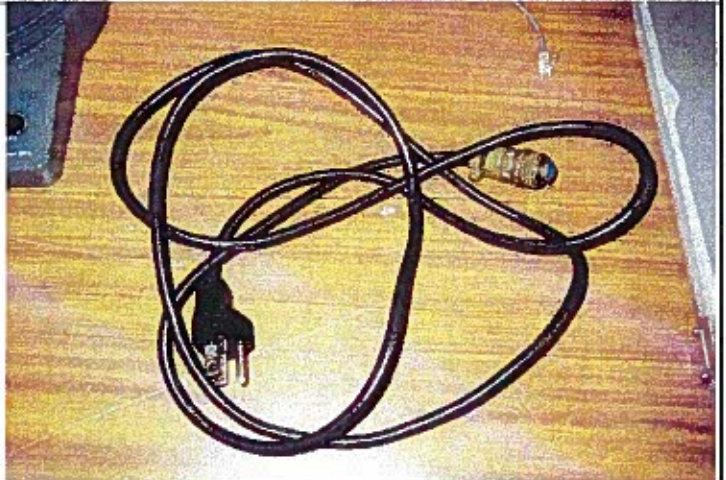
BSRN1-6



BSRN1-7



BSRN1-8



BSRN1-9

BSRN1-9



BSRN1-9



BSRN1-9



BSRN1-10



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**BSRN2**

Technical Description: Desktop PC  
Manufacturer: DELL  
Model: Optiplex 360  
Serial Number: GSKBJ1  
Country of Origin: USA

Technical Description: External Hard drive 1TB  
Manufacturer: Western Digital  
Model: My Book Essential Edition 2.0  
Serial Number: WCAU49299276  
Country of Origin: USA

<http://www.wdc.com/en/products/products.asp?driveid=728>

**BCPH2**

Название: Персональный компьютер  
Фирма-производитель: DELL  
Модель: Optiplex 360  
Серийный номер: GSKBJ1  
Страна-производитель: США

Название: Внешний жесткий диск 1TB  
Фирма-производитель: Western Digital  
Модель: My Book Essential Edition 2.0  
Серийный номер: WCAU49299276  
Страна-производитель: США

BSRN Box 2  
Wt 21.32kg (47lb) 50.8x50.8x50.8cm (20x20x20in)



BSRN2-1



BSRN2-2



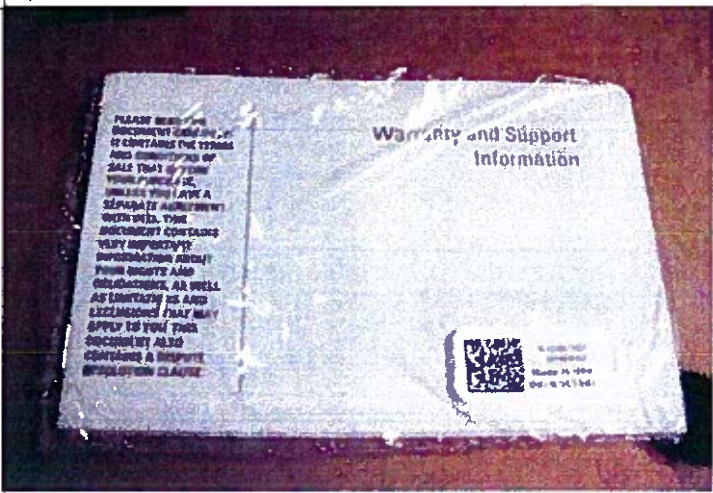
BSRN2-3



BSRN2-4

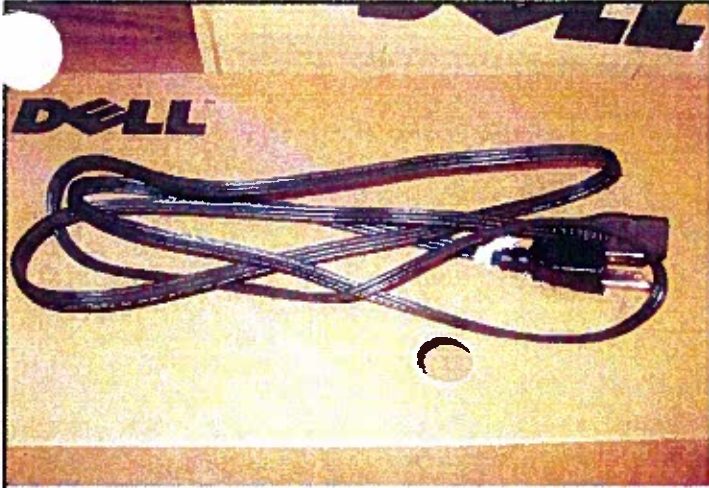


BSRN2-5

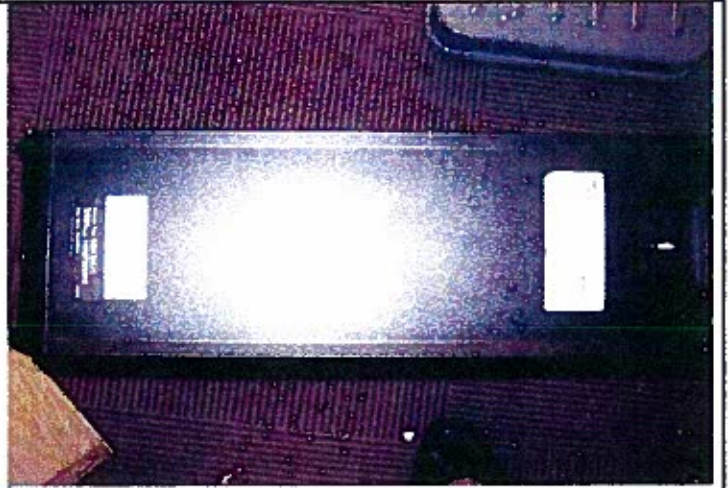


BSRN2-6

BSRN2-5



BSRN2-6



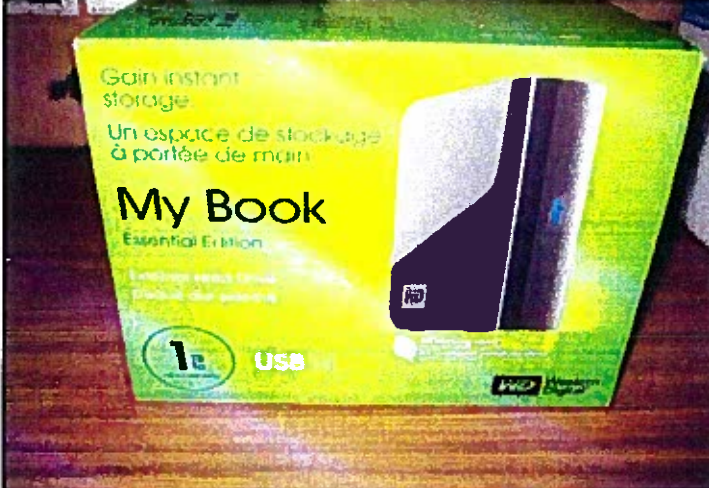
BSRN2-6



BSRN2-7



BSRN2-8



BSRN2-9



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**BSRN3**

Technical Description:	Suntracker
Manufacturer:	Kipp & Zonen
Model:	2AP
Serial Number:	30264
Country of Origin:	Nederlands

<http://www.kippzonen.com/?product/2141/2AP.aspx>

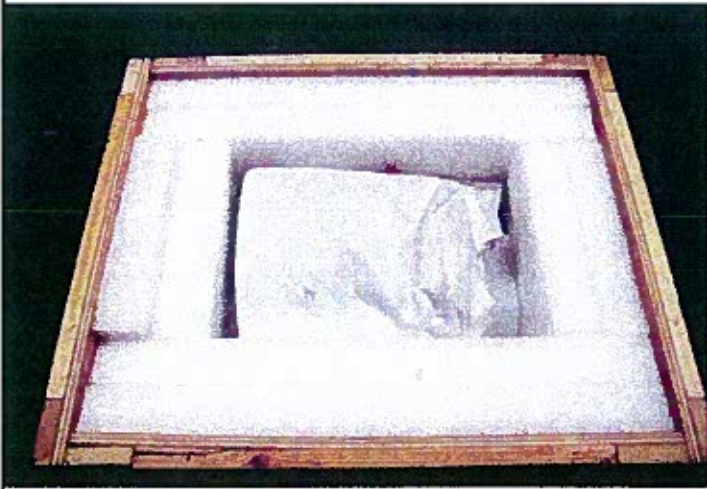
**БСРН3**

Название:	Прибор наведения на солнце
Фирма-производитель:	Kipp & Zonen
Модель:	2AP
Серийный номер:	30264
Страна-производитель:	Нидерланды

<http://www.kippzonen.com/?product/2141/2AP.aspx>

Box 3

W3 60.78kg (134lb) 60.96x63.5x71.12cm (24x25x28in)



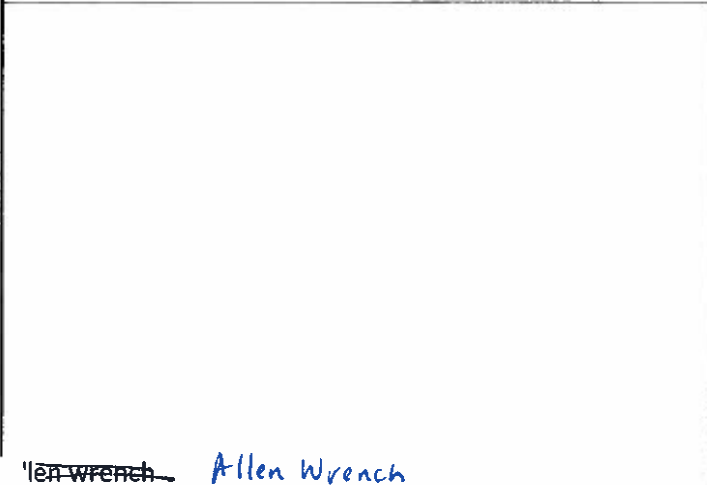
BSRN3-1



BSRN3-2



BSRN3-3



BSRN3-4



~~Allen wrench~~ Allen Wrench

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**BSRN4 BSRN5 BSRN6**

Technical Description:	Suntracker base
Manufacturer:	Kipp & Zonen
Model:	2AP
Serial Number:	30264
Country of Origin:	Netherlands

<http://www.kippzonen.com/?product/2141/2AP.aspx>

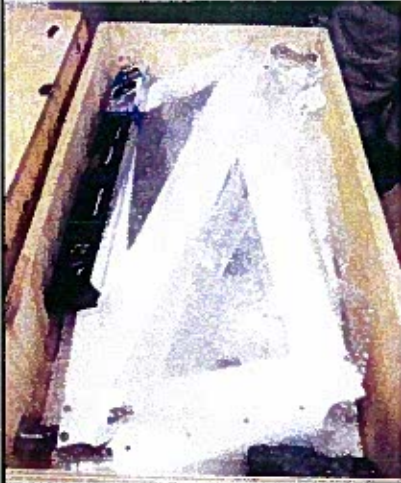
**BCPH4 BCPH5 BCPH6**

Название:	Основание для прибора наведения на солнце
Фирма-производитель:	Kipp & Zonen
Модель:	2AP
Серийный номер:	30264
Страна-производитель:	Нидерланды

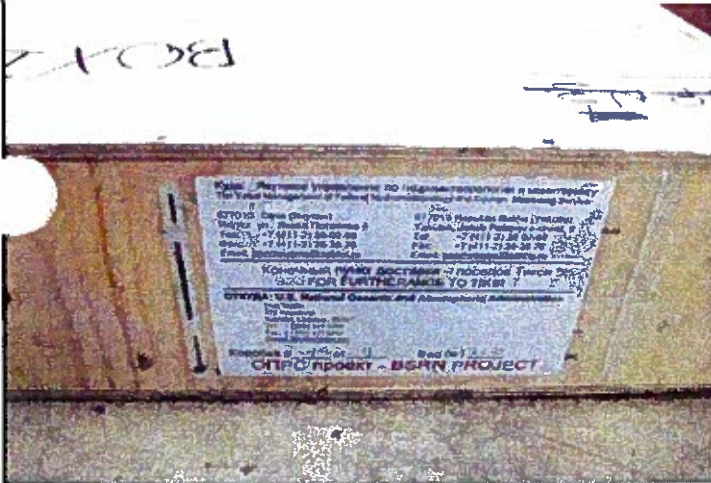
<http://www.kippzonen.com/?product/2141/2AP.aspx>

Box 4

Wt 24.49kg (54lb) 29.21x73.66x26.67cm (11.5x29x10.5in)



BSRN4-1



BSRN4-2



BSRN4-3

Round Al plate 6 1/8in holes

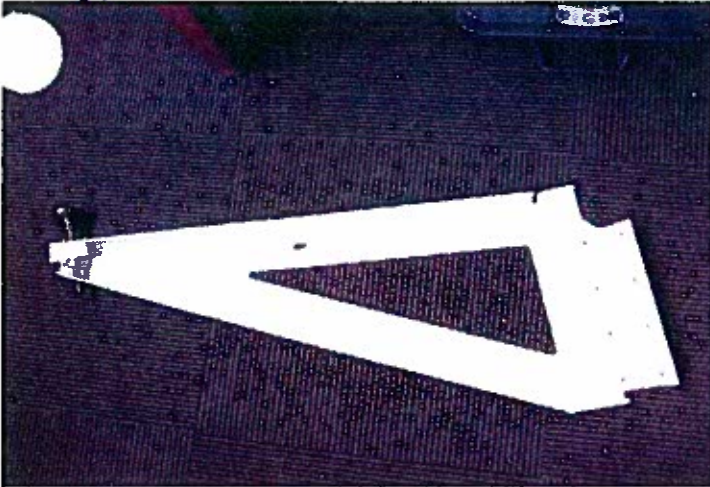
BSRN4-4

Round Al plate 8in with holes

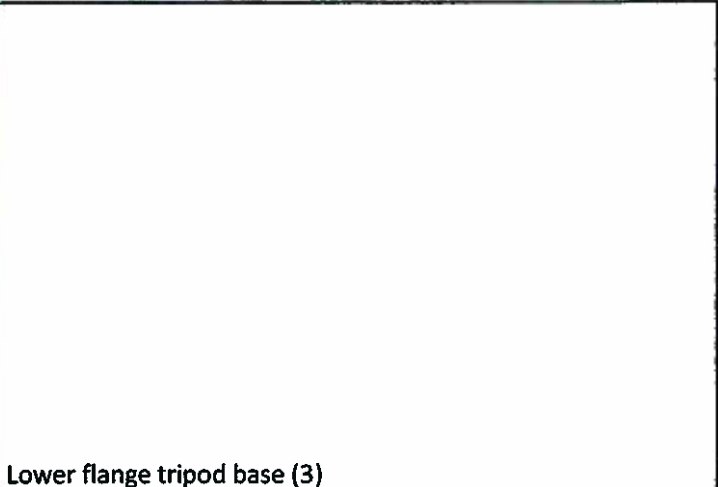
BSRN4-5



BSRN4-4

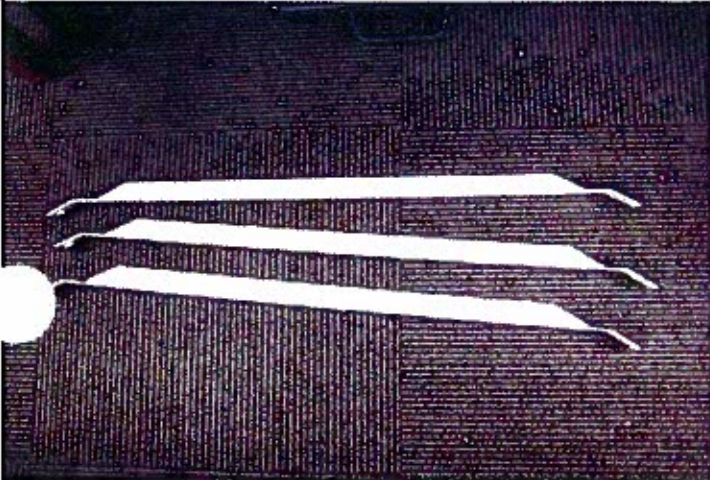


BSRN4-5

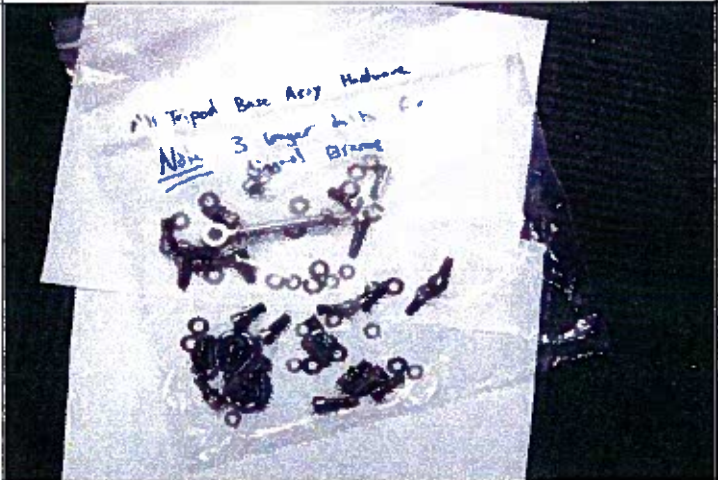


Lower flange tripod base (3)

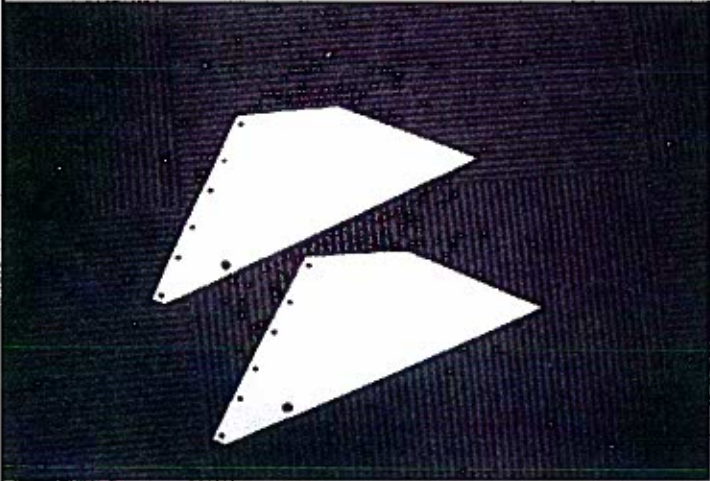
BSRN4-6



BSRN4-7



BSRN4-8



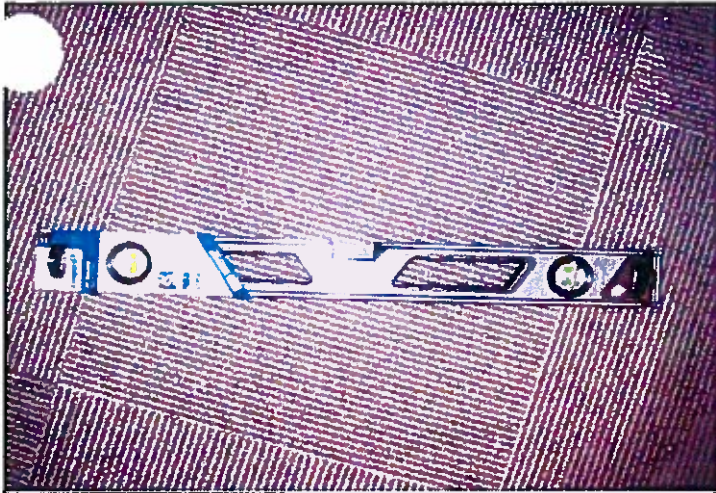
BSRN4-9



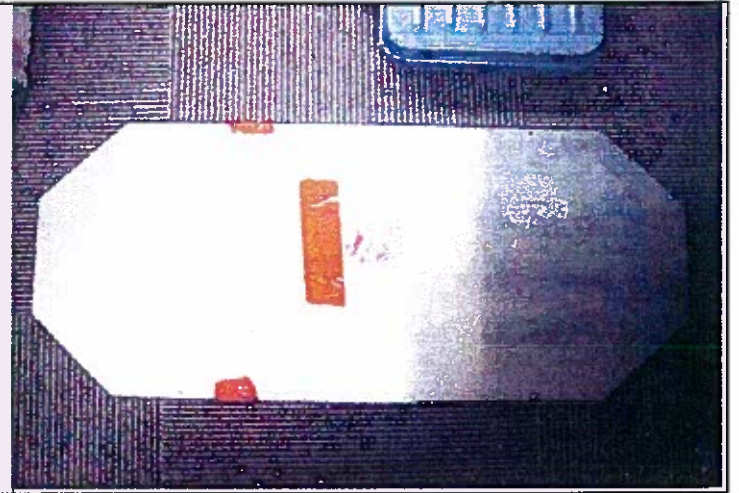
BSRN4-10

BSRN4-11

BSR N4-10



BSR N4-11



Box 5

43.18x90.17x22.86cm (17x35.5x9in)



BSRN5-1

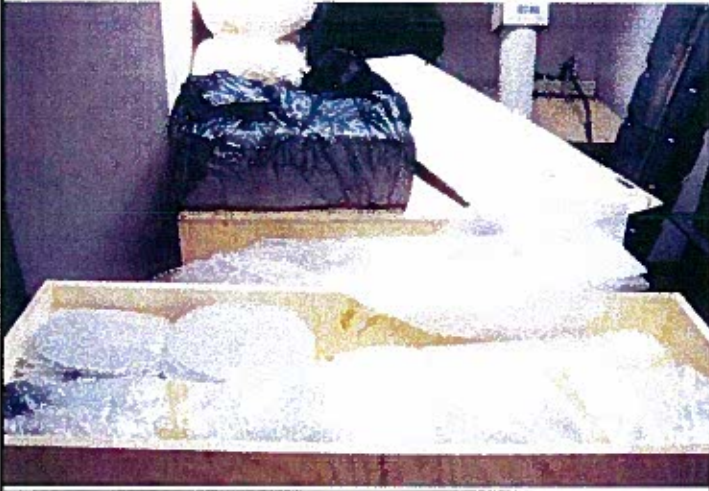


BSRN5-2



7N Box 6

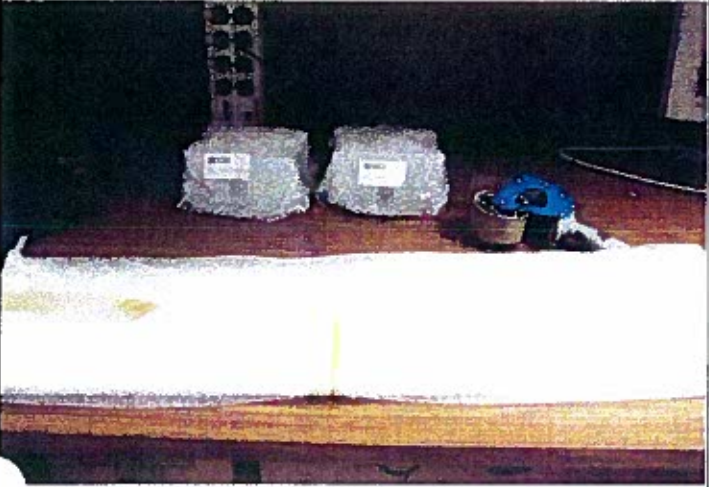
UN6 21.77kg (48lb) 38.1x101.6x17.78cm (15x40x7in)



BSRN6-1



BSRN6-2



BSRN6-3



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**BSRN7**

Technical Description: Pyroheliometer  
Manufacturer: Eppley  
Model: NIP  
Serial Number: 35803E6  
Country of Origin: USA

Technical Description: Pyrgeometer  
Manufacturer: Eppley  
Model: PIR  
Serial Number: 35835F3  
Country of Origin: USA

Technical Description: Pyranometer  
Manufacturer: Eppley  
Model: PSP  
Serial Number: 35828F3  
Country of Origin: USA

<http://www.eppleylab.com/>

Technical Description: Pyranometer  
Manufacturer: Kipp & Zonen  
Model: CM22  
Serial Number: 60126  
Country of Origin: Netherlands  
<http://www.kippzonen.com/?product/15112/CMP+22.aspx>

**BCPH7**

Название: Пирогелиометр  
Фирма-производитель: Eppley  
Модель: NIP  
Серийный номер: 35803E6  
Страна-производитель: США

Название: Пиргеометр  
Фирма-производитель: Eppley  
Модель: PIR  
Серийный номер: 35835F3  
Страна-производитель: США

Название: Пиранометр  
Фирма-производитель: Eppley  
Модель: PSP  
Серийный номер: 35828F3  
Страна-производитель: США  
<http://www.eppleylab.com/>

Название: Пиранометр  
Фирма-производитель: Kipp & Zonen  
Модель: CM22  
Серийный номер: 60126  
Страна-производитель: Нидерланды  
<http://www.kippzonen.com/?product/15112/CMP+22.aspx>

Box 7

Wt 21.32kg (47lb) 39.37x46.99x48.26cm (15.5x18.5x19in)



BSRN7-1



BSRN7-1

(35835F3)



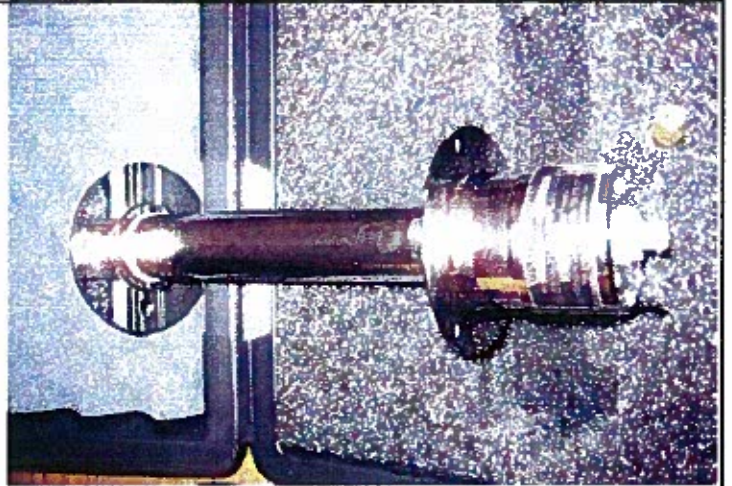
BSRN7-3

BSRN7-2

BSRN 7-2



BSRN 7-3



BSRN7-3



BSRN7-3



BSRN7-3



BSRN7-4



BSRN7-4

BSRN7-5



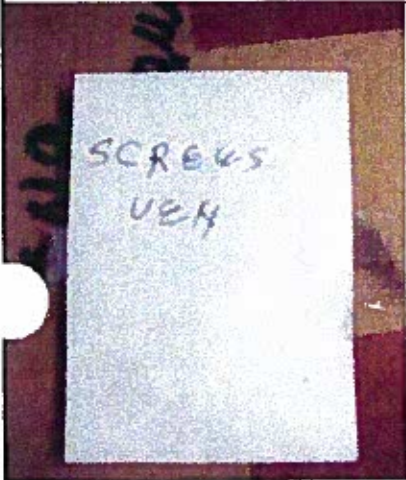
BSRN7-4



BSRN7-5



BSRN7-6

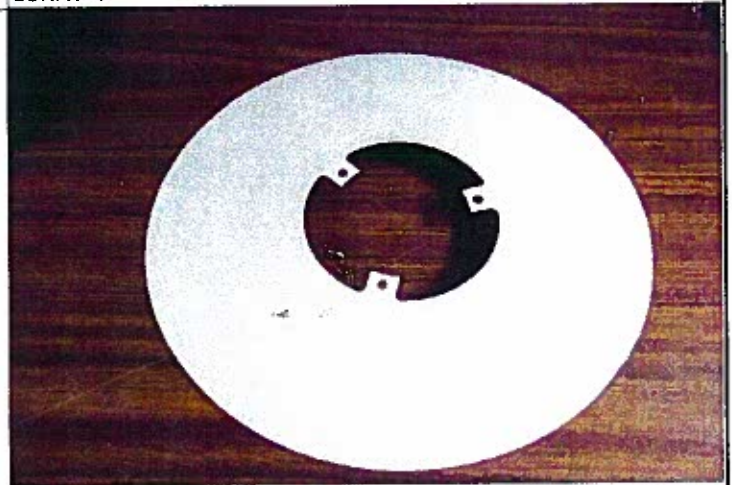


BSRN7-8



BSRN7-10

BSRN7-7



BSRN7-9

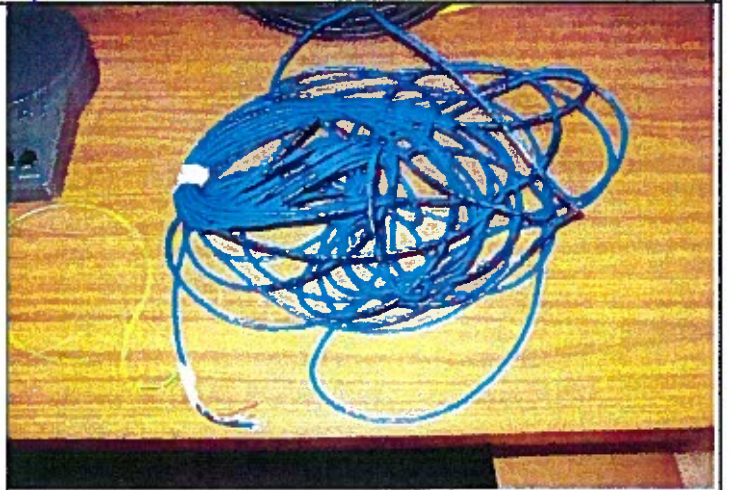


BSRN7-11

BSRN7-10



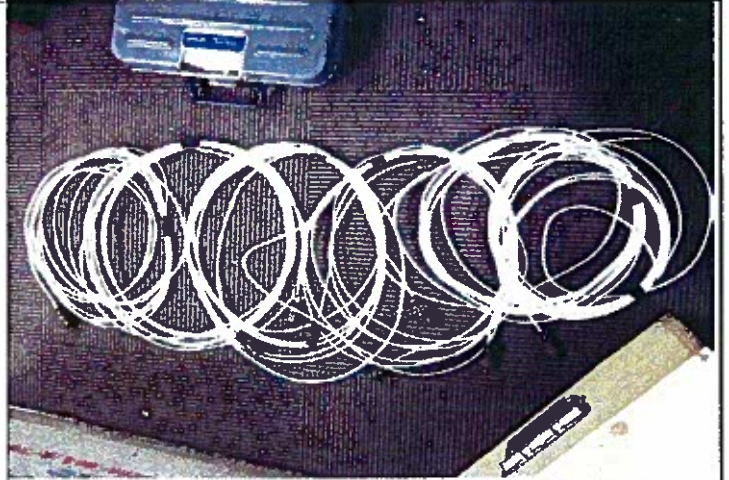
BSRN7-11



BSRN7-12



BSRN7-13



BSRN7-14



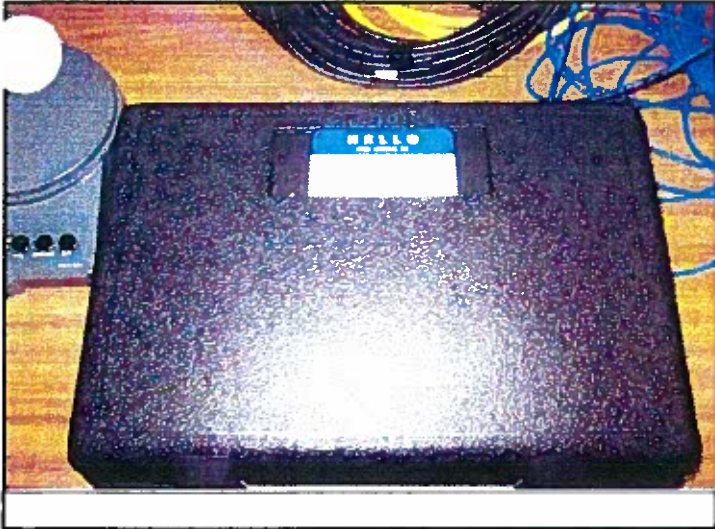
BSRN7-15



BSRN7-15

BSRN7-15

BSRN7-15



BSRN7-15



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**BSRN8**

**Technical Description:** Ventilation unit  
**Manufacturer:** Kipp & Zonen  
**Model:** CFV 3  
**Serial Number:** 60126  
**Country of Origin:** Netherlands  
<http://www.kippzonen.com/?product/7071/CVF+3+Ventilation+Unit.aspx>

