What is an Artic Risk Management Network?

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**ARMNET Origins and Aim**

The Arctic Risk Management Network (ARMNet) was conceived as a trans-disciplinary hub to encourage and facilitate greater cooperation, communication and exchange among American and Canadian academics and practitioners actively engaged in the research, management and mitigation of risks, emergencies and disasters in the Arctic regions. Its aim is to assist regional decision-makers through the sharing of:

- applied research
- best practices
- greater inter-operability

Since IPY 2007, Applied Research in Environmental Sciences Nonprofit, Inc. (ARIES) has worked with the North Slope Borough Risk Management and other NSB community organizations to improve risk reduction capability in Alaska. The Arctic Risk Management Network (ARMNET) is an ARIES initiative in partnership with the North Slope.
ARMNet Goals and Objectives

- To make the North American Arctic a safer, more secure region through the dissemination, application and bilateral exchange of current research and best practices in northern risk and emergency management;
- To provide opportunities for the American proponents of the ARM Network to address Canadian ARM stakeholders;
- To generate Canadian awareness, interest and participation in the Network;
- To leverage existing ARM-related Canadian forums (annual conferences and meetings) to access the greatest number of potential Canadian Network participants;
- To identify common priorities among the risks and hazards facing Canadian and Alaskan territories and triage these topics for future research and bilateral collaboration;

Potential Partners

The ARMNET constituency will include all northern academics and researchers, Arctic-based corporations, First Responders (FRs), Emergency Management Offices (EMOs) and Risk Management Offices (RMOs), military, Coast Guard, northern police forces, Search and Rescue (SAR) associations, boroughs, territories and communities of the Arctic.

Inter-operable Communications

Bilateral collaboration among EMO and SAR will be facilitated through improved networking, joint exercises, conference workshops, teleconferences, radio programs, and virtual communications to increase inter-operability and communication redundancy across far North regions and local communities.
Clearinghouse: DRR Information

Most importantly, ARMNet will be a clearinghouse for all information related to the management of the frequent hazards of Arctic climate and geography in North America, including new and emerging challenges arising from:

- climate change,
- increased maritime polar traffic
- expanding economic development in the region.

Sponsors and Funding

ARMNet is an outcome of the Arctic Observing Network (AON) for Long Term Observations, Governance, and Management Discussions, www.arcus.org/search-program. The AON goals continue with CRIOS (www.ariesnonprofit.com/ARIESprojects.php) and coastal erosion research (www.ariesnonprofit.com/webinarCoastalErosion.php) led by the North Slope Borough Risk Management Office with collaboration from ARIES and support from the Canadian Risk and Hazards Network (CHRNet). ARMNet is another project of the HERMYS program (Historical Ecology for Risk Management: Youth Sustainability) for which ARIES and the NSB Risk Management have collaborated since 2013. For HERMYS details, please follow the facebook journal @arieshermys.

Presentations in support of the development of ARMNet at three Canadian conferences (SARScene, Canadian Risk and Hazards Network, and ArcticNet) in the fall of 2015 were made possible through funding from the US Embassy in Ottawa.

ARMNet Can Help Risk Reductions

Arctic Risk Management (ARMNet) Network aims to link Risk Management Practitioners and Researchers across the Arctic Regions of Canada and Alaska to improve Risk, Emergency and Disaster Preparedness and Mitigation through comparative analysis and applied research.

The ARM Network addresses the current absence of any mechanism for the exchange of information and research on risks, hazards and the management of emergencies in the high Arctic between the USA and Canada; this represents a significant gap in the efforts of both nations to ensure the security and safety of this vulnerable region.

The beneficiaries of this project will be

- the people of Alaska and the Canadian Arctic territories whose safety and security will be enhanced through the research, exercises and best practices information exchanged through the ARM Network;
- the First Responders and EM practitioners in the far North who will be afforded a centralized platform for information and research on risk and emergency management specific to their region and sourced from academics and research communities on both sides of the border;
the academic community will benefit from a mechanism through which to collaborate with their Canadian and American colleagues on issues of mutual concern and interest and through which they can disseminate their findings; and

the populations of both countries who will benefit both socially and economically from a safer and more secure North American Arctic.