**БСРН8**

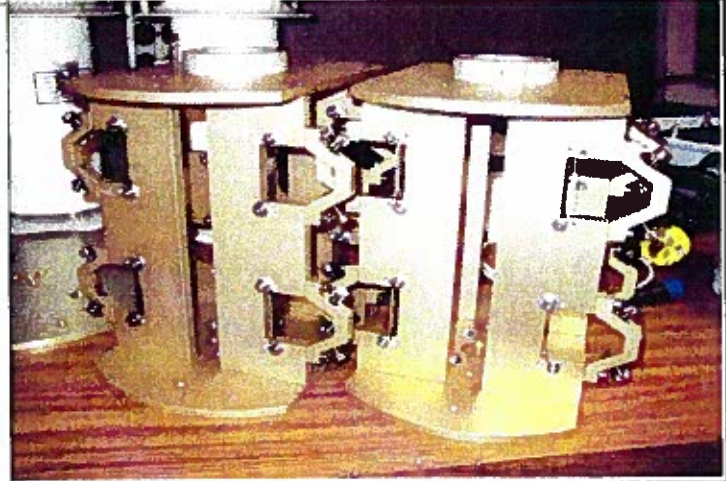
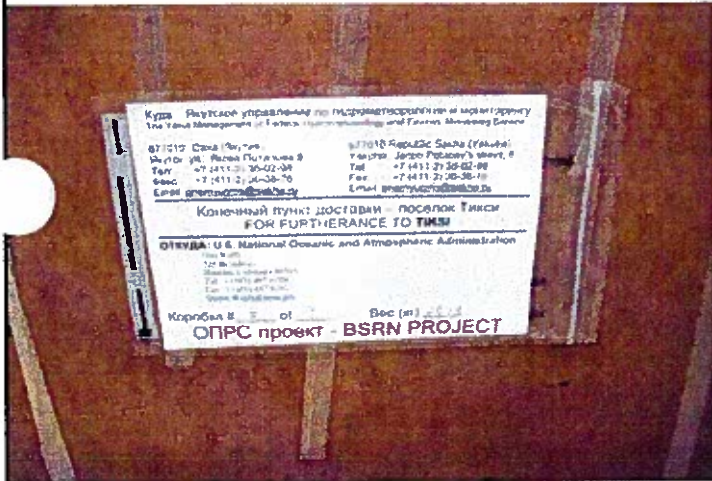
**Название:** Вентиляционное устройство  
**Фирма-производитель:** Kipp & Zonen  
**Модель:** CFV 3  
**Серийный номер:** 60126  
**Страна-производитель:** Нидерланды  
<http://www.kippzonen.com/?product/7071/CVF+3+Ventilation+Unit.aspx>

Box 8

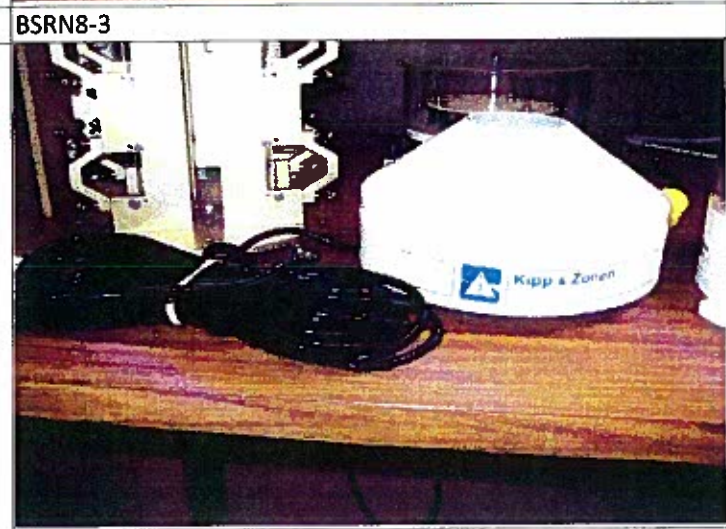
N8 23.13kg (51lb) 54.61x60.96x41.91cm (21.5x24x16.5in)



BSRN8-1



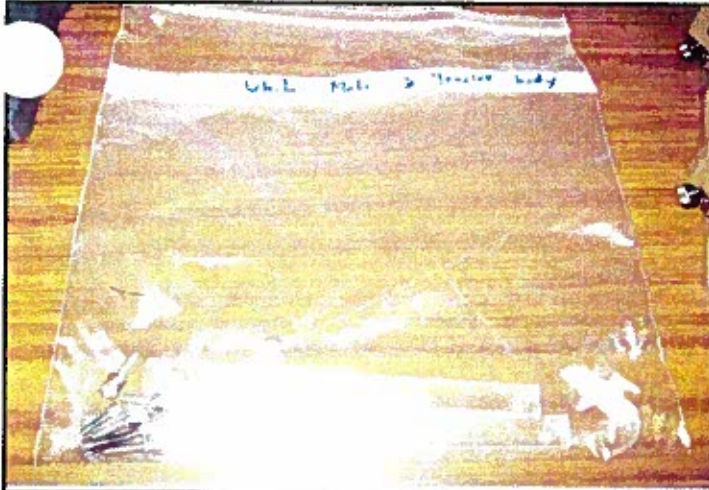
BSRN8-3



BSRN8-5

BSRN8-4

BSRN8-4



BSRN8-5



BSRN8-6



BSRN8-7



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**BSRN9**

Technical Description: Black & White radiometer  
Manufacturer: Eppley  
Model: 848  
Serial Number: 35300  
Country of Origin: USA  
<http://www.eppleylab.com/>

Technical Description: Data logger  
Manufacturer: Campbell  
Model: CR10x  
Serial Number: 11629  
Country of Origin: USA  
<http://www.campbellsci.com/dataloggers>

**BCPN9**

Название: Радиометр Black & White  
Фирма-производитель: Eppley  
Модель: 848  
Серийный номер: 35300  
Страна-производитель: США  
<http://www.eppleylab.com/>

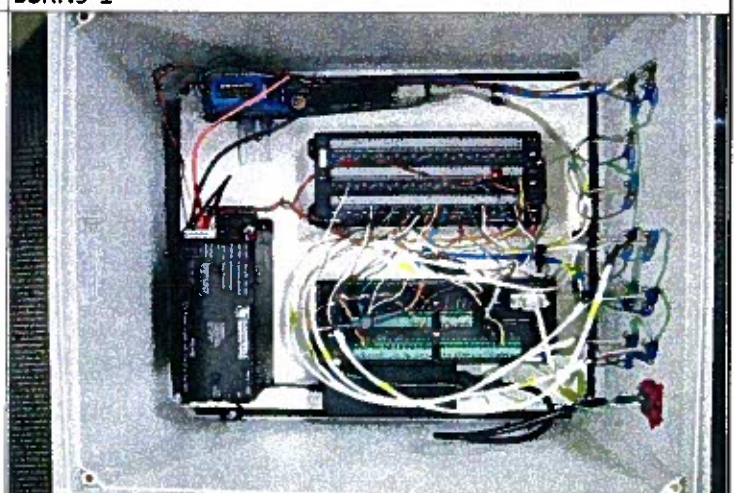
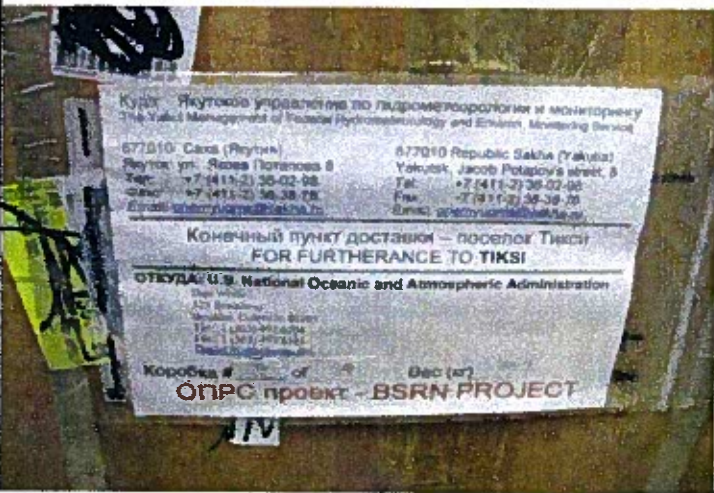
Название: Накопитель данных  
Фирма-производитель: Campbell  
Модель: CR10x  
Серийный номер: 11629  
Страна-производитель: США  
<http://www.campbellsci.com/dataloggers>

**BSRN Box 9**

BSRN9 20.14kg (45lb) 50.8x66.04x45.72cm (20x26x18in)

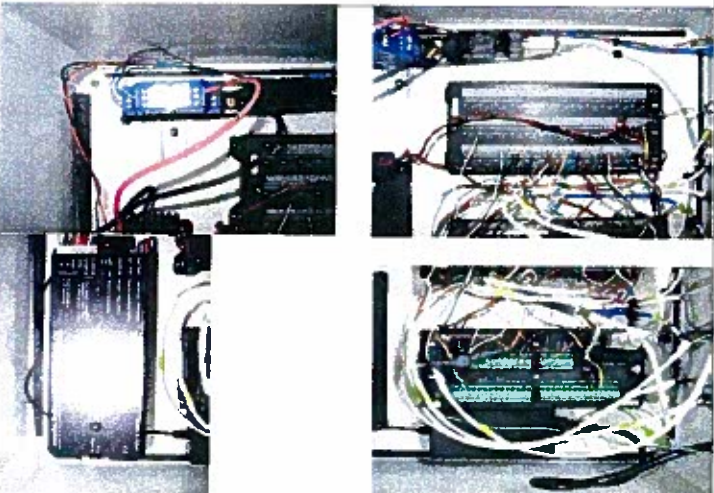


BSRN9-1



BSRN9-1

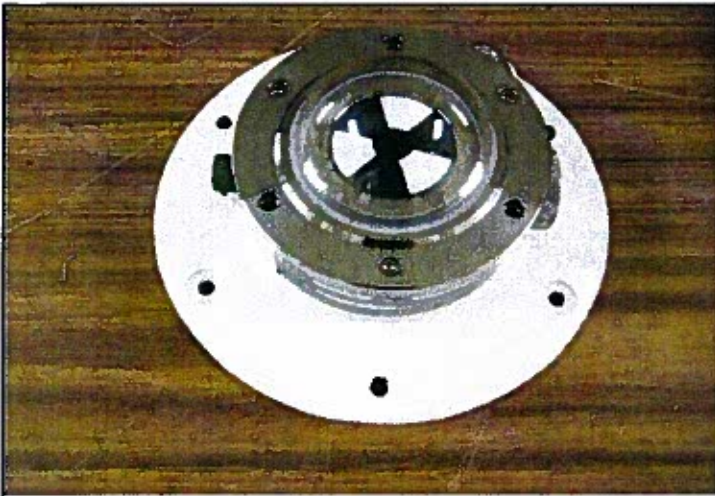
BSRN9-1



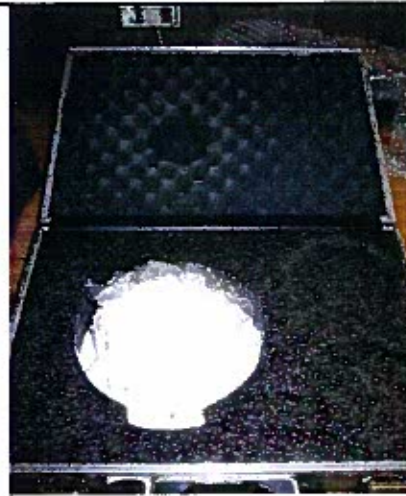
BSRN9-2

BSRN9-2





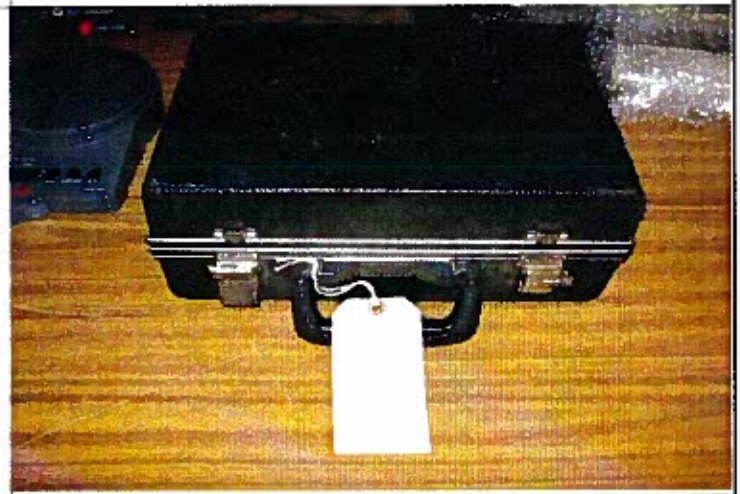
BSRN9-2



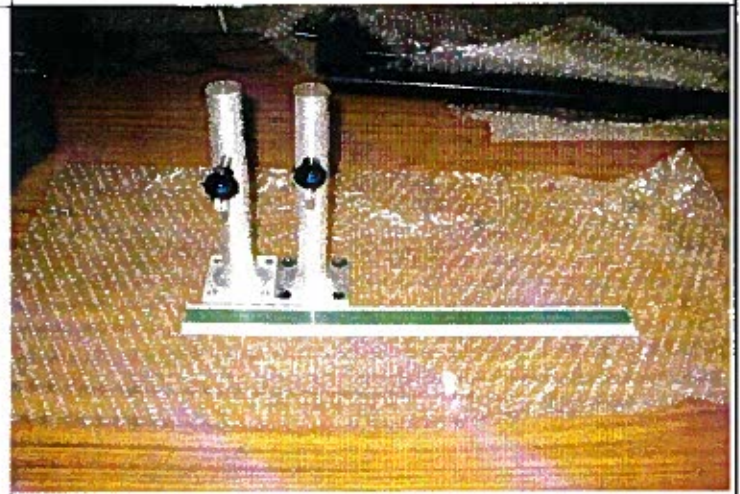
BSRN9-2



BSRN9-3, BSRN9-4



BSRN9-4



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**BSRNa4**

Technical Description: Ozone analyzer  
Manufacturer: Thermo Scientific  
Model: 49i  
Serial Number: 0629719160  
<http://www.thermo.com/com/cda/product/detail/1,1055,14690,00.html>

**БСРНа4**

Название: Анализатор озона  
Фирма-производитель: Thermo Scientific  
Модель: 49i  
Серийный номер: 0629719160  
Страна-производитель: США  
<http://www.thermo.com/com/cda/product/detail/1,1055,14690,00.html>

# Коробка BSRNa4

BSRNa4

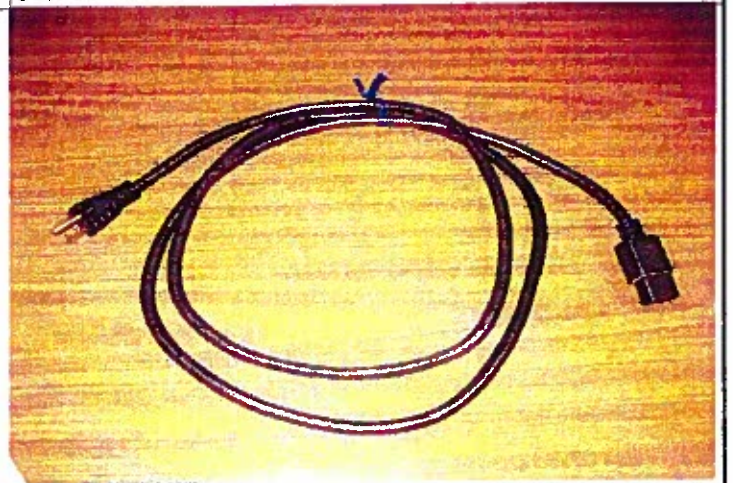
LN a4 23.6kg (52lb)



Ozone1-1



Ozone1-2



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**BSRNa3**

Technical Description: Laptop  
Manufacturer: IBM  
Model:  
Serial Number: 1871FU1  
Country of Origin: USA  
<http://www.lenovo.com/us/en/index.html>

Technical Description: Vacuum Pump  
Manufacturer: KNF Neuberger  
Model:  
Serial Number: 11629  
Country of Origin: USA  
<http://www.knf.com/usa.htm>

Technical Description: Temperature/RH transmitter  
Manufacturer: Vaisala  
Model: Humitter 50Y  
Serial Number: Z2150002  
Country of Origin: Finland

<http://www.vaisala.com/instruments/products/hm-hmp50.html>

Technical Description: GPS timing device  
Manufacturer: GARMIN  
Model: GPS-17xHVS  
Serial Number: IBN004785, IBN004637  
Country of Origin: USA

<https://buy.garmin.com/shop/shop.do?pid=13191&ra=true>

**БСРНа3**

Название: Персональный компьютер лаптоп  
Фирма-производитель: IBM  
Модель:  
Серийный номер: 1871FU1  
Страна-производитель: США

<http://www.lenovo.com/us/en/index.html>

Название: Вакуумный насос  
Фирма-производитель: KNF Neuberger

Модель:  
Серийный номер: 11629  
Страна-производитель: США

<http://www.knf.com/usa.htm>

Название: Измеритель температуры и влажности  
Фирма-производитель: Vaisala  
Модель: Humitter 50Y  
Серийный номер: Z2150002  
Страна-производитель: Финляндия

<http://www.vaisala.com/instruments/products/hm-hmp50.html>

Название: Прибор для расчета времени  
Фирма-производитель: GARMIN  
Модель: GPS-17xHVS  
Серийный номер: IBN004785, IBN004637  
Страна-производитель: США

<https://buy.garmin.com/shop/shop.do?pid=13191&ra=true>

**BSRN a3**

BSRN a3 16.78kg (37lb)

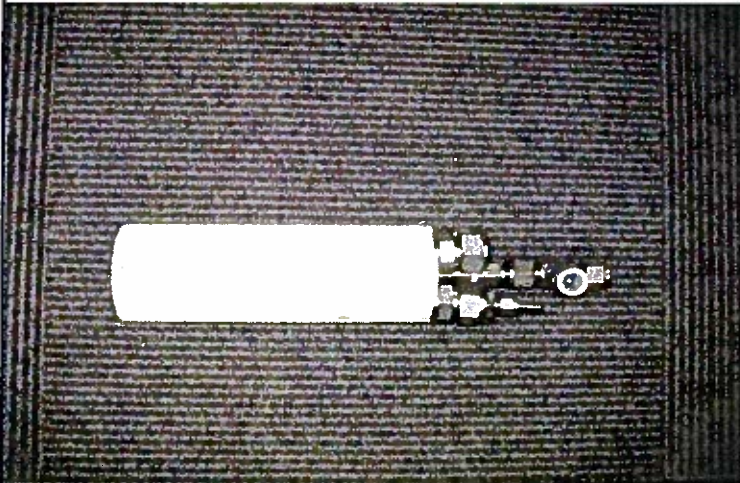
Contents inside BSRN a3



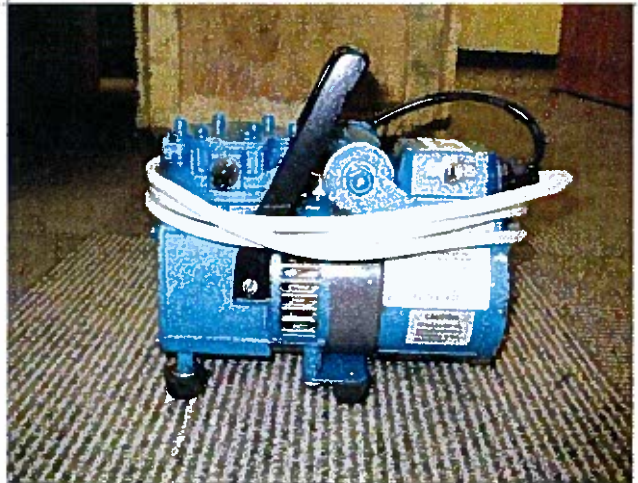
Outside of BSRN a3 box



Aero 1-1



Aero1-2



Aero1-3



Aero1-4



Aero1-5

Aero1-6

Aero 1-5



Aero 1-6



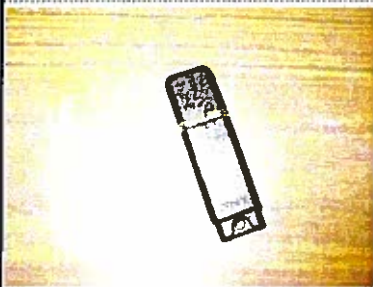
Aero1-7



BSRNa3-8 Aero 1-8



Aero1-9, Aero1-10, Aero1-11



Aero1-6,9

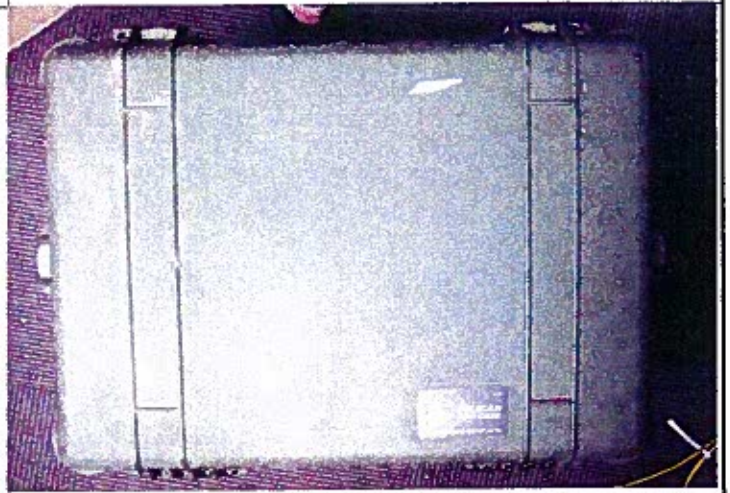


GARMIN

КОРОБКА BSRNa1  
РУЧНЫЕ ИНСТРУМЕНТЫ

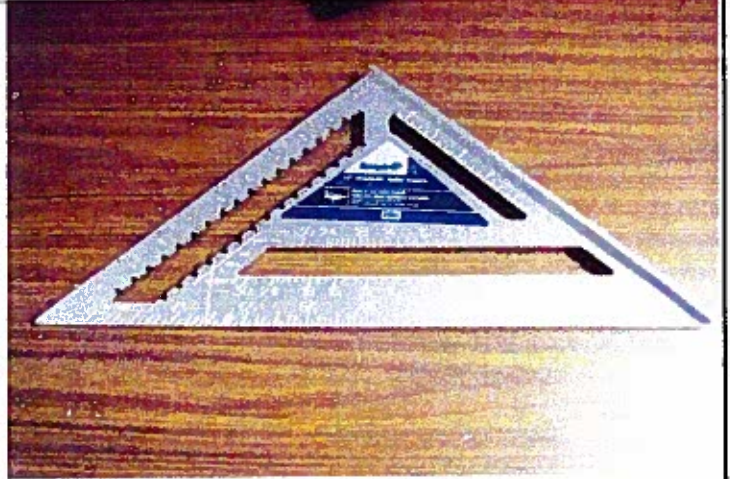
BSRNa1

Ja1 72lb



Tools1-1

Tools1-2



Tools1-3

Tools1-4



Tools1-5

Tools1-6



Tools 1-5



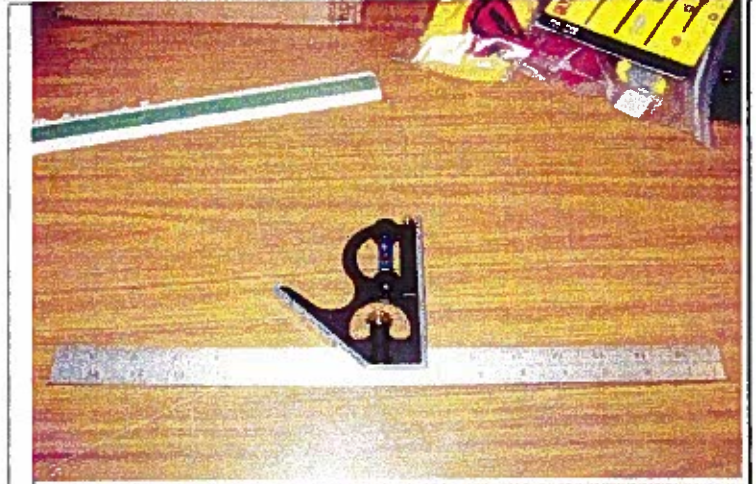
Tools 1-6



Tools1-7



Tools1-8



Tools1-9



Tools1-10



Tools1-9

Tools 1-19



Tools1-21



Tools1-23



Tools 1-20



Tools1-22



Tools1-24



Tools1-24

Tools 1-24



Tools1-25



Tools1-26



Tools1-26



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**BSRNa2**

**Technical Description:** Wind speed sensor

**Manufacturer:** Met One

**Model:** 14a

**Serial Number:** D3072

**Country of Origin:** USA

<http://metone.com/documents/014AWind%20DS.pdf>

**БСРНа2**

**Название:** Измеритель скорости ветра

**Фирма-производитель:** Met One

**Модель:** 14a

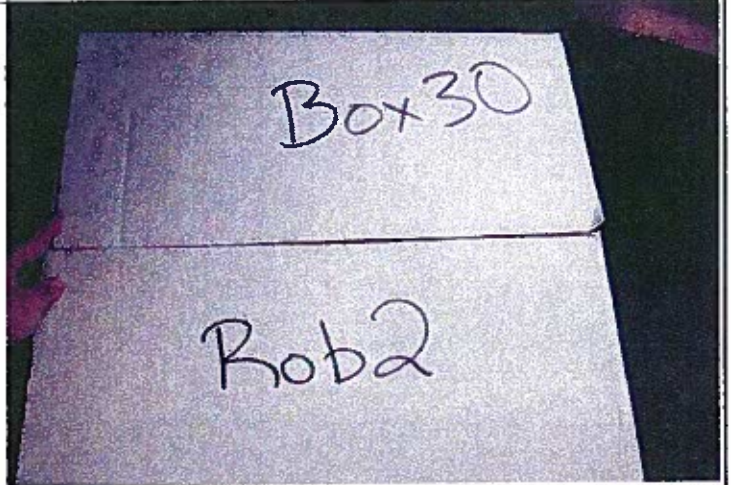
**Серийный номер:** D3072

**Страна-производитель:** США

<http://metone.com/documents/014AWind%20DS.pdf>

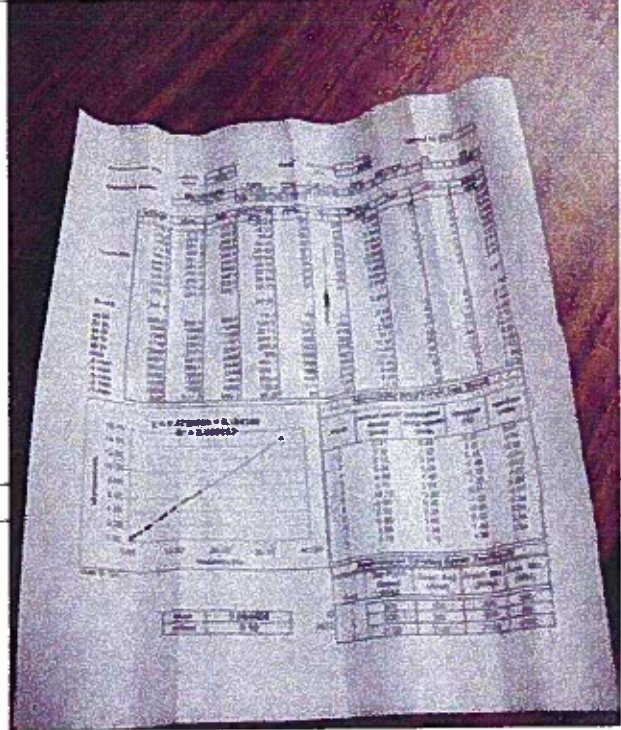
~~Коробка~~ Коробка BSRNa2  
РУЧНЫЕ ИНСТРУМЕНТЫ

BSRNa2  
1a2 41lb

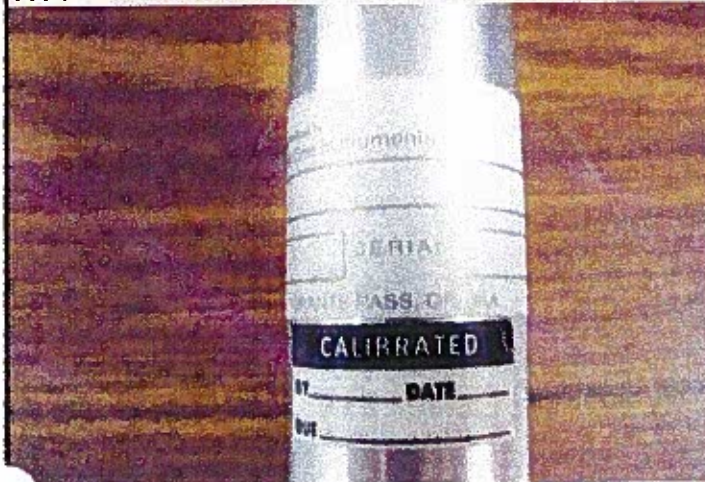


Tools2-1

Tools2-2



Tools2-2



Tools2-4

ols2-3

Tools 2-3



Tools2-5

Tools 2-4



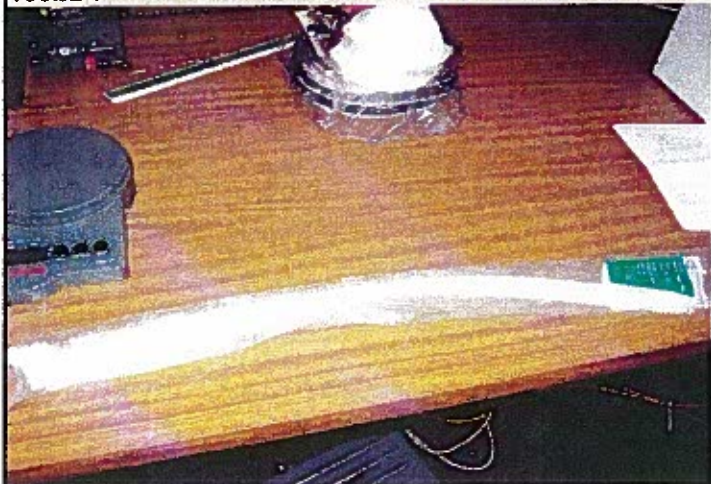
Tools2-6



Tools2-7



Tools2-8

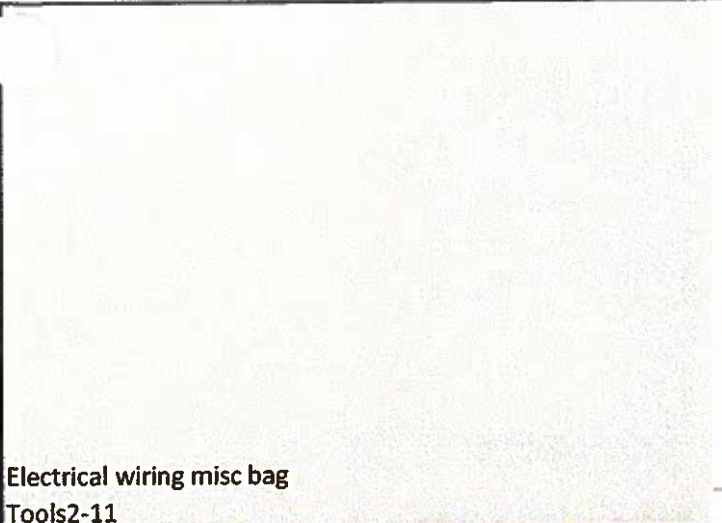


Tools2-9

Serial ports, splitter, syringes, q-tips bag  
Tools2-10

Tools2-9

Tools2-10



Electrical wiring misc bag  
Tools2-11

Tools1-12



Tools2-13

Tools2-14



Tools2-13

Tools2-14

Tools 2-13



Tools 2-14



Tools 2-15



Tools 2-16



Tools 1-17



Tools 2-18



Tools 2-19

Tools 2-20

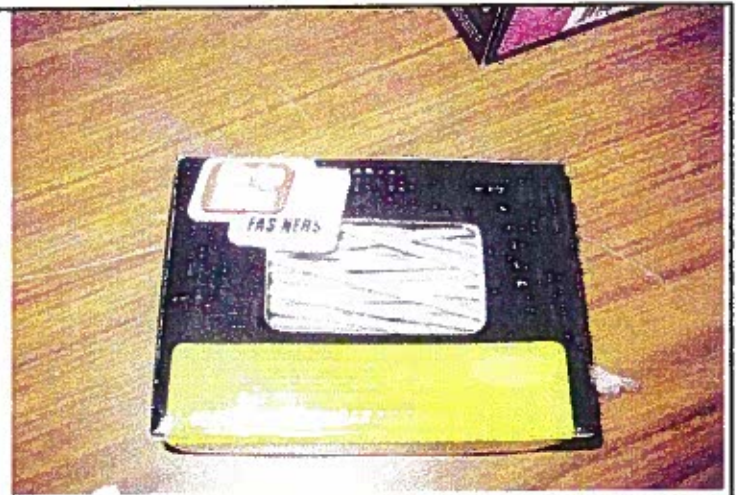


Tools 2-19



Tools2-21

Tools 2-20



Tools2-22



Tools2-23



Tools2-24

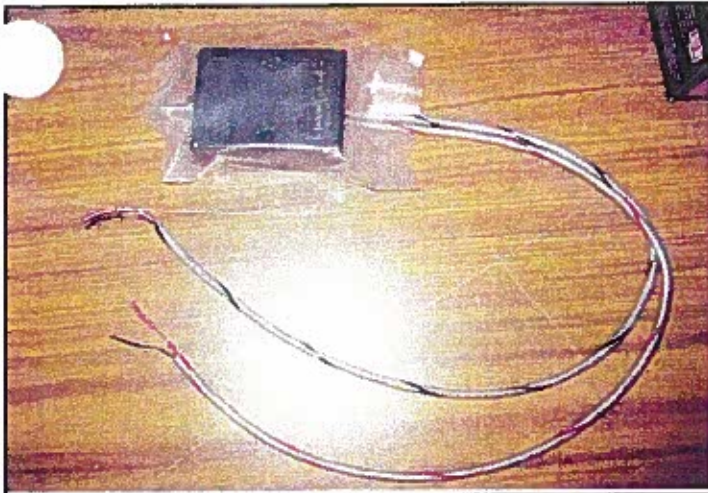


Tools2-25



Tools2-26

Tools2-25



Tools2-26



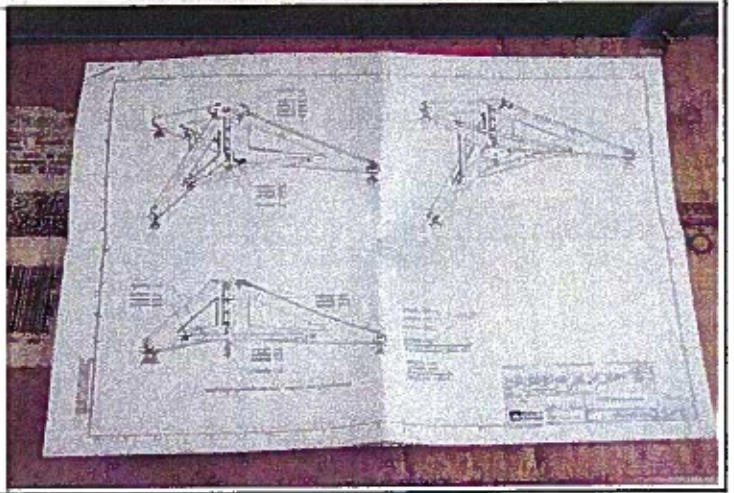
Tools2-?



Tools2-27



Tools2-28



Box N	Group N	Contents	Serial/CD Numbers	KG	
коробки	предмета	Название предмета	Название предмета	Индивидуальные характеристики	
				Вес	
CRN1	CRN1-1	Термометр сопротивления PRT (6)	PRT Temp probes (6)	391, 494, 518, 332, 386, 455	0.54
	CRN1-2	Силовые кабели, серые (3)	Power cables, gray, 4 pins (3)	N/A	0.68
	CRN1-3	ИК датчики Apogee (2)	Apogee IR sensors (2)	IRTS-P2037, SI-2112299	0.91
	CRN1-4	Регистратор	Data Logger Box	CR3000 SN2901, Cambell Flash NL115 S3670, CH100 12V Charger SW1129, Genor Signal Adaptors	
				Buss 15600-06-20	
	CRN1-5	Части электрических соединений (1)	Fuses and electrical connectors (1)	N/A	
		ВСЕГО	TOTAL		24.49
CRN2	CRN2-1	Осадкомер GEONOR	GEONOR precip gauge		13.15
	CRN2-2	Кабель черный маленький	Small black cable		0.45
	CRN2-3	Кабель черный большой	Large black cable		3.18
	CRN2-4	Трубка из пластика	PVC electrical conduit		4.08
			TOTAL		24.04
CRN3	CRN3-1	Коробка для батарей питания с зарядным устройством	Battery enclosure with charger	N/A	1.36
	CRN3-2	Пластмассовая трубка (13)	PVC pipes (13)	N/A	0.18
	CRN3-3	Изоляционная лента	Electrical tape	N/A	0.32
	CRN3-4	Разъемы (7)	Connectors (7)	N/A	0.37
	CRN3-5	пластмассовые разъемы (8)	PVC corner connectors (8)	N/A	0.17
	CRN3-6	Разъемы в упаковке	PVC connectors bag	N/A	0.85
	CRN3-7	стабилизатор	Surge Suppressor	N/A	1.12
	CRN3-8	разъемы в упаковке	Bag of connectors and outlet	N/A	0.50
	CRN3-9	адаптер	Black Campbell plug	N/A	0.56
	CRN3-10	протягиватель кабеля	Electrical wire fish tape	N/A	2.27
	CRN3-11	алюминиевая скобка (2)	Aluminum T (2)	N/A	0.58
	CRN3-12	стержень стальной	1/2" threaded bar	N/A	1.54
		ВСЕГО	TOTAL		31.30
CRN4	CRN4-1	Защита датчика температуры (3)	Temp sheilds (3)	N/A	0.50
	CRN4-2	Сальники (6)	Connectors (6)	N/A	0.01
	CRN4-3	Датчик интенсивности атмосферных осадков	Viasala Rain Sensor with Connectors (2)	D22110, D22119	0.46
	CRN4-4	Вентилятор (3)	Muffin fans (3)	N/A	0.29
	CRN4-5	Упаковка с шурупами	Box of screws	N/A	3.63
	CRN4-6	Пластмассовая бутылка 1000мл	1000ml Plastic Flask	N/A	0.13
	CRN4-7	Упаковка с шурупами и сверлами	Bag of screws and drill bits	N/A	0.73
	CRN4-8	пластмассовые стяжки	Tie wraps	N/A	0.14
		ВСЕГО	TOTAL		10.89
CRN5	CRN5-1	Радиационная защита (3)	Solar sheilds (3)	A6087, C3990, A6105	2.72

	CRN5-2	Пиранометр SP Lite Kipp and Zonen	SP Lite Kipp and Zonen pyranometer	SN:042724	0.18
	CRN5-3	Термометры сопротивления (3)	PRT Temp Probes (3)	377, 385, 443	0.17
	CRN5-4	Датчики количества осадков GEONOR (9)	GEONOR yellow precip gage sensors (9)	69105, 19506, 26202, 21602, 24802, 44602, 41002, 18102,	0.41
		ВСЕГО	TOTAL		21.77
CRN6	CRN6-1	Датчики количества осадков Alters (12)	Precip gauge Alters (12)	N/A	3.18
	CRN6-2	Разъемы и части для мачты	Tower connectors and parts	N/A	17.69
	CRN6-3	Флажки	Flags	N/A	0.08
	CRN6-4	Разъемы и части для мачты (2)	Tower connectors and parts (2)	N/A	4.99
	CRN6-5	Ветошь	Rags	N/A	1.28
	CRN6-6	Молоток для забивки стержней	Post hole pounder	N/A	7.71
	CRN6-7	Мешки для мусора	Trash bags	N/A	1.13
		ВСЕГО	TOTAL		105.69
CRN7	CRN7-1	Уровень	USAG Level	N/A	0.27
	CRN7-2	Рулетка измерительная	WorkForce tape measure	N/A	0.35
	CRN7-3	Набор ключей шестигранных	Husky Allen wrenches	N/A	0.15
	CRN7-4	Изоляционная лента	Electric tape	N/A	0.07
	CRN7-5	Изоляционная лента	Tape	N/A	0.14
	CRN7-6	Набор отверток (13)	Various screw drivers and pieces (13)	N/A	1.10
	CRN7-7	Монтажные инструменты	Various wire strippers, pliers (10)	N/A	2.95
	CRN7-8	Пластмассовые стяжки	Tie wraps	N/A	0.04
	CRN7-9	Напильник (2)	Metal files (2)	N/A	0.08
	CRN7-10	Отвертки (2)	Allen T wrenches (2)	N/A	0.08
	CRN7-11	Перочинный нож	Husky pocket knife	N/A	0.11
	CRN7-12	Канцелярский нож	Orange knife with blade replacements	N/A	0.01
	CRN7-13	Сверла для дрели	Drill bits	N/A	0.30
	CRN7-14	Гаечные и торцевые ключи	Wrenches and sockets (15)	N/A	0.88
	CRN7-15	Разводной ключ	Crescent Wrench	N/A	0.54
	CRN7-16	Стальная щетка (каретка)	Steel brush	N/A	0.02
		ВСЕГО	TOTAL		8.16

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CRN1

Technical Description: Precision Resistance Temperature probes  
Manufacturer: Thermometrics PRT  
Model: None given  
Serial Number: 391, 494, 518, 332, 386, 455  
Country of Origin: USA  
<http://www.ncdc.noaa.gov/crn/instrdoc#SENSORS>

Technical Description: IR sensors  
Manufacturer: Apogee  
Model: SI-111  
Serial Number: 2037, 2299  
Country of Origin: USA  
[http://www.apogee-inst.com/infrared\\_temperature\\_sensors.htm](http://www.apogee-inst.com/infrared_temperature_sensors.htm)

Technical Description: Data logger  
Manufacturer: Campbell Scientific  
Model: CR3000  
Serial Number: 2901  
Country of Origin: USA  
<http://www.campbellsci.co.uk/index.cfm?id=934>

CPH1

Название: Датчики температуры  
Фирма-производитель: Thermometrics PRT  
Модель: -  
Серийный номер: 391, 494, 518, 332, 386, 455  
Страна-производитель: США  
<http://www.ncdc.noaa.gov/crn/instrdoc#SENSORS>

Название: Датчики инфракрасного теплового излучения  
Фирма-производитель: Apogee  
Модель: SI-111  
Серийный номер: 2037, 2299  
Страна-производитель: США  
[http://www.apogee-inst.com/infrared\\_temperature\\_sensors.htm](http://www.apogee-inst.com/infrared_temperature_sensors.htm)

Название: Накопитель данных

Фирма-производитель: Campbell Scientific  
Модель: CR3000  
Серийный номер: 2901  
Страна-производитель: США  
<http://www.campbellsci.co.uk/index.cfm?id=934>

ПРОЕКТ КРС  
(CRN)

CRN Box 1

(CRN1) 54lb 60.96x60.96x40.64cm (24x24x16in)

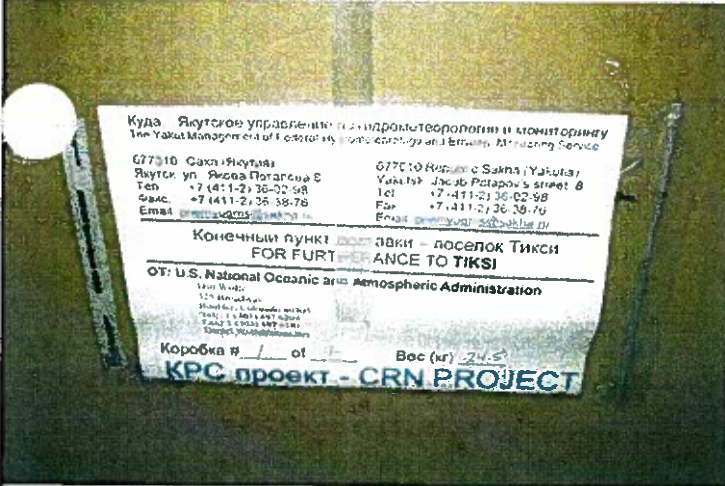
Contents of CRN Box 1 in the box



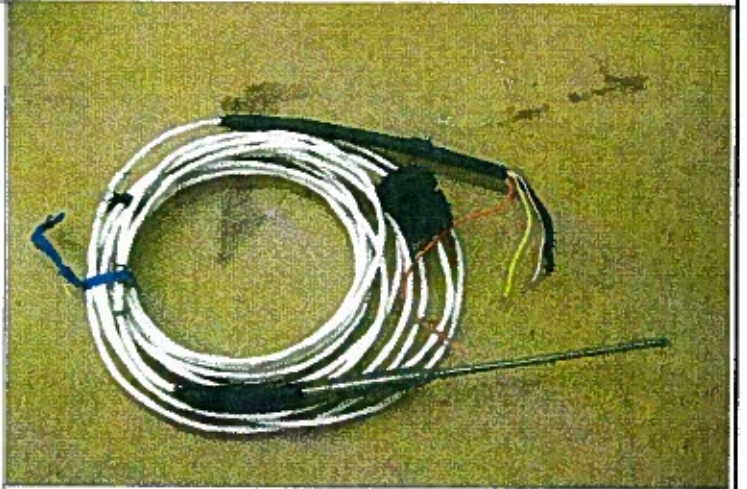
Outside of CRN Box 1



Outside of CRN Box 1



CRN1-1



CRN1-1



CRN1-1



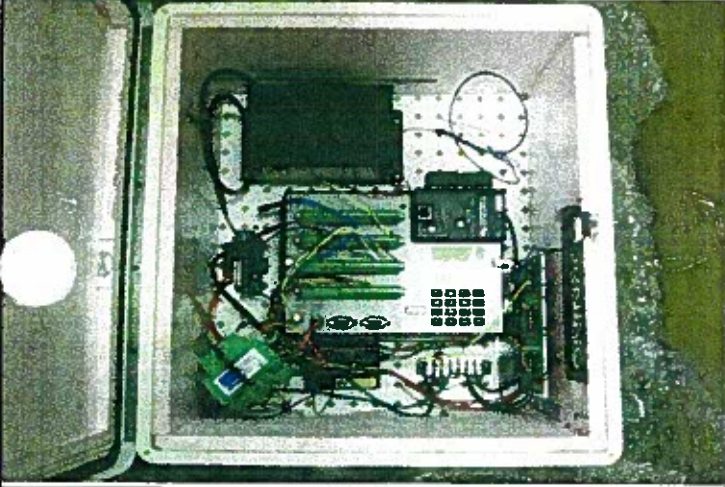
CRN1-2



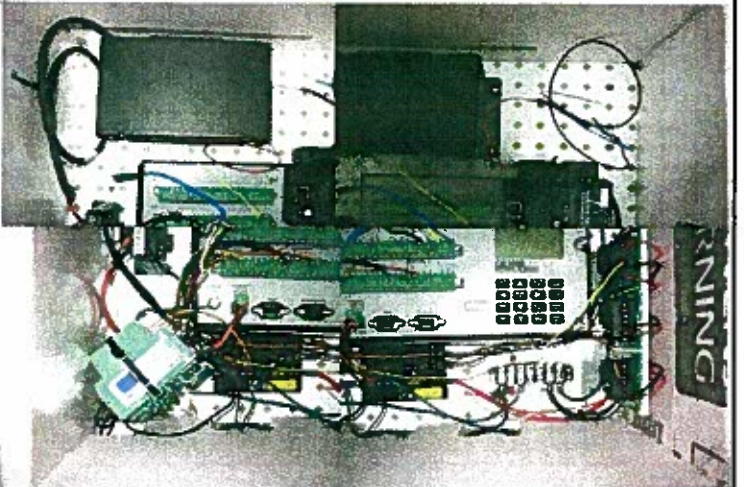
CRN1-3



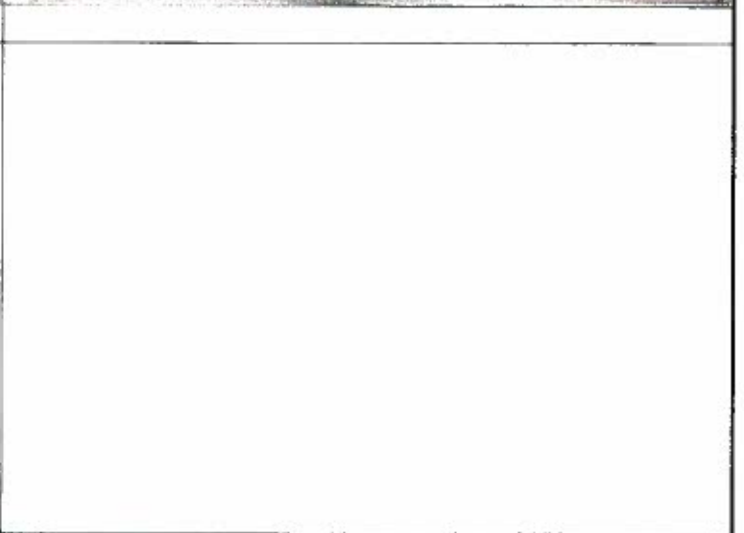
CRN1-4



CRN1-4



CRN1-5





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CRN2

Technical Description: GEONOR Precipitation sensors  
Manufacturer: GEONOR  
Model: T-200B  
Serial Number: GPG 004  
Country of Origin: USA

[http://www.geonor.com/precipitation\\_gauge.html](http://www.geonor.com/precipitation_gauge.html)

<http://www.geonor.com/PDF/T-200B-Series-PG-Brochure.pdf>

CPH2

Название: Измерители осадков GEONOR  
Фирма-производитель: GEONOR  
Модель: T-200B  
Серийный номер: GPG 004  
Страна-производитель: США

[http://www.geonor.com/precipitation\\_gauge.html](http://www.geonor.com/precipitation_gauge.html)

<http://www.geonor.com/PDF/T-200B-Series-PG-Brochure.pdf>

CRN Box 2

(CRN2) 24.49kg (54lb) 43.18x43.18x80.01cm (17x17x31.5in)

Contents of CRN Box 2 in the box



Outside of CRN Box 2



Outside of CRN Box 2



CRN2-1



CRN2-1



CRN2-1



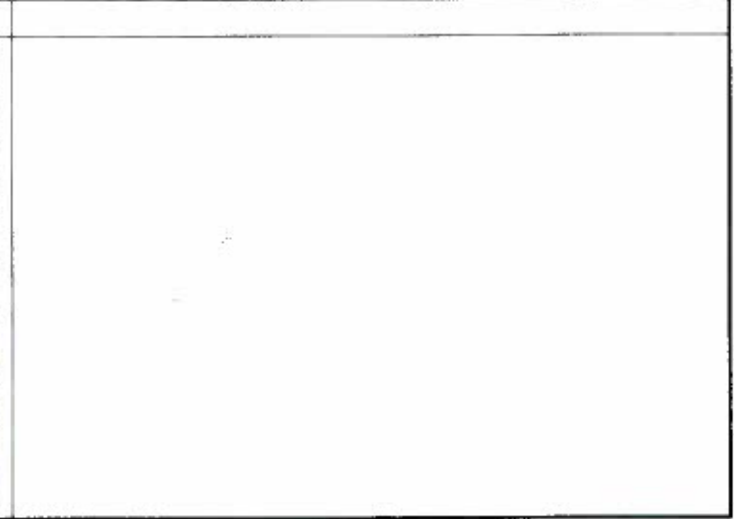
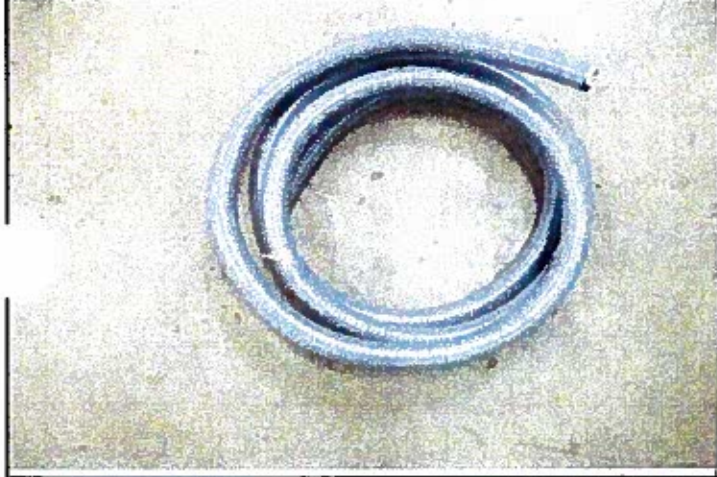
CRN2-2



CRN2-3



CRN2-4



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CRN3

Technical Description: Battery Charger  
Manufacturer: XANTREX  
Model: TrueCharge 10TB  
Serial Number: N/A  
Country of Origin: USA

<http://www.majorpower.com/xantrex/truecharge.html>

CPH3

Название: Зарядка для батарей электричества  
Фирма-производитель: XANTREX  
Модель: TrueCharge 10TB  
Серийный номер: -  
Страна-производитель: США