**Relationship of ARMNet objectives to U.S. Embassy Priority Themes**

Priority 1) Increase entrepreneurship and economic prosperity, maximize economic growth and bilateral trade, tourism, and investment, especially among youth and underserved communities

The ARM Network will support increased safety and security in the Arctic region, enhance adaptation and resilience to the impacts of climate change and development and build capacity in an underserviced population (Arctic communities) through the dissemination and application of ARM and EM research and best practices to the risks and hazards of Arctic life. The existence of a safe and secure environment is an essential condition for economic growth and prosperity;

Priority 2) Enhance civil society's ability to respond to transnational crime, natural disasters or terrorist threats

The ARM Network directly addresses this priority by providing a platform to exchange critical research, best practices and information related to Arctic risks and hazards and the management of emergencies throughout the Canadian and American Arctic. It promotes bilateral exchange and collaboration and the leveraging of resources to maximize safety and security throughout the region

3) Enhance bilateral partnerships in promotion of rule of law assistance, development, and cooperation in the Americas and beyond;

The main objectives of the ARM network is to promote bilateral partnerships and cooperation in the management of risks and emergencies throughout the Arctic;
4) Promote cultural exchange and enhance understanding of our shared history, traditions, and values.

Many of the northern peoples in Alaska and Canada share the same ethnic and cultural heritage having, in many ways, more in common with each other than with their southern compatriots. Northerners on both sides of the border face similar threats and challenges related to climate, security and survival. The ARM Network will enhance these historic connections by fostering the bilateral exchange of applied risk and EM research, encouraging collaboration on issues of common concern and providing an essential link between Northern and academic communities.

**ARMNet Plans for 2016**

For development of ARMNet, assessments are being requested of the Arctic stakeholders who are beneficiaries. The criteria for consideration involves logistics and content infrastructure. Please see the assessment topics in the following survey tools, as part of presentations, at relevant conferences. Since ARMNet was accepted for an AGU poster, the assessment and brochure were sent to the AGU Natural Hazards Focus Group for their feedback. The ARMNet decided not to participate in the AGU poster session. After the non random sample is complete from these conferences, the tabulation of the assessment metrics will be in the report for the US Embassy to be submitted in January, 2016.

After the report and assessment outcomes are reviewed, sources of funding can be considered to develop and implement ARMNet. Based on the assessment results, development and implementation will be more relevant to the stakeholders. The aim is to ensure ARMNet's organization, infrastructure, and logistics are participatory driven. As proposals are developed for funding, assessments will continue throughout 2016. By AOS 2016, the assessment metrics, sample size, infrastructure development and proposals will be available for the presentation and further input from AOS.


**Relevant References:**

http://ccat.sas.upenn.edu/~cerickso/fishweir/articles/Time&ComplexityInHistoricalEcologyIntro.pdf


Richard Eiser n1, Ann Bostrom 2, Ian Burton 3, David M. Johnston 4, John McClure 5, Douglas Paton 6, Joop van der Pligt 7, Mathew P. White 8 RIA: a conceptual framework for responses to


http://www.researchgate.net/publication/232696576_Sustainability_or_Collapse_What_Can_We_Learn_from_Integrating_the_History_of_Humans_and_the_Rest_of_Nature

Resilience Alliance http://www.resalliance.org/
http://torrensresilience.org/characteristics-of-resilience

http://www.ariesnonprofit.com/ARIESprojects.php CRIOS

http://iceandtime.wordpress.com/ Anne Jensen Blog -UIC Senior Scientist
http://www.fema.gov/video-materials#teen Teen CERT
http://www.inupiatheritage.org/our-culture Inupiaq Heritage Center - Inupiaq Learning Framework
http://www.bup.edu.bd/journal/154-163.pdf Triangulation in Social Science Research

http://resiliencetoolbox.org/ Integrated Research on Disaster Risk Centers of NZ

http://www.anthc.org/chs/ces/climate leo/upload/May21-2013b_HowardFerren-AKSC.pdf AkCCO Presentation
Assessment Tools for Arctic Researchers (Nos. 1) and Arctic EMO/SAR/RM (Nos. 2)