<http://www.majorpower.com/xantrex/truecharge.html>

CRN Box 3

(CRN3) 69lb 24x24x30in

Contents of CRN Box 3 in the box



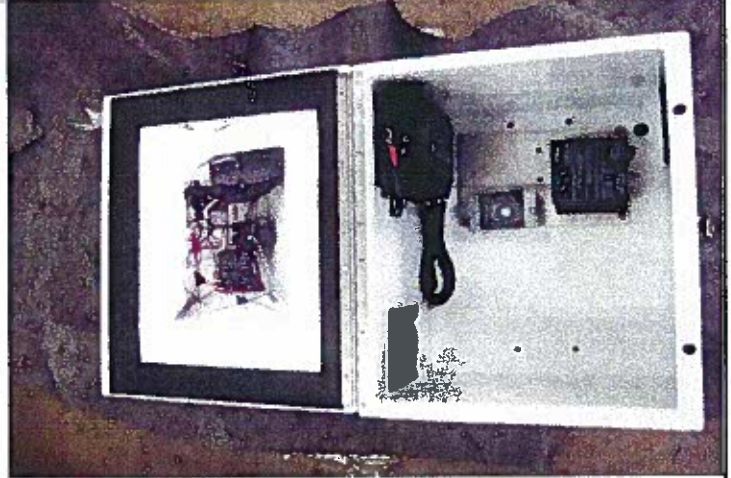
Outside of CRN Box 3



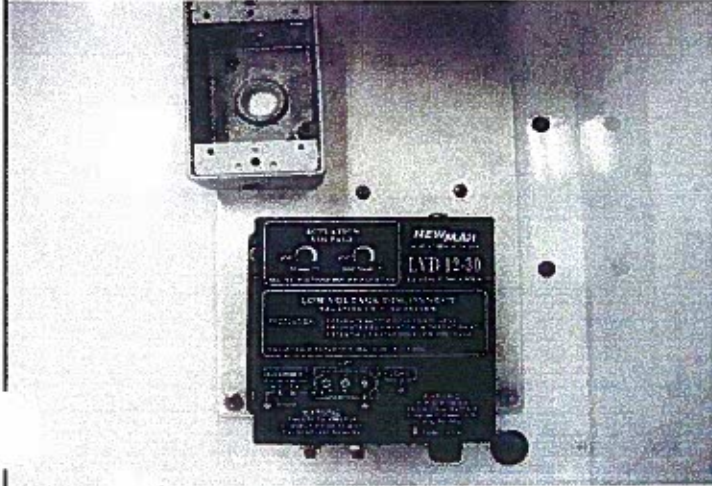
Outside of CRN Box 3



CRN3-1



CRN3-1



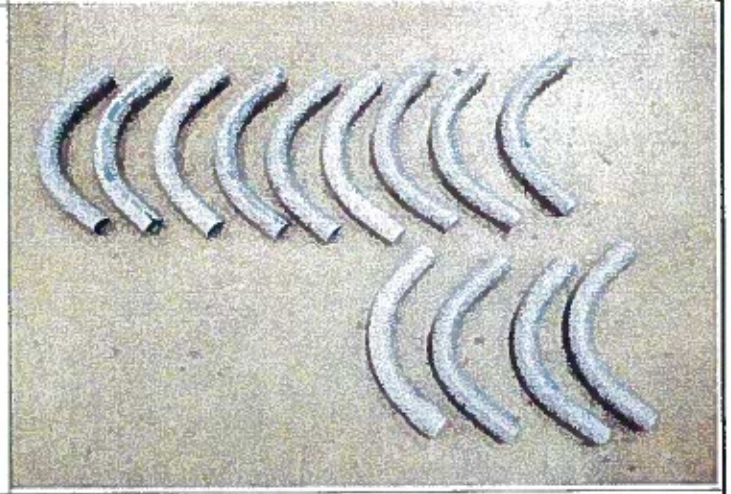
CRN3-1



CRN3-1



CRN3-2



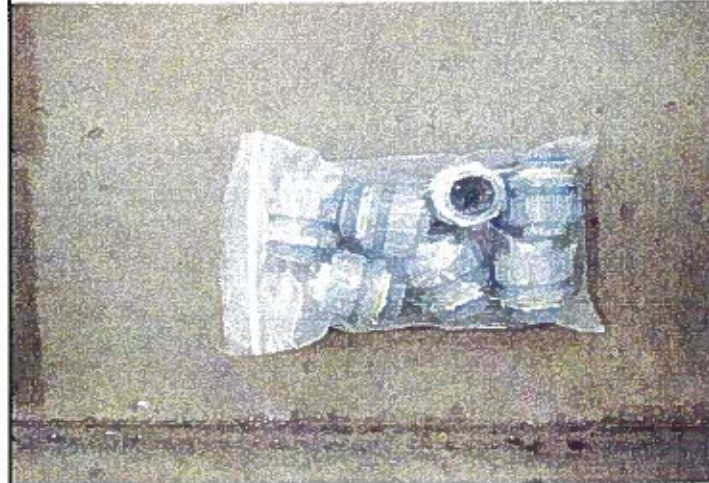
CRN3-2



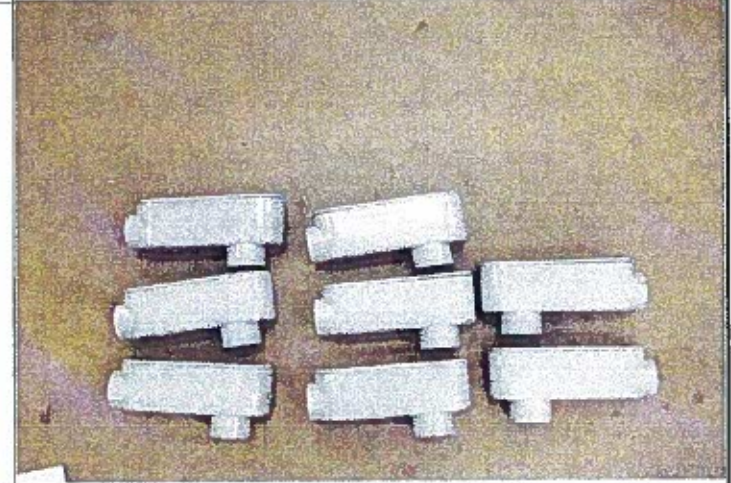
CRN3-3



CRN3-4



CRN3-5



CRN3-6



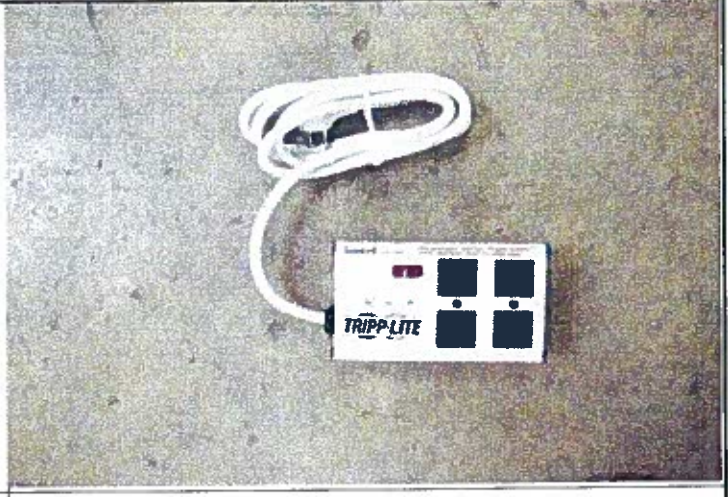
~~CRN3-7~~



CRN3-6



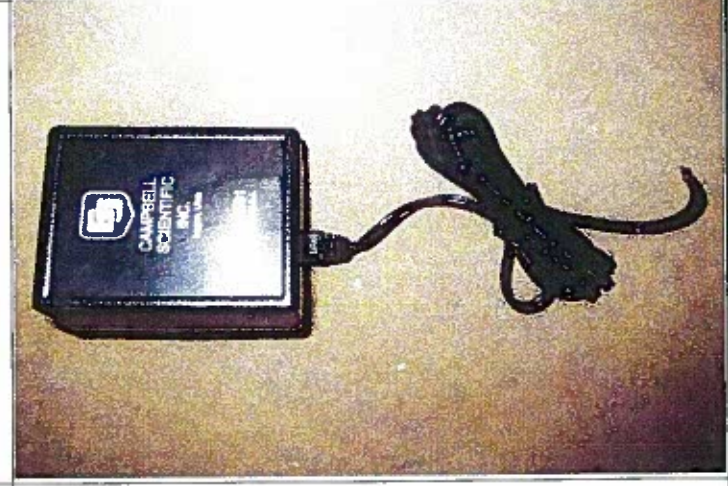
CRN3-7



CRN3-8



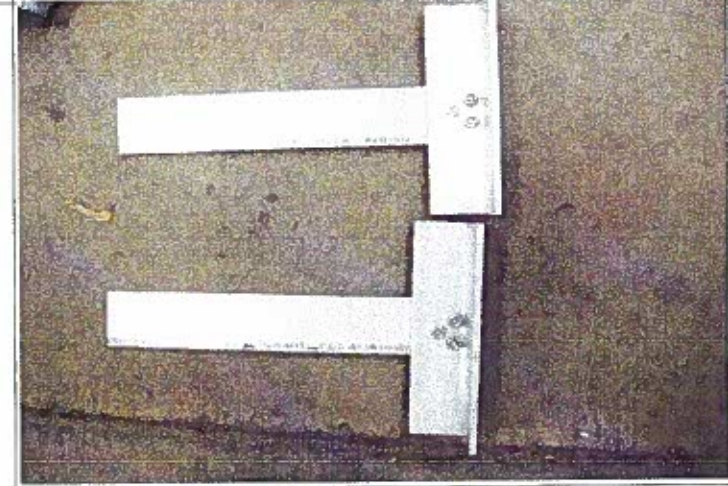
CRN3-9



CRN3-10

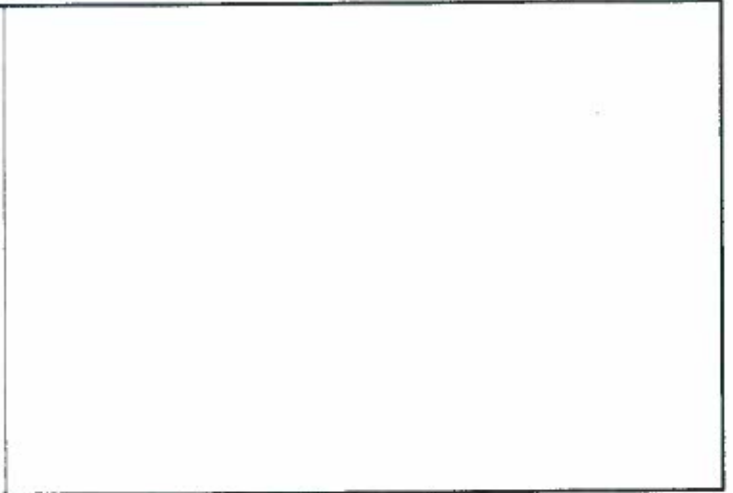
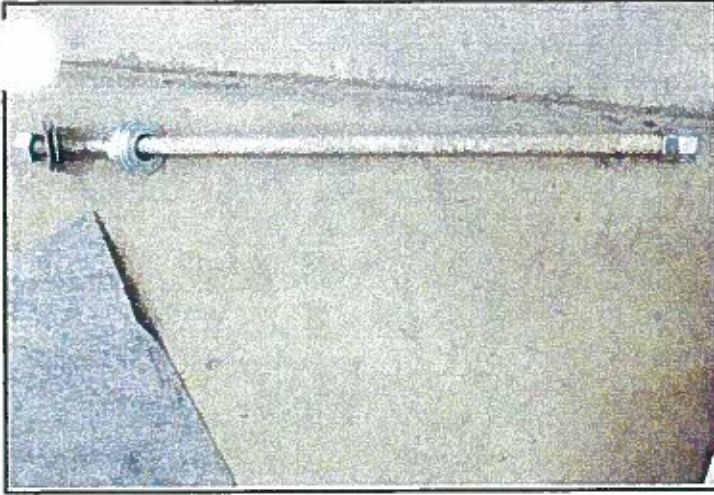


CRN3-11



CRN3-12

CRN 3-12





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**CRN4**

**Technical Description:** Rain detector  
**Manufacturer:** Vaisala  
**Model:** DRD11A  
**Serial Number:** D21110, D21119  
**Country of Origin:** Finland  
<http://www.vaisala.com/weather/products/drd11a.html>

**CPH4**

**Название:** Детектор дождя  
**Фирма-производитель:** Vaisala  
**Модель:** DRD11A  
**Серийный номер:** D21110, D21119  
**Страна-производитель:** Финляндия  
<http://www.vaisala.com/weather/products/drd11a.html>

CRN Box 4

4 10.89kg (24lb) 40.64x40.64x40.64cm (16x16x16in)

Contents of CRN Box 4 in the box



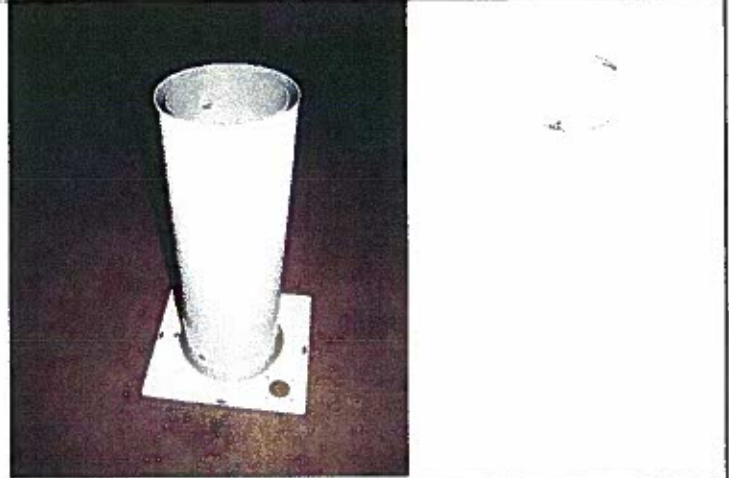
Outside of CRN Box 4



Outside of CRN Box 4



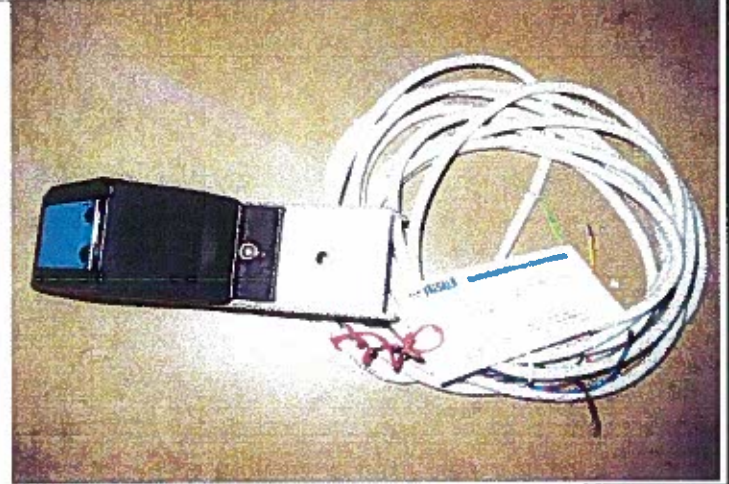
CRN4-1



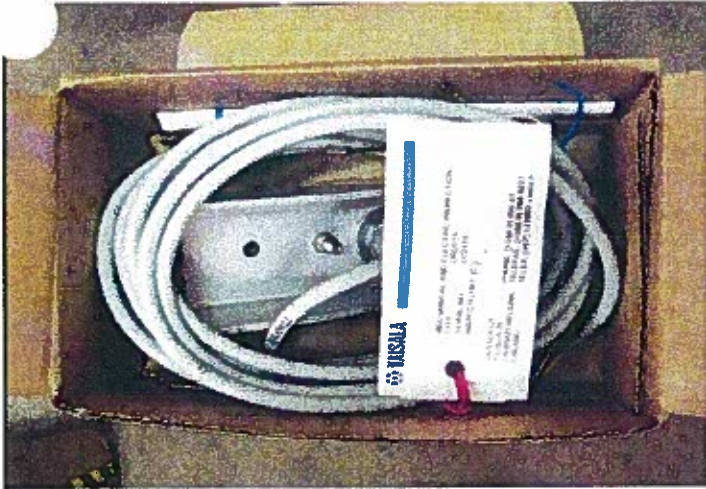
CRN4-2



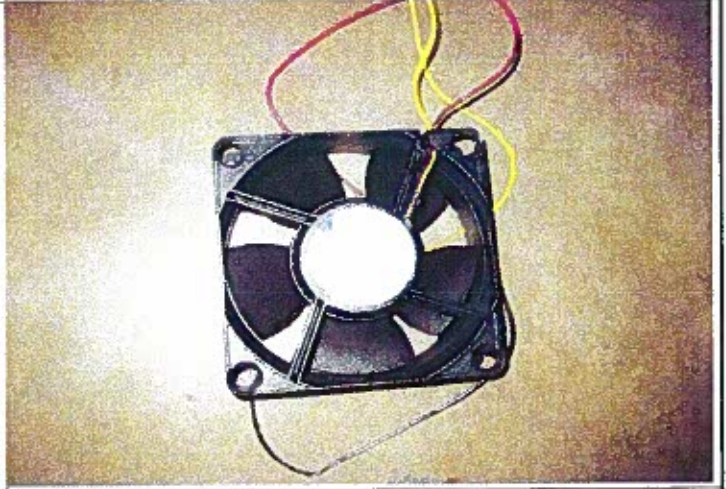
CRN4-3



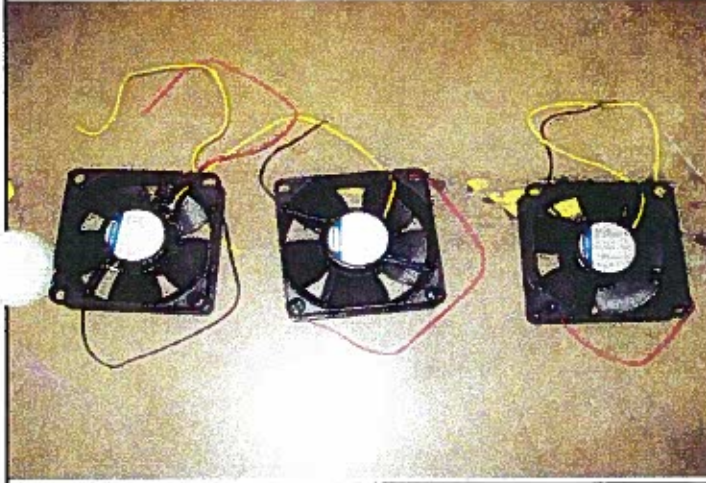
CRN4-3



CRN4-4



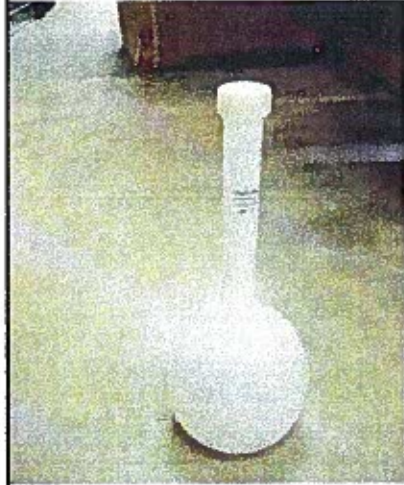
CRN4-4



CRN4-5



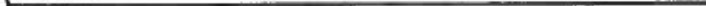
CRN4-6



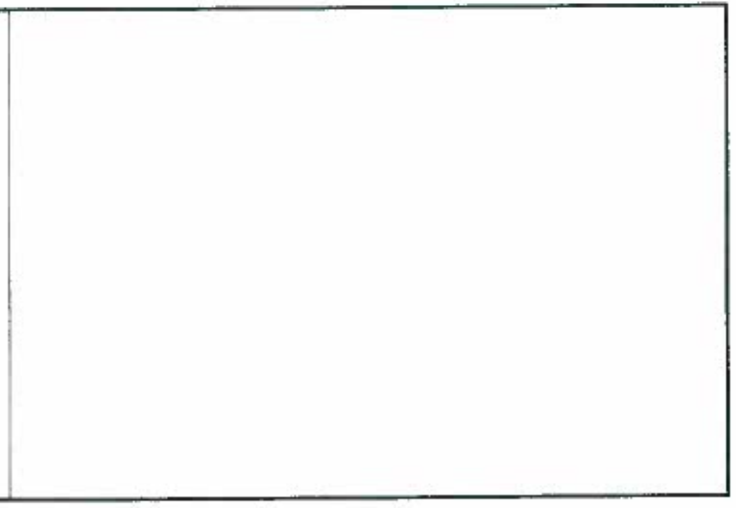
CRN4-7



CRN4-8



CRN 4-8



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**CRN5**

**Technical Description:** GEONOR Precipitation sensor vibrating wire  
**Manufacturer:** GEONOR  
**Model:** T-200B  
**Serial Numbers:** 69105, 19506, 26202, 21602, 24802, 44602, 41002, 18102, 14906  
**Country of Origin:** USA  
[http://www.geonor.com/precipitation\\_gauge.html](http://www.geonor.com/precipitation_gauge.html)

<http://www.geonor.com/PDF/T-200B-Series-PG-Brochure.pdf>

**Technical Description:** Pyranometer  
**Manufacturer:** Kipp & Zonen  
**Model:** SP Lite  
**Serial Number:** 042724  
**Country of Origin:** USA  
<http://www.kippzonen.com/?product/991/SP+Lite2.aspx>

**Technical Description:** Precision Resistance Temperature probes  
**Manufacturer:** Thermometrics PRT  
**Model:** None given  
**Serial Number:** 377, 385, 443  
**Country of Origin:** USA  
<http://www.ncdc.noaa.gov/crn/instrdoc#SENSORS>

**CPH5**

**Название:** Осадкомер на вибрационной основе  
**Фирма-производитель:** GEONOR  
**Модель:** T-200B  
**Серийный номер:** 69105, 19506, 26202, 21602, 24802, 44602, 41002, 18102, 14906  
**Страна-производитель:** США  
[http://www.geonor.com/precipitation\\_gauge.html](http://www.geonor.com/precipitation_gauge.html)

<http://www.geonor.com/PDF/T-200B-Series-PG-Brochure.pdf>

**Название:** Пиранометр  
**Фирма-производитель:** Kipp & Zonen  
**Модель:** SP Lite

Серийный номер: 042724  
Страна-производитель: США  
<http://www.kippzonen.com/?product/991/SP+Lite2.aspx>

Название: Термометр сопротивления  
Фирма-производитель: Thermometrics PRT  
Модель: -  
Серийный номер: 377, 385, 443  
Страна-производитель: США  
<http://www.ncdc.noaa.gov/crn/instrdoc#SENSORS>

CRN Box 5

5 27.77kg (48lb)

Contents of CRN Box 5 in the box



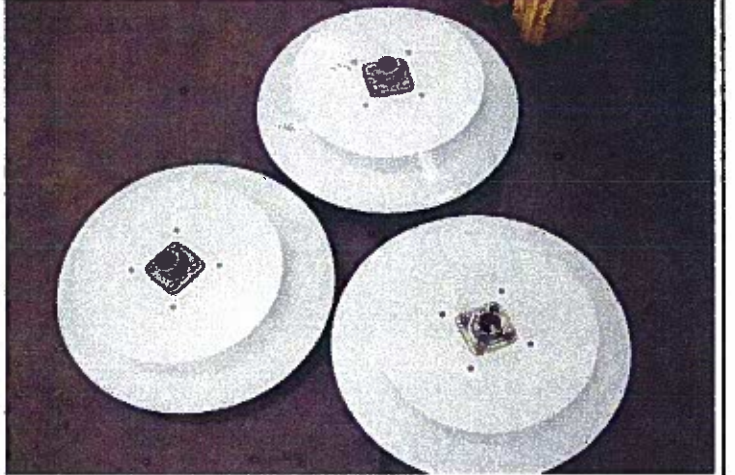
Outside of CRN Box 5



Outside of CRN Box 5



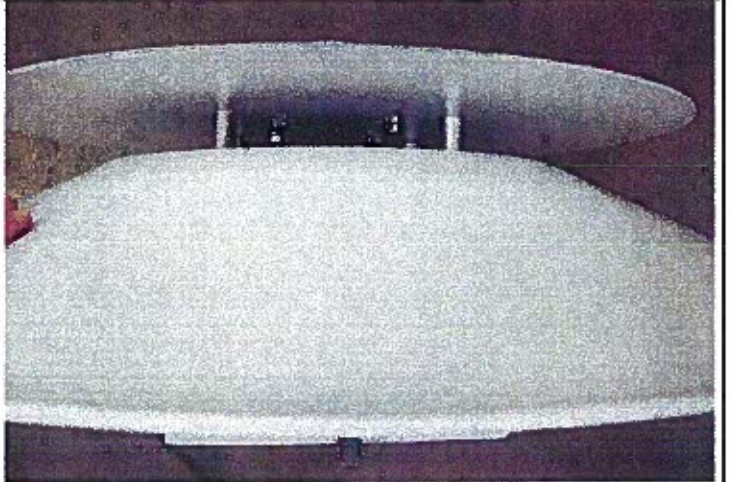
CRN5-1



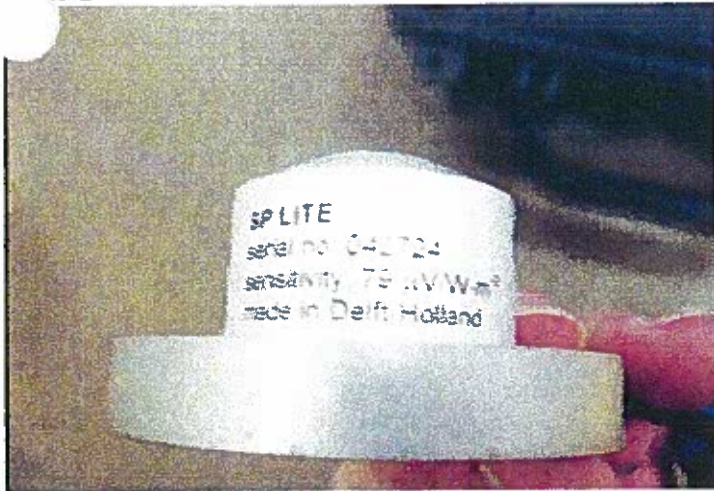
CRN5-2



CRN5-2



CRN5-2



CRN5-2



CRN5-2



CRN5-3



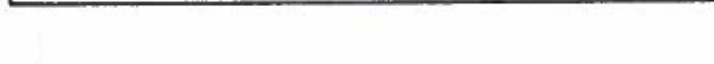
CRN5-3



CRN5-3



CRN5-4



CRN5-4



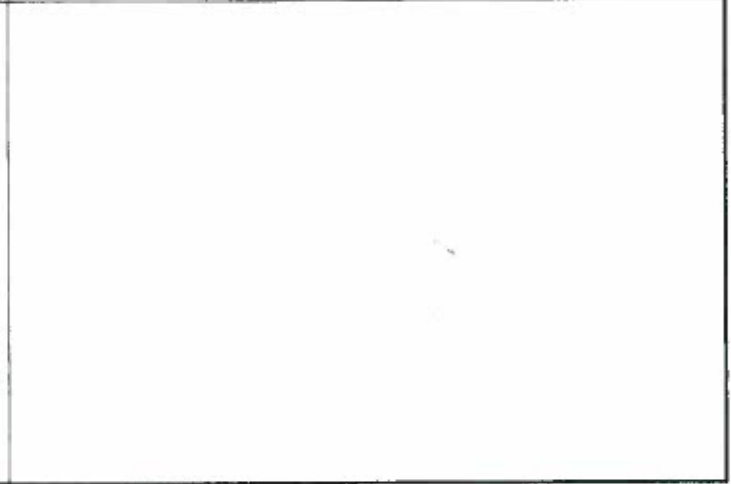


CRNS-4

CRNS-4



CRNS-4



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**CRN6**

Technical Description: Alter-Type Rain Gauge Wind Screen  
Manufacturer: NOVA LYNX  
Model: 260-952  
Serial Number: N/A  
<http://www.novalynx.com/260-952.html>

**CPH6**

Название: Ветряная защита для осадкомера  
Фирма-производитель: NOVA LYNX  
Модель: 260-952  
Серийный номер: -  
Страна-производитель: США  
<http://www.novalynx.com/260-952.html>

CRN Box 6

5 233lb 106.7x61x45.7cm (42x24x18in)

Contents of CRN Box 6 in the box



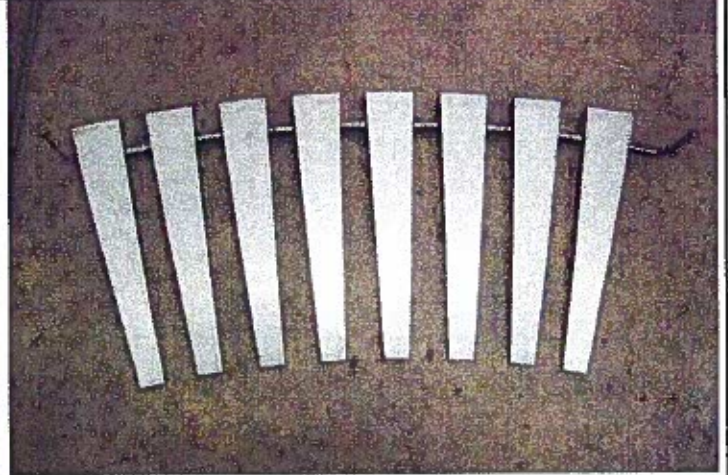
Outside of CRN Box 6



Outside of CRN Box 6



CRN6-1



CRN6-1



CRN6-2



CRN6-3 & CRN6-7



CRN6-4

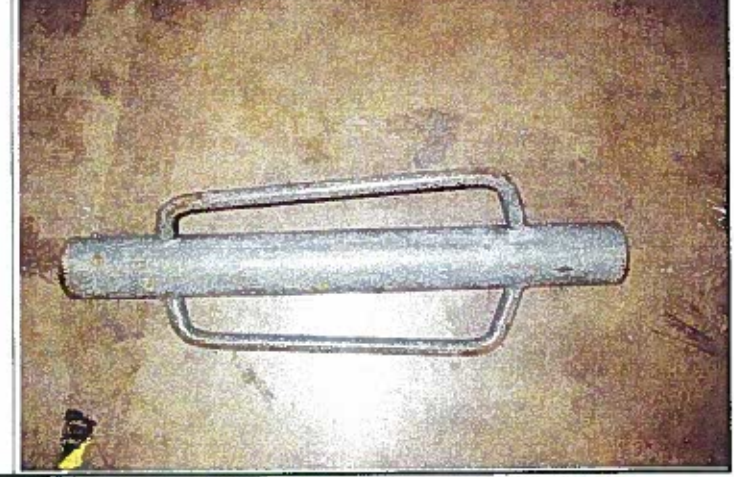


CRN6-5



Rags

CRN6-6



CRN Box 7  
7 181b

Contents of CRN Box 7 in the box



Outside of CRN Box 7



Outside of CRN Box 7



CRN7-1



CRN7-2



CRN7-3



CRN7-4



CRN7-5



CRN7-6



CRN7-7



CRN7-8



CRN7-9



CRN7-10

CRN7-11

CRN7-10



CRN7-11



CRN7-12



CRN7-13



CRN7-14

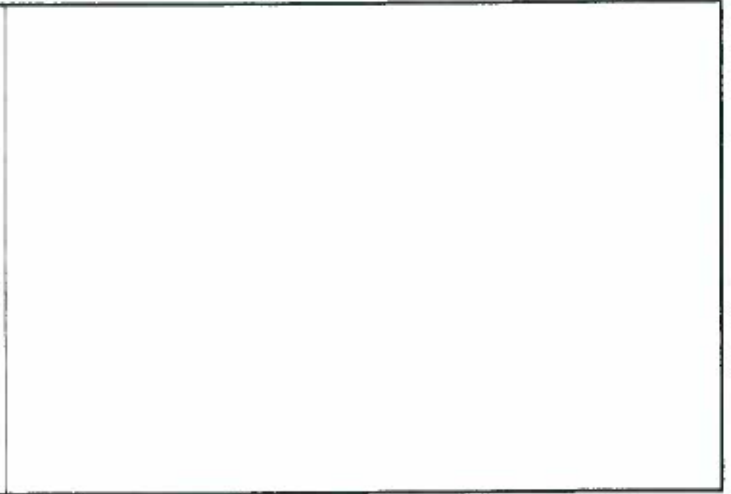


CRN7-15



CRN7-16

CRN7-16





BOX	Group	Contents	Serial/CD Numbers	KG	
N коробки	N предмета	Название предмета	Индивидуальные характеристики	Вес	
		Название предмета	Название предмета		
FLUX1	FLUX1-1	Dell computer	Компьютер Dell	CD0001611801 and 6SK95J1	8.16
	FLUX1-2	Dell monitor	Монитор Dell	CN-0C182J-74445-94G-608S	6.35
	FLUX1-3	Mybook 1TB Harddrive	Жесткий диск Mybook 1TB	WCAU49299155	1.49
	FLUX1-4	Keyboard	Клавиатура	N/A	0.00
	FLUX1-5	Mouse	Компьютерная мышь	N/A	0.00
	FLUX1-6	Computer power cord	Компьютерный силовой кабель	N/A	0.00
	FLUX1-7	Installation CDs	установочный диск	N/A	0.00
		Total box		N/A	1.28
	FLUX1-8	Black cable w/ 2 serial ports (8)	Кабель черный с 2мя серийными портами (8)	N/A	0.00
	FLUX1-9	Serial ports with out cable (16)	Интерфейсные кабели (16)	N/A	0.00
	FLUX1-10	Test plug (2)	RS232 интерфейс (2)	N/A	0.00
	FLUX1-11	SEALEVEL software CDs (2)	програмное обеспечение CD SEALEVEL	N/A	0.00
		Total box		N/A	2.27
	FLUX1-12	Blue ethernet cable	Кабель для ethernet, синий	N/A	0.14
		TOTAL	ВСЕГО		23.59
FLUX2	Flux2-1	Aspirated housings (7)	Аспирационные будки (7)	323, 305, 218, 325, 3 w/out ID	15.88
		TOTAL	ВСЕГО		15.88
					0.00
FLUX3	Flux3-1	R.M. Young Wind Vanes Box Totals	Флюгеры R.M. Young	94404, 94802, 94405, 94406	3.18
	Flux3-2	Vaisala HMP155 T/RH probe (2)	Датчики температуры и влажности Vaisala HMP155 (2)	E0610015, E0610016	0.16
	Flux3-3	DTR503A Vaisala Sun Shield (2)	Защита от прямых солнечных лучей DTR503A Vaisala (2)	E144	0.53
	Flux3-4	Radiometer Ventilators (2)	Вентилятор для радиометра (2)	V6-746, VG-745	2.27
	Flux3-5	Pyranometer	Пиранометр	35829F3	3.97
	Flux3-6	Pyrgeometer	Пиргеометр	35765F3	4.08
		Total cable box	Кабель		1.85
	Flux3-7	HFP01 Hukesflux plates and cable	Датчик температуры почвы HFP01 Hukesflux	SoilA 003507, SoilB 003502	0.16
	Flux3-8	Campbell SR50-A snow depth sensor	Измеритель высоты снежного покрова Campbell SR50-A	2233	0.78
	Flux3-9	Apogee IR-T Cable	Измеритель для инфракрасного излучения Apogee	SI-111	0.22
	Flux3-10	TCAV-L Campbell soil avg. temp. RTD	Датчик температуры почвы TCAV-L Campbell	234378	0.02
	Flux3-11	Data logger	Накопитель данных	N/A	5.22
		TOTAL	ВСЕГО		34.02
FLUX4	Flux4-1	LI-7500 LiCor H2O/CO2 Analyzer	Анализатор H2O/CO2 LI-7500 LiCor	CD0001611799 SN: 75B-1694	4.54
	Flux4-2	RM Young direction calibrator	Измеритель направления ветра RM Young	N/A	0.36
	Flux4-3	Campbell CR10x Data logger	Накопитель данных Campbell CR10x	34096 (warning panel #), 9346	13.61
		TOTAL	ВСЕГО		19.96

FLUX5	Flux5-1	Cable ties 7.50"	Пластмассовые стяжки	N/A	0.38
	Flux5-2	Cable ties 14.50"	Пластмассовые стяжки	N/A	0.00
	Flux5-3	Cobra CXR900 2-way radio (2)	2 радио Cobra CXR900 (2)	R909010823	0.52
	Flux5-4	2-way radio charger	Зарядное устройство для радио	N/A	0.00
	Flux5-5	2-Way radio instruction manual	Инструкции по эксплуатации	N/A	0.00
	Flux5-6	2 bags mounting brackets and hardware	2 набора крепежных скобок и запчастей	N/A	2.27
	Flux5-7	1 duct tape	Лента для герметизации	N/A	0.58
	Flux5-8	SR gray tape (2)	Изоляционная лента (2)	N/A	0.00
	Flux5-9	Replacement Orion cooling fan (4)	Вентилятор Orion (4)	OA80AP-11-1WB	1.57
	Flux5-10	Aluminum pipe (1)	Алюминиевая трубка (1)	N/A	0.52
	Flux5-11	Black booms with Al base (8)	Траверсы черные с алюминиевым основанием (8)	N/A	11.34
	Flux5-12	Black booms without base (6)	Траверсы черные без основания (6)	N/A	7.26
		TOTAL	ВСЕГО		0.00
					26.76
FLUX6	Flux6-1	Heat gun	Фен	674	1.57
	Flux6-2	Circular metal mounting plates (2)	Алюминиевые круглые пластины для монтажа (2)	N/A	2.27
	Flux6-3	Triangular metal mounting plates (2)	Алюминиевые треугольные пластины для монтажа (2)	N/A	1.36
	Flux6-4	Mounting brackets (8)	Монтажные скобы (8)	N/A	4.08
	Flux6-5	Vaisala HMT337 T/RH Probes	Датчики для температуры и влажности Vaisala HMT337	A3840002	8.16
	Flux6-6	RS 232 to RS 422/485 Converter (Data Box)	Конвертер RS 232 to RS 422/485	Model 485LDRC9	7.03
	Flux6-7	EPCO metal brackets (10)	Металлические скобы EPCO (10)	N/A	0.00
	Flux6-8	Small gray metal bracket (1)	Металлические скобы серые (1)	N/A	0.00
	Flux6-9	Black metal brackets (20)	Металлические скобы черные (20)	N/A	0.00
		Box total		N/A	5.90
		TOTAL	ВСЕГО		29.48
FLUX7	Flux7-1	SAIK-3K ATI Sonic anemometer	Акустический анемометр SAIK-3K ATI	CD0001611764, 90501	0.91
	Flux7-2	Instruction Manual 090501	Инструкция по эксплуатации	N/A	0.27
	Flux7-3	Mounting Arm	Крепёж	N/A	0.74
	Flux7-4	Serial port cable	Интерфейсный кабель	N/A	1.05
		TOTAL	ВСЕГО		16.78
FLUX8	Flux8-1	SAIK-3K ATI Sonic anemometer	Акустический анемометр SAIK-3K AT	CD0001611766, 90502	0.91
	Flux8-2	Instruction Manual 090502	Инструкция по эксплуатации	N/A	0.27
	Flux8-3	Mounting Arm	Крепёж	N/A	0.74
	Flux8-4	Serial port cable	Интерфейсный кабель	N/A	1.05
		TOTAL	ВСЕГО		16.78
FLUX9	Flux9-1	SAIK-3K ATI Sonic anemometer	Акустический анемометр SAIK-3K AT	CD0001611765, 90503	0.91
	Flux9-2	Instruction Manual 090503	Инструкция по эксплуатации	N/A	0.27
	Flux9-3	Mounting Arm	Крепёж	N/A	0.74
	Flux9-4	Serial port cable	Интерфейсный кабель	N/A	1.05

		TOTAL	ВСЕГО		16.78
FLUX10	Flux10-1	LI-7500 LiCor Head (CO2/H2O Gas analyzer)	Датчик анализатора газов LI-7500 LiCor	75H-1694	0.73
	Flux10-2	3 bags LiCor mounting hardware	набор крепежей LiCor (3)	N/A	0.59
	Flux10-3	LiCor instruction manual	инструкция по эксплуатации	N/A	0.28
	Flux10-4	LiCor Black Box	Фотография всего ящика	N/A	2.95
	Flux10-5	7 NOAA decals	НОАА наклейки (7)	N/A	0.05
	Flux10-6	Bag of bolts	Набор болтов	N/A	0.27
	Flux10-7	14 mounting brackets	Крепежные скобы (14)	N/A	6.69
	Flux10-8	NM-91 Anti-Sieze	Смазочное масло NM-91	N/A	0.29
	Flux10-9	Entire box of decals, brackets and bolts	Фотография всего ящика	N/A	8.39
		TOTAL	ВСЕГО		12.70
FLUX11	Flux11-1	Foam insulation for data logger (8)	Поролоновая прокладка для накопителя данных (8)	N/A	0.30
		White wires with 2 ports (15)	Интерфейсные провода белые (15)	(PSP, PIR, 30ft RTD (3), Soil probe, 20ft RTD, Soil A, Soil B, T/RH, 40ft RTD (3), Snow, Switch	7.26
	Flux11-2				
	Flux11-3	Black cable with yellow plugs (2)	Интерфейсные провода черные (2)	N/A	1.81
		Yellow cable with plug and port (5)	Интерфейсные провода желтые (5)	Data 485, LiCor, Vaisala T/RH, Campbell data logger, DAQ Data	3.18
	Flux11-4				
	Flux11-5	Long gray wire with a large and small port (2)	Интерфейсные провода серые (2)	HUM01, HUM02	0.82
	Flux11-6	White wire with yellow plug and port (7)	Интерфейсные провода белые (7)	N/A	2.27
	Flux11-7	Blue IR-T wire with 2 ports (1)	Интерфейсные провода синие (1)	N/A	0.45
		Brown TCAV wire with 2 ports (1)	Интерфейсные провода для павильона чистого воздуха (1)	N/A	0.29
	Flux11-8				
	Flux11-9	Gray wire with serial ports in bag (6)	Интерфейсные провода серые (6)	N/A	0.76
	Flux11-10	Gray wire with serial port	Интерфейсные провода серые	N/A	0.22
	Flux11-11	Black serial ports (3) orange serial ports (3)	Интерфейсные провода черные (3)	N/A	0.13
	Flux11-12	Long yellow wire, long gray wire in bag	Интерфейсные провода желтый и серый	N/A	0.45
		Blue campbell wire with port (1) and small wire (8)	Интерфейсные провода синий (1) и небольшие (8)	N/A	0.20
		TOTAL	ВСЕГО		19.50
FLUX12	Flux12-1	MRC Soil probe	Датчик температуры почвы MRC	N/A	1.59
		TOTAL	ВСЕГО		3.40

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**FLUX 1**

Technical Description: Desktop PC  
Manufacturer: DELL  
Model: Optiplex 360  
Serial Number: 6SK95J1  
Country of Origin: USA

Technical Description: External Hard drive 1TB  
Manufacturer: Western Digital  
Model: My Book Essential Edition 2.0  
Serial Number: WCAU49299155  
Country of Origin: USA

<http://www.wdc.com/en/products/products.asp?driveid=728>

**ПОТОК1**

Название: Персональный компьютер  
Фирма-производитель: DELL  
Модель: Optiplex 360  
Серийный номер: 6SK95J1  
Страна-производитель: США

Название: Внешний жесткий диск 1TB  
Фирма-производитель: Western Digital  
Модель: My Book Essential Edition 2.0  
Серийный номер: WCAU49299155  
Страна-производитель: США

<http://www.wdc.com/en/products/products.asp?driveid=728>

Поток Проект - Flux Project  
(FLUX)

FLUX Box 1 Поток Коробка-1  
1 23.59kg (52lb) 50.8x50.8x50.8cm (20x20x20in)

Contents of FLUX Box 1 in the box



Outside of FLUX Box 1



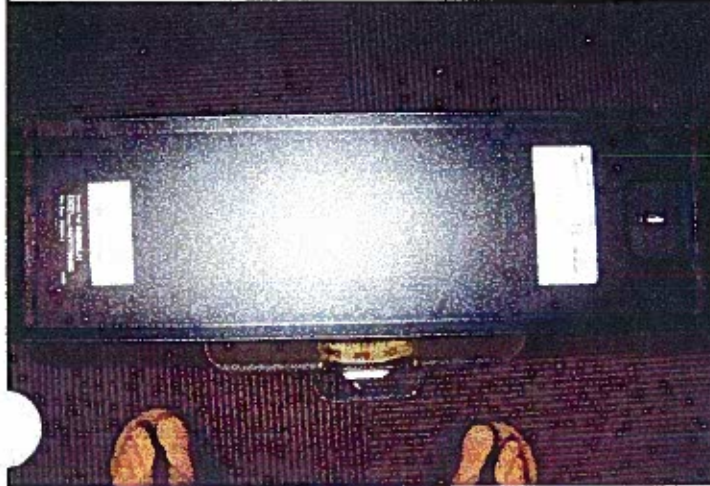
Outside of FLUX Box 1



FLUX1-1



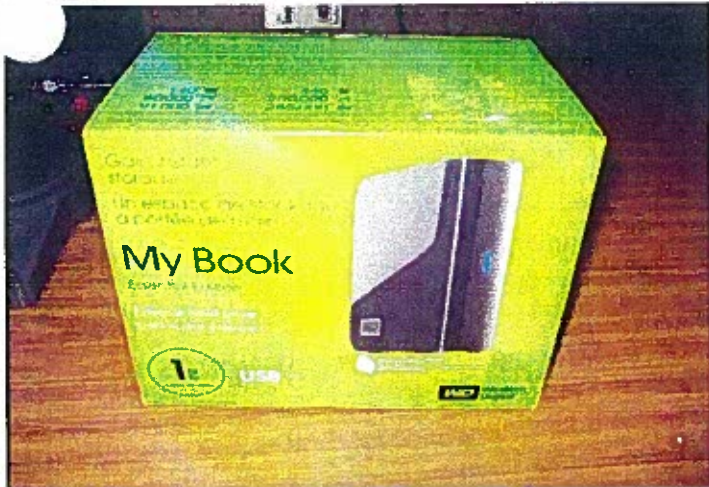
FLUX1-1



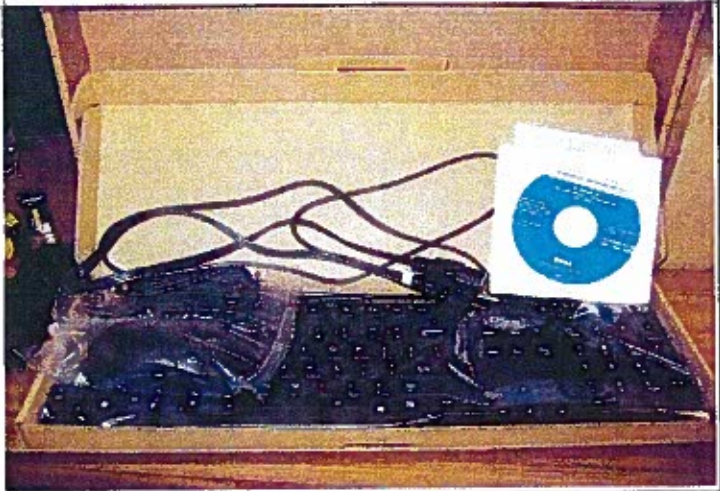
FLUX1-2



FLUX1-3



FLUX1-4 & FLUX1-5 & FLUX1-6 & FLUX1-7



FLUX1-4 & FLUX1-5 & FLUX1-6 & FLUX1-7



FLUX1-8 & FLUX1-9 & FLUX1-10 & FLUX1-11



FLUX1-8 & FLUX1-9 & FLUX1-10 & FLUX1-11



FLUX1-12



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**FLUX2**

**Technical Data:**

**Aspirator housings (reconditioned)**

**ПОТОК2**

**Аспирационные будки ( не новые, отремонтированные)**

FLUX Box 2  
2 15.88kg (35lb) 50.8x48.26x40.64cm (20x19x16)

Contents of FLUX Box 2 in the box



Outside of FLUX Box 2



Outside of FLUX Box 2



FLUX2-1





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**FLUX3**

**Technical Description:** Wind vane (4)  
**Manufacturer:** R M Young  
**Model:** 5103  
**Serial Number:** 94404, 94405, 94406, 94802  
**Country of Origin:** USA  
<http://www.youngusa.com/products/7/5.html>

**Technical Description:** Vaisala T/RH probes (2)  
**Manufacturer:** Vaisala  
**Model:** HMP-155  
**Serial Number:** E0610015, E0610016  
**Country of Origin:** Finland  
<http://www.vaisala.com/instruments/products/hm-hmp155.html>

**Technical Description:** Radiations shield ventilators (2)  
**Manufacturer:** Eppley  
**Model:** VEN  
**Serial Number:** V6-745, V6-746  
**Country of Origin:** USA  
<http://www.eppleylab.com/FrmInstrumentation.htm>

**Technical Description:** Pyrgeometer  
**Manufacturer:** Eppley  
**Model:** PIR  
**Serial Number:** 35765F3  
**Country of Origin:** USA  
<http://www.eppleylab.com/PrdPrecInfRadmtr.htm>

**Technical Description:** Pyranometer  
**Manufacturer:** Eppley  
**Model:** PSP  
**Serial Number:** 35829F3  
**Country of Origin:** USA  
<http://www.eppleylab.com/FrmInstrumentation.htm>

**Technical Description:** Flux plate (2)  
**Manufacturer:** Hukseflux  
**Model:** HFP01  
**Serial Number:** 3502, 3507  
**Country of Origin:** USA  
<http://www.hukseflux.com/products/heatFlux/hfp01.html>

Technical Description: Snow depth sensor  
Manufacturer: Campbell  
Model: SR50-A  
Serial Number: 2233  
Country of Origin: USA  
<http://www.campbellsci.com/sr50a>

Technical Description: IR sensors  
Manufacturer: Apogee  
Model: SI-111  
Serial Number: 2233  
Country of Origin: USA  
[http://www.apogee-inst.com/infrared\\_temperature\\_sensors.htm](http://www.apogee-inst.com/infrared_temperature_sensors.htm)

Technical Description: Averaging soil thermocouple probe  
Manufacturer: Campbell  
Model: TCAV-L  
Serial Number: 234378  
Country of Origin: USA  
<http://www.campbellsci.com/tcav-l>

ПОТОКЗ  
Название: Флюгер (4)  
Фирма-производитель: R M Young  
Модель: 5103  
Серийный номер: 94404, 94405, 94406, 94802  
Страна-производитель: США  
<http://www.youngusa.com/products/7/5.html>

Название: Датчики температуры и влажности (2)  
Фирма-производитель: Vaisala  
Модель: HMP-155  
Серийный номер: E0610015, E0610016  
Страна-производитель: Финляндия  
<http://www.vaisala.com/instruments/products/hm-hmp155.html>

Название: Защита от прямых солнечных лучей (2)  
Фирма-производитель: Eppley  
Модель: VEN  
Серийный номер: V6-745, V6-746  
Страна-производитель: США  
<http://www.eppleylab.com/FrmInstrumentation.htm>

Название: Пиргеометр  
Фирма-производитель: Eppley  
Модель: PIR  
Серийный номер: 35765F3  
Страна-производитель: США  
<http://www.eppleylab.com/PrdPreInfRadmtr.htm>

Название: Пиранометр

Фирма-производитель: Eppley  
Модель: PSP  
Серийный номер: 35829F3  
Страна-производитель: США  
<http://www.eppleylab.com/FrmlInstrumentation.htm>

Название: Датчик температуры почвы (2)  
Фирма-производитель: Hukseflux  
Модель: HFP01  
Серийный номер: 3502, 3507  
Страна-производитель: США  
<http://www.hukseflux.com/products/heatFlux/hfp01.html>

Название: Измеритель высоты снежного покрова  
Фирма-производитель: Campbell  
Модель: SR50-A  
Серийный номер: 2233  
Страна-производитель: США  
<http://www.campbellsci.com/sr50a>

Название: Измеритель для инфракрасного излучения  
Фирма-производитель: Apogee  
Модель: SI-111  
Серийный номер: 2233  
Страна-производитель: США  
[http://www.apogee-inst.com/infrared\\_temperature\\_sensors.htm](http://www.apogee-inst.com/infrared_temperature_sensors.htm)

Название: Датчик температуры почвы  
Фирма-производитель: Campbell  
Модель: TCAV-L  
Серийный номер: 234378  
Страна-производитель: США  
<http://www.campbellsci.com/tcav-l>

FLUX Box 3

3 34.02kg (75lb)

Contents of FLUX Box 3 in the box



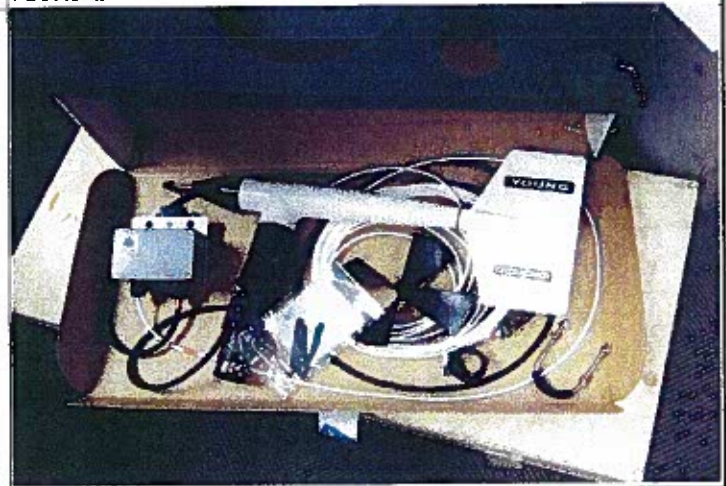
Outside of FLUX Box 3



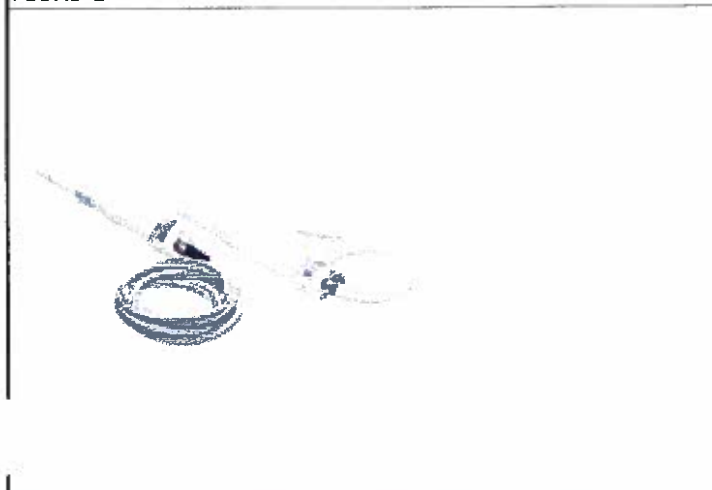
Outside of FLUX Box 3



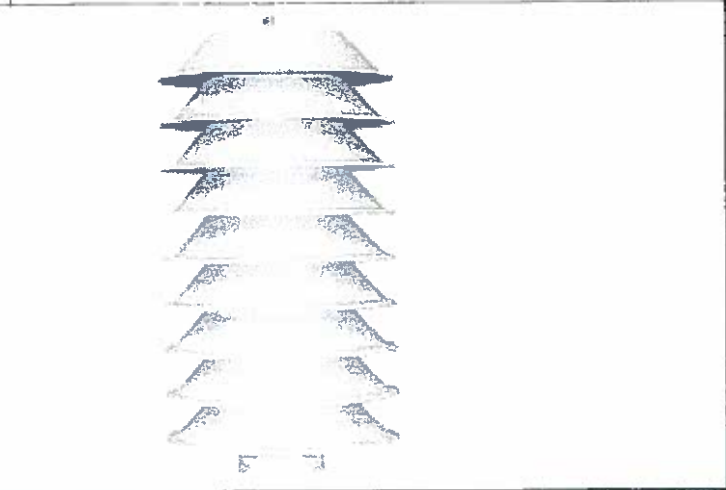
FLUX3-1



FLUX3-2



FLUX3-3



FLUX3-4



FLUX3-4



FLUX3-4



FLUX3-5



FLUX3-5



FLUX3-6



FLUX3-6

FLUX3-7

FLUX 3-6



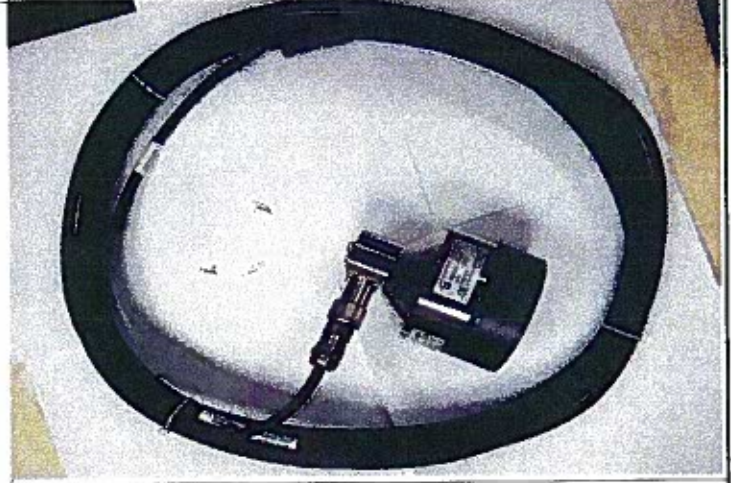
FLUX 3-7



FLUX3-7



FLUX3-8



FLUX3-9



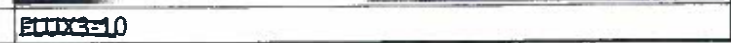
FLUX3-9



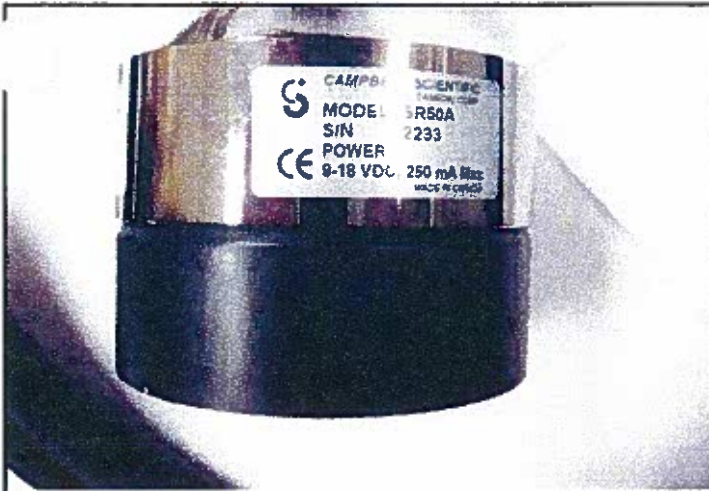
FLUX3-8



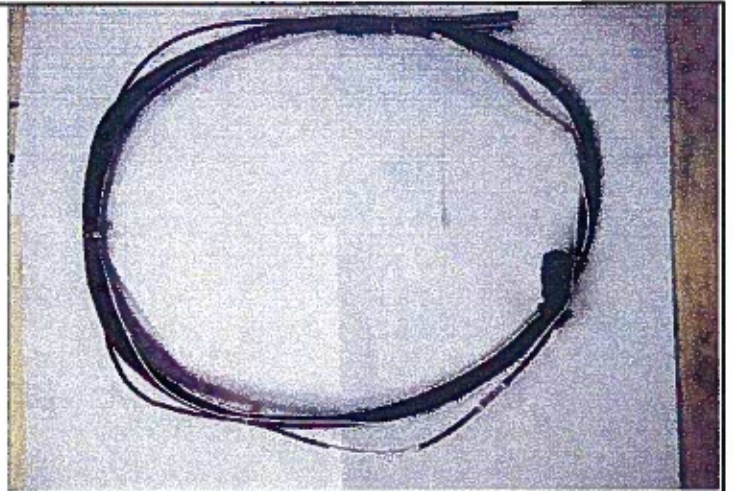
FLUX3-10



FLUX 3-8



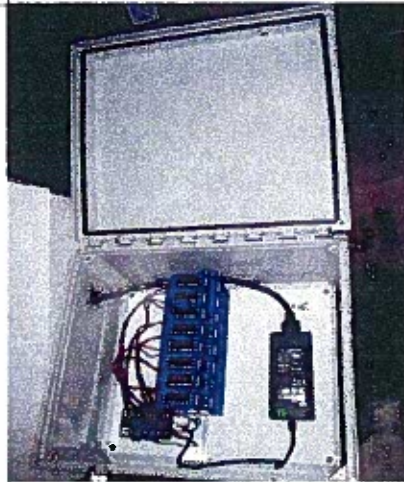
FLUX 3-10



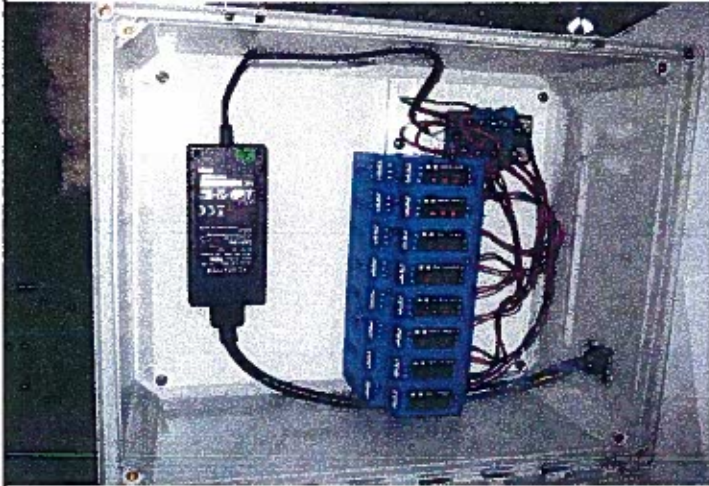
FLUX3-11



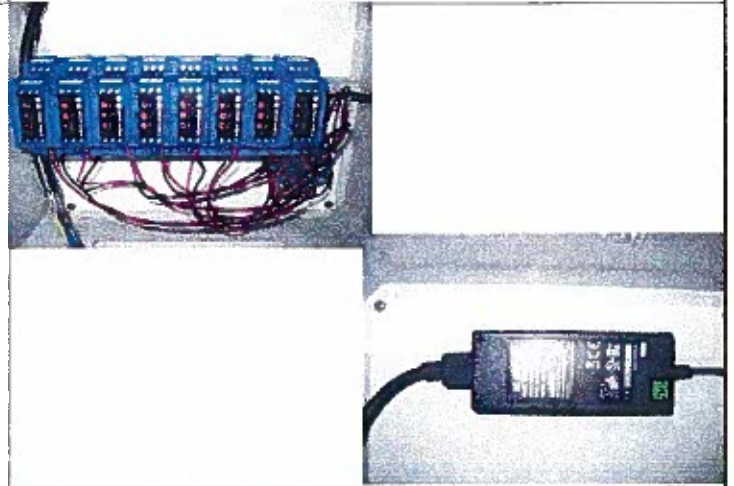
FLUX3-11



FLUX3-11



FLUX3-11



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**FLUX4**

Technical Description: CO<sub>2</sub>/H<sub>2</sub>O sensor  
Manufacturer: LiCor  
Model: LI-7500  
Serial Number: 75B-1694 (Electronic box)  
Country of Origin: USA  
<http://www.licor.com/env/Products/GasAnalyzers/7500/7500.jsp>