No. 1 Arctic Researchers at AOOSM

https://www.arcus.org/search-program/meetings/2015/aoosm/agenda

Arctic Risk Management Network Survey: Is there a Need?
(Sponsor: Applied Research in Environmental Sciences Nonprofit, Inc. Email ariesnonprofit@yahoo.com)
ARMNet Project @ http://www.ariesnonprofit.com/P9.php

Organization Represented (Voluntary Information):

1. Are the research needs of your organization, regarding Arctic SAR/EM, currently being met by the Canadian and US academic/research community for your region(s) of study?
   No __  Somewhat __  Adequately __  Completely ___
   Comments:

2. As an Arctic Researcher, where do you currently access relevant research/new information on Arctic SAR/EM/RM?
   (check all)
   __ Academic journals/periodicals  __ Northern Roundtable/Workshops eg. ADAC
   __ Books  __ Published/Participatory Tabletop exercises
   __ Field Training exercises eg. Arctic Shield  __ SAR/EM websites
   __ Arctic Conferences eg. ArcticNet, AOOSM  __ SAR/EM Consultants
   __ National SAR/EM Conferences eg. SARScene,
   Other ______________________________________________________________
   Comments:

3. What are the biggest obstacles to research on Arctic SAR/EM/RM (check all)
   __ Lack of EMO time to partner and assist with research
   __ Lack of funding/resources
   __ Lack of researchers/experts educated in Arctic SAR/EM
   __ No coordinating research body
   __ Lack of community resources/interest
   Other: __________________________________________
   Comments:
4. Rate the research topics related to Arctic risks and hazards that you think are of greatest interest/concern to your relevant region(s) of study. (scale of 0 – 3)
   0 = no interest   1 = some interest   2 = strong interest   3 = critical interest

   Flooding __  catastrophic power failure __  forest/tundra fire __
   Storm surge __  coastal erosion __  plane crash __
   Oil spill __  chemical spill __  ship sinking __
   Terrorism __  Infrastructure failure __  extreme weather __
   Vandalism __  resupply failure/cut off __  epidemic __
   SAR incident __  water resources __  water supply/drought __

   Other ____________________________________________________________________________

   Comments:

5. Do you think an Arctic Risk Management Network (ARMNET) could support Arctic EMO by:

   Please score each line according to the following scale:
   0 = not likely   1 = somewhat likely   2 = likely   3 = most likely

   __ compiling and synthesizing existing Arctic risk/hazard research
   __ matching EMO research needs and experts
   __ facilitating pan-Arctic collaboration in new research
   __ fostering the exchange of research between Arctic regions
   __ supporting participatory research with the involvement of communities
   __ networking EMOs/communities with common research interests
   __ facilitating joint research projects/funding applications/training
   __ Other:

   Comments:
6. AMONG EMO, SAR, AND RESEARCHER PARTNERS, REDUNDANT AND INTER OPERABLE COMMUNICATIONS CAN INCLUDE THE FOLLOWING:

- Virtual Hub (Any Time Availability)
- Radio Programs (Regular Distribution Such As Per Month)
- CDS (Teleconference Recordings To Share)
- DVDS (Sharing Case Studies And Strategies)
- Teleconferences (As Needed Or Routine)
- Newsletter Briefs (Virtual Hub, E-Newsletters And Mail)
- Risky Business Artwork/Music For Sharing Across Communities
- Role Plays (E.G, Teleconference, Videos Or Radio Programs)
- Table Top Exercises (Among EMO, SAR And Researchers)
- Training Scenarios (Among EMO, SAR And Researchers)
- Applied Theater (Local Creative Dramas For Risk Education And Communication)
- Regular ARMNet Workshops And Receptions At Favorite Conferences
- Annual Travel Awards For ARMNet Partners (EMO, SAR And Researchers) To Conferences
- Others?

Score With The Following Scale:

0=Not Likely 1=Somewhat Likely 2=Likely 3=Most Likely

___Virtual Hub
___Radio Programs
___CDS
___DVDS
___Teleconferences
___Newsletter Briefs
___Risky Business Artwork/Music
___Role Plays
___Table Top Exercises
___Training Scenarios
___Applied Theater
___Workshops At Conferences
___Annual Travel Awards To Conferences

7. Is this initiative of interest to you? _____ (0 = no interest 1 = some interest 2 = interest 3 = strong interest)

You are being invited to take part in this assessment because we feel that your experience in Emergency Management and/or Search and Rescue can contribute much to our understanding about development of an Arctic Risk Management Network. Your participation in this research is entirely voluntary. It is your choice whether to participate or not. We greatly appreciate your assistance to refine plans for ARMNet.

Thank You!
Arctic Risk Management Network Survey: Is there a Need?

(Sponsor: Applied Research in Environmental Sciences Nonprofit, Inc. Email ariesnonprofit@yahoo.com)


Researcher responding (voluntary): ________________________________________________

Note: SAR = Search and Rescue; EM or EMO = Emergency Management or Emergency Management Office; RM = Risk Management

1. Do the research programs in which you are currently involved include research that is related to Arctic SAR/EM issues? Mark all that apply.
   __ I am currently incorporating SAR/EM issues in my research
   __ I am willing to explore including SAR/EM issues in my future research
   __ I am not currently including SAR/EM issues in my research
   __ I do not think SAR/EM issues can be incorporated into my research

   Comments:

2. As an Arctic Researcher, where do you currently access relevant research or new information on Arctic SAR/EM/RM? Check all that apply.
   __ Academic journals/periodicals
   __ Northern Roundtable/workshops, e.g., Arctic Domain Awareness Center
   __ Books
   __ Published/participatory tabletop exercises (group discussions of responses to potential emergencies)
   __ Field training exercises, e.g., Arctic Shield
   __ SAR/EM websites
   __ Arctic conferences, e.g., ArcticNet, AOOSM
   __ SAR/EM consultants and professionals
   __ National SAR/EM conferences, e.g., SARScene
   __ None of the above

   Other __________________________________________________________________________

   Comments:

3. What are the biggest obstacles to research on Arctic SAR/EM/RM? Check all that apply.
   __ Lack of EMO time to partner and assist with research
   __ Lack of funding/resources
   __ Lack of researchers or experts educated in Arctic SAR/EM
   __ No coordinating research body
   __ Lack of community resources/interest

   Other: _________________________________________________________________________

   Comments:

4. Rate the research topics related to Arctic risks and hazards that you think are of greatest interest/concern to your geographical region(s) of Arctic study according to the following scale:
   0 = no interest    1 = some interest    2 = strong interest    3 = critical interest
   __ flooding
   __ catastrophic power failure
   __ extreme weather
   __ vandalism

No. 1 Arctic Researchers at ArcticNet

5. Do you think an Arctic Risk Management Network (ARMNET) could support Arctic researchers by the following:
Score with the following scale: 0 = not likely  1 = somewhat likely  2 = likely  3 = most likely

- compiling and synthesizing existing Arctic risk/hazard research
- matching EMO research needs with research experts
- facilitating pan-Arctic collaboration in new research
- fostering the exchange of research between Arctic regions
- supporting participatory research with the involvement of communities
- networking EMOs/communities with common research interests
- facilitating joint research projects/funding applications/training

Other: __________________________________________ _________________________

Comments:

6. Among EM and SAR professionals and researcher partners, redundant and inter-operable communications may include various methods of communication beyond the Internet. How likely is it that your research program would be willing to participate using each of these methods of communication to reach EM/SAR/RM professionals?

Score with the following scale: 0=not likely   1=somewhat likely   2=likely    3=most likely

- Virtual hub
- Radio programs
- CDS
- DVDs
- Teleconferences
- Newsletter briefs
- Training scenarios
- Workshops at conferences
- Annual travel awards to conferences

Comments:

7. Is this initiative of interest to you? _____ (0 = no interest; 1 = some interest; 2 = interest; 3 = strong interest)

Comments:

You are being invited to take part in this assessment because we feel that your experience can contribute much to the design and development of an Arctic Risk Management Network. Your participation in this research is entirely voluntary. It is your choice whether to participate or not. We greatly appreciate your assistance to refine plans for ARMNet.