Technical Description: Wind Vane Angle Bench Stand  
Manufacturer: RM Young  
Model: 18112  
Serial Number: N/A  
Country of Origin: USA  
<http://www.youngusa.com/products/5/37.html>

Technical Description: Data logger  
Manufacturer: Campbell  
Model: CR10x  
Serial Number: 34096, 9346  
Country of Origin: USA  
<http://www.campbellsci.com/cr10x>

**ПОТОК 4**

Название: Измеритель концентрации CO<sub>2</sub>/H<sub>2</sub>O  
Фирма-производитель: LiCor  
Модель: LI-7500  
Серийный номер: 75H-1694 на коробке  
Страна-производитель: США  
<http://www.licor.com/env/Products/GasAnalyzers/7500/7500.jsp>

Название: Измеритель направления ветра  
Фирма-производитель: RM Young  
Модель: 18112  
Серийный номер: -  
Страна-производитель: США  
<http://www.youngusa.com/products/5/37.html>

Название: Накопитель данных  
Фирма-производитель: Campbell  
Модель: CR10x  
Серийный номер: # на панели 34096, 9346  
Страна-производитель: США  
<http://www.campbellsci.com/cr10x>



FLUX Box 4

± 19.96kg (44lb) 50.8x50.8x50.8cm (20x20x20in)

Contents of FLUX Box 4 in the box

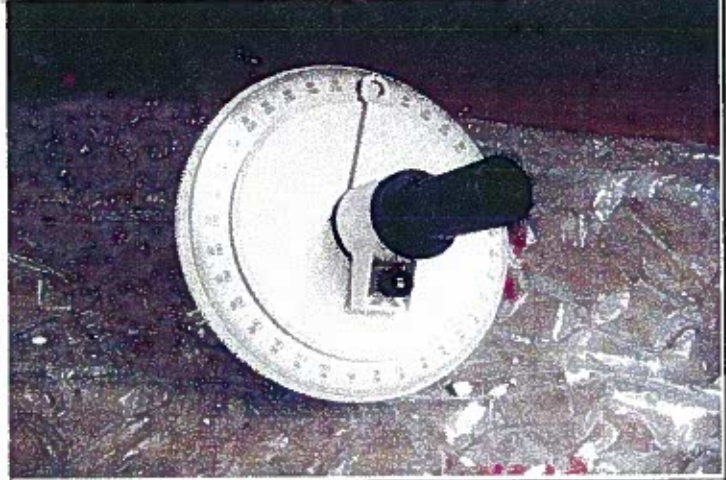
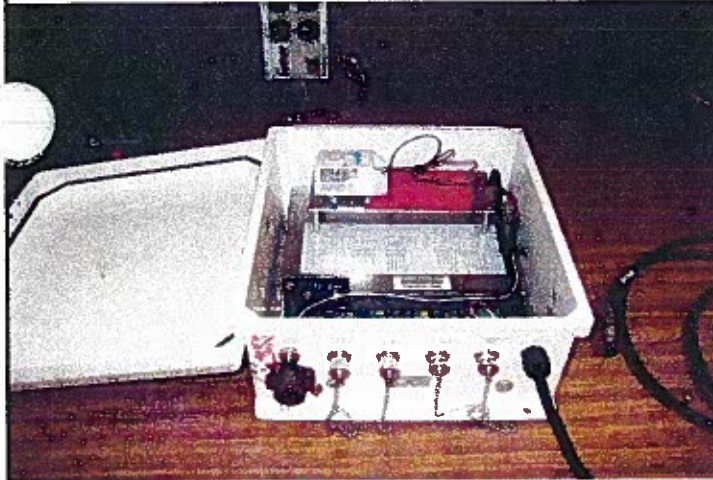


Outside of FLUX Box 4



FLUX4-1

FLUX4-2



FLUX4-3

FLUX4-3



EX4-3



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## FLUX5

Technical Description: 2-way Radios  
Manufacturer: Cobra  
Model: CXR900  
Serial Number: R90901823  
Country of Origin: USA  
[http://www.cobra.com/index.cfm?fuseaction=product.display&product\\_ID=468](http://www.cobra.com/index.cfm?fuseaction=product.display&product_ID=468)

## ПОТОКИ 5

Название: Радио  
Фирма-производитель: Cobra  
Модель: CXR900  
Серийный номер: R90901823  
Страна-производитель: США  
[http://www.cobra.com/index.cfm?fuseaction=product.display&product\\_ID=468](http://www.cobra.com/index.cfm?fuseaction=product.display&product_ID=468)

FLUX Box 5

5 26.8kg (59lb) 76.2x60.96x30.48cm (30x24x12in)

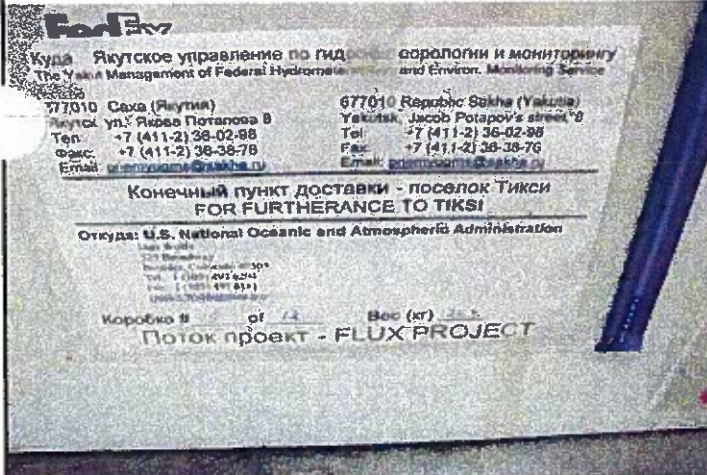
Contents of FLUX Box 5 in the box



Outside of FLUX Box 5



Outside of FLUX Box 5



FLUX5-1 & FLUX5-2



FLUX5-3 & FLUX5-4 & FLUX5-5



FLUX3-6



FLUX5-7 & FLUX5-8



FLUX5-9



FLUX5-10



FLUX5-11



FLUX5-12



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## FLUX6

Technical Description: Temperature RH sensor  
Manufacturer: Vaisala  
Model: HMT-337  
Serial Number: A3840002  
Country of Origin: USA  
<http://www.vaisala.com/weather/products/hmt337.html>

Technical Description: RS 232 to RS 422/485 Converter  
Manufacturer: B&B Electronics  
Model: 485LDRC9  
Serial Number: -  
Country of Origin: USA

<http://search.bb-elec.com/?s=&q=485ldrc9>

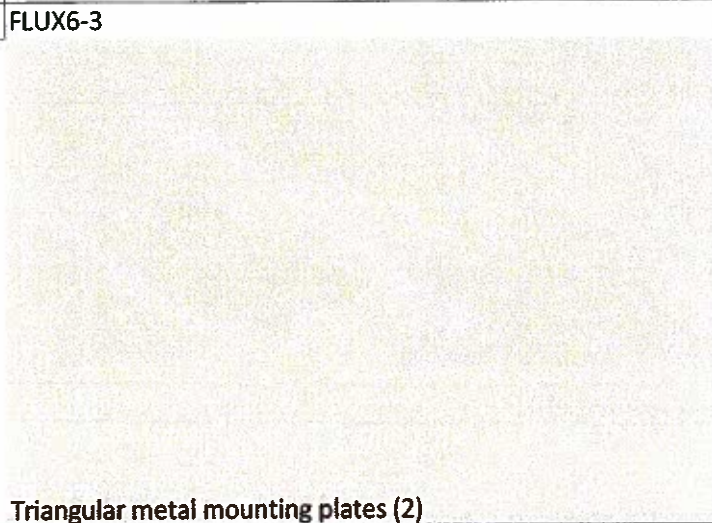
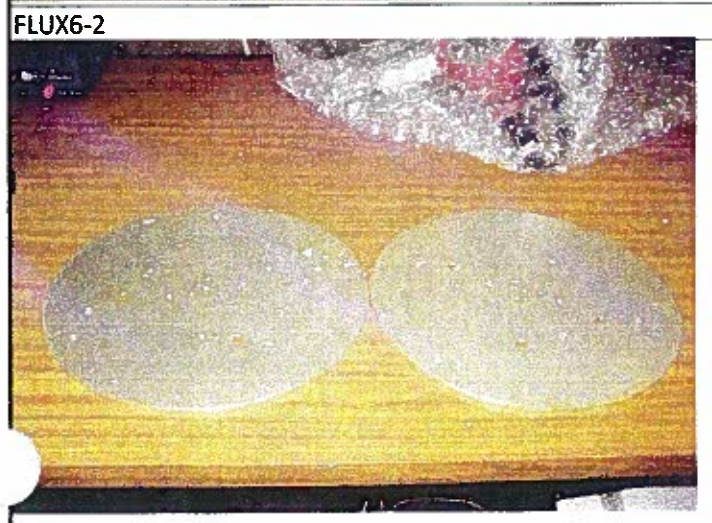
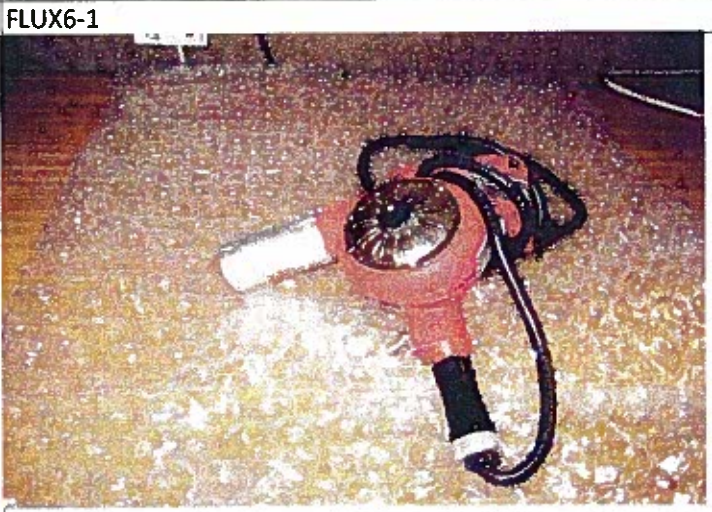
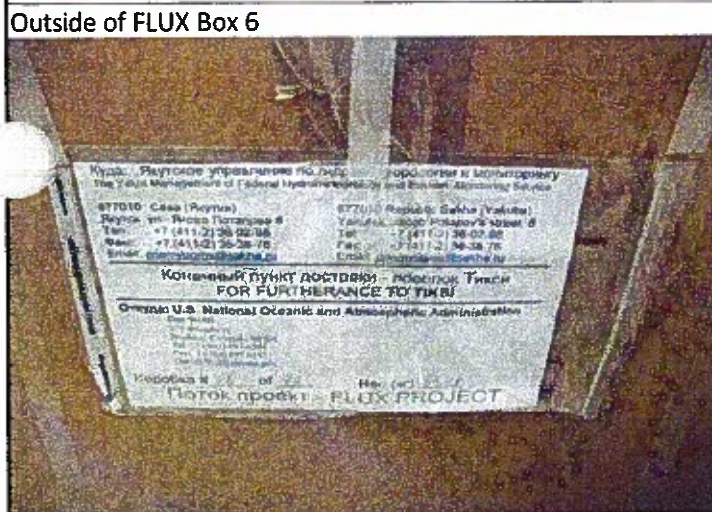
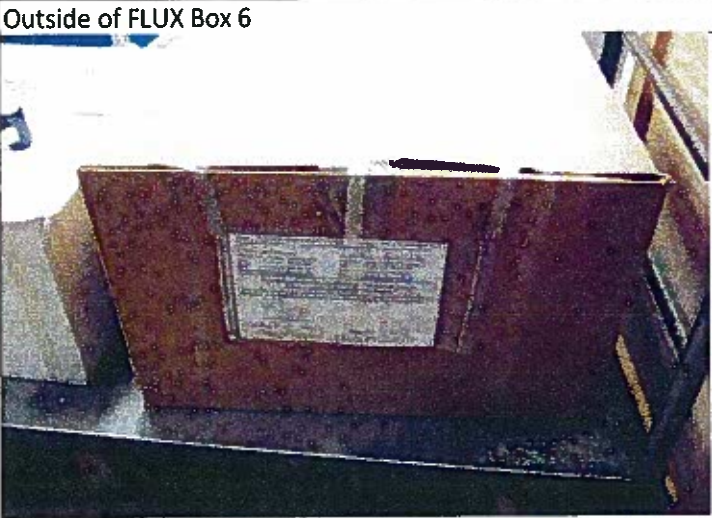
## ПОТОК 6

Название: Датчик для температуры и влажности  
Фирма-производитель: Vaisala  
Модель: HMT-337  
Серийный номер: A3840002  
Страна-производитель: США  
<http://www.vaisala.com/weather/products/hmt337.html>

Название: Конвертер RS 232 в RS 422/485  
Фирма-производитель: B&B Electronics  
Модель: 485LDRC9  
Серийный номер: -  
Страна-производитель: США

<http://search.bb-elec.com/?s=&q=485ldrc9>

FLUX Box 6  
5 29.48kg (65lb) 60.96x60.96x40.64cm (24x24x16in)



Triangular metal mounting plates (2)

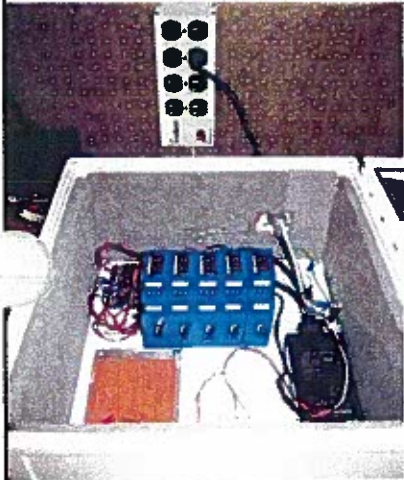
FLUX6-4



FLUX6-5



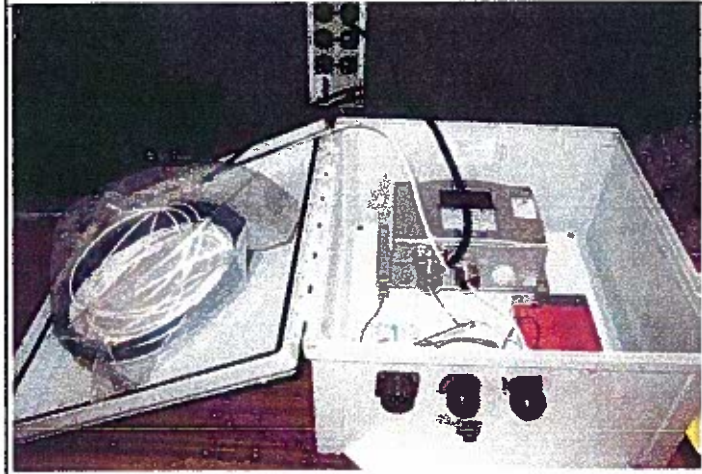
FLUX6-6



FLUX6-6



FLUX6-6



FLUX6-7



FLUX6-8 & FLUX6-9

FLUX6-7 & FLUX6-8 & FLUX6-9



~~FLUX~~ FLUX 6-8 AND FLUX 6-9

FLUX 6-7 + FLUX 6-8 + FLUX 6-



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**FLUX 7, FLUX 8, FLUX9**

<b>Technical Description:</b>	<b>Sonic anemometers</b>
<b>Manufacturer:</b>	<b>ATI</b>
<b>Model:</b>	<b>SAIK-3K</b>
<b>Serial Number:</b>	<b>9501, 9502, 9503</b>
<b>Country of Origin:</b>	<b>USA</b>

<http://www.apptech.com/kprobe.html>

[http://www.eol.ucar.edu/isf/facilities/isff/sensors/ati/sat\\_td.pdf](http://www.eol.ucar.edu/isf/facilities/isff/sensors/ati/sat_td.pdf)

**ПОТОК 7, ПОТОК 8, ПОТОК 9**

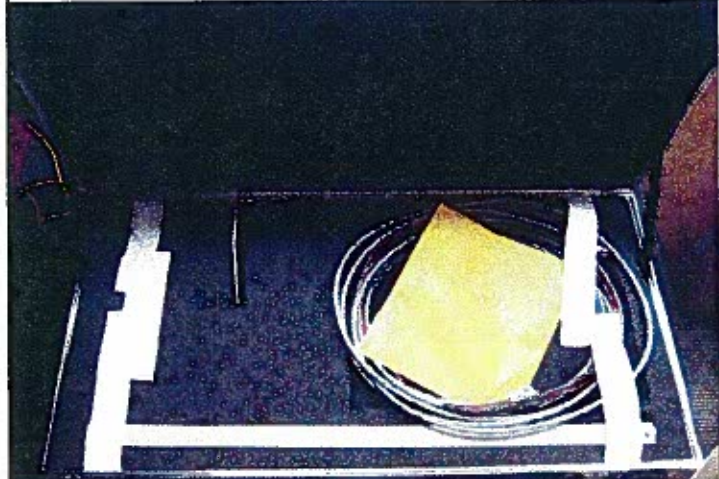
<b>Название:</b>	<b>Акустической анемометр</b>
<b>Фирма-производитель:</b>	<b>ATI</b>
<b>Модель:</b>	<b>SAIK-3K</b>
<b>Серийный номер:</b>	<b>9501, 9502, 9503</b>
<b>Страна-производитель:</b>	<b>США</b>

<http://www.apptech.com/kprobe.html>

[http://www.eol.ucar.edu/isf/facilities/isff/sensors/ati/sat\\_td.pdf](http://www.eol.ucar.edu/isf/facilities/isff/sensors/ati/sat_td.pdf)

FLUX Boxes 7, 8, 9  
7 16.78kg (37lb) 88.9x48.26x33.02cm (35x19x13in) each

Contents inside Box 7, 8, 9



Outside of FLUX Box 7



Outside of FLUX Box 7



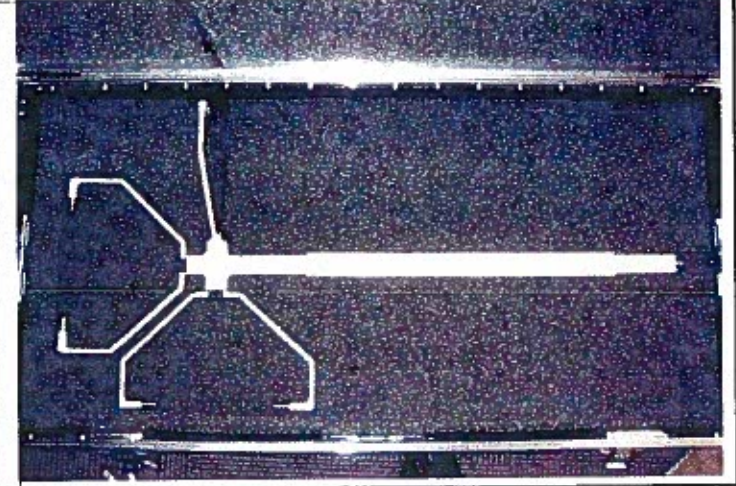
Outside of FLUX Box 8



Outside of FLUX Box 9



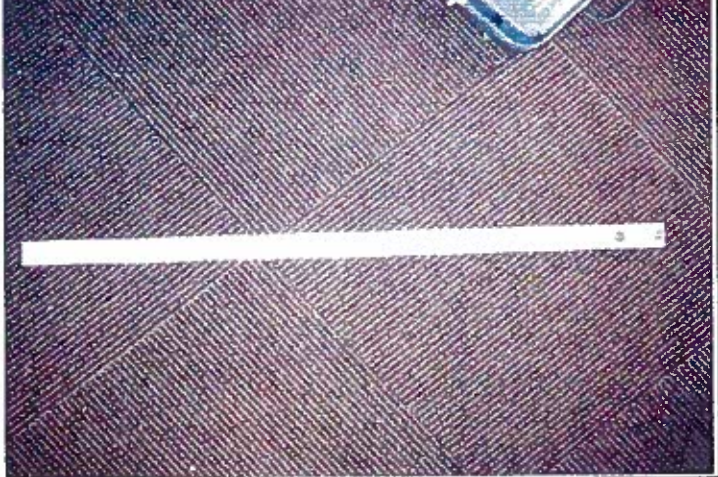
FLUX7-1, Flux8-1, Flux9-1



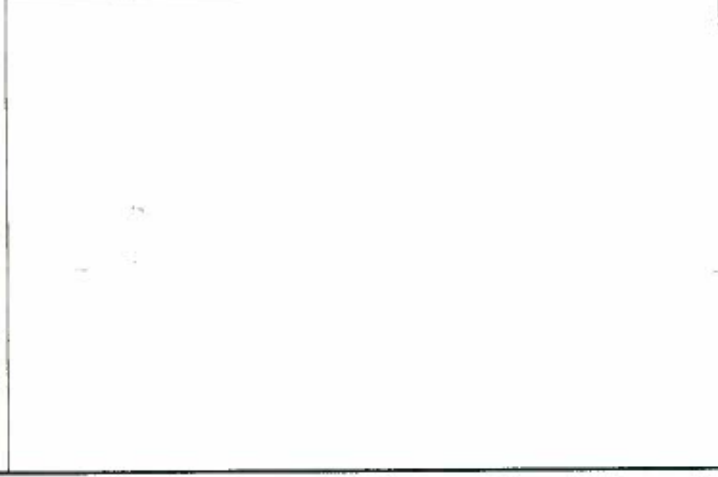
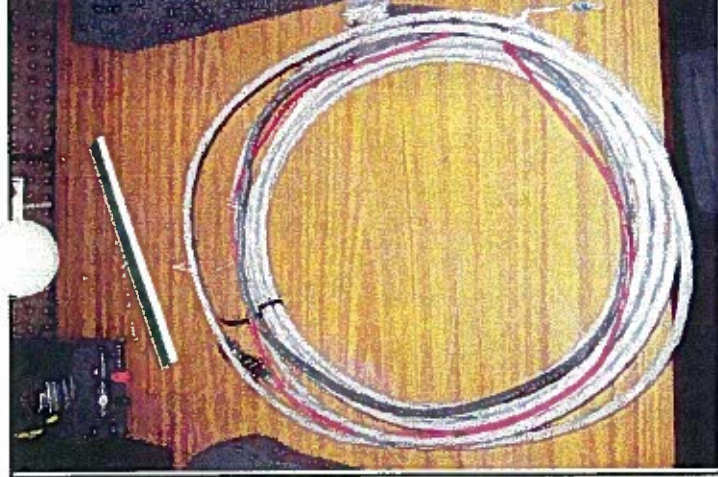
FLUX7-2, Flux8-2, Flux9-2



FLUX7-3, Flux8-3, Flux9-3



FLUX7-4, Flux8-4, Flux9-4



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**FLUX10**

Technical Description: CO2/H2O sensor  
Manufacturer: LiCor  
Model: LI-7500  
Serial Number: 75H-1694 (Sensor head)  
Country of Origin: USA

<http://www.licor.com/env/Products/GasAnalyzers/7500/7500.jsp>

**ПОТОК 10**

Название: Измеритель концентрации CO2/H2O  
Фирма-производитель: LiCor  
Модель: LI-7500  
Серийный номер: 75H-1694  
Страна-производитель: США

<http://www.licor.com/env/Products/GasAnalyzers/7500/7500.jsp>

FLUX Box 10

10 12.7kg (28lb)

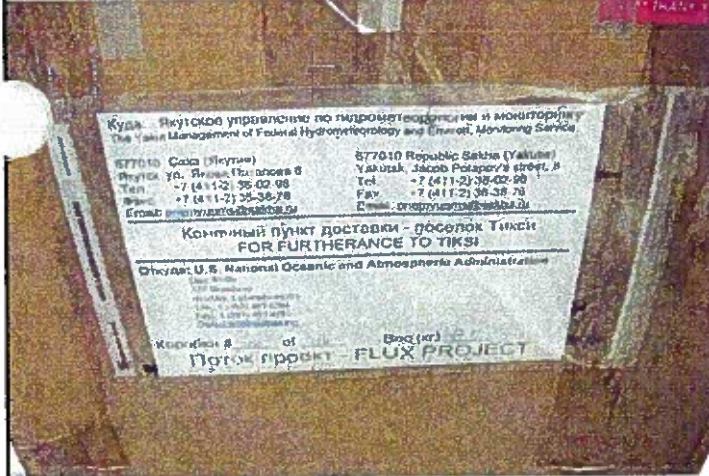
Contents of FLUX Box 10 in the box



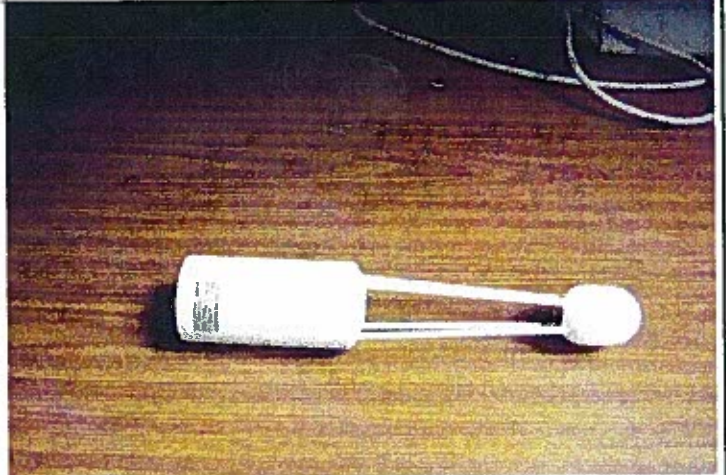
Outside of FLUX Box 10



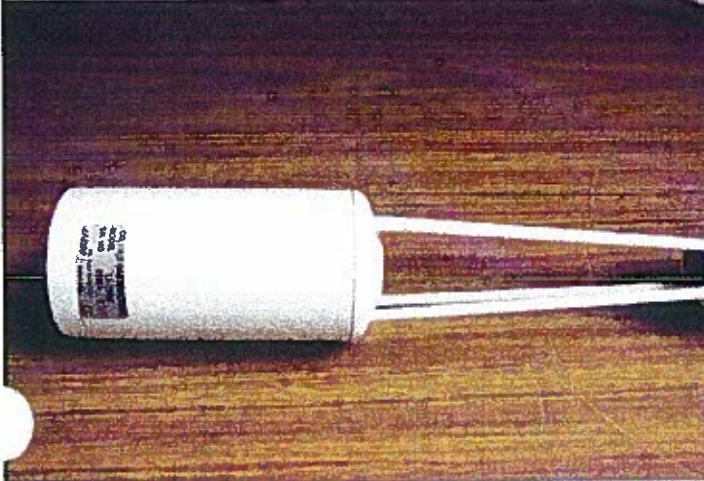
Outside of FLUX Box 10



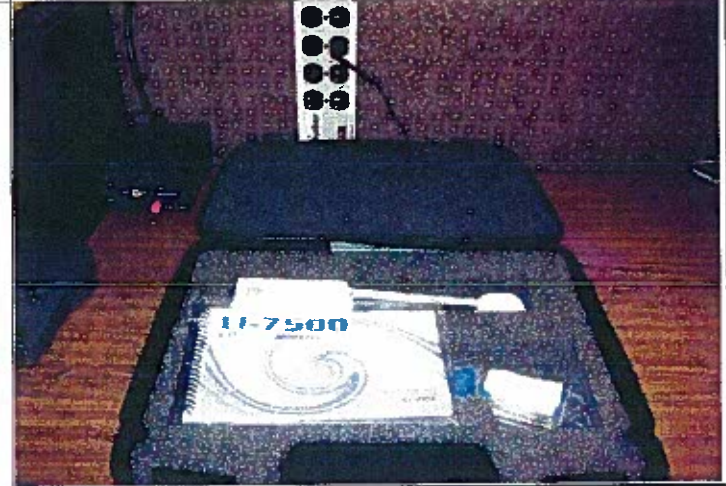
FLUX10-1



FLUX10-1



FLUX10-1



FLUX10-2



FLUX10-3



FLUX10-4 (items 1-3 in the black box)