Thank You!
No. 2 Arctic EMO/SAR/RM at SARSene [http://www.sarscene.ca/]
1. Are your research needs on Arctic SAR/EM currently being met by the Canadian academic/research community?
   No __   Somewhat __   Adequately __   Completely ___
   Comments:

2. Where do you currently access relevant research/new information on Arctic SAR/EM/RM (check all)
   _ Academic journals/periodicals _ Northern Roundtable meetings
   _ Books _ Tabletop exercises
   _ Training exercises _ SAR/EM websites
   _ Arctic Conferences eg. ArcticNet _ Consultants
   _ National SAR/EM Conferences eg. SARScene
   Other ________________________________
   Comments:

3. What are the biggest obstacles to research on Arctic SAR/EM/RM (check all)
   _ Lack of EMO time
   _ Lack of funding/resources
   _ Lack of researchers/experts educated in Arctic SAR/EM
   _ No coordinating research body
   _ Lack of community resources/interest
   Other: ________________________________
   Comments:
4. Rate the research topics related to Arctic risks and hazards that are of greatest interest/concern to your region (scale of 0 – 3)
   0 = no interest  1 = some interest  2 = strong interest  3 = critical interest
   Flooding __    catastrophic power failure __    forest/tundra fire __
   Storm surge __    coastal erosion __    plane crash __
   Oil spill __    chemical spill __    ship sinking __
   Terrorism __    Infrastructure failure __    Extreme weather __
   Vandalism __    Resupply failure/cut off __    Epidemic __
   SAR incident __
   Other ____________________________________________________________________________

   Comments:

5. Could an Arctic Risk Management Network (ARMNET) support your EMO by:
   Please score each line according to the following scale:
   0 = not likely  1 = somewhat likely  2 = likely  3 = most likely
   __ compiling and synthesizing existing Arctic risk/hazard research
   __ matching EMO research needs and experts
   __ facilitating pan-Arctic collaboration in new research
   __ fostering the exchange of research between Arctic regions
   __ supporting participatory research with the involvement of communities
   __ networking EMOs/communities with common research interests
   __ facilitating joint research projects/funding applications/training
   __ Other:

   Comments:
6. AMONG EMO, SAR, AND RESEARCHER PARTNERS, REDUNDANT AND INTEROPERABLE COMMUNICATIONS CAN INCLUDE THE FOLLOWING:
   - VIRTUAL HUB (ANY TIME AVAILABILITY)
   - RADIO PROGRAMS (REGULAR DISTRIBUTION SUCH AS PER MONTH)
   - CDS (TELECONFERENCE RECORDINGS TO SHARE)
   - DVDS (SHARING CASE STUDIES AND STRATEGIES)
   - TELECONFERENCES (AS NEEDED OR ROUTINE)
   - NEWSLETTER BRIEFS (VIRTUAL HUB, E-NEWSLETTERS AND MAIL)
   - RISKY BUSINESS ARTWORK/MUSIC FOR SHARING ACROSS COMMUNITIES
   - ROLE PLAYS (E.G, TELECONFERENCE, VIDEOS OR RADIO PROGRAMS)
   - TABLE TOP EXERCISES (AMONG EMO, SAR AND RESEARCHERS)
   - TRAINING SCENARIOS (AMONG EMO, SAR AND RESEARCHERS)
   - APPLIED THEATER (LOCAL CREATIVE DRAMAS FOR RISK EDUCATION AND COMMUNICATION)
   - REGULAR ARMNET WORKSHOPS AND RECEPTIONS AT FAVORITE CONFERENCES
   - ANNUAL TRAVEL AWARDS FOR ARMNET PARTNERS (EMO, SAR AND RESEARCHERS) TO CONFERENCES
   - OTHERS?

SCORE WITH THE FOLLOWING SCALE:

0=NOT LIKELY 1=SOMETHING LIKELY 2=LIKELY 3=MOST LIKELY

   _VIRTUAL HUB
   _RADIO PROGRAMS
   _CDS
   _DVDS
   _TELECONFERENCES
   _NEWSLETTER BRIEFS
   _RISKY BUSINESS ARTWORK/MUSIC
   _ROLE PLAYS
   _TABLE TOP EXERCISES
   _TRAINING SCENARIOS
   _APPLIED THEATER
   _WORKSHOPS AT CONFERENCES
   _ANNUAL TRAVEL AWARDS TO CONFERENCES

7. Is this initiative of interest to you? _____ (0 = no interest  1 = some interest  2 = interest  3 = strong interest)

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ARMNet Project @ http://www.ariesnonprofit.com/P9.php

Organization Represented (Voluntary Information):

1. Are the research needs of your organization, regarding Arctic SAR/EM, currently being met by the Canadian academic/research community?