FLUX10-5



FLUX10-6



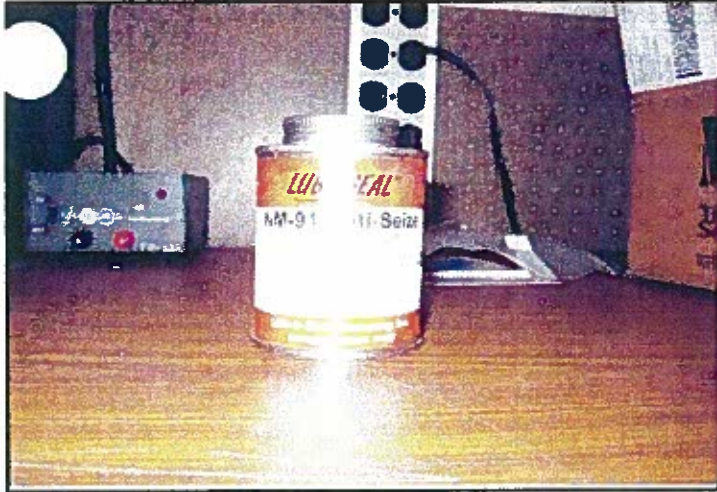
FLUX10-7



FLUX10-8

FLUX10-9 (items 5 - 8 in a box)

FLUX 10-8



FLUX 10-9 (items 5-8 in box)





**FLUX Box 11**

11 19.5kg (43lb) 45.72x45.72x50.8cm (18x18x20in)

**Contents of FLUX Box 11 in the box**



**Outside of FLUX Box 11**



**Outside of FLUX Box 11**



**FLUX11-1**



**FLUX11-2**



**FLUX11-3**



FLUX11-4



FLUX11-5



FLUX11-6



FLUX11-7



FLUX11-8



FLUX11-9



FLUX11-10



FLUX11-11



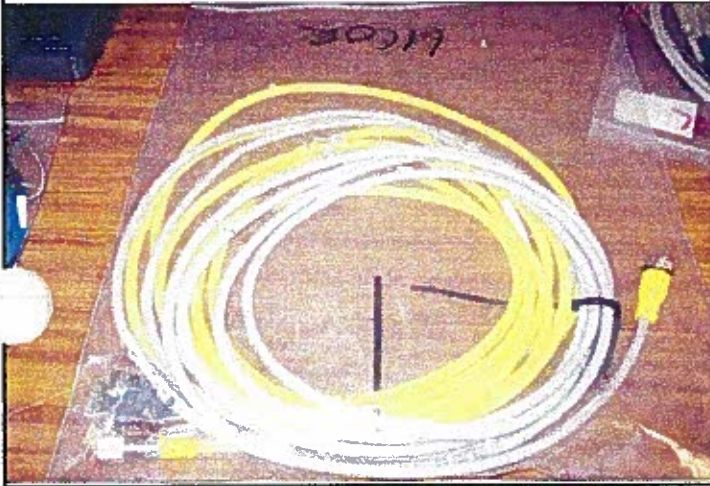
FLUX 11-10



FLUX 11-11



FLUX11-12



FLUX11-13



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## FLUX12

Technical Description:	Soil temperature probe
Manufacturer:	MRC
Model:	TP100
Serial Number:	N/A
Country of Origin:	USA

[http://www.mrc-corp.com/Products/2006\\_Temp\\_Probe\\_Flier.pdf](http://www.mrc-corp.com/Products/2006_Temp_Probe_Flier.pdf)

## ПОТОКИ12

Название:	Датчик температуры почвы
Фирма-производитель:	MRC
Модель:	TP100
Серийный номер:	-
Страна-производитель:	США

[http://www.mrc-corp.com/Products/2006\\_Temp\\_Probe\\_Flier.pdf](http://www.mrc-corp.com/Products/2006_Temp_Probe_Flier.pdf)

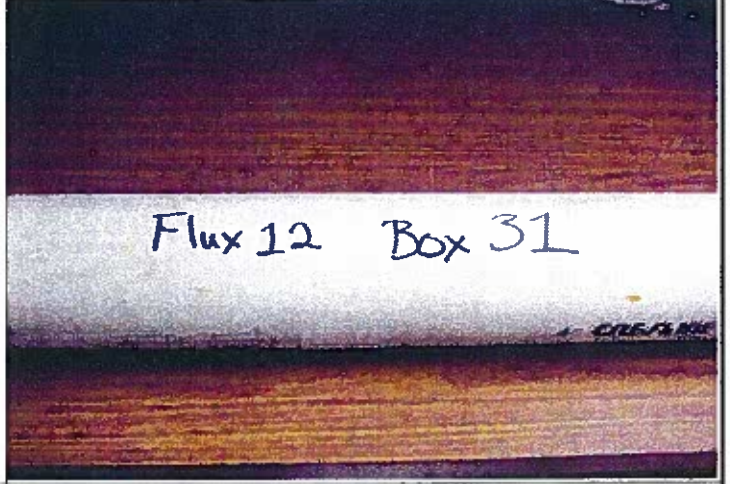
FLUX Box 12

12 3.4kg (7.5lb)

Contents of FLUX Box 12 in the tube



Outside of FLUX Box 12



FLUX12-1



BOX	Group	Contents	Serial/CD Numbers	KG
N коробка	N предмет	Название предмета	Индивидуальные характеристики	Вес
TOWER				
	TOWER-1	(1) Pipe with heating element and insulation	(1) Труба с электрическим обогревательным утеплением	
	TOWER-2	(6) Aluminum tower arms for mounting instruments	(6) Составляющие части мачты (алюминиевые траверсы для установки инструментов)	
	TOWER-3	(1) 3 meter aluminum tower	3-метровая алюминиевая мачта	









US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



**COMMERCIAL INVOICE**

<b>DATE OF EXPORT:</b>	<b>EXPORT REFERENCES</b>
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<b>SHIPPER/EXPORTER:</b> NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: 303-497-6409 Fax: 303-497-6181 Taneil Uttal - Танил Юттал	<b>CONSIGNEE:</b> Yakutsk Branch Office of ROSHYDROMET 8 Ya. Potapov Street 677010 Yakutsk Republic of Sakha (Yakutia) Attn: Sveltana Bogomyakova Tel: (7 4112) 36 24 02
---	--

<b>Country of Export</b> USA	<b>Country of Manufacture</b> USA	<b>Country of Ultimate Destination</b> Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	<b>Tools</b>		41	30	16	5.4		
		Screwdriver Set	44 pieces					29.98	29.98
		Wrench Set	8 pieces					25.98	25.98
		Volt Meters	5 each					17.45	17.45
		Wire Strippers	3 each					16.47	16.47
<b>Total No. of PKG</b> 1							<b>Total Weight</b> 5.4		<b>Total Invoice</b> \$89.88

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F.O.B.

C & F

C.I.F.

I DECLARE ALL THE INFORMATION CONTAINED IN THIS INVOICE TO BE TRUE AND COLLRECT

SIGNATURE OF SHIPPER/EXPORTER Taneil Uttal - Танил Юттал

*Taneil Uttal*



Департамент Коммерции США  
Национальная администрация по океану и атмосфере.



### Коммерческий инвойс

<b>ДАТА ОТПРАВЛЕНИЯ:</b>			<b>НОМЕР ОТПРАВЛЕНИЯ</b>						
<b>Отправитель:</b> НОАА Бродвей, 325 Боулдер, КО 80305  ТЕЛ: 303-497-6409 ФАКС 303-497-6181 Taneil Uttal - Танил Юттал			<b>Получатель:</b> Богомякова Светлана ул.Потапова, д.8 677010 Якутск Республика Саха, РФ ФГУ ЯУГМС тел (7 4112) 36 24 02						
<b>Страна отправления</b> США			<b>СТРАНА ПРОИЗВОДИТЕЛЬ</b> США			<b>СТРАНА ПОЛУЧАТЕЛЬ</b> Российская Федерация, Республика САХА			
Кол-во упаковок	Тип упаковок и	Описание товара	Кол-во	см			Вес нетто (кг)	Вес брутто (кг)	общая стоимость
				длина	ширина	высота			
1	Коробка	Набор инструментов:		41	30	16	5.4		
		отвертки	44					29.98	\$29.98
		ключи гаечные	8					25.98	\$25.98
		вольтметры	5					17.45	\$17.45
		инструменты для зачистки проводов	3					16.47	\$16.47
<b>Для научных исследований, не для</b>							<b>Общий вес нетто (кг.)</b>		<b>Общая стоимость (доллар)</b>
1							5.4		\$89.88
Только для экспорта из США : эти товары, технологии или программное обеспечение, были экспортированы из США, В СООТВЕТСТВИИ С ПРАВИЛАМИ Администрации по экспорту.. Нарушение экспортного законодательства США ЗАПРЕЩЕНО.									
									CHECK ONE
									F.O.B.
									C & F
									C.I.F.
Я заявляю, что вся информация достоверна и соответствует действительности.									
Подпись отправителя			Taneil Uttal - Танил Юттал			<i>Taneil Uttal</i>			



Wrenches

QTY: 8 Pieces

Shipped: 02/2011



Volt Meters

QTY: 5 Each

Shipped: 03/2011



Wire Strippers

QTY: 3 Each

Shipped: 02/2011



Various Screw Drivers and Pieces

QTY: 44 Pieces

Shipped: 02/2011



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



**COMMERCIAL INVOICE**

<b>DATE OF EXPORT:</b>	<b>EXPORT REFERENCES</b>
------------------------	--------------------------

<b>SHIPPER/EXPORTER:</b> NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: 303-497-6409 Fax: 303-497-6181 Taneil Uttal - Танил Юттал	<b>CONSIGNEE:</b> Arctic & Antarctic Research Institute 38 Bering Street 199397, St Petersburg Russia Attn: Vasilii Kustov Tel: (7 8123) 52 30 81
---	---

<b>Country of Export</b> USA	<b>Country of Manufacture</b> USA	<b>Country of Ultimate Destination</b> Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Modems	4					\$25.00	\$100.00
		Cables	4					\$5.00	\$20.00
		Adapters	2					\$25.00	\$50.00
<b>Totals</b>				<b>27</b>	<b>18</b>	<b>14</b>	<b>2.7</b>		<b>\$170.00</b>

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<input type="checkbox"/>
CHECK ONE
<input type="checkbox"/> F.O.B.
<input type="checkbox"/> C & F
<input type="checkbox"/> C.I.F.
<input type="checkbox"/>

I DECLARE ALL THE INFORMATION CONTAINED IN THIS INVOICE TO BE TRUE AND COLLRECT

*Taneil Uttal*

SIGNATURE OF SHIPPER/EXPORTER Taneil Uttal - Танил Юттал





Shipped: 03/2011



Shipped: 03/2011



Shipped: 03/2011





US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



COMMERCIAL INVOICE

<b>DATE OF EXPORT:</b>	<b>EXPORT REFERENCES</b>
<b>SHIPPER/EXPORTER:</b> NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: 303-497-6409 Fax: 303-497-6181 Taneil Uttal - Танил Юттал	<b>CONSIGNEE:</b> Yakutsk Branch Office of ROSHYDROMET 8 Ya. Potapov Street 677010 Yakutsk Republic of Sakha (Yakutia) Attn: Sveltana Bogomyakova Tel: (7 4112) 36 24 02

<b>Country of Export</b> USA	<b>Country of Manufacture</b> USA	<b>Country of Ultimate Destination</b> Russian Federation
---------------------------------	--------------------------------------	--

No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Instrument Box	1					\$20.00	\$20.00
		DVD ROM Drive	1					\$5.00	\$5.00
		Linksys Network Swtich	1					\$30.00	\$30.00
		Network Router	1					\$50.00	\$50.00
		Vaisala Cable	1					\$25.00	\$25.00
		Metal Plates	2					\$0.00	\$0.00
		Power Supplies	2					\$10.00	\$20.00
		Power Strip	1					\$5.00	\$5.00
		Pens	7					\$0.00	\$0.00
		8GB Memory Card	1					\$15.00	\$15.00
		Assorted cables	5					\$0.00	\$0.00
<b>Totals</b>				43	41	24	11.8		<b>\$170.00</b>

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<input type="checkbox"/>	CHECK ONE
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<input type="checkbox"/>	C & F
<input type="checkbox"/>	C.I.F.

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SIGNATURE OF SHIPPER/EXPORTER *Taneil Uttal*  
Taneil Uttal - Танил Юттал



Департамент Коммерции США  
Национальная администрация по океану и атмосфере.



### Коммерческий инвойс

**ДАТА ОТПРАВЛЕНИЯ:** \_\_\_\_\_ **НОМЕР ОТПРАВЛЕНИЯ** \_\_\_\_\_

**Отправитель:**  
НОАА  
Бродвей, 325  
Боулдер, КО 80305  
ТЕЛ: 303-497-6409  
ФАКС 303-497-6181  
Taneil Uttal - Танил Юттал

**Получатель:**  
Богомякова Светлана  
ул.Потапова, д.8  
677010 Якутск  
Республика Саха, РФ  
ФГУ ЯУГМС  
тел (7 4112) 36 24 02

**Страна отправления** США **СТРАНА ПРОИЗВОДИТЕЛЬ** США **СТРАНА ПОЛУЧАТЕЛЬ** Российская Федерация, Республика САХА

Кол-во упаковок	Тип упаковки	Описание товара	Кол-во	см			Вес нетто (кг)	Вес брутто	общая стоимость
				длина	ширина	высота			
1	Коробка	Набор инструментов:	1				\$20.00	\$20.00	
		Диски DVD	1				\$5.00	\$5.00	
		Переключатель сети Linksys	1				\$30.00	\$30.00	
		Маршрутизатор сети	1				\$50.00	\$50.00	
		Кабель фирмы Vaisala	1				\$25.00	\$25.00	
		Металлические пластины	2				\$0.00	\$0.00	
		Блоки питания	2				\$10.00	\$20.00	
		Удлинитель	1				\$5.00	\$5.00	
		Ручки	7				\$0.00	\$0.00	
		Карты памяти 8 Гб	1				\$15.00	\$15.00	
		Наборы кабелей	5				\$0.00	\$0.00	
<b>Всего</b>				43	41	24	11.8		\$170.00

экспортированы из США, В СООТВЕТСТВИИ С ПРАВИЛАМИ Администрации по экспорту..

Я заявляю, что вся информация достоверна и соответствует действительности.

Подпись отправителя \_\_\_\_\_ Тaneil Uttal - Танил Юттал

CHECK ONE  
F.O.B.  
C & F  
C.I.F.

*Taneil Uttal*



Vaisala Cable

QTY: 1

Shipped: 03/2011



DVD ROM Drive

QTY: 1

Shipped: 03/2011



Assorted Cables

Shipped: 03/2011



Power Strip

QTY: 1

Shipped: 03/2011



Power Supplies

Shipped: 03/2011



Linksys Network Switch

QTY: 1

Shipped: 03/2011



CISCO Network Router

QTY: 1

Shipped: 03/2011



Instrument Box & Mounting Plates

QTY: 1

Shipped: 03/2011



Antenna Cables

Shipped: 03/2011



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



COMMERCIAL INVOICE

DATE OF EXPORT:	EXPORT REFERENCES
-----------------	-------------------

<b>SHIPPER/EXPORTER:</b> NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: 303-497-6409 Fax: 303-497-6181 Taneil Uttal - Танил Юттал	<b>CONSIGNEE:</b> Yakutsk Branch Office of ROSHYDROMET 8 Ya. Potapov Street 677010 Yakutsk Republic of Sakha (Yakutia) Attn: Sveltana Bogomyakova Tel: (7 4112) 36 24 02
---	--

Country of Export USA	Country of Manufacture USA	Country of Ultimate Destination Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	4 Element 900MHZ Antenna	2				\$50.00	\$100.00	
		900MHZ Antennas	2				\$30.00	\$60.00	
		Antenna Hardware	4				\$10.00	\$40.00	
		Caulk	5				\$5.00	\$25.00	
		Cable Ties	1				\$20.00	\$20.00	
		Electrical Tape	10				\$10.00	\$100.00	
		120V Plugs	10				\$20.00	\$200.00	
		120V sockets	8				\$20.00	\$160.00	
		Electrical Contact Cleaner	2				\$5.00	\$10.00	
		Velcro	3				\$5.00	\$15.00	
		Humidity Shield	1				\$25.00	\$25.00	
		Electrical Outlet box	4				\$100.00	\$400.00	
		Antenna Cables	2				\$20.00	\$40.00	
		WindDaq datalogger	1				\$50.00	\$50.00	
		Electrical Switches	2				\$5.00	\$10.00	
		Serial computer cable	3				\$5.00	\$15.00	
		Computer cable connector	4				\$2.00	\$8.00	
<b>Totals</b>							15.1		<b>\$755.00</b>

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SIGNATURE OF SHIPPER/EXPORTER *Taneil Uttal*  
 Taneil Uttal - Танил Юттал





120V Plugs and 120V Receptacles

Shipped: 03/2011



DTR503A Vaisala Sun Shield

Shipped: 03/2011

Other photos from shipment not found; stock photo of DataQ (WindDaq on invoice)

**Low Cost, Compact Data Acquisition Kit**

**Convenient USB Interface**

**8  $\pm$ 10V Analog Single-Ended Inputs**

**Six Bidirectional TTL Ports for General Purpose Control**

**10 Bit Resolution**

**Up to 14,400 Hz Sample Rate**



The DI-148U breaks new ground in price and performance, offering advanced features usually reserved for more expensive instruments. They include, but are not limited to, a channel scan list, high sample rate throughput, and an advanced computer interface. These features combine to produce a robust instrument that can be applied to nearly any data acquisition situation where pre amplified signals need to be acquired to a PC.

This extremely inexpensive instrument offers eight single-ended analog input channels (each with a fixed  $\pm$ 10 volt full scale range), analog-to-digital conversion resolution of 10 bits (allowing a minimum voltage sensitivity of  $\pm$ 19.5 mV), six bidirectional TTL ports that may be used for general purpose control, and a maximum sample throughput rate of up to 14,400 Hz. No other instrument offers so much for so little.

### Easy to Connect and Use

Connect the DI-148U to any local laptop or desktop PC. Power is derived from the PC through the USB interface so no external power is required. Two, built-in, 8 position screw terminal connectors allow easy and secure access to all signal I/O connections without the need for extra options.

### Wide Sample Throughput Range

Throughput ranges from sub-Hertz to over 14,400 Hertz allow the DI-148U to connect to a wide range of both static and dynamic signals.

### Compact

Small size—66D  $\times$  66W  $\times$  28H mm (2.6D  $\times$  2.6W  $\times$  1.1H inches)—allows the DI-148 to fit comfortably in crowded instrumentation cabinets, desktops, and other tight locations.

### Self Powered Advantage

All DI-148 instruments derive their power directly from the host PC eliminating the need for an external power adaptor and connections—perfect for use in automotive and other portable environments where power is unavailable.

## Features

### Built-In, Bidirectional Port

A built-in bidirectional port allows programmable discrete inputs and outputs for control.

### Free Data Acquisition Software

Our WINDAQ/Lite data acquisition software offers real time display and disk streaming for the Windows environment. Their real time display can operate in a smooth scroll or triggered sweep mode of operation, and can be scaled into any unit of measure. Event markers with comments allow you to annotate your data acquisition session with descriptive information as you're recording to disk.

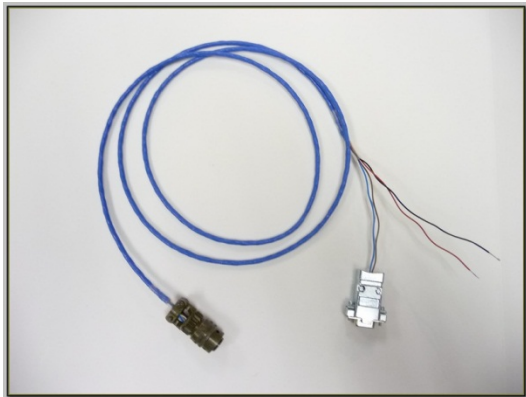
Raise your productivity to new heights with WINDAQ's unique multitasking feature. Record waveform data to disk in the background while running any combination of programs in the foreground — even WINDAQ Playback software to review and analyze the waveform data as it's being stored! WINDAQ/Lite recording and playback software is provided free with every DI-148U purchase. WINDAQ/Lite recording software is limited to 240 Hz sample rate when recording to disk. The extra cost WINDAQ High Speed option allows you to record at rates up to the speed of the instrument.

2012-02 Tiksi package contents

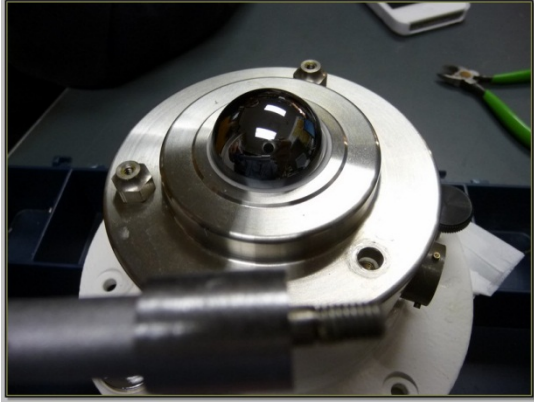
Line Item	Item	Estimated Value
1	200 feet Jaguar 10 conductor cable	\$600.00
2	2 boxes kimwipes	\$20.00
3	1 test cable and supply	\$50.00
4	1 radiometer dome	\$2,500.00
5	3 adapter cables	\$1,000.00
6	1 bag of connectors	\$250.00
7	sonic shim tools	\$20.00
8	Simram fuses	\$5.00
9	Sonic PCB	\$1,200.00
10	Silicone	\$1.00
11	Solder flux	\$1.00
12	Desiccant	\$1.00
13	wire ties 6"	\$10.00
14	wire ties 9"	\$10.00
15	Scotch 88 tape	\$10.00
16	Scotch 70 tape	\$40.00
17	adhesive tie pads	\$10.00
18	razor blades	\$3.00
19	solder sucker	\$1.00
20	colored heat shrink and solder wick	\$2.00



CW from top Left: solder sucker; wire ties, tape, adhesive hangers; shrink wrap, solder wick; desiccant, silicon sealant, soldering flux/syringes; sonic anemometer circuit boards (wrapped); simran fuses



CW from top Left: sonic shim tools (wrapped); various connectors; sonic connector cables; sonic test cable; kim wipes; 200' arctic rated signal cable



CW from top Left: Eppley Pyrgometer replacement dome (to go with body shipped previously)



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



COMMERCIAL INVOICE

DATE OF EXPORT:	EXPORT REFERENCES
-----------------	-------------------

SHIPPER/EXPORTER: NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: 303-497-6409 Fax: 303-497-6181 Taneil Uttal - Танил Юттал	CONSIGNEE: Yakutsk Branch Office of ROSHYDROMET 8 Ya. Potapov Street 677010 Yakutsk Republic of Sakha (Yakutia) Attn: Sveltana Bogomyakova Tel: (7 4112) 36 24 02
--	---

Country of Export USA	Country of Manufacture USA	Country of Ultimate Destination Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Splice Box	1					\$20.00	\$20.00
		Mounting hardware	1 lot					\$10.00	\$10.00
		Adhesive heaters	12					\$5.00	\$60.00
		Conductor compound	1					\$5.00	\$5.00
		Electrical connectors	3 bags					\$5.00	\$15.00
<b>Totals</b>				43	41	24	11.8		<b>\$110.00</b>

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<input type="checkbox"/>
CHECK ONE
<input type="checkbox"/> F.O.B.
<input type="checkbox"/> C & F
<input type="checkbox"/> C.I.F.

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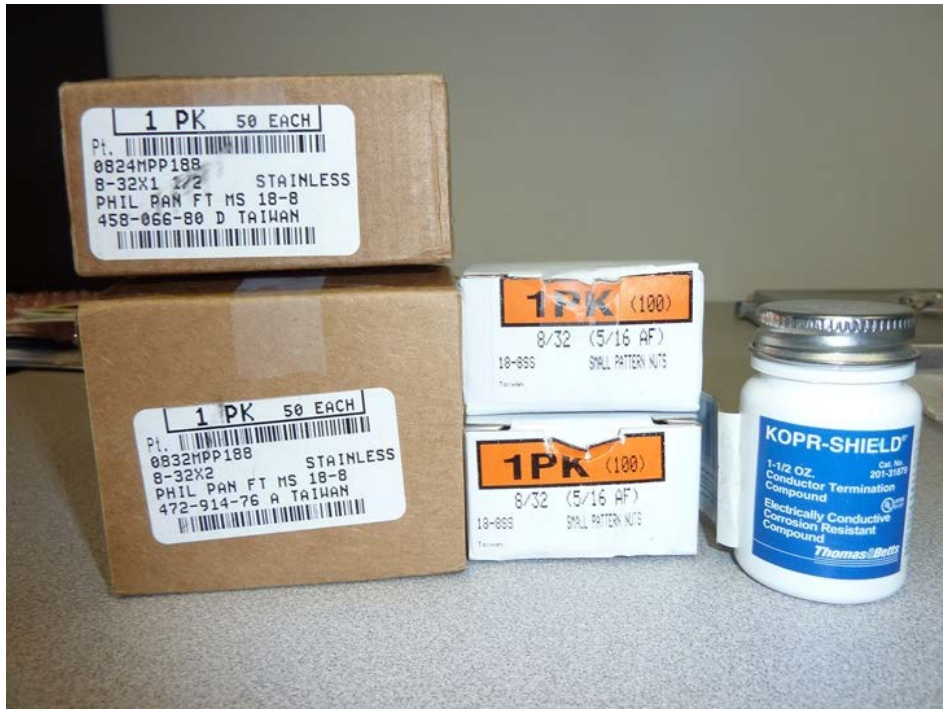
*Taneil Uttal*

SIGNATURE OF SHIPPER/EXPORTER Taneil Uttal - Танил Юттал



Splice Box Plates & Wire Connectors

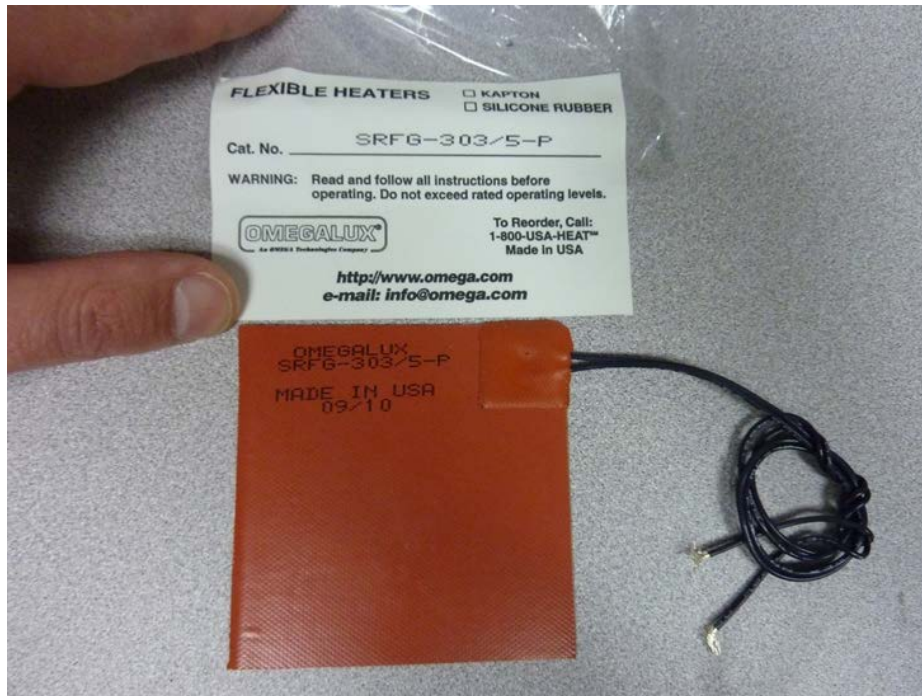
Shipped: 04/2012



Bolts Nuts Conductor Compound

Shipped: 04/2012





Adhesive Heater

Shipped: 04/2012



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
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**SHIPPER/EXPORTER:**  
NOAA/ESRL/PSD3  
325 BROADWAY  
BOULDER, COLORADO 80305  
  
TEL: +1-303-497-6409  
Fax: +1-303-497-6181  
Taneil Uttal - Танил Юттал

**CONSIGNEE:**  
Yakutsk Branch Office of ROSHYDROMET  
8 Ya. Potapov Street  
677010 Yakutsk  
Republic of Sakha (Yakutia)  
Attn: Сергей Непомнящих  
Tel: (7 4112) 36 24 02

**Country of Export** USA      **Country of Manufacture** China      **Country of Ultimate Destination** Russian Federation

No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX								
		Extra Small Mustang Suit	1				\$50.00	\$50.00	
		Small Mustang Suit	1				\$50	\$50.00	
		Medium Mustang Suit	1				\$50.00	\$50.00	
1	Box								
		Large Mustang Suit	1				\$50.00	\$50.00	
<b>Totals</b>									<b>\$200.00</b>

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SIGNATURE OF SHIPPER/EXPORTER \_\_\_\_\_ Тaneil Uttal - Танил Юттал

*Taneil Uttal*




Mustang Suits to Tiksi – XS, SM, Med, Lg

Shipped 05/2012 – two shipments by USPS, no commercial invoice



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



**COMMERCIAL INVOICE**

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<b>SHIPPER/EXPORTER:</b> NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: 303-497-6409 Fax: 303-497-6181 Taneil Uttal - Танил Юттал	<b>CONSIGNEE:</b> Yakutsk Branch Office of ROSHYDROMET 8 Ya. Potapov Street 677010 Yakutsk Republic of Sakha (Yakutia) Attn: Сергей Непомнящих Tel: (7 4112) 36 24 02

<b>Country of Export</b> USA	<b>Country of Manufacture</b> USA	<b>Country of Ultimate Destination</b> Russian Federation
---------------------------------	--------------------------------------	--

No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Datalogger	1					\$100	\$100.00
		Datalogger adapters	2					\$50.00	\$100.00
		Ozone meter tube and parts	4					\$25.00	\$100.00
<b>Totals</b>				30.5	30.5	26.7	3.4		<b>\$300.00</b>

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CHECK ONE

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C & F

C.I.F.