   No __  Somewhat __  Adequately __  Completely ___

   Comments:

2. Where do you currently access relevant research/new information on Arctic SAR/EM/RM (check all)

   __ Academic journals/periodicals  __ Northern Roundtable meetings
   __ Books  __ Tabletop exercises
   __ Training exercises  __ SAR/EM websites
   __ Arctic Conferences eg. ArcticNet  __ Consultants
   __ National SAR/EM Conferences eg. SARScene

   Other ______________________________________________________________

   Comments:

3. What are the biggest obstacles to research on Arctic SAR/EM/RM (check all)

   __ Lack of EMO time
   __ Lack of funding/resources
   __ Lack of researchers/experts educated in Arctic SAR/EM
   __ No coordinating research body
   __ Lack of community resources/interest

   Other: ____________________________________________________________

   Comments:
4. Rate the research topics related to Arctic risks and hazards that you think are of greatest interest/concern to their regions (scale of 0 – 3)
   0 = no interest    1 = some interest    2 = strong interest    3 = critical interest

   Flooding                __  catastrophic power failure                 __        forest/tundra fire __
   Storm surge __  coastal erosion        __          plane crash __
   Oil spill __  chemical spill    __          ship sinking __
   Terrorism __  Infrastructure failure    __          extreme weather __
   Vandalism __  resupply failure/cut off __          epidemic __
   SAR incident __

   Other ____________________________________________________________________________
   Comments:

5. Do you think an Arctic Risk Management Network (ARMNET) could support Arctic EMO by:

   Please score each line according to the following scale:
   0 = not likely  1 = somewhat likely  2 = likely 3 = most likely

   __  compiling and synthesizing existing Arctic risk/hazard research
   __  matching EMO research needs and experts
   __  facilitating pan-Arctic collaboration in new research
   __  fostering the exchange of research between Arctic regions
   __  supporting participatory research with the involvement of communities
   __  networking EMOs/communities with common research interests
   __  facilitating joint research projects/funding applications/training
   __  Other:

   Comments:
6. AMONG EMO, SAR, AND RESEARCHER PARTNERS, REDUNDANT AND INTER OPERABLE COMMUNICATIONS CAN INCLUDE THE FOLLOWING:

VIRTUAL HUB (ANY TIME AVAILABILITY)
RADIO PROGRAMS (REGULAR DISTRIBUTION SUCH AS PER MONTH)
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TELECONFERENCES (AS NEEDED OR ROUTINE)
NEWSLETTER BRIEFS (VIRTUAL HUB, E-NEWSLETTERS AND MAIL)
RISKY BUSINESS ARTWORK/MUSIC FOR SHARING ACROSS COMMUNITIES
ROLE PLAYS (E.G, TELECONFERENCE, VIDEOS OR RADIO PROGRAMS)
TABLE TOP EXERCISES (AMONG EMO, SAR AND RESEARCHERS)
TRAINING SCENARIOS (AMONG EMO, SAR AND RESEARCHERS)
APPLIED THEATER (LOCAL CREATIVE DRAMAS FOR RISK EDUCATION AND COMMUNICATION)
REGULAR ARMNET WORKSHOPS AND RECEPTIONS AT FAVORITE CONFERENCES
ANNUAL TRAVEL AWARDS FOR ARMNET PARTNERS (EMO, SAR AND RESEARCHERS) TO CONFERENCES
OTHERS?

SCORE WITH THE FOLLOWING SCALE:

0=NOT LIKELY 1=SOMewhat LIKELY 2=LIKELY 3=MOST LIKELY

__VIRTUAL HUB
__RADIO PROGRAMS
__CDS
__DVDS
__TELECONFERENCES
__NEWSLETTER BRIEFS
__RISKY BUSINESS ARTWORK/MUSIC
__ROLE PLAYS
__TABLE TOP EXERCISES
__TRAINING SCENARIOS
__APPLIED THEATER
__WORKSHOPS AT CONFERENCES
__ANNUAL TRAVEL AWARDS TO CONFERENCES

7. Is this initiative of interest to you? _____ (0 = no interest   1 = some interest   2 = interest   3 = strong interest)

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