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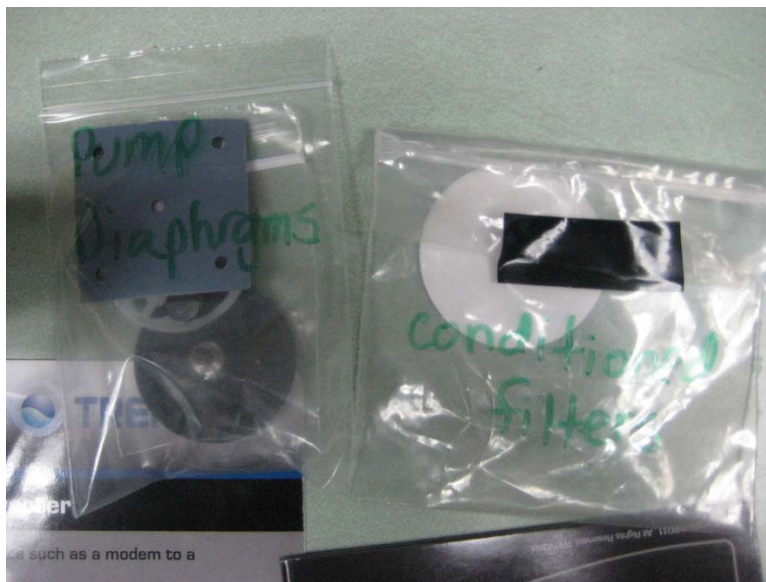
SIGNATURE OF SHIPPER/EXPORTER *Taneil Uttal*  
Taneil Uttal - Танил Юттал



CR10x Datalogger (Serial #: X 34172) & Datalogger Adapters

QTY: 1 & 2

Shipped: 07/2012



Shipped: 07/2012



Shipped: 07/2012



O3 Solenoid

Shipped: 07/2012





US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



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<b>SHIPPER/EXPORTER:</b> NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: 303-497-6409 Fax: 303-497-6181 Taneil Uttal - Танил Юттал	<b>CONSIGNEE:</b> Yakutsk Branch Office of ROSHYDROMET 8 Ya. Potapov Street 677010 Yakutsk Republic of Sakha (Yakutia) Attn: Сергей Непомнящих Tel: (7 4112) 36 24 02

<b>Country of Export</b> USA	<b>Country of Manufacture</b> USA	<b>Country of Ultimate Destination</b> Russian Federation
---------------------------------	--------------------------------------	--

No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Polycarbonate plastic circle	1				5	\$100.0	\$100.00
<b>Totals</b>				75	72.4	1.5	5		<b>\$100.00</b>

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CHECK ONE

F.O.B.

C & F

C.I.F.

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SIGNATURE OF SHIPPER/EXPORTER *Taneil Uttal*  
Taneil Uttal - Танил Юттал





BSRN Polycarbonate Plastic Circle

QTY: 1

Shipped: 07/2012



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



**COMMERCIAL INVOICE**

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<b>SHIPPER/EXPORTER:</b> NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: +1-303-497-6409 Fax: +1-303-497-6181 Taneil Uttal - Танил Юттал	<b>CONSIGNEE:</b> Yakutsk Branch Office of ROSHYDROMET 8 Ya. Potapov Street 677010 Yakutsk Republic of Sakha (Yakutia) Attn: Сергей Непомнящих Tel: (7 4112) 36 24 02

<b>Country of Export</b> USA	<b>Country of Manufacture</b> USA & (China where indicated)	<b>Country of Ultimate Destination</b> Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Red 120V Light	1					\$100	\$100.00
		Spare Light Bulbs	5					\$2.50	\$12.50
		Aluminum Rod	1					\$5	\$5.00
		U-bolts	2					\$2.50	\$5.00
		Eppley Radiometer (no dome)	1					\$150	\$150.00
		Battery (China)	1					\$15	\$15.00
		Plastic Bottle	2					\$5.00	\$5.00
<b>Totals</b>				35.6	31.75	25.4			<b>\$292.50</b>

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SIGNATURE OF SHIPPER/EXPORTER Taneil Uttal - Танил Юттал

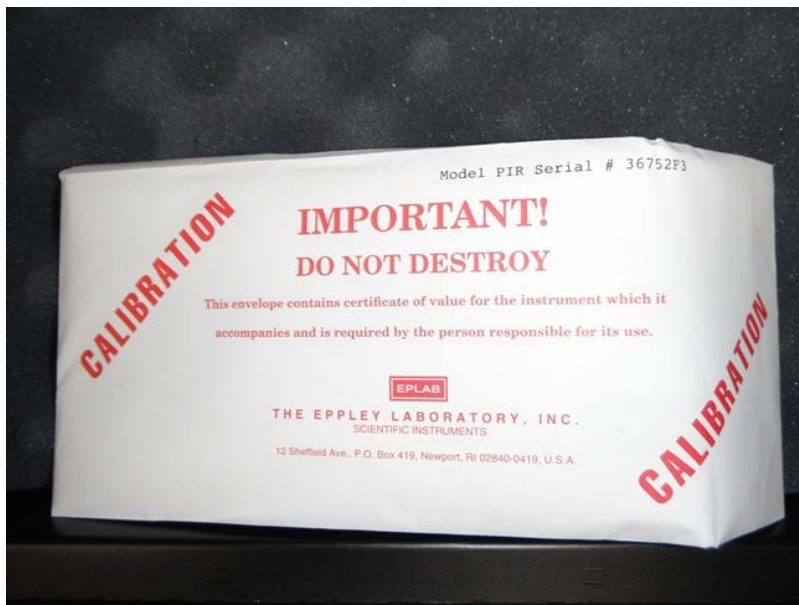
*Taneil Uttal*




Plastic Bottle

QTY: 2

Shipped: 10/2012



PIR docs

PIR Serial #: 36752F3

Shipped: 10/2012



PIR (Eppley Radiometer) No Dome, PIR (Eppley Radiometer) Serial Number, PIR (Eppley Radiometer) Plate

QTY: 1

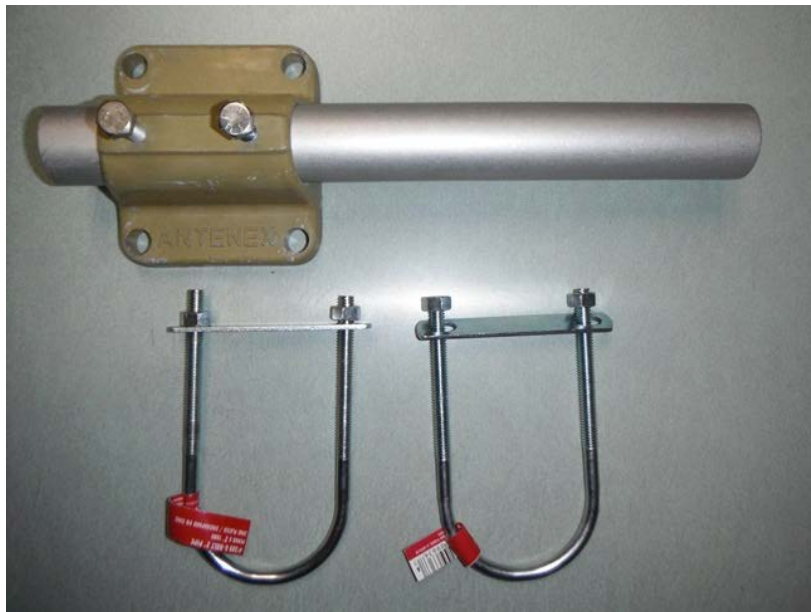
Shipped: 10/2012



Red 120V Tower Light & Spare Bulbs

QTY: 1 & 5

Shipped: 10/2012



Aluminum Rod & Tower Light Mounts (U-bolts)

QTY: 1 & 2

Shipped: 10/2012



Tower Light with Mount



Battery

QTY: 1

Shipped: 10/2012



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



COMMERCIAL INVOICE

DATE OF EXPORT:	EXPORT REFERENCES
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<b>SHIPPER/EXPORTER:</b> NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: 303-497-6409 Fax: 303-497-6181 Taneil Uttal - Танил Юттал	<b>CONSIGNEE:</b> Arctic & Antarctic Research Institute 38 Bering Street 199397, St Petersburg Russia Attn: Vasilii Kustov Tel: (7 8123) 52 30 81
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Country of Export USA	Country of Manufacture USA	Country of Ultimate Destination Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	Envelope	Plastic connector and pins	3				0.002	\$1.00	\$3.00
<b>Totals</b>							<b>6 grams</b>		<b>\$3.00</b>

Totals 6 grams \$3.00

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CHECK ONE

F.O.B.

C & F

C.I.F.

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SIGNATURE OF SHIPPER/EXPORTER Taneil Uttal - Танил Юттал

*Taneil Uttal*

### Replacing Solenoid Crimps and Connector TEL-49j

1. The Zero-Solenoid is located at the back of the TEL-49j instrument.
2. The Zero-Solenoid Connector is connected to the board located toward the front of the instrument.
3. The Zero-Solenoid Connector is connected in the "REF" port on the board.
4. Pull the connector housing out of its port on the board.
5. Detach the connector housing from the red and white wires by cutting them using wire cutters.
6. Cut back the outside wire protectors (red and white colored wire protector) to expose the raw wire.
7. Taking the red wire, carefully place the raw wire into a wire crimp, making sure that all of the wires filaments are securely placed within the crimp before crimping the crimp around the raw wire.
8. Crimp down the walls of the crimp around the raw wire.
9. Repeat steps 7-8 for the white wire.
10. Carefully connect the new crimped wires into the housing, making sure to note that the wires are placed in the correct side of the housing (NOTE: the red wire will go into the left side of the connector housing and the white wire will go into the right side of the connector housing, see photo above).
11. Place the connector housing back into its port on the board (NOTE: make sure the connector goes into the "REF" port on the board).

Plastic connectors and Pins

Shipped: 11/2012 (Nov)





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NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



COMMERCIAL INVOICE

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Country of Export USA	Country of Manufacture USA & (China where indicated)	Country of Ultimate Destination Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Circuit board for sonic anemometer	2	35.6	26.7	7.6		\$200	\$400.00
<b>Totals</b>				35.6	26.7	7.6	1.2		<b>\$400.00</b>

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SIGNATURE OF SHIPPER/EXPORTER Taneil Uttal - Танил Юттал

*Taneil Uttal*




Sonic Boards to SPb via post

SN's: 120803 & 090502

Shipped 01/2013



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



**COMMERCIAL INVOICE**

**DATE OF EXPORT:** 4 February 2013 **EXPORT REFERENCES**

**SHIPPER/EXPORTER:**  
NOAA/ESRL/PSD3  
325 BROADWAY  
BOULDER, COLORADO 80305  
  
TEL: +1-303-497-6409  
Fax: +1-303-497-6181  
Taneil Uttal - Танил Юттал

**CONSIGNEE:**  
Arctic & Antarctic Research Institute  
38 Bering Street  
199397, St Petersburg  
Russia  
Attn: Alexander Makshtas  
Tel: (7 8123) 52 30 81

**Country of Export** USA **Country of Manufacture** USA & Pakistan **Country of Ultimate Destination** Russian Federation

No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX								
		Circuit board for sonic anemometer (USA)	1				\$200	\$200.00	
		Pliers (Pakistan)	1				\$10.00	\$10.00	
		Wire strippers (USA)	1				\$6.00	\$6.00	
<b>Totals</b>				33	28	5	0.45	<b>\$216.00</b>	

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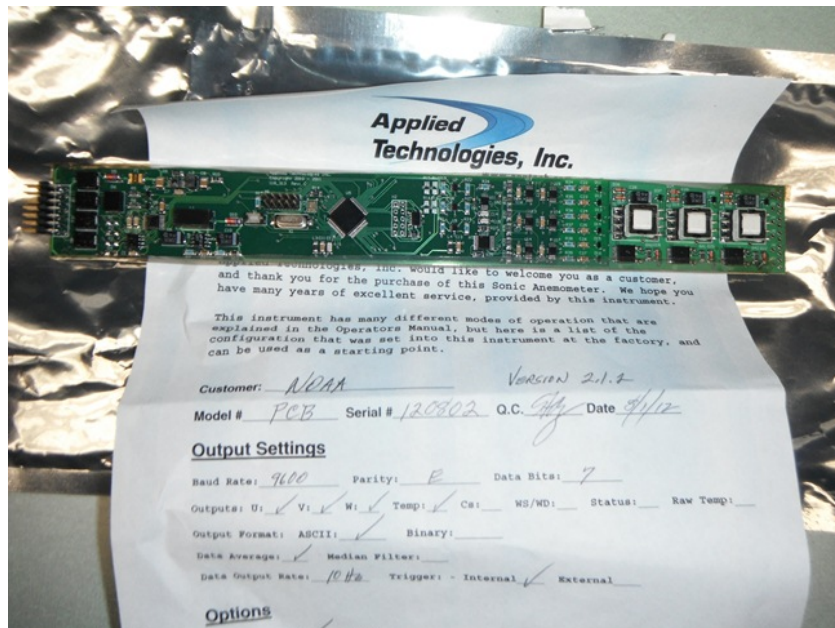
SIGNATURE OF SHIPPER/EXPORTER Taneil Uttal - Танил Юттал

*Taneil Uttal*




Sonic Board Case

Shipped: 2/2013



Sonic Board

Shipped: 2/2013



Wire Strippers and Needle Nose Pliers

Shipped 02/2013



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



**COMMERCIAL INVOICE**

<b>DATE OF EXPORT:</b>	<b>EXPORT REFERENCES</b>
<b>SHIPPER/EXPORTER:</b> NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: +1-303-497-6409 Fax: +1-303-497-6181 Taneil Uttal - Танил Юттал	<b>CONSIGNEE:</b> Yakutsk Branch Office of ROSHYDROMET 8 Ya. Potapov Street 677010 Yakutsk Republic of Sakha (Yakutia) Attn: Сергей Непомнящих Tel: (7 4112) 36 24 02

<b>Country of Export</b> USA	<b>Country of Manufacture</b> China	<b>Country of Ultimate Destination</b> Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Simran AR-3000 Voltage converter	2					\$100	\$200.00
<b>Totals</b>				50.8	35.6	31.8	25		<b>\$200.00</b>

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SIGNATURE OF SHIPPER/EXPORTER Taneil Uttal - Танил Юттал

*Taneil Uttal*




Simran AR-3000 (x2)

Shipped 03/2013



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



**COMMERCIAL INVOICE**

**DATE OF EXPORT:** \_\_\_\_\_ **EXPORT REFERENCES** \_\_\_\_\_

**SHIPPER/EXPORTER:**  
NOAA/ESRL/PSD3  
325 BROADWAY  
BOULDER, COLORADO 80305  
  
TEL: +1-303-497-6409  
Fax: +1-303-497-6181  
Taneil Uttal - Танил Юттал

**CONSIGNEE:**  
Yakutsk Branch Office of ROSHYDROMET  
8 Ya. Potapov Street  
677010 Yakutsk  
Republic of Sakha (Yakutia)  
Attn: Сергей Непомнящих  
Tel: (7 4112) 36 24 02

**Country of Export**  
USA

**Country of Manufacture**  
China

**Country of Ultimate Destination**  
Russian Federation

No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	спальный мешок	1 шт.					\$20	\$20.00
<b>Totals</b>				51	36	36	7.2		<b>\$20.00</b>

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SIGNATURE OF SHIPPER/EXPORTER \_\_\_\_\_ Тaneil Uttal - Танил Юттал

*Taneil Uttal*






US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



**COMMERCIAL INVOICE**

**DATE OF EXPORT:** \_\_\_\_\_ **EXPORT REFERENCES** \_\_\_\_\_

**SHIPPER/EXPORTER:**  
NOAA/ESRL/PSD3  
325 BROADWAY  
BOULDER, COLORADO 80305  
  
TEL: +1-303-497-6409  
Fax: +1-303-497-6181  
Taneil Uttal - Танил Юттал

**CONSIGNEE:**  
Yakutsk Branch Office of ROSHYDROMET  
8 Ya. Potapov Street  
677010 Yakutsk  
Republic of Sakha (Yakutia)  
Attn: Сергей Непомнящих  
Tel: (7 4112) 36 24 02

**Country of Export**  
USA

**Country of Manufacture**  
China

**Country of Ultimate Destination**  
Russian Federation

No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Sleeping bag	1					\$20	\$20.00
<b>Totals</b>				51	36	36	7.2		<b>\$20.00</b>

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SIGNATURE OF SHIPPER/EXPORTER \_\_\_\_\_ Тaneil Uttal - Танил Юттал

*Taneil Uttal*




Sleeping Bag

Shipped 4/2013



US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



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<b>Country of Export</b> USA	<b>Country of Manufacture</b> China	<b>Country of Ultimate Destination</b> Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Fans	10					\$5	\$50.00
		Saw	1					\$200	\$200.00
		Saw blades	3 packs					\$4	\$12.00
		Drill bits	1 pack					\$25.00	\$25.00
		Files	1 pack					\$15	\$15.00
		Mounting Bracket	1					\$10.00	\$10.00
		Plastic cable ties	5 packs					\$5.00	\$25.00
		Tape (4 types)	7 rolls					\$10.00	\$70.00
		Heat Shrink Tubing (7 colors)	7 packs					\$2.00	\$14.00
		Electrical Plugs	5					\$10.00	\$50.00
		Instrument shield	1					\$5.00	\$5.00
		Pump Air Filter	1					\$5.00	\$5.00
<b>Totals</b>				50.8	39.4	34.3	13.6		<b>\$481.00</b>

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SIGNATURE OF SHIPPER/EXPORTER Taneil Uttal - Танил Юттал

*Taneil Uttal*




US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



COMMERCIAL INVOICE

<b>DATE OF EXPORT:</b>	<b>EXPORT REFERENCES</b>
<b>SHIPPER/EXPORTER:</b> NOAA/ESRL/PSD3 325 BROADWAY BOULDER, COLORADO 80305  TEL: +1-303-497-6409 Fax: +1-303-497-6181 Taneil Uttal - Танил Юттал	<b>CONSIGNEE:</b> Yakutsk Branch Office of ROSHYDROMET 8 Ya. Potapov Street 677010 Yakutsk Republic of Sakha (Yakutia) Attn: Сергей Непомнящих Tel: (7 4112) 36 24 02

<b>Country of Export</b> USA	<b>Country of Manufacture</b> China	<b>Country of Ultimate Destination</b> Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX	Вентиляторы	10 шт.					\$5	\$50.00
		пила	1 шт.					\$200	\$200.00
		полотна (лезвия) для пилы	3 упаковки					\$4	\$12.00
		сверла	1 упаковка					\$25.00	\$25.00
		Напильники	1 упаковка					\$15	\$15.00
		Монтажный кронштейн	1 шт.					\$10.00	\$10.00
		Пластиковые стяжки для кабеля	5 упаковок					\$5.00	\$25.00
		Изолента (4 вида)	7 рулонов					\$5.00	\$35.00
		Термоусадочные трубки (7 цветов)	7 упаковок					\$2.00	\$14.00
		Электрические вилки	5 шт.					\$10.00	\$50.00
		Щит для инструментов	1 шт.					\$5.00	\$5.00
		Воздушный фильтр для насоса	1 шт.					\$5.00	\$5.00
		Перманентная маркерная ручка	1 шт.					\$5.00	\$5.00
<b>Totals</b>				50.8	39.4	34.3	13.6		<b>\$451.00</b>

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SIGNATURE OF SHIPPER/EXPORTER Taneil Uttal - Танил Юттал

*Taneil Uttal*



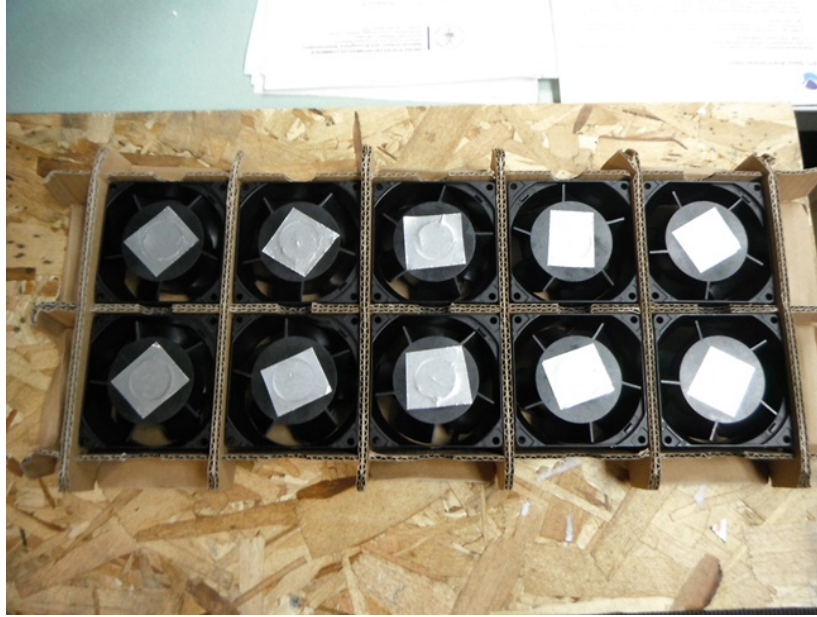
Cable Ties, Radiometer Cover, O3 Muffler

Shipped: 4/2013 (April)



Drill Bits, Files , Saw Blades

Shipped: 4/2013



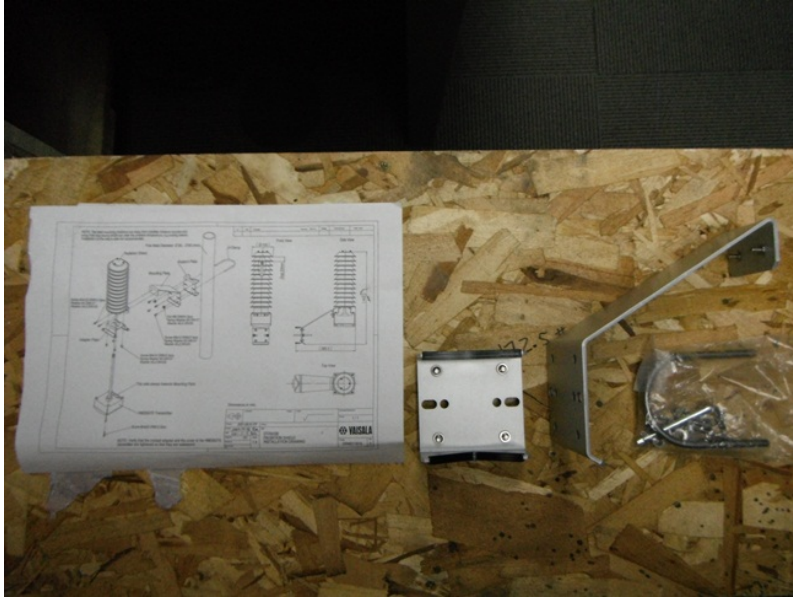
Fans

Shipped 4/2013



Jig Saw

Shipped 4/2013



Mounting Bracket  
Shipped: 4/2013



Shrink Tube  
Shipped: 4/2013







US DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



COMMERCIAL INVOICE

DATE OF EXPORT:	EXPORT REFERENCES
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Country of Export USA	Country of Manufacture USA	Country of Ultimate Destination Russian Federation
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No of PKGS	Type of PKG	Full Description of Goods	QTY	Size (cm)			Weight (KG)	Unit Value	Total Value
				Length	Width	Height			
1	BOX								
		RS 232-485 data	2				\$20	\$40.00	
		Panavise	1				\$20.00	\$20.00	
		Tape	2				\$2.50	\$5.00	
		Solder wick	3				\$2.00	\$6.00	
		Solder flux pen	1				\$3.00	\$3.00	
		Soldering iron tips	3				\$2.00	\$6.00	
		Ball head drivers	1				\$3.00	\$3.00	
		Small wire cutters	1				\$3.00	\$3.00	
		Solder sucker	1				\$5.00	\$5.00	
		Small heat shrink	1 bag				\$5.00	\$5.00	
		Markers & Pens	7				\$2.00	\$2.00	
		Brushes and swabs	1 bag				\$2.00	\$2.00	
		Blue dessicant	1 bag				\$5.00	\$5.00	
<b>Totals</b>				35.6	26.7	7.6	1.2	<b>\$105.00</b>	

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*Taneil Uttal*



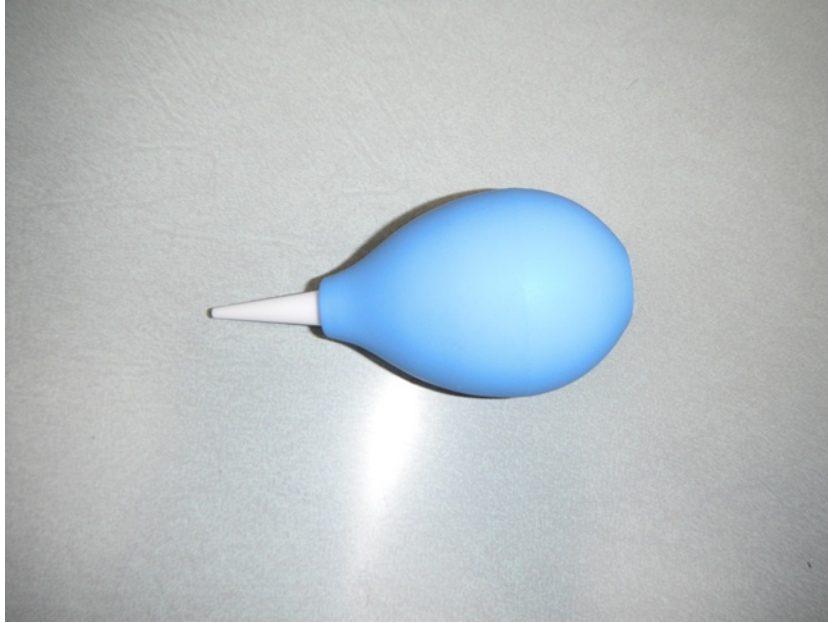
Soldering supplies, Panavise, Small wire cutters, Blue dessicant, Ball head driver (one removed)

Ship 7/2013



Tape, Brushes and Swabs, RS 232-485 data

Ship 7/2013



Solder Sucker

Shipped 07/2013



Markers & Pens

Shipped 07/2013